

Original bulletins of the International Seismological Summary (ISS) have been obtained thanks to funding provided by the US National Science Foundation through grant EAR-9725140 (Villaseñor et al., 1997) and have been scanned and collected by SGA Storia Geofisica Ambiente (Bologna) thanks to funding provided by the Istituto Nazionale di Geofisica e Vulcanologia (Rome), in the frame of the EUROSEISMOS project.

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The International Seismological Summary for 1927 October, November, December.

FORMERLY THE BULLETIN OF THE
BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.

The present number of the Summary deals with 174 epicentres, 56 of which are new and 118 old epicentres. On December 4d. Nagasaki gives 41 repetitions for $32^{\circ}\cdot 2\text{N}$. $129^{\circ}\cdot 5\text{E}$. ; these are not included in the totals.

The cases of abnormal focus are as follows :—

	Date, 1927				Epicentre.		Focal depth
	d.	h.	m.	s.	°	'	(below normal)
Oct.	2	3	7	26	35·0N.	69·0E.	+·030
Nov.	6	15	34	27	6·7S.	131·2E.	+·030
Nov.	9	1	5	36	5·5S.	147°0E.	+·040
Nov.	15	8	29	16	51·0N.	179·0E.	+·010
Nov.	16	21	10	9	7·0N.	126·0E.	+·020
Nov.	17	20	54	42	23·8S.	67·5W.	+·025
Nov.	17	22	35	20	7·0N.	126·0E.	+·020
Nov.	19	7	29	36	19·0S.	173°0W.	+·060
Nov.	26	12	53	52	25·0S.	67·0W.	+·030

University Observatory,
Oxford.

1931 May 15.

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1927 OCTOBER, NOVEMBER, DECEMBER.

Oct. 1d. Readings at 0h. (Adelaide, Irkutsk, Ekaterinburg, Tiflis, Baku, Makeyevka, Kucino, Ottawa, Toronto, and Victoria), 1h. (Copenhagen, Feldberg, Uccle, De Bilt, Kew, Pulkovo, Granada, and San Fernando), 2h. (near Rocca di Papa), 4h. (near Sumoto and Matuyama), 5h. (near Toyooka), 9h. (La Paz and La Plata), 11h. (Tiflis), 12h. (Rocca di Papa (2) and Tiflis), 15h. (Tiflis), 20h. (Tucson).

Oct. 2d. 3h. 7m. 26s. Epicentre 35°0N. 69°0E. (as on 1927 July 15d.).

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

The depth of focus 0.030 of Sept. 30d. is retained.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
		°	°	m. s.	s.	m. s.	s.	m. m.	m. m.	
Tashkent	-0.1	6.3	2	i 1	5	-30	i 1 55	-54	i 2.0	2.2
Simla	N. -0.2	7.9	117	—	—	—	—	—	e 4.0	—
Tiflis	E. -1.2	20.0	297	e 4	24	-3	e 8 1	+3	e 12.3	16.1
	N. -1.2	20.0	297	e 4	23	-4	e 8 14	+16	e 12.9	14.4
Ekaterinburg	-1.4	22.5	348	—	—	—	—	—	15.1	—
Makeyevka	-1.7	26.4	309	—	—	—	—	—	11.7	—
Kucino	-2.0	29.7	324	—	—	—	—	—	e 17.1	—
Pulkovo	-2.3	35.2	326	—	—	—	—	—	18.6	—
Upsala	-2.6	41.2	324	—	—	—	—	—	e 36.6	—

Additional readings: Tashkent e = +1m.22s. and +1m.35s.; epicentre 35°3N. 69°0E. Tiflis eN = +4m.58s. = PR₁ + 14s. Makeyevka L = +17.2m. Pulkovo e = 3h.1m.42s. Upsala e = +51m.6s.

Oct. 2d. 4h. 47m. 45s. Epicentre 14°0N. 88°0W.

A = +.034, B = -.970, C = +.242; D = -.999, E = -.035;
G = +.008, H = -.242, K = -.970.

Adopted as an approximate origin after comparison with the epicentre 14°5N. 88°7W. of 1926 July 21d. There is a definite indication of a displacement towards Az. (approx.) 135° with regard to the old origin, but no one assumption will account for the observed discrepancies of all the stations.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m. m.	m. m.
Merida	7.2	347	(1 52)	+ 3	(3 7)	- 8	(3.1)	(4.4)
Oaxaca	9.0	291	(2 21)	+ 5	(4 3)	0	(4.0)	(4.5)
Tacubaya	12.1	298	2 58	- 2	4 58	-23	5.3	6.2
Port au Prince	15.7	71	e 3 57	+ 9	i 7 9	+21	e 9.3	—
Tucson	E. 27.7	315	e 6 13	+ 8	e 10 53	—	e 15.4	15.6
	N. 27.7	315	e 6 17	+12	e 10 53	- 1	e 15.2	15.7
Chicago	27.8	1	e 6 7	+ 1	i 11 23	+28	—	13.4
Ann Arbor	28.6	7	—	—	i 11 3	- 7	e 15.8	—
Ithaca	30.1	17	e 7 23	?PR ₁	—	—	—	—
Toronto	E. 30.5	14	6 29	- 4	i 11 27	-16	14.2	14.4
Ottawa	33.1	18	1 6 56	- 1	i 12 15	-11	e 14.8	—
La Paz	36.3	147	7 12	-12	i 13 11	- 3	16.3	23.0
La Paz	39.9	146	i 7 28	-26	i 13 37	-28	21.4	25.8
Suzeré	45.1	328	8 29	- 5	14 27	-49	23.9	29.9
Victoria	45.1	328	8 27	- 7	15 9	- 7	—	—
La Plata	48.6	151	9 44	- 6	i 17 28	-13	31.2	—
Rio de Janeiro	57.3	131	—	—	e 17 37	-13	—	—
Honolulu T.H. N.	66.5	288	—	—	i 19 45	+ 1	—	—
San Fernando	75.2	56	—	—	—	- 1	37.2	47.2

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.
Edinburgh	75.6	36	—	—	e 21 27	- 6	36.2	39.2
Stonyhurst	76.1	39	—	—	e 21 5	-33	35.8	38.0
Toledo	76.5	52	—	—	e 21 9	-34	e 32.8	39.3
Oxford	77.1	40	12 40	+38	21 47	- 3	e 36.2	41.8
Granada	77.2	55	e 12 29	+27	e 22 43	+52	36.6	38.0
Kew	77.7	40	e 12 38	+33	21 45	-12	36.2	—
Almeria	78.2	55	e 12 35	+27	—	—	—	43.0
Tortosa	N. 79.8	50	—	—	22 13	- 8	e 36.2	41.4
Paris	79.9	43	e 12 15?	- 3	—	—	39.2	41.2
Uccle	80.6	40	e 12 15?	- 8	e 22 15?	-15	e 38.2	—
De Bilt	80.9	39	1 12 30	+ 6	—	—	e 37.2	42.1
Besançon	82.5	45	—	—	—	—	41.2	—
Strasbourg	83.3	43	e 12 39	+ 1	e 23 50	?PS	e 40.2	50.0
Feldberg	83.3	40	—	—	e 22 57	- 3	e 36.4	41.8
Copenhagen	84.2	35	—	—	e 23 15?	+ 5	41.2	—
Cheb	85.5	40	—	—	e 23 15?	-10	e 40.2	44.2
Upsala	E. 85.6	29	—	—	—	—	e 42.2	—
Prague	87.1	40	—	—	—	—	e 44.2	47.2
Rocca di Papa	88.5	47	e 14 36	+88	e 23 36	[+18]	e 38.9	44.2
Zagreb	89.4	44	e 13 26	+14	e 23 31	[+ 7]	45.2	—
Pulkovo	91.3	26	13 17	- 6	23 41	[+ 5]	42.2	50.3
Kucino	96.8	28	—	—	i 24 10	[+ 3]	47.6	52.2
Suva	97.7	255	—	—	—	—	52.2	—
Makeyevka	101.6	35	—	—	24 35	[+ 3]	46.8	58.0
Wellington	E. 104.5	231	—	—	—	—	52.2	—
Ekaterinburg	E. 104.6	18	—	—	24 51	[+ 6]	48.8	57.0
Ksara	E. 108.3	46	e 19 4	?PR ₁	e 28 39	?PS	—	—
Tiflis	E. 109.3	35	—	—	e 28 22	+60	e 49.2	59.4
	N. 109.3	35	—	—	e 28 26	+64	e 52.2	56.8
Baku	113.0	33	19 41	?PR ₁	—	—	54.2	65.0
Tashkent	120.8	20	e 15 54	+ 8	25 56	[+ 9]	e 53.2	69.0
Phu-Lien	N. 142.4	336	—	—	—	—	76.2	—

Additional readings and notes: Merida readings have been increased by 2m. and Oaxaca by 1m. Port au Prince $iP = +4m.27s.$ Tucson $ePR_1N = +6m.40s., ePR_1E = +6m.43s.$ Chicago $ePR_1E = +6m.50s., iPR_1N = +6m.51s., eE = +9m.3s., iSN = +10m.40s., MN = +16.8m.$ Ann Arbor $ePR_1 = +6m.15s., eSR_1 = +13m.45s.; T_0 = 4h.45m.24s.$ Toronto $eE = +7m.26s. = PR_1 + 1s., iSN = +11m.32s., iE = +11m.33s., MN = +16.4m.; T_0 = 4h.47m.57s.$ Ottawa $i = +8m.13s. = PR_2 - 1s.$ La Paz $i = +17m.25s. and +18m.8s.$ Sucre $SR_1 = +16m.52s., i = +17m.49s. = SR_1 + 21s.$ Honolulu T.H. $iSE = +19m.52s.$ San Fernando $MN = +46.8m.$ Toledo $MNW = +39.8m.$ Uccle $e = +16m.15s.?$ De Bilt $eLN = +34.2m., MN = +39.8m., MZ = +41.4m.$ Strasbourg $ePR_1 = +16m.5s.$ Feldberg $e = +20m.57s., +23m.51s. = PS + 3s. and +27m.45s.$ Copenhagen $eSR_1N = +29m.15s.?$ Prague $e = +42m.15s.?$ Zagreb $ePNE = +13m.30s.$ Pulkovo $PR_1 = +16m.54s., SR_1 = +29m.57s., MZ = +50.4m.$ Kucino $ePR_1 = +17m.42s., eSR_1 = +30m.47s., MN = +52.9m.$ Makeyevka $ePR_1 = +18m.15s., MZ = +57.7m.$ Ekaterinburg $PR_1 = +18m.36s., e = +24m.24s. and +27m.52s. = PS - 4s., PPS = +28m.5s., SR_1 = +33m.3s., SR_2 = +38m.12s., MZ = +57.4m., MN = +57.9m.$ Tiflis $ePR_1 = +19m.14s., ePR_1E = +19m.17s., eN = +25m.14s. = [S] + 7s., eS = +25m.15s. = [S] + 8s., and +34m.36s. = SR_1 + 3s.$ Baku $iPR_1 = +20m.2s., e = +25m.35s. = [S] + 13s., and +28m.28s., eSR_1 = +35m.48s., MN = +65.7m., MZ = +66.6m.$ Tashkent $iPR_1 = +20m.35s., S_1P_1S = +27m.28s., ePS = +30m.23s.?, iPPS = +32m.2s., SR_1 = +37m.15s., SR_2 = +41m.44s., MZ = +63.0m., MN = +63.2m.$

Oct. 2d. 9h. 29m. 15s. Epicentre 14°-0N. 88°-0W. (as at 4h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Merida	7.2	347	(1 51)	+ 2	(2 37)	-38	(2.6)	(4.0)
Oaxaca	9.0	291	(2 22)	+ 6	—	—	2.4	—
Tacubaya	12.1	298	2 51	- 9	4 46	-35	5.0	5.9
Tucson	N. 27.7	315	—	—	—	—	e 16.2	17.6
Chicago	N. 27.8	1	—	—	e 11 0	+ 5	e 19.2	—
Toronto	E. 30.5	14	—	—	—	—	e 21.3	—
Ottawa	33.1	18	—	—	e 11 57	-29	e 17.8	—
Victoria	45.1	328	—	—	—	—	25.6	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Granada	77.2	55	—	—	e 24 45?	?	—	36.8
Kew	77.7	40	—	—	—	—	e 33.8	—
Paris	79.9	43	—	—	—	—	e 35.8	—
De Bilt	80.9	39	—	—	—	—	e 39.8	—
Strasbourg	83.3	43	—	—	—	—	e 36.8	—
Moncalieri	84.1	46	—	—	e 28 48	?SR ₁	40.2	—
Kucino	96.8	28	—	—	—	—	e 49.0	—
Makeyevka	101.6	35	—	—	—	—	e 47.8	—
Ekaterinburg	104.6	18	—	—	e 25 47	?E	50.2	—
Baku	113.0	33	—	—	—	—	e 54.8	—
Tashkent	120.8	20	—	—	—	—	e 54.8	73.7

Additional readings and notes : Merida readings have been increased by 2m., and Oaxaca by 1m. as for the 4h. shock. Tucson eN = +14m.33s. Chicago eE = +11m.3s. and +16m.36s.

Oct. 2d. Readings also at 0h. (Ekaterinburg), 4h. (Makeyevka, Pulkovo, and Tiflis), 6h. (Kucino), 8h. (Ekaterinburg), 10h. (La Paz), 17h. (La Paz and Tiflis), 19h. (Tashkent), 20h. (Irkutsk and near Taihoku), 21h. (Ekaterinburg (2), Makeyevka, Tashkent, Tiflis (2), Strasbourg, Feldberg, De Bilt, Paris, Kew, Oxford, Granada, San Fernando, and Ottawa), 22h. (Baku), 23h. (near Toyooka).

Oct. 3d. 23h. 55m. 42s. Epicentre 19° 58. 66° 0W. (as on 1924 March 6d.).

A = +.383, B = -.861, C = -.334 ; D = -.914, E = -.407 ;
G = -.136, H = +.305, K = -.943.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	3.6	325	i 1 21	+25	1 2 17	+38	2.4	3.5
Santiago	14.5	196	3 16	-17	5 8	-72	5.9	—
La Plata	17.0	156	4 23	+18	7 28	+10	9.4	—
Rio de Janeiro	21.5	103	e 4 59	0	—	—	14.5	15.9
Toronto	64.3	350	i 10 40	0	i 19 11	-6	39.7	—
Ottawa	65.5	353	i 10 48	0	e 19 30	-1	e 30.3	—
Tucson	67.2	320	e 8 49	-130	—	—	—	—
San Fernando	79.9	45	—	—	—	—	—	24.3
Malaga	80.8	46	12 23	-1	22 45	+12	—	—
Granada	81.6	46	i 12 28	0	i 22 55	+13	41.3	52.5
Almeria	82.3	46	12 31	-1	22 50	+1	—	43.5
Toledo	82.8	43	i 12 36	+1	22 55	0	e 37.0	—
Victoria	85.0	325	12 29	-19	(22 51)	-28	22.8	24.2
Kew	91.1	34	—	—	(e 23 18?)	[-17]	e 23.3	—
Moncalieri	92.9	43	(13 44)	+12	13 44	—	19.2	—
Uccle	93.4	36	—	—	e 24 47	-2	e 39.3	—
Strasbourg	94.3	39	e 13 36	-4	—	—	e 55.3	—
De Bilt	94.4	35	—	—	—	—	e 26.3	—
Rocca di Papa	94.9	47	e 18 11	?PR ₁	—	—	—	—
Feldberg	95.5	38	—	—	—	—	e 40.2	—
Pulkovo	109.9	31	—	—	(e 28 18?)	+51	e 28.3	—
Kucino	113.8	36	—	—	—	—	e 51.6	—
Tiflis	118.2	51	—	—	—	—	e 58.8	—
Baku	122.0	52	e 20 43	?PR ₁	e 33 35	?	e 62.3	74.7
Ekaterinburg	126.0	33	e 19 6	[-2]	e 47 52	?SR ₂	51.3	—
Tashkent	136.4	49	i 19 26	[-7]	—	—	e 66.3	80.9
Irkutsk	146.4	10	i 19 47	[-3]	—	—	—	—

Additional readings : La Paz i = +1m.28s. and +1m.54s., MN = +2.7m. ; T. = 23h.55m.50s. ; epicentre 20° 28. 69° 0W. Tucson eE = +8m.51s. San Fernando MN = +22.3m. Granada PR₁ = +16m.23s., i = +23m.38s. = PS + 12s. Almeria i = +26m.17s. MZ = +46.4m. Moncalieri e = +4m.33s. Strasbourg e = +26m.18s. ? = PS + 10s. Tiflis ePR₁E = +20m.17s., eN? = +23m.26s. = PR₁ - 4s., eE? = +28m.49s., eLN = +63.3m. Baku MN = +78.5m. Tashkent i = +22m.17s. = PR₁ + 7s., and +23m.33s., e = +40m.30s. = SR₁ + 22s., and +45m.18s.?, MZ = +82.2m. Irkutsk e = +20m.5s., i = +20m.22s.

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Oct. 3d. Readings at 1h. (Taihoku), 3h. (Tashkent and Tiflis (2)), 4h. (Baku, Ekaterinburg, Tiflis, Makeyevka, and Pompeii), 5h. (Tiflis and Zagreb), 6h. (Tiflis), 10h. (near Tacubaya), 13h. (Taihoku), 14h. (Taihoku (2) and near Sumoto), 15h. (Ekaterinburg, Irkutsk, Phu-Lien, Tashkent, Taihoku, and Zi-ka-wei), 16h. (Ekaterinburg, Irkutsk, Tashkent, Taihoku, Phu-Lien, and Zi-ka-wei), 17h. (Ekaterinburg, Irkutsk, Tashkent, Taihoku, Phu-Lien, Hong Kong, and Zi-ka-wei), 18h. (Baku, Feldberg, Uccle, and Tiflis), 20h. (Ekaterinburg, Tashkent, Taihoku, Zi-ka-wei, and near Sucre), 23h. (Baku, Irkutsk, Tashkent, and Tiflis).

Oct. 4d. 2h. 14m. 24s. Epicentre 25°0N. 123°0E. (as on 1927 Sept. 2d.).

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

For the series of shocks 4d. 2h. and 17h., 5d. 16h., 6d.13h., 7d.19h., 9d.4h., 10d.17h., 11d.3h., and 12d.6h. and 7h. De Bilt gives the epicentre near the South Riu-Kiu Islands.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	m. s.	m. s.	m. s.	m.	m.
Taihoku	N.	1.3	274	e 0 26	+ 6	—	—	—	1.5
Zi-ka-wei		6.3	348	e 1 18	-18	—	—	—	—
Hong Kong		8.5	252	4 24	?L	—	—	(4.4)	6.1
Manila		10.6	191	—	—	—	—	—	6.6
Phu-Lien		15.7	258	e 3 23	-25	—	—	—	—
Irkutsk		30.7	338	e 6 36?	+ 1	e 10 36?	-70	e 17.1	19.9
Ekaterinburg		54.3	324	—	—	e 21 6	?SR ₁	e 26.1	30.4
Baku		61.7	305	—	—	—	—	e 32.6	—
Tiflis	E.	65.2	308	—	—	—	—	e 36.2	43.4
	N.	65.2	308	—	—	—	—	e 39.6	40.7
Kucino		66.9	323	—	—	—	—	e 34.8	—
Pulkovo		69.9	328	—	—	—	—	e 42.6	—
Feldberg		85.2	325	—	—	—	—	e 45.6	—
De Bilt		85.8	327	—	—	—	—	e 46.6	48.4
Strasbourg		86.6	324	—	—	—	—	e 52.6	—
Uccle		87.0	326	—	—	—	—	e 46.6	—
Moncalieri		88.6	320	—	—	—	—	e 47.9	—
Kew		88.8	329	—	—	—	—	e 47.6	—

Additional readings and notes: The reading for Hong Kong is the only one given with a definite phase. Tiflis eLN = +36.1m., eLE = +40.1m., the readings entered are given as e only. De Bilt MZ = +56.0m.

Oct. 4d. 17h. 32m. 31s. Epicentre 25°0N. 123°0E. (as at 2h.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	m. s.	m. s.	m. s.	m.	m.
Taihoku		1.3	274	e 0 26	+ 6	—	—	—	—
Zi-ka-wei		6.3	348	e 2 29	?S	(e 2 29)	-23	—	11.1
Hong Kong		8.5	252	—	—	—	—	—	13.2
Phu-Lien		15.7	258	—	—	—	—	7.5	—
Irkutsk		30.7	338	—	—	—	—	e 16.5	—
Tashkent		47.0	305	—	—	e 14 29?	-72	e 32.5	36.5
Ekaterinburg		54.3	324	—	—	—	—	e 29.6	—
Baku		61.7	305	—	—	—	—	e 42.4	—
Tiflis	E.	65.2	308	e 8 29?	?	—	—	e 43.1	—
Feldberg		85.2	325	—	—	—	—	e 53.0	—
De Bilt		85.8	327	—	—	—	—	e 53.5	—
Strasbourg		86.6	324	—	—	—	—	e 61.5	—
Uccle		87.0	326	—	—	—	—	e 53.5	—
Kew		88.8	329	—	—	—	—	e 57.5	—

Additional readings: Irkutsk e = +22m.11s. and +23m.41s. Tashkent
MN = +34.2m., MZ = +38.4m. Ekaterinburg L = +35.0m. Tiflis
eN = +44m.3s., LN = +62.2m. Uccle e = +61m.29s.?

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Oct. 4d. 21h. 5m. 40s. Epicentre 55°0S. 27°5W. (as on 1927 Aug. 16d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Rio de Janeiro	34.2	335	e 12 40	?S	(e 12 40)	- 3	e 16.3	—
La Paz	49.5	305	e 9 4	0	i 16 9	- 4	32.3	—
San Fernando	E. 93.3	15	—	—	—	—	—	57.3
Granada	94.4	19	—	—	—	—	—	53.8
Rocca di Papa	102.6	29	e 55 17	?L	—	—	48.3	62.9
Strasbourg	107.7	23	—	—	—	—	(e 55.3)	—
Kew	108.8	17	—	—	—	—	e 57.3	—
Uccle	109.1	20	—	—	—	—	e 57.3	—
De Bilt	110.5	21	—	—	—	—	e 53.3	—
Tiflis	E. 114.5	50	—	—	e 25 44	[+17]	e 57.3	75.8
	N. 114.5	50	—	—	e 27 1	?Σ	e 70.7	69.6
Baku	115.8	55	—	—	—	—	e 60.3	71.8
Tashkent	126.2	66	e 21 16	?PR ₁	e 24 38	?PR ₂	e 62.3	73.1
Ekaterinburg	132.5	46	—	—	—	—	e 67.8	—

Additional readings: Rio de Janeiro ePN = +12m.20s. La Paz i =
+22m.56s. San Fernando MN = +52.8m. Rocca di Papa e =
+62m.24s. Tiflis eN = +42m.56s. Baku MN = +78.4m.

Oct. 4d. Readings also at 1h. (Tashkent), 2h. (Taihoku), 3h. (near Tacubaya (2)),
5h. (Tiflis), 6h. (Stonyhurst), 8h. (Entebbe), 10h. (near Nagasaki), 11h.
(Ekaterinburg and Taihoku), 12h. (Tashkent), 15h. (Wellington), 17h.
(Taihoku), 19h. (Manila).

Oct. 5d. 7h. 51m. 30s. Epicentre 54°0S. 8°0E. (assumed to be an anticipation of
1927 Nov. 14d. 15h., but there is very little evidence).

A = +.582, B = +.082, C = -.809; D = +.139, E = -.990;
G = -.801, H = -.113, K = -.588.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Cape Town	21.4	25	10 43	?L	—	—	(10.7)	13.7
Tananarive	46.3	58	e 21 2	?L	—	—	(e 21.0)	—
La Plata	48.7	267	9 6	+ 8	—	—	—	—
Rio de Janeiro	49.2	289	—	—	e 16 3	- 6	e 19.5	—
La Paz	68.6	273	i 11 41	+33	—	—	37.4	42.7
Wellington	84.0	171	—	—	—	—	45.5	—
Ksara	N. 91.1	24	e 24 50	?S	(e 24 50)	+25	51.5	—
San Fernando	91.3	349	—	—	25 5	+38	—	54.0
Moncalieri	99.0	0	—	—	e 26 42	?PS	53.9	—
Tiflis	E. 100.7	29	—	—	e 21 47	?	47.4	52.6
	N. 100.7	29	—	—	e 21 43	?	48.6	55.2
Baku	101.0	32	—	—	e 27 11	?PS	45.5	57.0
Strasbourg	102.6	0	—	—	—	—	e 56.5	—
Paris	102.9	357	—	—	—	—	e 53.5	—
Uccle	104.9	358	—	—	e 28 30?	?PS	e 50.5	—
Makeyevka	105.1	21	—	—	—	—	e 33.5	—
Kew	105.7	355	—	—	—	—	e 49.5	—
Oxford	106.0	354	—	—	—	—	e 53.5	57.8
De Bilt	106.1	359	—	—	—	—	e 51.6	—
Tashkent	108.7	45	e 19 30?	?PR ₁	e 28 0	+44	e 41.5	64.6
Kucino	112.5	18	—	—	—	—	e 48.9	—
Ekaterinburg	118.8	30	—	—	e 38 11	?SR ₁	55.0	65.2
Ottawa	122.1	305	—	—	—	—	e 51.5	—
Irkutsk	132.8	56	—	—	e 34 30?	?	—	—

Additional readings: Rio de Janeiro eN = +16m.5s. = S + 8s. Ksara LE =
+54.5m. San Fernando MN = +52.0m. Moncalieri S? = +37m.23s. =
SR₁ + 11s. Tiflis eN = +27m.7s. = PS - 6s. eE = +29m.4s. and +30m.43s.
Baku e = +34m.19s., +38m.59s., and +44m.4s., MN = +52.6m., MZ =
+57.7m. Uccle e = +34m.30s. Tashkent e = +35m.56s., +36m.12s.,
MNZ = +62.8m.

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Oct. 5d. 16h. 36m. 48s. Epicentre 25°0N. 123°0E. (as on Oct. 4d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	1·3	274	e 0 26	+ 6	—	—	0·9	—
Zi-ka-wei	6·3	348	e 1 38	+ 2	3 0	+ 8	—	4·9
Hong Kong	8·5	252	—	—	—	—	—	7·0
Phu-Lien	15·7	258	3 38	-10	—	—	10·2	—
Irkutsk	30·7	338	6 5	-30	11 12	-34	19·4	20·1
Tashkent	47·0	305	—	—	—	—	e 26·2	—
Ekaterinburg	54·3	324	—	—	e 21 23	?SR ₁	26·7	34·4
Baku	61·7	305	—	—	—	—	e 34·7	—
Tiflis	65·2	308	—	—	—	—	e 35·3	—
Pulkovo	69·9	328	—	—	—	—	e 42·2	—
Copenhagen	80·2	328	—	—	—	—	44·2	—
De Bilt	85·8	327	—	—	—	—	e 46·2	56·3
Strasbourg	86·6	324	—	—	—	—	e 53·2	—
Uccle	87·0	326	—	—	—	—	e 47·2	—
Kew	88·8	329	—	—	—	—	e 49·2	—
Paris	89·2	325	—	—	—	—	e 55·2	—

Additional readings and notes: Irkutsk e = +11m.57s., +15m.39s., and +17m.28s. Tashkent e = +24m.38s., MZ = +31·4m. Ekaterinburg
MN = +30·6m. Tiflis eN = +36m.17s., eLE = +40·4m. Uccle e = +55m.12s.?

Oct. 5d. Readings also at 0h. (Feldberg and near Mizusawa), 1h. (Taihoku and near Tashkent (3)), 2h. (Irkutsk and Taihoku), 3h. (Tiflis and near Mizusawa), 5h. (Moncalieri), 7h. (near Mizusawa), 9h. (Berkeley), 10h. (Feldberg, Tiflis, and near Tashkent), 11h. (Tiflis), 12h. (Moncalieri and near Rocca di Papa), 14h. (near Taihoku), 20h. (Florence), 21h. (Ottawa, Victoria, near Tucson (2), and near Lick), 22h. (near Tucson), 23h. (Florence).

Oct. 6d. 13h. 21m. 37s. Epicentre 25°0N. 123°0E. (as on Oct. 5d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku N.	1·3	274	e 0 26	+ 6	—	—	—	—
Hong Kong	8·5	252	—	—	—	—	—	8·4
Phu-Lien	15·7	258	—	—	—	—	6·4	—
Irkutsk	30·7	338	e 5 33	-62	e 11 23	-23	19·4	19·8
Tashkent	47·0	305	e 10 23?	?PR ₁	e 15 17	-24	e 25·3	31·6
Ekaterinburg	54·3	324	—	—	e 21 0	?SR ₁	28·9	—
Baku	61·7	305	—	—	—	—	e 35·4	—
Tiflis	65·2	308	—	—	e 25 28	?SR ₁	e 38·0	—
Pulkovo	69·9	328	—	—	—	—	e 40·4	—
De Bilt	85·8	327	—	—	—	—	e 47·4	55·8
Strasbourg	86·6	324	—	—	—	—	e 53·4	—
Uccle	87·0	326	—	—	—	—	47·4	—

Additional readings: Irkutsk e = +15m.17s., +15m.29s., and +16m.59s.
Tashkent e = +23m.59s., MN = +30·7m., MZ = +37·9m.

Oct. 6d. Readings also at 2h. (Baku, Batavia, La Paz, Florence, and Tiflis (2)), 3h. (Taihoku), 4h. (Ekaterinburg and Irkutsk), 6h. (near Batavia), 7h. (near Tashkent), 12h. and 15h. (Tiflis), 21h. (Ottawa, Tiflis, Tucson (3), and Victoria), 22h. (Baku, Ottawa, Tucson, and Victoria), 23h. (Baku and Tiflis).

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Oct. 7d. 14h. 19m. 30s. Epicentre 38°·0N. 21°·5E. (as on 1925 July 6d.).

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

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Trente		4·2	289	e 1 0	- 5	i 2 0	+ 5	—	—
Naples	E.	6·3	299	e 3 15	+99	e 4 15	+83	—	—
Belgrade	N.	6·8	354	—	—	e 2 58	- 7	6·7	—
Rocca di Papa		7·7	302	e 2 44	+47	e 3 30	+ 1	4·1	5·0
Zagreb	N.E.	8·8	334	e 3 0	+47	e 3 55	- 3	e 5·2	7·1
	N.W.	8·8	334	e 2 30?	+17	e 3 46	-12	e 5·0	6·6
Florence		9·6	310	—	—	e 4 30	+12	—	6·0
Ksara		12·4	105	e 3 20	+15	5 58	+29	9·1	—
Moncalieri		12·4	308	(e 3 21)	+16	(6 3)	+34	6·2	—
Prague		13·0	340	—	—	—	—	e 6·5	8·5
Cheb		13·7	335	e 2 30?	-52	—	—	—	—
Strasbourg		14·5	321	—	—	e 6 21	+ 1	e 9·5	10·2
Feldberg		15·3	327	—	—	—	—	e 9·8	13·5
Paris		17·4	314	—	—	—	—	e 9·5	—
Hamburg		17·5	337	—	—	—	—	e 10·5	—
Uccle		17·6	322	—	—	e 7 20	-11	e 9·5	—
De Bilt		18·1	326	e 4 19	+ 1	e 7 33	- 9	e 10·0	10·5
Tiflis	E.	18·2	71	e 4 19	0	e 8 11	+27	e 11·6	13·0
	N.	18·2	71	e 4 30	+11	e 8 12	+28	e 10·9	13·6
Copenhagen		18·7	344	—	—	e 7 48	- 7	10·5	—
Granada		19·8	275	i 4 22	-17	—	—	—	—
Kew		20·4	318	—	—	—	—	e 10·5	—
Kucino		20·9	26	—	—	—	—	e 11·3	13·6
Oxford		21·1	318	—	—	—	—	e 12·3	12·5
Baku		22·0	75	—	—	e 9 12	+ 7	13·5	17·1
Pulkovo		22·4	11	4 58	-12	9 2	-11	11·5	—
Ekaterinburg		31·8	41	—	—	11 43	-22	17·5	21·1
Irkutsk		56·8	47	—	—	—	—	e 31·5	—

Additional readings: Belgrade eE = +3m.15s. and +5m.4s., iN = +5m.22s.
Zagreb eNW = +5m.49s. Moncalieri eP = (+3m.23s.); this and the P
and S readings entered have been increased by 3m. Strasbourg e =
+8m.12s. De Bilt MN = +10·6m. Baku e = +11m.2s., MZ = +16·3m.,
MN = +17·5m. Ekaterinburg e = +14m.57s. Irkutsk L = +36·0m.

Oct. 7d. 15h. 28m. 14s. Epicentre 38°·0N. 21°·5E. (as at 14h.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Trente		4·2	289	e 1 6	+ 1	e 2 6	+11	—	—
Naples	E.	6·3	299	e 2 46	?S	(e 2 46)	- 6	—	—
Belgrade	N.	6·8	354	—	—	e 2 59	- 6	7·8	—
Rocca di Papa		7·7	302	e 3 1	+64	—	—	e 4·5	5·7
Zagreb	N.E.	8·8	334	—	—	—	—	e 5·1	—
Florence		9·6	310	e 4 46	?L	—	—	(e 4·8)	7·8
Moncalieri	N.	12·4	308	(e 3 5)	0	(5 3)	-26	7·0	—
Strasbourg		14·5	321	—	—	—	—	e 6·8	—
Feldberg		15·3	327	—	—	—	—	e 9·2	—
Makeyevka		15·6	45	—	—	—	—	10·2	—
De Bilt		18·1	326	—	—	—	—	e 10·3	—
Tiflis	E.	18·2	71	e 4 40	+21	e 8 19	+35	e 12·5	13·2
	N.	18·2	71	e 4 41	+22	e 8 22	+38	e 12·3	13·8
Baku		22·0	75	—	—	—	—	e 15·3	—
Ekaterinburg		31·8	41	—	—	—	—	17·3	—

Additional readings and notes: Belgrade eE = +4m.33s. and +5m.28s., eN =
+5m.36s. Rocca di Papa e = +3m.15s. Zagreb e = +3m.4s., eNW =
+5m.10s. Moncalieri P is given as e simply and has been increased by
7m., S has been increased by 4m.

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Oct. 7d. 19h. 3m. 29s. Epicentre 25°·0N. 123°·0E. (as on Oct. 6d.).

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

		△	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	N.	1·3	274	e 0 26	+ 6	—	—	—	—
Zi-ka-wei		6·3	348	e 1 28	- 8	2 25	-27	—	4·5
Hong Kong		8·5	252	—	—	—	—	—	6·5
Phu-Lien	E.	15·7	258	e 2 31?	?	—	—	—	—
Irkutsk		30·7	338	—	—	e 11 58	+12	16·5	18·1
Ekaterinburg		54·3	324	—	—	—	—	27·0	29·8
Baku		61·7	305	—	—	—	—	e 34·0	—
Tiflis		65·2	308	—	—	—	—	e 20·5	—
Makeyevka		68·5	315	—	—	—	—	e 40·3	—
Pulkovo		69·9	328	—	—	—	—	e 36·8	—
Copenhagen		80·2	328	—	—	—	—	43·5	—
De Bilt		85·8	327	—	—	—	—	e 46·5	—
Strasbourg		86·6	324	—	—	—	—	e 50·5	—
Uccle		87·0	326	—	—	—	—	e 46·5	—
Rocca di Papa		87·3	316	—	—	e 20 5	?PR ₁	—	23·7
Kew		88·8	329	—	—	—	—	e 51·5	—

Additional readings: Irkutsk e = +13m.59s. Pulkovo L = +42·5m.
Uccle e = +54m.31s. ?

Oct. 7d. 21h. 34m. 25s. Epicentre 36°·8N. 69°·5E. (as on 1925 Dec. 18d.).

A = +·280, B = +·750, C = +·599; D = +·937, E = -·350;
G = +·210, H = +·561, K = -·801.

		△	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent		4·5	358	1 27	+17	1 2 28	+24	—	3·6
Simla	E.	8·5	129	e 2 53	+44	4 41	+51	—	—
	N.	8·5	129	e 3 47	+98	4 53	+63	—	—
Baku		15·7	289	e 3 50	+ 2	e 6 53	+ 5	9·6	—
Bombay		18·1	170	9 32	?L	e 10 32	?	(9·5)	—
Tiflis	E.	19·7	292	e 4 36	- 1	e 8 18	+ 1	e 11·9	16·5
	N.	19·7	292	e 4 35	- 2	e 8 28	+11	e 14·9	22·4
Ekaterinburg		20·9	346	i 4 57	+ 5	1 8 53	+11	i 12·0	12·6
Hyderabad		20·9	155	8 37	?S	(8 37)	- 5	13·0	16·3
Makeyevka		25·6	306	e 5 31	-13	e 10 8	- 6	14·6	18·2
Kucino		28·5	322	—	—	e 11 20	+12	e 16·4	—
Irkutsk		28·8	46	—	—	e 10 54	-19	e 16·1	—
Pulkovo		33·9	325	e 6 29	-35	e 12 25	-14	16·6	—
Upsala	N.	40·0	322	—	—	—	—	e 22·6	—
Copenhagen		42·3	316	—	—	—	—	18·6	—
Hamburg		43·7	312	—	—	—	—	e 21·6	—
Feldberg		44·9	308	—	—	—	—	e 25·6	—
Strasbourg		45·6	305	—	—	—	—	e 28·6	—
De Bilt	E.	46·3	310	—	—	—	—	e 27·6	—
Uccle		47·4	309	—	—	—	—	e 25·6	—
Paris		48·9	305	—	—	—	—	e 32·6	—
Kew		50·1	310	—	—	—	—	e 27·6	—
Edinburgh		51·0	315	—	—	—	—	—	35·6

Additional readings and notes: Tashkent i = +1m.30s., +1m.50s., and +2m.8s., e = +1m.32s.; epicentre 36°·4N. 69°·0?E. Baku i = +8m.5s. Tiflis eE = +14m.35s. Ekaterinburg i = +5m.12s. = PR₁ -1s., e = +8m.59s., MN = +13·6m., MZ = +14·7m. Hyderabad S = +11m.34s.; readings are all given for 20h. Irkutsk e = +17m.9s. and +17m.58s. De Bilt eLN = +26·6m.

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Oct. 7d. Readings also at 1h. (La Paz and Tiflis), 2h. (Tiflis), 3h. (Baku, Ekaterinburg, Kucino, Makeyevka, Tashkent, Tiflis, De Bilt, and Kobe), 4h. (Taihoku and Uccle), 6h. (Taihoku and Tiflis), 7h. (Suva), 9h. (Tiflis), 11h. (Ekaterinburg, Taihoku, and Irkutsk), 12h. (Ekaterinburg, Irkutsk, La Paz, Taihoku, and Wellington), 13h. (Irkutsk, Baku, Tiflis, Taihoku, near Batavia and Malabar), 14h. (Ksara and Ekaterinburg), 17h. (Taihoku), 18h. (La Paz (2), Tiflis, near Sumoto, and near Malabar), 19h. (Ekaterinburg), 20h. (Ekaterinburg, Feldberg, Irkutsk, Taihoku (2), Tashkent, and Zi-ka-wei), 21h. (Ekaterinburg and near Irkutsk), 22h. (Ekaterinburg, Irkutsk, and Taihoku).

Oct. 8d. 10h. 34m. 28s. Epicentre 30°·5N. 80°·5E. (as on 1926 July 27d.).

A = +·142, B = +·850, C = +·508 ; D = +·986, E = -·165 ;
G = +·084, H = +·501, K = -·862.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Dehra Dun	2·2	265	1 8	+34	1 56	+56	2·3	2·5
Simla	2·9	282	0 56	+11	—	—	1·8	2·2
Calcutta	E. 10·6	137	2 56	+18	3 54	-51	4·8	—
	N. 10·6	137	2 50	+12	3 53	-52	5·0	—
Hyderabad	13·2	188	3 3	-13	5 6	-43	5·8	6·9
Bombay	13·5	213	3 7	-13	5 37	-19	6·7	—
Tashkent	14·1	323	3 35	+ 8	i 6 20	+10	i 6·7	9·6
Kodaikanal	20·5	189	—	—	—	—	10·3	11·0
Baku	26·7	300	5 59	+ 4	e 10 46	+11	15·5	20·4
Irkutsk	27·9	32	e 3 36	? e 10 49	—	—	e 15·4	17·2
Ekaterinburg	29·7	338	i 6 23	- 2	e 11 27	- 2	15·0	17·2
Tiflis	E. 30·7	303	6 42	+ 7	e 11 53	+ 7	e 25·6	27·7
	N. 30·7	303	e 6 58	+23	e 11 47	+ 1	e 25·6	29·7
Zi-ka-wei	34·9	79	e 3 56	? e 13 12	—	—	—	—
Makeyevka	36·7	312	e 7 24	- 4	e 13 12	- 8	16·5	26·3
Kucino	39·1	324	e 7 27	-20	e 13 45	- 8	25·5	25·2
Pulkovo	44·3	328	8 23	- 5	15 4	- 2	21·5	29·0
Upsala	50·5	325	—	—	—	—	e 27·5	—
Prague	52·2	314	—	—	—	—	e 28·5	31·0
Copenhagen	53·1	321	—	—	17 14	+17	25·5	—
Cheb	53·5	314	—	—	—	—	e 29·5	34·5
Hamburg	54·6	318	—	—	—	—	e 26·5	31·5
Strasbourg	56·7	312	—	—	—	—	e 32·5	—
De Bilt	57·7	317	—	—	—	—	e 32·5	38·5
Uccle	58·4	316	—	—	—	—	e 33·5	—
Paris	60·0	314	—	—	—	—	e 35·5	40·5
Kew	61·1	315	—	—	—	—	e 33·5	40·6
Oxford	61·7	317	—	—	—	—	—	36·7
Granada	67·8	301	—	—	—	—	e 40·5	47·5
Ottawa	101·1	345	—	—	—	—	e 56·5	—
La Paz	148·2	289	19 56	[+ 3]	—	—	—	—

Additional readings: Simla ePN = +1m.8s. Tashkent i = +3m.39s. and +3m.48s. Baku MN = +20·5m., MZ = +21·4m. Ekaterinburg e = +11m.46s. Tiflis eE = +7m.1s., eN = +14m.2s., and +17m.2s., eE = +17m.3s. Kucino ePR₂ = +9m.17s., MN = +24·1m. Pulkovo MN = +24·4m., MZ = +28·9m. Copenhagen SR₂ = +20m.32s. ? De Bilt MN = +34·2m. Kew MN = +35·6m., MZ = +40·5m. Ottawa e = +47m.32s. ?

Oct. 8d. 12h. 26m. 5s. Epicentre 34°·0N. 144°·5E.

A = -·675, B = +·481, C = +·559 ; D = +·581, E = +·814 ;
G = -·455, H = +·325, K = -·829.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E. 5·8	333	(1 25)	- 5	(2 28)	-11	—	—
Nagoya	6·4	283	e 1 36	- 2	3 27	+32	—	—
Osaka	7·5	278	1 49	- 5	—	—	3·7	10·1
Kobe	7·8	278	1 45	-13	—	—	4·0	5·0
Toyooka	8·1	284	1 56	- 7	—	—	—	—
Nagasaki	12·3	268	e 3 52	+49	—	—	7·8	—
Zi-ka-wei	19·6	268	3 11	-85	6 41	?	9·4	10·8

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		m.	s.	m.	s.	m.	s.	m.	m.
Manila		28.8	233	—	—	e 9 55?	-78	—	—
Irkutsk		35.9	316	6 58	-6	12 28	-11	17.9	22.2
Honolulu, T.H.	E.	52.0	90	—	—	—	—	e 25.9	—
Tashkent		58.2	302	19 58	-2	1 17 58	-3	e 26.9	37.1
Ekaterinburg		58.9	323	1 10 14	+10	1 18 25	+12	e 28.9	39.2
Kucino		70.8	326	—	—	e 20 48	+12	37.8	46.1
Pulkovo		71.9	332	16 12	?PR ₂	e 21 9	+20	40.9	46.5
Baku		71.9	307	e 11 30	+1	1 20 55	+6	36.9	42.7
Tiflis	E.	74.5	311	e 12 6	+20	e 21 23	+3	37.9	47.1
	N.	74.5	311	e 12 3	+17	e 21 15	-5	37.9	43.8
Makeyevka		75.1	320	e 11 54	+4	e 21 35	+8	39.9	45.7
Copenhagen		81.4	336	—	—	—	—	e 42.9	—
De Bilt		86.9	337	—	—	e 23 48	+8	e 46.9	—
Uccle		88.2	337	—	—	—	—	e 47.9	—
Strasbourg		88.9	334	—	—	—	—	e 52.9	—
Kew		89.1	340	—	—	—	—	e 48.9	—
Paris		90.6	337	—	—	—	—	e 53.9	—
Ottawa		92.7	27	—	—	—	—	e 49.4	—
Granada		102.9	335	—	—	—	—	62.9	68.4
San Fernando	E.	104.4	337	—	—	—	—	—	69.4

Additional readings and notes: Mizusawa PN = (+1m.7s.); all readings having been diminished by 1m. Osaka MN = +7.6m. Kobe MN = +4.5m. Irkutsk MN = +19.5m. Honolulu, T.H. eN = +28m.55s. Tashkent e = +10m.37s., ePS = +18m.29s., e = +21m.37s., MN = +30.8m., MZ = +37.6m. Ekaterinburg e = +20m.2s., MN = +36.7m. Kucino MZ = +46.2m., MN = +46.6m. Pulkovo MZ = +48.0m. Baku IP = +11m.34s., MN = +45.8m. Tiflis eN = +12m.12s. Makeyevka MN = +46.1m., MZ = +48.9m. San Fernando MN = +70.4m.

Oct. 8d. 19h. 49m. 0s. Epicentre 48°1N. 16°6E. (as given by De Bilt, Vienna and Strasbourg).

A = +.640, B = +.191, C = +.744; D = +.286, E = -.953;
G = +.713, H = +.213, K = -.668.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		m.	s.	m.	s.	m.	s.	m.	m.
Vienna		0.2	315	10 4	0	—	—	—	—
Graz		1.3	217	10 22	+2	—	—	—	0.7
Budapest		1.8	110	0 28	+0	(0 50)	-1	0.8	1.5
Zagreb		2.3	190	e 0 39	+3	1 1 21	+18	1.4	1.8
Prague		2.4	324	10 39	+2	e 1 9	+3	e 1.2	1.3
Lalbach		2.5	215	—	—	e 1 2	-7	e 1.7	—
Cheb		3.4	307	10 59	+6	e 1 41	+7	e 1.8	1.9
Innsbruck	N.W.	3.6	259	e 0 54	-2	1 1 34	-5	—	—
Venice		3.9	228	1 1 13	+12	2 8	?L	(2.1)	—
Belgrade	E.	4.2	139	e 0 54	-11	1 1 52	-3	—	2.7
	N.	4.2	139	e 0 55	-10	1 1 53	+2	—	2.5
Jena		4.3	313	e 1 6	-1	2 0	+2	1 2.2	2.3
Havensberg		4.7	270	e 1 8	-5	2 32	+23	—	—
Hohenheim		4.9	280	1 14	-2	2 10	-4	—	2.8
Lemberg	E.	5.2	64	e 2 18	+58	e 4 54	+152	—	5.7
	N.	5.2	64	e 2 24	+64	e 5 6	+164	—	6.2
Zurich		5.5	266	1 1 20	-5	12 21	-10	—	3.1
Feldberg	E.	5.7	294	e 1 27	-1	12 48	+12	13.1	3.2
	N.	5.7	294	e 1 27	-1	e 2 38	+2	13.1	3.1
Florence		5.7	223	e 1 15	-13	2 30	-6	—	3.5
Strasbourg		5.9	278	1 24	-7	13 9	+28	3.7	4.6
Neuchatel		6.6	264	1 1 36	-5	12 52	-8	—	—
Moncalieri		6.8	246	e 1 59	+15	13 30	+25	4.0	—
Rocca di Papa		6.9	205	e 1 39	-6	e 3 7	0	e 3.9	5.3
Hamburg		6.9	324	e 2 48	+63	e 3 22	+15	13.8	5.9
Besançon		7.2	267	e 2 17	+28	3 59	+44	—	—
Konigsberg	E.	7.2	18	—	—	—	—	e 3.6	10.0
Pompeii		7.4	192	e 3 56	?L	e 4 21	+60	(e 4.0)	—
Naples	E.	7.4	194	e 3 51	?L	—	—	(e 3.8)	—
Grenoble		8.0	253	—	—	e 3 0?	-37	14.6	—
Copenhagen		8.0	342	e 2 40	+39	e 3 32	-5	4.3	5.3
De Bilt		8.4	303	e 2 18	+11	e 3 48	+1	e 4.3	5.7
Uccle		8.4	294	e 2 0?	-7	e 4 21	+34	14.5	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Paris	9.4	280	e 2 53	+31	e 4 40	+27	5.1	—
Kew	11.4	294	e 3 19	+29	e 5 31	+27	i 6.5	—
Upsala	11.8	1	e 3 8	+12	e 5 26	+12	i 6.5	7.6
Oxford	12.1	295	—	—	—	—	i 6.0	7.0
Stonyhurst	13.3	303	e 3 15	-2	e 5 46	-5	(e 7.3)	—
Tortosa	N. 13.5	243	e 6 6	?S	(e 6 6)	+10	7.9	8.6
Pulkovo	14.1	29	3 18	-9	6 1	-9	7.7	8.1
Makeyevka	14.3	82	—	—	e 6 44	+29	7.9	10.6
Edinburgh	14.4	310	—	—	—	—	i 8.6	—
Toledo	N.E. 16.9	249	—	—	—	—	e 8.9	—
Almeria	17.8	238	—	—	—	—	12.3	15.2
Granada	18.4	241	—	—	—	—	e 12.4	—
Tifis	20.8	97	e 4 49	-2	e 8 36	-4	e 12.3	16.6
Ekaterinburg	27.7	55	5 55	-10	e 10 50	-4	14.0	15.0
Tashkent	37.3	80	e 9 0?	?PR ₁	—	—	e 10.9	17.0
Irkutsk	52.8	50	—	—	—	—	e 28.5	—

Additional readings: Budapest MN = +3.0m. Zagreb iP = +43s., iPR₁ = +45s., i = +47s., iPS = +48s., iPR₂ = +52s., iR₂P₂S = +1m.6s., iPS = +1m.8s., iR₂P₂S = +1m.10s., i = +1m.12s. and +1m.17s., iR₂P₂S = +1m.18s., iR₂P₂S = +1m.20s., iSR₁ = +1m.23s., iR₂P = +1m.29s., iR₂P₂S = +1m.31s., iR₂S = +1m.37s., iR₂S = +1m.45s. Innsbruck i = +1m.5s. Venice S = +2m.19s. and +2m.28s. ?; also +2m.36s. and +3m.13s. Belgrade iE = +57s. and +2m.1s., iN = +2m.2s., iSEN = +2m.16s. Jena eE = +1m.19s., +1m.23s., and +1m.53s., iE = +1m.37s. Ravensburg iP = +1m.13s., PR₁ = +1m.27s., i = +1m.30s. Hohenheim P = +1m.35s., MN = +2.7m. Feldberg eN = +1m.31s., +1m.37s., +2m.0s., +2m.27s., and +2m.33s. Strasbourg iP = +1m.51s., MN = +4.1m. Rocca di Papa P = +1m.42s., eSE = +3m.18s. Hamburg MZ = +4.3m., MN = +5.1m.; none of the readings entered are given with a definite phase. Königsberg eE = +3m.54s., iE = +4m.16s., eZ = +5m.3s., iZ = +5m.21s., eE = +5m.30s., MZ = +6.0m.; T₀ = 19h.48m.55s. Copenhagen eE = +3m.58s., MN = +4.7m., MZ = +4.8m. De Bilt MN = +4.8m.; P and S are given as eZ and eEZ respectively. Paris e = +3m.57s. Kew e = +2m.46s., iN = +6m.7s., and +6m.21s., iZ = +6m.14s. Upsala MN = +8.1m. Stonyhurst, S is given as e and L as eS ?, eSR₁? = +8m.14s. Tortosa SN = +7m.46s. Pulkovo MNZ = +9.6m. Makeyevka MN = +10.1m., MZ = +10.4m. Tifis eE = +8m.41s., MN = +16.0m.

Oct. 8d. Readings also at 0h. (Ekaterinburg, Suva, Sucre, and near Sumoto), 1h. (Taihoku (2) and Ekaterinburg), 2h. (Ekaterinburg, La Paz, and Sucre), 3h. (La Plata), 5h. (Baku, Ekaterinburg, Tifis, Taihoku, and Zi-ka-wei), 7h. (Baku and Tashkent), 8h. (Irkutsk, near Tucson, near Guadalajara, and Tacubaya), 9h. (Baku, Tashkent, near Kobe, and Sumoto), 10h. (Taihoku), 12h. (Irkutsk and near Belgrade), 13h., 16h., and 17h. (Taihoku), 18h. (Ekaterinburg), 19h. (La Paz), 20h. (near Vienna), 21h. (Tifis, La Paz, and near Vienna), 22h. (Baku, Ekaterinburg, Irkutsk, Taihoku (2), and Tashkent), 23h. (Ekaterinburg, Taihoku, and near Vienna).

Oct. 9d. 3h. 37m. 25s. Epicentre 34°0S. 57°0E. (as on 1927 Sept. 10d.).

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.
Baku	74.7	355	e 11 45	-2	e 21 27	+5	e 34.6	49.5
Tashkent	76.1	10	i 11 27	+31	e 20 29	-69	—	27.5
Tifis	N. 76.5	351	e 11 53	-5	e 21 42	-1	e 42.8	44.5
	76.5	351	e 11 55	-3	e 21 44	+1	40.1	45.7
Granada	90.8	317	—	—	—	—	50.6	55.1
Ekaterinburg	90.9	3	i 13 39	+18	e 23 59	-24	30.1	37.2
Kucino	91.2	350	—	—	—	—	e 39.8	—
Ottawa	142.5	302	—	—	—	—	e 79.6	—

Additional readings: Baku MN = +47.6m., MZ = +48.6m. Tashkent e = 3h.35m.24s. and 3h.38m.34s.; the P and S entered above are given merely as i and e respectively. Tifis eN = +37m 51s. Ekaterinburg P and S are given as i and e only.

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Oct. 9d. 4h. 47m. 3s. Epicentre 25°·0N. 123°·0E. (as on Oct. 7d.).

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

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	E.	1·3	274	e 0 26	+ 6	—	—	—	—
Zi-ka-wei		6·3	348	1 38	+ 2	2 42	-10	—	4·6
Manila		10·6	191	—	—	—	—	e 7·0	—
Phu-Lien		15·7	258	2 57?	-51	—	—	—	—
Tashkent		47·0	305	—	—	e 13 57?	-104	e 16·0	18·2
Ekaterinburg		54·3	324	—	—	e 21 11	?SR ₁	28·4	33·8
Baku		61·7	305	—	—	—	—	e 33·4	—
Tiflis	E.	65·2	308	—	—	—	—	e 37·0	—
Kucino		66·9	323	—	—	—	—	e 36·0	—
Makeyevka		68·5	315	—	—	—	—	e 40·0	—
Pulkovo		69·9	328	—	—	—	—	41·0	—
De Bilt		85·8	327	—	—	—	—	e 47·0	55·8
Strasbourg		86·6	324	e 15 57?	?	—	—	e 53·0	—
Uccle		87·0	326	—	—	—	—	e 47·0	—
Rocca di Papa		87·3	316	—	—	e 29 45	?SR ₁	—	55·2
Kew		88·8	329	—	—	—	—	e 49·0	—
Paris		89·2	325	e 17 57?	?	—	—	51·0	—
Ottawa	N.	107·5	14	—	—	—	—	e 66·0	—

Additional readings: Tiflis eLN = +35·2m. De Bilt MN = +48·6m., MZ = +55·7m.

Oct. 9d. Readings also at 0h. (Ekaterinburg, near La Paz, and Sucre), 1h. (Tashkent), 2h. (Ekaterinburg, Taihoku, and Tashkent), 3h. (La Paz, Balboa Heights, Taihoku (2), Ekaterinburg, De Bilt, Uccle, and near Vienna), 4h. (Baku, De Bilt, Ekaterinburg, Kucino, Makeyevka, Pulkovo, and Tashkent), 5h. (Taihoku), 6h. (Ekaterinburg, Makeyevka, and Tashkent), 10h. (near Vienna), 12h. (Apia, Irkutsk, and near Sumoto), 14h. (near Tacubays), 16h. (Ekaterinburg and Taihoku), 18h. (Ekaterinburg, Manila, and Tiflis), 19h. (Tashkent and Tiflis), 20h. (Tiflis), 22h. (Tashkent and Ekaterinburg), 23h. (Taihoku, Tiflis, and near Vienna).

Oct. 10d. 17h. 49m. 29s. Epicentre 25°·0N. 123°·0E. (as on 9d.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	E.	1·3	274	e 0 26	+ 6	—	—	—	—
Zi-ka-wei		6·3	348	e 1 55	+19	e 2 45	- 7	—	4·8
Hong Kong		8·5	252	—	—	—	—	—	7·5
Manila		10·6	191	—	—	—	—	e 5·5	—
Phu-Lien	N.	15·7	258	3 31?	-17	—	—	—	—
Irkutsk		30·7	338	—	—	e 11 31?	-15	17·5	20·6
Tashkent		47·0	305	—	—	e 15 19	- 2	e 24·5	32·1
Ekaterinburg		54·3	324	e 9 24	-11	e 21 29	?SR ₁	27·0	34·4
Baku		61·7	305	—	—	—	—	e 34·5	—
Makeyevka		68·5	315	—	—	—	—	e 40·5	—
Pulkovo		69·9	328	—	—	—	—	e 38·5	45·5
Copenhagen		80·2	328	—	—	—	—	43·5	—
Feldberg		85·2	325	—	—	—	—	e 45·0	49·7
De Bilt		85·8	327	—	—	—	—	e 46·5	56·2
Strasbourg		86·6	324	—	—	—	—	e 52·5	—
Uccle		87·0	326	—	—	—	—	e 46·5	—
Edinburgh		87·2	333	—	—	—	—	—	56·5
Kew		88·8	329	—	—	—	—	e 50·5	—
Oxford		89·1	330	—	—	—	—	—	50·5
Paris		89·2	325	—	—	—	—	e 51·5	—

Additional readings and note: Hong Kong reading is given for 16h. Irkutsk MZ = +20·2m. Tashkent e = +18m.19s., MN = +23·0m., MZ = +31·4m. Ekaterinburg MN = +30·5m., MZ = +34·5m. Pulkovo MZ = +44·5m. De Bilt MN = +48·9m. Strasbourg eL = +55·5m.

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Oct. 10d. 23h. 17m. 55s. Epicentre 29°2S. 177°0W. (as on 1925 Feb. 13d.).

A = -0.872, B = -0.046, C = -0.488; D = -0.052, E = +0.999;
G = +0.487, H = +0.026, K = -0.873.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	E.	11.8	338	2 47	- 9	e 5 17	+ 3	—	11.4
	N.	11.8	338	e 2 59	+ 3	e 5 11	- 3	—	8.9
Wellington	E.	13.8	206	—	—	—	—	17.1	13.0
	N.	13.8	206	—	—	—	—	17.2	9.7
Apia		16.1	18	—	—	e 6 22	-35	e 8.6	10.4
Riverview		27.5	251	e 6 59	+56	e 10 59	+ 9	e 14.3	17.4
Toronto	E.	114.8	52	—	—	—	—	e 73.2	—
Ottawa		117.8	51	—	—	—	—	e 58.1	—
Tashkent		125.9	301	e 9 57	?	e 30 59	?	e 57.1	71.4
Ekaterinburg		131.6	322	e 19 15	[- 7]	e 22 41	?	e 64.1	75.8
Kucino		143.7	326	—	—	—	—	e 77.1	—
Pulkovo		144.3	337	e 19 30	[-17]	—	—	75.1	—
Makeyevka		147.2	315	e 19 45	[- 6]	—	—	82.1	110.6
Copenhagen		152.7	348	—	—	—	—	84.1	—
Edinburgh		152.9	8	—	—	—	—	e 90.1	—
De Bilt		157.1	357	e 20 57	[0]	—	—	e 89.1	92.1
Oxford		157.2	7	—	—	—	—	—	90.1
Kew		157.6	6	—	—	—	—	e 84.1	—
Uccle		158.4	358	—	—	—	—	e 86.1	—
Strasbourg		160.3	351	—	—	—	—	e 88.1	—
Paris		160.4	1	—	—	—	—	e 90.1	—
San Fernando	E.	169.4	44	—	—	—	—	98.6	—
Granada		170.3	33	—	—	—	—	100.6	109.1

Additional readings: Riverview P is given simply as e, MN = +14.8m. Tashkent and Ekaterinburg give their readings as e simply, for the latter MZ = +74.7m. De Bilt MNZ = +93.6m. San Fernando MN = +93.6m.

Oct. 10d. Readings also at 0h. (Ekaterinburg and near Vienna), 1h. and 2h. (near Vienna), 3h. (Tacubaya, Tashkent, and near Vienna), 4h. (Taihoku (2) and Tashkent), 5h. (Taihoku and near Sumoto), 6h. (Ekaterinburg), 10h. and 11h. (Taihoku), 13h. (Ekaterinburg and Tashkent), 14h. (Ekaterinburg), 20h. (Stonyhurst), 22h. (Vienna).

Oct. 11d. 1h. 12m. 54s. Epicentre 38°3N. 141°0E. (as on 1923 Jan. 27d.).

A = -0.610, B = +0.494, C = +0.620; D = +0.629, E = +0.777;
G = -0.482, H = +0.390, K = -0.785.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	*M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa		0.8	6	0 44	+32	1 15	+53	—	—
Nagoya		4.5	228	i 1 13	+ 3	(2 0)	- 4	2.0	2.3
Toyooka		5.6	243	1 26	- 1	(2 29)	- 5	2.8	2.9
Osaka		5.8	233	1 28	- 2	(2 34)	- 5	2.6	3.4
Kobe		5.9	234	1 30	- 1	(2 38)	- 3	2.6	4.2
Sumoto		6.3	233	1 27	- 9	(2 46)	- 6	2.8	2.8
Irkutsk		28.9	311	e 6 12	- 5	e 11 6	- 9	18.1	—
Tashkent		53.6	299	i 9 27	- 3	i 17 7	+ 3	e 28.1	33.6
Ekaterinburg		53.8	320	i 9 36	+ 4	—	—	30.1	35.2
Kucino		65.7	324	—	—	—	—	e 32.4	—
Suva	N.	66.4	142	—	—	—	—	e 45.7	—
Pulkovo		66.7	330	i 11 2	+ 6	—	—	39.1	43.5
Baku		67.1	306	—	—	—	—	36.1	42.9
Makeyevka		70.0	318	—	—	e 32 6?	?	42.1	45.9
Copenhagen		76.3	334	—	—	—	—	38.1	—
Vienna	Z.	80.5	327	12 23	+ 1	—	—	—	—
De Bilt		81.8	334	e 12 29	0	—	—	e 42.1	—
Uccle		83.1	334	—	—	—	—	e 43.1	—
Oxford		83.4	339	—	—	—	—	—	55.1
Kew		84.1	339	—	—	—	—	e 42.1	—

Additional readings: Mizusawa PN = +45s. Nagoya P = +1m.21s., S = +1m.39s. Osaka MN = +3.5m. Kobe P = +1m.54s., S = +2m.8s., MN = +4.1m. Irkutsk e = +14m.8s. Tashkent MN = +33.7m. Baku MN = +43.4m., MZ = +43.5m. Makeyevka MZ = +45.6m. De Bilt eLN = +44.1m.

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Oct. 11d. 3h. 5m. 45s. Epicentre 25°·0N. 123°·0E. (as on Oct. 10d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku E.	1·3	274	e 0 26	+ 6	—	—	—	—
Hong Kong	8·5	252	—	—	—	—	—	6·5
Manila	10·6	191	e 1 48	-50	—	—	—	5·9
Osaka	14·5	45	4 15	+42	—	—	8·7	—
Irkutsk	30·7	338	e 10 1	?S	(e 10 7)	-99	e 16·2	—
Tashkent	47·0	305	—	—	e 16 3	+22	e 21·2	25·0
Kucino	66·9	323	—	—	—	—	e 33·5	—
Makeyevka	68·5	315	—	—	—	—	38·0	—
Pulkovo	69·9	328	e 8 2	?	—	—	39·2	42·2
Copenhagen	80·2	328	—	—	—	—	40·2	—
De Bilt	85·8	327	—	—	—	—	e 43·2	—
Strasbourg	86·6	324	—	—	—	—	e 46·2	—
Uccle	87·0	326	—	—	—	—	e 43·2	—
Edinburgh	87·2	333	—	—	—	—	e 52·3	—
Kew	88·8	329	—	—	—	—	e 46·2	—
Oxford	89·1	330	—	—	—	—	—	54·2
Paris	89·2	325	—	—	—	—	e 50·2	—

Additional readings: Irkutsk e = +12m.0s. Tashkent MN = +24·5m.

Oct. 11d. 4h. 23m. 58s. Epicentre 25°·0N. 123°·0E. (as at 3h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku E.	1·3	274	e 0 26	+ 6	—	—	—	—
Hong Kong	8·5	252	—	—	—	—	—	6·5
Zi-ka-wei	6·3	348	e 1 35	- 1	—	—	—	4·9
Manila	10·6	191	—	—	—	—	e 6·5	9·0
Hukuoka	10·7	35	—	—	—	—	e 6·0	—
Osaka	14·5	45	4 36	+63	—	—	7·7	12·9
Phu-Lien	15·7	258	—	—	—	—	—	9·0
Irkutsk	30·7	338	(e 6 50)	+15	(10 56)	+10	(15·0)	(16·4)
Tashkent	47·0	305	e 8 31	-16	—	—	24·7	27·9
Kucino	66·9	323	—	—	—	—	35·8	—
Makeyevka	68·5	315	—	—	e 26 32	?	38·8	44·9
Pulkovo	69·9	328	e 15 30	?PR ₂	—	—	38·0	44·6
Copenhagen	80·2	328	—	—	—	—	41·0	—
Hamburg	82·5	327	—	—	—	—	e 45·0	—
De Bilt	85·8	327	—	—	—	—	e 44·0	56·1
Strasbourg	86·6	324	—	—	—	—	e 50·0	—
Uccle	87·0	326	—	—	—	—	e 45·0	—
Edinburgh	87·2	333	—	—	—	—	e 53·0	—
Kew	88·8	329	—	—	—	—	e 50·0	—
Oxford	89·1	330	—	—	—	—	—	53·0
Paris	89·2	325	—	—	—	—	e 50·0	56·0
Ottawa	107·5	14	—	—	—	—	e 67·0	—

Additional readings and note: Irkutsk readings have been diminished by 2m. MZ = (+18·2m.). Makeyevka MZ = +44·7m. Pulkovo MZ = +44·6m. De Bilt MN = +48·9m., MZ = +56·4m.

Oct. 11d. 14h. 45m. 3s. Epicentre 42°·0N. 13°·5E. (as on 1922 Dec. 29d. and near the position given by De Bilt, viz., 41°56'N, 13°27'E').

A = +·722, B = +·173, C = +·669 ; D = +·233, E = -·972 ;
G = +·651, H = +·156, K = -·743.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Rocca di Papa	0·6	247	10 9	0	10 17	0	—	0·3
Naples E.	1·3	154	e 0 23	+ 3	e 0 39	+ 3	—	—
Florence	2·4	317	0 42	+ 5	1 27	+21	—	1·5
Venice	3·5	350	1 1 5	+10	2 9	+32	2·6	—
Mostar	3·5	67	—	—	—	—	e 2·6	4·1
Zagreb	4·2	24	1 1 5	0	1 2 26	+31	—	3·2

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Moncalieri		5.2	308	1 18	- 2	2 34	+12	3.1	—
Graz		5.3	14	i 1 19	- 3	e 2 27	+ 2	3.0	3.4
Belgrade	E.	5.8	58	—	—	e 2 15	-24	—	—
Zurich		6.4	329	e 1 38	0	e 2 51	- 4	—	—
Ravensburg		6.4	336	i 54	+16	e 2 14	-41	3.2	4.7
Vienna		6.5	17	1 37	- 2	2 58	+ 1	—	4.4
Budapest		6.7	34	e 2 16	+34	e 3 47	+45	5.0	—
Strasbourg		7.7	331	1 55	- 2	—	—	—	5.1
Cheb		8.1	355	—	—	—	—	e 4.0	5.0
Prague		8.1	4	e 3 37	IS	(e 3 37)	- 3	(e 4.5)	5.0
Feldberg		8.9	338	8.9	—	e 4 20	+19	e 4.9	6.4
Jena		8.9	352	e 2 11	- 4	—	—	i 4.4	5.4
Tortosa	N.	9.8	267	—	—	—	—	5.3	7.8
Paris		10.2	315	e 2 39	+ 6	e 6 5	+90	e 6.2	7.0
Uccle		10.8	328	e 4 18	IS	(e 4 18)	-32	e 6.2	7.8
De Bilt		11.5	334	—	—	—	—	e 6.0	7.0
Hamburg	Z.	11.8	350	—	—	—	—	e 5.9	7.8
Kew		13.3	320	—	—	—	—	e 7.0	—
Copenhagen		13.7	357	—	—	—	—	e 7.4	9.4
Oxford		14.0	319	—	—	—	—	e 7.2	9.8
Granada		14.0	255	—	—	—	—	7.2	10.0
San Fernando	E.	16.2	256	—	—	—	—	—	10.0
Upsala		18.0	7	—	—	—	—	e 10.0	—
Pulkovo		20.5	24	4 38	- 9	e 8 28	- 6	12.0	13.7
Kucino		21.0	41	—	—	—	—	e 10.4	14.0
Ekaterinburg		33.2	47	6 35	-23	e 13 31	+64	17.4	21.4
Tashkent		40.9	72	—	—	e 17 21	IS ₁	e 19.0	26.6

Additional readings and notes: Rocca di Papa MZ = +0.4m., MN = +0.5m.
 Venice eS = +2m.16s. and +2m.27s. Mostar e = +3m.16s. and +3m.49s.
 Zagreb iP = +1m.21s., ePNW = +1m.43s., iPS = +1m.25s., iPR₁ = +1m.28s. and +1m.33s., iPS = +1m.47s. and +1m.59s., iPS = +1m.48s., iPS₂ = +2m.4s., iSR₁ = +2m.31s. and +2m.36s., MNW = +2.8m.
 Moncalieri S = +2m.40s. Graz MN = +3.8m. Belgrade iE = +2m.37s., +4m.5s., +4m.33s., +4m.48s., +5m.28s., and +6m.4s. Ravensburg i = +2m.44s. = S - 11s., MN = +4.1m. Vienna iNZ = +2m.24s., PS₂ = +3m.29s. Strasbourg i = +2m.50s. and +3m.49s., SR₂? = +4m.40s.
 Prague gives S as P and L as S. Feldberg e = +5m.53s. Jena iE = +2m.36s., eN = +2m.57s., eEZ = +3m.27s., iE = +3m.7s. Paris eP = +2m.58s. De Bilt MN = +7.5m., MZ = +8.2m. Hamburg ME = +8.6m. Copenhagen MN = +10.0m. San Fernando MN = +9.4m. Pulkovo MN = +13.8m. Kucino MN = +13.9m.

Oct. 11d. 15h. 29m. 8s. Epicentre 44°5N. 20°6E. (as on 1926 May 19d.).

A = +.668, B = +.251, C = +.701; D = +.352, E = -.936;
 G = +.656, H = +.247, K = -.713.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Belgrade	E.	0.3	343	i 0 2	- 3	i 0 9	+ 1	—	0.2
	N.	0.3	343	i 0 1	- 4	i 0 10	+ 2	—	0.2
Mostar		2.3	238	—	—	—	—	e 2.7	—
Budapest		3.2	340	e 0 41	- 9	—	—	e 3.9	—
Zagreb	N.E.	3.5	293	i 1 2	+ 7	i 1 58	+21	—	2.1
	N.W.	3.5	293	i 0 57	+ 2	i 1 57	+20	—	2.0
Vienna		4.7	323	0 16	-57	2 52	?	—	—
Rocca di Papa		6.4	247	e 2 58	IS	(e 2 58)	+ 3	e 6.8	—
Strasbourg		9.7	300	—	—	—	—	e 5.6	—
De Bilt		12.7	312	—	—	—	—	e 7.5	—
Ekaterinburg		27.7	49	—	—	(10 52?)	- 2	10.9	—

Additional readings: Belgrade iEN = +4s. Zagreb iNE = +1m.10s. and +1m.20s., iNW = +1m.26s., +1m.38s., and +1m.54s., eNE = +1m.45s., and +1m.50s. Vienna iPR₁ = +1m.23s., PS = +2m.14s.

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Oct. 11d. 17h. 30m. 23s. Epicentre 44°·0N. 141°·5E. (as on 1924 May 22d.).

A = -563, B = +448, C = +695; D = +622, E = +783;
G = -544, H = +432, K = -719.

	Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
			m.	s.	s.	s.		s.	m.		
Ootomari	2·8	17	1	8	?S		(1 8)	- 9		1·9	2·8
Mizusawa	4·9	184	1	12	- 4		2 0	-14			
Nagoya	9·5	204	i 2	20	- 3		(4 13)	- 3		4·2	4·3
Toyoooka	9·9	213	2	32	+ 3		4 24	- 2	e 4·9		
Osaka	10·4	209	2	41	+ 5		(4 51)	+11		4·8	5·9
Kobe	10·5	213	2	38	+ 1		3 52	-51		5·4	7·2
Sumoto	10·9	210	2	40	- 3		(e 4 36)	-16	e 4·6	5·7	
Irkutsk	25·8	302	i 5	52	+ 6		i 10 30	+12		13·6	14·9
Hong Kong	31·2	236									18·1
Manila	34·2	219	e 6	37	-30						
Phu-Lien N.	37·1	243		11 37?	?						
Ekaterinburg	49·9	317	i 9	9	+ 3		i 16 25	+ 7		23·6	29·0
Tashkent	51·4	295	i 9	13	- 3		i 16 38	+ 2	e 26·9	32·6	
Batavia	59·2	223	e 10	49	+43		e 19 2	+49			
Kucino	61·3	323	e 14	13	?PR ₂					34·1	
Pulkovo	62·0	330	10	30	+ 5		19 0	+12		32·6	41·1
Baku	64·2	305					e 19 31	+16	i 35·5		
Makeyevka	66·1	317	10	55	+ 3		19 50	+12	30·4	43·9	
Upsala E.	66·5	335					e 19 50	+ 6			
Tiflis	66·5	309	e 11	3	+ 8		e 19 59	+15	e 37·6	42·5	
Copenhagen	71·4	334	e 11	30	+ 4		20 49	+ 6		34·6	
Hamburg	74·0	333	e 11	45	+ 3		e 21 20	+ 6	e 37·6		
Vienna Z.	76·0	327	i 11	57	+ 2						
De Bilt	76·8	335	12	0	0		21 53	+ 6	e 39·6		
Zagreb	78·1	326	e 12	9	+ 1		e 22 3	+ 2			
Uccle	78·1	335					e 22 3	+ 2	e 38·6		
Kew	79·0	339					e 21 37?	-35			
Strasbourg	79·0	331	12	12	- 1		e 22 17	+ 5	e 34·6		
Paris	80·5	335	i 12	20	- 2		i 22 31	+ 2	46·6		
Florence	81·6	327	e 12	31	+ 3						
Rocca di Papa	82·8	325	e 12	30	- 5		22 44	-11			
Ottawa	84·8	26					e 22 37?	[-18]	e 41·6		
Granada	92·9	334	(e 13 37)	+ 5			(i 23 37)	[- 8]			(76·1)
San Fernando E.	94·4	336									77·1

Additional readings: Mizusawa SN = +1m.58s. Nagoya S? = +3m.7s.,
MN = +4·7m. Osaka MN = +6·1m. Sumoto eS = +3m.37s.
Ekaterinburg i = +9m.33s., +9m.46s., +17m.7s., and +18m.46s., iPR₁ =
+10m.0s., eSR₁ = +21m.16s. = SR₂ = 13s., MZ = +25·2m. Tashkent
eSR₁ = +20m.41s., MN = +33·9m., MZ = +48·4m. Baku eL = +24·6m.
Makeyevka e = +20m.35s. = [S] -7s., MZ = +43·8m. Tiflis e = +13m.31s.
= PR₁ -26s., eSR₁ = +25m.3s., eE = +29m.13s., eLN = +36·6m., MN =
+48·4m. Copenhagen SR₁ = +25m.37s.? SR₂ = +29m.37s.? De Bilt
eLN = +38·6m. Paris PR₁ = +15m.30s. Rocca di Papa e = +10m.25s.
Granada i = (+20m.1s.) = PR₂ +7s.; readings have all been increased by 3m.
San Fernando MN = +76·1m.

Oct. 11d. Readings also at 0h. (near Tiflis), 1h. (Toyoooka), 3h. (Taihoku), 6h. (near Kobe and Sumoto), 9h. (Wellington, Sucre, near Nagasaki, and Hukuoka), 11h. (Ekaterinburg and near Toyoooka), 12h. (near Mizusawa), 13h. (Taihoku), 14h. (Florence and Rocca di Papa), 15h. (Taihoku), 17h. (Melbourne, Riverview, Wellington, and near Nagoya), 18h. (Moncalleri), 20h. (Apia), 22h. (Baku, Ksara, Tashkent, and Tiflis), 23h. (Ekaterinburg and Manila).

Oct. 12d. 6h. 28m. 2s. Epicentre 25°·0N. 123°·0E. (as on Oct. 11d.).

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

	Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
			m.	s.	s.	s.		s.	m.		
Taihoku N.	1·3	274	e 0	26	+ 6						
Zi-ka-wei	6·3	348	e 1	22	-14		e 2 52	0			5·0
Hong Kong	8·5	252									8·0
Manila	10·6	191	e 3	18	+40						8·6
Hukuoka	10·7	35					(4 27)	-21		4·4	7·0
Phu-Lien	15·7	258					4 58?	-110		8·9	

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	30.7	373	e 6 8	-27	e 10 29	-77	16.0	18.1
Bombay	46.8	273	—	—	—	—	e 24.0	—
Ekaterinburg	54.3	324	i 9 19	-16	e 17 10	-3	25.0	34.3
Baku	61.7	305	—	—	—	—	33.0	—
Tiflis	65.2	308	—	—	—	—	e 35.5	47.8
Kucino N.	66.9	323	e 11 52	+55	—	—	—	—
Makeyevka	68.5	315	e 9 48	?	—	—	34.8	44.9
Pulkovo	69.9	328	e 10 43	-33	e 20 47	+22	37.0	45.5
Upsala	75.9	330	—	—	—	—	e 42.0	48.2
Copenhagen	80.2	328	—	—	e 20 58?	?	41.0	52.0
Hamburg	82.5	327	—	—	—	—	e 42.0	46.0
Dyce	85.9	327	—	—	—	—	—	53.0
De Bilt	85.8	334	—	—	—	—	e 45.0	50.2
Strasbourg	86.6	324	e 12 36	-16	—	—	e 47.0	55.6
Uccle	87.0	326	—	—	e 24 48	?PS	e 43.0	49.0
Edinburgh	87.2	333	—	—	—	—	e 50.0	56.0
Rocca di Papa	87.3	316	e 14 16	+75	—	—	e 49.6	—
Stonyhurst	88.2	331	—	—	—	—	e 45.0	50.0
Moncalieri	88.6	320	—	—	—	—	49.1	—
Kew	88.8	329	—	—	—	—	e 46.0	—
Oxford	89.1	330	—	—	—	—	e 47.2	53.2
Paris	89.2	325	—	—	—	—	e 45.0	53.0
Toledo	98.5	322	—	—	—	—	e 51.4	56.1
Rio Tinto N.W.	101.4	321	29 58?	?	—	—	—	58.0
Ottawa	107.5	14	—	—	—	—	e 55.0	—

Additional readings: Manila MN = +8.4m. Irkutsk e = +7m.26s., eSR₁ = +11m.11s., MNZ = +20.2m. Ekaterinburg e = +12m.21s., MN = +30.2m., MZ = +34.4m. Tiflis eLE = +39.0m. Makeyevka P is given as e only, MN = +40.1m., MZ = +48.1m. Pulkovo P and S are given as e only, MN = +43.0m., MZ = +44.5m. Copenhagen eN = +30m.58s., MN = +44.7m. Hamburg MZ = +53.0m. De Bilt eLN = +43.0m., MN = +48.8m., MZ = +56.3m. Moncalieri e = +34m.58s.

Oct. 12d. 6h. 29m. 25s. Epicentre 44°5N. 34°5E. (as on 1927 Sept. 24d.).

A = +.588, B = +.404, C = +.701; D = +.566, E = -.824;
G = +.578, H = +.397, K = -.713.

Baku attributes its record to the Crimea.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tiflis	8.0	107	—	—	—	—	e 4.9	—
Ksara	10.7	174	4 51	?S	(4 51)	+ 3	9.1	—
Baku	12.1	104	e 3 0	0	e 5 21	0	6.6	8.4
Granada	29.4	269	—	—	—	—	8.6	12.1
Nagasaki	71.2	62	—	—	—	—	e 31.2	—

Additional readings: Tiflis eE = +6m.18s., eN = +6m.19s. Ksara S = +7m.26s. Baku MN = +10.6m., MZ = +11.5m.

Oct. 12d. 7h. 20m. 15s. Epicentre 44°0N. 21°0E. (as on 1927 Sept. 17d.).

A = +.672, B = +.258, C = +.695; D = +.358, E = -.934;
G = +.649, H = +.249, K = -.719.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Belgrade	0.9	334	e 0 12	-2	10 26	+ 1	—	0.4
Mostar	2.4	254	—	—	—	—	e 2.6	—
Budapest	3.7	341	e 0 58	0	(1 50)	+ 8	1.8	2.2
Zagreb	4.0	298	e 0 59	-3	11 56	+ 6	—	3.0
Vienna	5.3	325	1 13	-9	12 22	-3	—	—
Venice	6.3	286	3 45?	?L	—	—	(3.8)	—
Rocca di Papa E.	6.4	252	12 56	?S	(12 56)	+ 1	(13.6)	3.8
N.	6.4	252	13 3	?S	(13 3)	+ 8	(13.4)	—
Moncalieri	9.5	281	—	—	e 4 6	-10	—	—
Strasbourg	10.2	301	—	—	e 3 45?	-50	—	—

Additional readings and note: Belgrade iPN = +13s., iE = +14s., +15s., +18s., and +22s. iN = +15s., +18s., and +21s. iSE = +29s. Zagreb iP = +1m.5s., MNW = +2.0m. Vienna iN = +2m.29s., +2m.53s., +4m.11s., and +5m.13s., iZ = +3m.10s. Rocca di Papa gives S as P and L as S.

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Oct. 12d. 7h. 55m. 47s. Epicentre 24°·0N. 123°·0E. (as at 6h.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	E.	1·3	274	e 0 26	+ 6	—	—	—	—
Zi-ka-wei		6·3	348	e 1 45	+ 9	—	—	—	—
Hong Kong		8·5	252	—	—	—	—	—	6·7
Nagasaki		9·8	36	—	—	(e 4 22)	- 1	e 4·4	—
Manila		10·6	191	e 3 9	+31	—	—	—	10·0
Hukuoka		10·7	35	0 25	?	—	—	—	—
Phu-Lien		15·7	258	—	—	—	—	5·2	—
Irkutsk		30·7	338	—	—	e 12 21	+35	17·2	20·7
Ekaterinburg		54·3	324	9 43	+ 8	—	—	26·7	34·6
Baku		61·7	305	—	—	—	—	e 33·2	—
Tifis		65·2	308	e 11 31	+45	e 22 44	?	e 33·2	44·5
Kucino		66·9	323	—	—	—	—	34·5	—
Makeyevka		68·5	315	—	—	—	—	e 34·4	45·2
Pulkovo		69·9	328	e 11 57	+41	—	—	40·2	45·0
Upsala	E.	75·9	330	—	—	—	—	e 48·2	—
Copenhagen		80·2	328	—	—	—	—	42·2	—
De Bilt		85·8	327	—	—	—	—	46·2	50·6
Strasbourg		86·6	324	—	—	—	—	e 48·2	—
Uccle		87·0	326	—	—	—	—	e 46·2	—
Kew		88·8	329	—	—	—	—	e 48·2	—
Oxford		89·1	330	—	—	—	—	—	53·2
Paris		89·2	325	—	—	—	—	e 54·2	57·2
San Fernando	E.	102·0	320	—	—	—	—	—	60·2
Ottawa	N.	107·5	14	—	—	—	—	e 59·2	—

Additional readings and note: Irkutsk e=7h.51m.13s., MZ = +20·6m. Ekaterinburg MN = +30·8m., MZ = +34·8m. Tifis eLN = +35·2m., MN = +39·1m. Pulkovo MZ = +44·9m. De Bilt MN = +49·2m., MZ = +55·6m. San Fernando MN = +59·2m. The only readings given with definite phase are the P's for Hukuoka and Ekaterinburg.

Oct. 12d. Readings also at 0h. (Taihoku), 1h. (Kucino, Makeyevka, Pulkovo, and Tifis), 2h. (Taihoku), 3h. (Tifis), 4h. (Ekaterinburg), 6h. (La Paz and Sucre), 7h. (Taihoku, Makeyevka, La Paz, and Sucre), 9h. (Tifis), 10h. (Baku, Feldberg, Manila, Ekaterinburg, and Makeyevka), 11h. (Feldberg and La Paz), 12h. (Ekaterinburg and Feldberg), 14h. (La Paz, Tashkent, and Tifis), 18h. (Tashkent), 20h. (Tifis), 23h. (Taihoku).

Oct. 13d. 4h. 28m. 15s. Epicentre 47°·5N. 15°·8E. (as on 1926 July 6d.).

A = +·650, B = +·184, C = +·737; D = +·272, E = -·962;
G = +·709, H = +·201, K = -·676.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Graz		0·5	209	10 7	- 1	—	—	—	0·2
Vienna		0·8	26	10 12	0	0 22	0	—	0·5
Zagreb		1·7	176	e 0 35	+ 9	—	—	—	—
Innsbruck	n.w.	3·0	268	1 30	?S	(1 30)	+ 7	—	—
Strasbourg		5·5	285	—	—	e 2 31	0	—	—
Tifis		21·3	95	—	—	—	—	e 17·8	—
Baku		25·3	94	—	—	—	—	e 20·8	—
Ekaterinburg		28·5	54	6 43	+30	17 18	?	—	—
Tashkent		37·9	79	13 0	?	—	—	e 26·8	44·5

Additional readings: Vienna iPR₁ = +16s., PS = +26s.; epicentre 47°·7N. 15°·7E. Zagreb eNW = +37s., i = +46s., +49s., +57s., +58s., +1m.3s., and +1m.9s., ? = +1m.11s., iNW = +1m.15s. Ekaterinburg e = +24m.42s. and +29m.3s., L = +38·8m. Tashkent i = +6m.19s., +16m.27s., +16m.47s., and +18m.1s., e = +22m.45s.?

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Oct. 13d. 5h. 46m. 0s. Epicentre 34°-0S. 57°-0E. (as on 1927 Oct. 9d.).

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.
Tashkent	76.1	10	1 11 55	- 1	1 21 21	-17	e 37.0	44.9
Tiflis	76.5	351	—	—	e 21 57	+14	e 42.3	—
Ekaterinburg	90.9	3	e 13 22	+ 1	e 24 18	- 5	37.0	—
Uccle	96.6	330	—	—	—	—	—	54.0
Kew	99.1	328	—	—	—	—	e 60.0	—

No additional readings.

Oct. 13d. Readings also at 1h. (Taihoku), 4h. (Adelaide, Riverview, Melbourne, Wellington, and La Paz), 5h. (Kodalkanal, Kucino, Strasbourg, and Uccle), 6h. (Strasbourg, near Neuchatel, and Zurich), 7h. (Baku, Ekaterinburg, Kucino, Pulkovo, and Tashkent), 8h. (Copenhagen and Tashkent), 10h. (Baku, Kucino, Ekaterinburg (2), Tashkent, De Bilt, Paris, Strasbourg, Kew, Oxford, and Edinburgh), 11h. (Stonyhurst), 14h. (Potsdam and Tiflis), 16h. (Christchurch), 17h. (Tiflis), 19h. (Vienna), 20h. (La Paz), 22h. (Ekaterinburg).

Oct. 14d. Readings at 3h. (Tashkent and near Toyooka), 9h. (near Amboina), 10h. (Copenhagen), 12h. (Ekaterinburg, Tashkent, and near Manila), 16h. (Ekaterinburg, Irkutsk, and Tashkent), 17h. (Tashkent and near Nagasaki), 18h. (Ekaterinburg and Irkutsk), 21h. (Pulkovo and Tashkent).

Oct. 15d. 6h. 25m. 27s. Epicentre 24°-0N. 124°-0E. (as on 1927 June 6d.).

A = -.511, B = +.757, C = +.407; D = +.829, E = +.559;
G = -.228, H = +.337, K = -.914.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	2.5	294	—	—	e 1 9	0	1.7	2.4
Zi-ka-wei	7.5	343	e 0 3	-111	—	—	—	—
Hong Kong	9.2	262	—	—	—	—	—	13.1
Manila	9.8	197	—	—	—	—	e 5.6	—
Hukuoka	11.1	29	e 2 44	- 2	—	—	—	—
Osaka	14.6	40	6 55	13	(6 55)	+33	13.5	—
Phu-Lien	16.4	262	3 33?	-24	—	—	—	—
Irkutsk	32.0	337	e 6 35	-12	e 11 46	-22	17.6	20.7
Tashkent	48.3	305	8 49	- 7	—	—	e 23.6	32.7
Ekaterinburg	55.6	324	1 9 51	+ 8	e 17 30	+ 1	29.0	34.9
Baku	63.0	307	—	—	—	—	e 36.0	—
Tiflis	66.5	309	—	—	e 21 29	[+44]	e 34.8	—
Pulkovo	71.2	326	—	—	e 21 33	[+13]	41.6	45.0
Copenhagen	81.6	329	—	—	—	—	41.6	—
Feldberg	86.5	325	—	—	—	—	e 46.0	50.2
De Bilt	87.2	327	—	—	—	—	e 46.6	56.6
Strasbourg	87.9	325	—	—	—	—	e 47.6	—
Uccle	88.3	327	—	—	—	—	e 46.6	—
Kew	90.1	329	—	—	—	—	e 50.6	—
Oxford	90.4	330	—	—	—	—	—	58.6

Additional readings: Tashkent e = +20m.27s. and +27m.15s., i = +27m.23s.
MN = +31.8m., MZ = +32.1m. Ekaterinburg e = +22m.0s. = SR₁ + 10s.,
MN = +30.9m. De Bilt MN = +49.3m., MZ = +56.8m.

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Oct. 15d. 10h. 59m. 0s. Epicentre 40°7S. 46°8E.

A = +.519, B = +.553, C = -.652; D = +.729, E = -.684;
G = -.446, H = -.475, K = -.758.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Cape Town	23.4	278	5 19	- 2	9 36	+ 3	—	11.6
Kodaikanal	58.3	36	31 54	?L	—	—	(31.9)	—
Baku	81.1	3	e 13 13	+47	e 22 41	+ 5	38.0	47.6
Tiflis	E. 82.4	359	e 12 34	+ 2	22 46	- 4	e 39.7	48.8
	N. 82.4	359	e 12 32	0	e 22 47	- 3	—	47.6
Tashkent	84.5	16	i 12 45	0	i 23 12	- 2	e 38.0	44.9
Almeria	89.7	321	—	—	—	—	e 49.5	51.1
Granada	90.8	321	—	—	—	—	50.5	55.2
San Fernando	E. 91.2	320	—	—	—	—	—	57.5
Río Tinto	92.4	320	56 0?	?L	—	—	(56.0)	66.0
Toledo	92.9	323	—	—	—	—	e 48.3	59.5
Sucre	93.2	241	—	—	—	—	48.8	50.8
Strasbourg	95.7	335	—	—	—	—	e 57.0	—
Feldberg	96.9	336	e 26 30	?PS	e 31 34	?SR ₁	e 49.9	64.3
Paris	97.6	331	e 17 0?	?	—	—	52.0	60.0
Ekaterinburg	98.2	7	e 13.55	- 6	e 24 34	[+20]	41.0	59.2
Uccle	98.7	334	—	—	—	—	e 51.0	—
De Bilt	99.5	335	—	—	—	—	e 51.0	56.5
Copenhagen	100.5	340	—	—	—	—	60.0	—
Kew	100.8	332	—	—	—	—	e 54.0	—
Oxford	101.4	331	—	—	—	—	e 51.0	56.8
Pulkovo	101.4	351	—	—	—	—	e 61.0	—
Edinburgh	105.4	333	—	—	—	—	e 58.0	—
Irkutsk	105.4	32	—	—	—	—	e 54.0	—
Dyce	106.1	335	—	—	—	—	—	68.4
Ottawa	E. 139.1	295	—	—	—	—	e 67.0	—

Additional readings: Baku MZ = +48.8m., MN = +52.1m., Tiflis ePS = +23m.43s., Tashkent 1SR₁ = +28m.39s., eSR₂ = +35m.0s. † = SR₂ - 6s.
Almeria MZ = +54.4m., San Fernando MN = +55.0m., Ekaterinburg e = +26m.53s. = PS - 9s., and +31m.16s.

Oct. 15d. 12h. 43m. 56s. Epicentre 40°7S. 46°8E. (as at 10h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Cape Town	23.4	278	—	—	—	—	—	14.6
Kodaikanal	58.3	36	31 58	?L	—	—	(32.0)	—
Baku	81.1	3	—	—	—	—	41.1	—
Tiflis	E. 82.4	359	e 12 42	+10	e 22 48	- 2	e 39.1	44.6
	N. 82.4	359	e 12 33	+ 1	22 47	- 3	e 40.1	44.9
Tashkent	84.5	16	—	—	—	—	e 38.1	44.9
Granada	90.8	321	—	—	—	—	51.1	54.1
Paris	97.6	331	—	—	—	—	e 55.1	—
Ekaterinburg	98.2	7	—	—	—	—	46.6	—

Tiflis gives also ePR₁N = +15m.55s., PS? = +23m.40s., SR₁ = +28m.26s.: the reading entered as ePE is only given as eE.

Oct. 15d. Readings also at 0h. (La Paz, Sucre, and Suva), 1h. (Ekaterinburg), 3h. (Tiflis), 4h. (Ekaterinburg and near Tacubaya), 5h. (Ekaterinburg and Tashkent), 8h. (Tashkent), 9h. (Ekaterinburg), 11h. (Feldberg and near Tacubaya), 14h. (Entebbe and Sucre), 15h. (Pulkovo and Tiflis), 18h. (Ekaterinburg and Tiflis), 21h. (Tiflis).

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Oct. 16d. 6h. 7m. 10s. Epicentre 36°·5N. 133°·0E. (as on 1926 Nov. 27d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kobe	2·5	136	0 34	- 5	—	—	—	1·2
Osaka	2·7	133	0 44	+ 2	(1 11)	- 3	1·2	1·9
Sumoto	2·7	145	0 41	- 1	(1 17)	+ 3	—	1·3
Nagoya	3·5	112	e 0 34	-21	1 7	-30	—	1·2
Tashkent	48·7	296	—	—	e 15 50?	-12	e 25·8	43·3
Tiflis	N. 65·5	305	—	—	—	—	e 27·0	31·2

Additional readings: Osaka MN = +0·8m. Tashkent gives also e = 6h.5m.30s.

Oct. 16d. 7h. 0m. 48s. Epicentre 46°·0N. 89°·0E. (as on 1926 Aug. 29d.).

A = +·012, B = +·695, C = +·719; D = +1·000, E = -·017;
G = +·013, H = +·718, K = -·695.

Doubtful identification.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	15·0	259	e 3 54	+15	16 25	- 7	—	7·6
Bombay	30·2	211	—	—	—	—	e 16·2	—
Tiflis	E. 31·8	278	—	—	e 12 12?	+ 7	e 14·5	15·2
Pulkovo	36·6	314	—	—	e 13 9	- 9	22·2	23·0
Copenhagen	46·8	311	—	—	—	—	24·2	—
Feldberg	51·3	306	—	—	—	—	e 27·7	—
De Bilt	52·2	310	—	—	—	—	e 28·7	33·5
Uccle	53·3	309	—	—	—	—	28·2	—
Kew	55·4	311	—	—	—	—	e 30·2	—

Additional readings: Tashkent e = +4m.21s., i = +6m.6s., MNZ = +6·9m.
Tiflis eLN = +13·2m. De Bilt MN = +30·0m.

Oct. 16d. 12h. 21m. 0s. Epicentre 41°·5S. 80°·0E. (as on 1927 Sept. 5d.).

A = +·103, B = +·738, C = -·663; D = +·985, E = -·174;
G = -·115, H = -·653, K = -·749.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Perth	30·0	85	—	—	—	—	—	16·8
Tananarive	35·2	300	e 13 3	?S	(e 13 3)	+ 5	—	—
Batavia	42·6	41	e 9 48	?PR ₁	—	—	—	—
Johannesburg	45·1	273	—	—	—	—	21·0	—
Cape Town	48·0	260	16 19	?S	(16 19)	+25	—	24·8
Colombo	48·4	0	5 20	?	16 5	+ 6	21·1	21·6
Melbourne	49·0	109	—	—	1 16 54	+48	e 25·1	27·0
Kodaikanal	51·8	357	24 54	?L	—	—	28·7	33·9
Riverview	55·3	107	e 12 49	?PR ₁	—	—	e 28·3	30·4
Sydney	55·3	107	17 12	?S	(17 12)	-13	29·6	31·3
Hyderabad	59·0	358	19 58	?S	(19 58)	[+10]	—	34·0
Bombay	60·8	353	18 58	?S	(18 58)	+25	—	31·9
Simla	72·7	357	—	—	e 25 36	?PR ₁	e 31·9	—
Tashkent	83·4	352	i 12 59	+21	i 23 15	+14	138·3	46·3
Tiflis	E. 89·1	335	e 13 15	+ 4	e 23 59	- 5	e 37·0	42·3
	N. 89·1	335	e 13 47	+36	e 23 57	- 7	e 40·0	—
Irkutsk	96·1	14	e 17 49	?PR ₁	e 24 41	-36	47·0	57·0
Makeyevka	96·9	333	—	—	—	—	e 27·0	—
Mizusawa	E. 97·9	43	—	—	17 16	?PR ₁	—	—
Ekaterinburg	99·7	350	—	—	e 24 54	[+32]	46·5	55·1
Kudin	103·6	337	—	—	e 33 18	?SR ₁	54·2	—
Moncalieri	107·9	315	—	—	—	—	e 60·0	—
Pulkovo	109·2	336	—	—	—	—	e 59·0	—
Granada	109·5	302	—	—	—	—	e 54·0	56·5

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Strasbourg	110.2	317	21 0?	?PR ₁	—	—	—	—
Feldberg	110.9	320	—	—	—	—	65.5	71.7
Copenhagen	112.7	325	—	—	—	—	59.0	—
Uccle	113.3	318	—	—	e 46 0?	?	e 62.0	—
De Bilt	113.8	319	—	—	—	—	e 62.0	76.5
Kew	116.1	317	—	—	—	—	e 64.0	—
Oxford	E. 116.7	315	—	—	—	—	—	76.0
Ottawa	162.2	291	—	—	—	—	e 76.0	—

Additional readings and note: Riverview MN = +29.5m. Bombay gives S as P and eS = +22m.53s. Simla gives its readings as eN and eE respectively. Tashkent eSR₁ = +25m.54s., MNZ = +45.1m. Irkutsk e = +20m.33s. = PR₁ + 11s., +23m.41s., and +30m.46s. Ekaterinburg MN = +54.5m. Moncalieri L = +66.1m. De Bilt MN = +76.8m., MZ = +77.3m. Oxford MN = +80.0m.

Oct. 16d. 14h. 12m. 0s. Epicentre 43° 7S. 41° 0E.

A = +.546, B = +.474, C = -.691; D = +.656, E = -.755;
G = -.521, H = -.453, K = -.723.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Cape Town	20.0	292	4 40	- 1	8 27	+ 4	—	11.2
Tananarive	25.4	15	i 10 10	?S	(i 10 10)	- 1	—	—
Colombo	61.6	45	—	—	—	—	—	44.5
Kodaikanal	63.4	41	27 36	?L	—	—	(27.6)	—
Melbourne	73.4	127	—	—	i 21 36	[- 1]	—	37.5
Ksara	E. 77.7	356	e 12 5	0	e 21 51	- 6	38.0	—
Sydney	79.8	128	21 6	?S	(21 6)	- 75	39.8	42.5
Tiflis	E. 85.5	2	e 12 57	+ 6	e 23 14	- 11	e 36.0	44.1
	N. 85.5	2	e 12 51	0	e 23 15	- 10	e 40.5	50.2
Tashkent	88.7	20	e 13 18	+ 9	i 23 48	- 12	e 34.0	40.2
Almeria	89.6	326	—	—	—	—	e 48.4	54.5
Granada	90.4	326	—	—	—	—	e 49.0	53.5
San Fernando	90.8	324	—	—	—	—	52.5	55.0
La Paz	91.8	244	e 13 24	- 2	—	—	43.0	49.4
Makeyevka	91.8	358	—	—	—	—	31.0	—
Río Tinto	92.2	325	51 0	?L	—	—	(51.0)	62.0
Toledo	N.W. 92.9	326	—	—	—	—	e 46.0	57.1
Moncalieri	93.4	337	e 19 20	?PR ₁	—	—	42.1	—
Strasbourg	96.8	340	e 15 0?	?PR ₁	—	—	21.0	56.0
Cheb	97.0	343	—	—	e 24 23	[+15]	e 51.0	61.0
Feldberg	98.1	340	—	—	—	—	e 46.1	51.2
Paris	98.4	335	—	—	—	—	e 42.0	—
Uccle	99.7	338	—	—	e 27 0?	?PS	e 44.0	—
De Bilt	100.6	339	—	—	e 27 14	?PS	e 44.0	65.4
Kew	101.6	335	18 0?	[+ 8]	—	—	47.0	—
Ekaterinburg	101.9	10	—	—	e 25 46	- 28	41.5	—
Oxford	102.2	335	—	—	—	—	e 48.0	64.0
Copenhagen	102.3	345	—	—	—	—	—	59.0
Pulkovo	103.8	355	—	—	e 28 36	+125	65.0	66.4
Edinburgh	106.3	337	—	—	—	—	e 58.0	—
Irkutsk	110.3	36	e 19 11	?PR ₁	e 28 9	+38	34.0	36.6
Ottawa	136.0	295	—	—	—	—	e 63.0	—

Additional readings: Tiflis eE? = +35m.23s. Tashkent MN = +46.2m.
MZ = +52.4m. Almeria MZ = +52.9m. Toledo MNE = +55.8m.
Cheb e = +31m.42s. = SR₁ - 18s. Paris L = +55.0m. De Bilt MNZ = +62.8m. Irkutsk MZ = +36.8m.

Oct. 16d. Readings also at 1h. (near Mizusawa), 3h. (Tashkent), 6h. (near Manila), 9h. (near Tacubaya), 10h. (near Mizusawa), 11h. (De Bilt, Uccle, Feldberg, Ekaterinburg, Tiflis, Tashkent, and Irkutsk), 12h. (Tiflis), 16h. (near Liook and near Vera Cruz), 16h. (De Bilt, Uccle, Feldberg, Kew, Paris, Strasbourg, Ekaterinburg, Tashkent, Ottawa, Tucson, and near Tacubaya), 17h. (Strasbourg and Tiflis), 19h. (near Nagoya; Osaka, Kobe, and Sumoto), 20h. (La Paz and Sucre), 21h. (Ekaterinburg, Pompeii, Moncalieri, near Naples, and Zagreb), 21h. (near Nagasaki, and Hukuoka), 22h. (Jena and La Paz and Sucre), 23h. (Tiflis).

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Oct. 17d. Readings at 1h. (near Amboina and near Hukuoka), 2h. (near Toyooka), 4h. (Suva and Tiflis), 6h. (Tashkent, near Nagasaki (2), and Hukuoka (2) and Matuyama (2)), 8h. (Colombo), 10h. (near Sumoto), 14h. (near Rocca di Papa), 16h. (Suva, Wellington, Manila, and near Puebla), 18h. (near Mizusawa and near Mostar), 20h. (La Paz), 22h. (Stonyhurst), 23h. (near Rocca di Papa).

Oct. 18d. 12h. 44m. 42s. Epicentre 32° 2N. 129° 5E.

A = -538, B = +653, C = +533; D = +772, E = +636;
G = -339, H = +411, K = -846.

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m. s.	s.	m. s.	s.	m. s.	s.	m.	m.		
Nagasaki	0.6	31	10	7	-2	10	15	-2	—	—	—	0.3
Hukuoka	1.6	29	0	24	0	0	45	0	—	—	—	0.9
Matuyama E.	3.2	58	e 0	54	+4	—	—	—	—	—	—	1.6
Sumoto	5.0	64	e 2	28	IS	(e 2	28)	+11	—	—	3.5	3.5
Kobe	5.3	61	2	25	IS	(2	25)	0	—	—	3.7	5.2
Osaka	5.6	62	2	29	IS	(2	29)	-5	—	—	3.5	4.1
Nagoya	6.8	62	—	—	—	e 2	55	-10	—	—	—	—
Irkutsk	27.1	325	—	—	—	—	—	—	—	e	13.3	—
Ekaterinburg	52.2	320	(7	48)	-93	—	—	—	—	—	25.8	—
Baku	62.5	302	—	—	—	—	—	—	—	e	33.3	—
Tiflis E.	65.6	305	—	—	—	—	—	—	—	e	38.3	—

Additional readings: Hukuoka P = +25s., MN = +0.8m. Kobe gives S as P and S = +3m.32s., MN = +5.6m. Osaka MN = +4.0m. Ekaterinburg gives its readings as separate L's. Tiflis eN? = +2m.57s., eLN = +36.2m.

Oct. 18d. Readings also at 0h. (near Ksara), 1h. (near Graz and Vienna), 3h. (Vienna), 6h. (Irkutsk, Wellington, near La Paz, and Sucre), 7h. (Wellington), 9h. (Tiflis), 12h. (Irkutsk and Taihoku), 13h. (Taihoku and near Nagasaki), 15h. (near Nagasaki (3) and near Hukuoka (2)), 16h. (near Nagasaki), 17h. (near Tashkent (2)), 18h. (Baku), 19h. (Tashkent), 20h. (near Amboina, near Mizusawa, near Chur, Neuchatel, and Zurich), 22h. (Riverview).

Oct. 19d. 13h. 48m. 38s. Epicentre 34° 0S. 57° 0E. (as on 1927 Oct. 13d.).

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. s.	s.	m.	m.		
Johannesburg	26.1	280	—	—	—	—	—	—	—	—	13.4	—
Cape Town	31.7	262	—	—	—	—	—	—	—	—	—	18.6
Colombo	46.3	32	8	27	-15	15	12	-20	—	—	21.2	24.7
Kodai kanal	48.3	26	15	40	IS	(15	40)	-18	—	—	21.4	22.7
Batavia	53.7	70	110	20	+49	117	51	+46	—	—	—	—
Hyderabad	55.4	25	17	17	IS	(17	17)	-9	—	—	23.4	28.1
Melbourne	68.6	122	—	—	—	e 18	22	?	—	—	—	34.4
Ksara	70.6	341	11	29	-8	20	46	+13	—	—	31.4	—
Phu-Lien	72.3	49	—	—	—	e 20	40	-14	—	—	—	—
Baku	74.7	355	e 11	49	+2	e 21	25	+3	—	—	35.4	39.7
Tiflis E.	76.5	351	e 11	58	0	21	45	+2	e	34.4	43.7	—
Tiflis N.	76.5	351	11	56	-2	21	47	+4	e	36.4	45.6	—
Hong Kong	78.3	53	—	—	—	—	—	—	—	—	—	55.0
Makeyevka	83.8	349	—	—	—	1	22	29	-38	—	36.4	42.5
Wellington E.	85.5	139	—	—	—	—	—	—	—	e	43.0	—
Vienna Z.	89.8	335	13	6	-9	—	—	—	—	—	—	—
Abneria	89.8	318	13	11	-4	—	—	—	—	—	—	54.9
Granada	90.8	317	113	2	-18	—	—	—	—	—	51.9	54.9
Ekaterinburg	90.9	3	113	11	-10	124	7	-16	—	—	35.9	49.3
San Fernando E.	91.8	315	—	—	—	—	—	—	—	—	—	58.9
Toledo N.W.	92.8	319	—	—	—	—	—	—	—	e	47.6	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Strasbourg	93.5	330	—	—	e 26 22?	?PS	e 54.4	—
Feldberg	94.5	331	—	—	—	—	e 31.4	34.4
Irkutsk	95.6	27	—	—	e 24 0	[0]	44.4	63.8
Paris	95.9	329	—	—	—	—	e 57.4	—
De Bilt	97.3	332	—	—	—	—	e 54.4	—
Copenhagen	97.4	338	—	—	—	—	52.4	—
Kew	99.1	328	—	—	—	—	e 53.4	—
Oxford	99.7	328	—	—	—	—	—	66.4
Ottawa	142.5	302	—	—	—	—	e 68.4	—

Additional readings: Colombo, alternative P = +5m.42s. Batavia readings are both given as simple l. Baku PS = +22m.6s., SR₁ = +24m.56s., MZ = +48.2m. Wellington eLN = +42.2m. Ekaterinburg S₁PS = +23m.37s. = [S] + 4s., i = +24m.10s., e = +29m.57s. San Fernando MN = +56.4m. Irkutsk e = +26m.6s. = PS - 9s. Ottawa eL = +76.4m.

Oct. 19d. 14h. 41m. 45s. Epicentre 1° 5S. 76° 0W. (as on 1924 Jan. 26d.).

A = +.242, B = -.970, C = -.026; D = -.970, E = -.242;
G = -.006, H = +.025, K = -1.000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
La Paz	16.9	153	e 3 58	- 6	17 17	+ 1	9.3	11.4
Sucre	20.4	150	1 4 47	+ 1	1 8 35	+ 3	11.2	13.5
Rio de Janeiro N.	38.4	129	—	—	—	—	e 21.7	—
Ottawa	46.9	1	—	—	e 15 15?	-25	e 23.2	—
Kew	82.3	37	—	—	—	—	e 48.2	—
De Bilt	85.7	39	—	—	—	—	e 46.2	47.5
Makeyevka	106.9	39	—	—	(32 15?)	?	32.2	—
Irkutsk	129.2	0	—	—	(e 39 29)	?SR ₁	39.5	—

Additional readings: La Paz iP = +4m.4s. Sucre eP? = +4m.26s.; T₀ = 14h.41m.44s. De Bilt MZ = +47.4m.

Oct. 19d. 21h. 58m. 36s. Epicentre 49° 5S. 124° 0E.

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Adelaide	18.1	42	e 4 21	+ 3	17 49	+ 7	9.0	13.9
Perth	18.6	338	1 4 24	0	17 49	- 4	9.1	12.7
Melbourne	19.0	60	e 4 0	-29	17 30	-32	—	8.6
Riverview	25.4	62	e 6 22	+40	e 10 22	+11	e 12.1	13.7
Bombay	82.0	310	—	—	—	—	e 40.4	—
La Plata	95.6	177	—	—	—	—	53.0	—
Irkutsk	103.2	347	—	—	e 27 35	?PS	59.4	—
Sucre	111.0	170	—	—	—	—	64.6	69.0
Baku	111.0	309	e 20 26	?PR ₁	e 30 57	?PS	e 49.2	61.6
Tiflis	E. 114.6	306	e 20 31	?PR ₁	e 30 33	?PS	e 55.4	66.7
Ekaterinburg	E. 118.5	325	1 20 36	?PR ₁	e 30 6	?PS	51.9	63.4
Makeyevka	122.4	309	—	—	e 36 24?	?SR ₁	62.4	66.5
Kucino	127.1	315	—	—	—	—	e 70.2	—
Copenhagen	139.7	305	—	—	—	—	72.4	—
Feldberg	139.8	297	—	—	—	—	e 70.8	90.4
San Fernando	E. 142.1	268	—	—	—	—	—	86.4
De Bilt	142.4	298	—	—	—	—	e 76.4	—
Paris	142.7	291	—	—	—	—	e 83.4	—
Kew	145.4	294	—	—	—	—	e 79.4	—
Ottawa	166.1	100	—	—	—	—	e 83.4	—

Additional readings: Adelaide MN = +9.3m. Melbourne e = 21h.50m.0s.; all readings are given as e or i simply. Riverview MN = +14.9m. Irkutsk e = +33m.22s. = SR₁ + 4s. Baku e = +35m.1s. = SR₁ + 5s., MN = +64.4m. Tiflis eLN = +56.4m., MN = +64.4m. Ekaterinburg e = +36m.56s. = SR₁ + 28s., MN = +62.6m. Feldberg e = +75m.10s. San Fernando MN = +81.4m.

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Oct. 19d. Readings also at 2h. (La Paz and Sucre), 3h. (La Paz), 6h. (Ekaterinburg), 7h. (Ekaterinburg, Irkutsk, Manila, and near Amboina), 8h. (Phu-Lien, Ekaterinburg, and near Irkutsk), 9h. (Baku and Tiflis), 12h. (near Nagasaki), 13h. (Feldberg), 14h. (Ekaterinburg and near Toyooka), 15h. (Nagasaki and near Wellington), 17h. (Taihoku).

Oct. 20d. Readings at 0h. (near Sumoto), 1h. (La Plata), 2h. (Tiflis), 5h. (Apia), 8h. (Sucre, near La Paz, and near Tacubaya), 11h. (Tiflis, near Nagasaki, and near Tacubaya), 12h. (Tiflis), 16h. (Manila, near Batavia and Malabar, and near Tacubaya), 17h. (Ekaterinburg and Tiflis), 18h. (Ekaterinburg), 19h. (near Mizusawa), 20h. (near Irkutsk), 22h. (Wellington).

Oct. 21d. 0h. 57m. 50s. Epicentre 8°-2S. 79°-3W. (as on 1919 May 23d.).

A = +.184, B = -.973, C = -.143; D = -.983, E = -.186;
G = -.026, H = +.140, K = -.990.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	13.7	128	e 3 21	- 1	1 6 18	+17	7.1	8.4
Sucre	17.4	130	4 5	- 5	1 7 22	- 5	9.1	10.8
Rio de Janeiro	37.6	119	—	—	—	—	e 19.6	—
Ottawa	E. 53.7	5	—	—	e 17 40	?PS	e 25.2	—
Paris	90.9	42	—	—	—	—	e 53.2	—
Uccle	92.4	41	—	—	—	—	e 49.2	—
De Bilt	93.1	40	—	—	—	—	e 51.2	—
Tiflis	E. 120.6	45	—	—	(e 27 34)	?Σ	e 61.1	—
Ekaterinburg	122.3	23	—	—	—	—	56.7	—
Irkutsk	135.8	357	—	—	—	—	(e 66.2)	—

Additional readings and notes: La Paz P = +3m.31s., MN = +8.3m. Ottawa eLN = +28.2m. Tiflis readings are given as two separate eL readings. Irkutsk reading has been increased by 1h.

Oct. 21d. 23h. 7m. 40s. Epicentre 37°-0N. 4°-5W. (as on 1927 March 14d.).

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.
Malaga	0.2	166	e 0 3	- 1	—	—	—	—
Granada	0.8	78	e 0 11	- 1	(0 17)	- 5	0.3	0.3
Almeria	1.7	95	e 0 23	- 3	0 43	- 5	—	1.2
Toledo	N.E. 2.9	8	e 1 5	+20	—	—	—	—

Almeria gives also SR₁ = +48s.

Oct. 21d. Readings also at 0h. (near Sumoto), 3h. (Bagnères), 17h. (Tashkent, Tiflis, Ekaterinburg, and near Manila), 18h. (Ekaterinburg, Manila, and near Toyooka), 22h. (Manila), 23h. (La Paz, Manila, and Tashkent).

Oct. 22d. Readings at 2h. (Baku, Feldberg, Kow, Tashkent, Tiflis, and Strasbourg), 4h. (La Paz, La Plata, and Santiago), 6h. (La Paz), 18h. (near Nagasaki), 19h. (Ekaterinburg), 20h. and 22h. (La Paz).

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Oct. 23d. 4h. 2m. 12s. Epicentre 15°·5N. 56°·5E. (as on 1925 Feb. 1d.).

A = +·532, B = +·804, C = +·267; D = +·834, E = -·552;
G = +·147, H = +·223, K = -·964.

Very uncertain determination.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hyderabad	21·1	82	4 21	-33	8 25	-21	10·5	15·6
Baku	25·6	348	e 5 43	- 1	e 10 24	+10	e 11·7	—
Ksara	26·1	318	e 6 14	+25	e 14 51	?L	17·8	—
Tiflis	E. 28·1	341	e 6 25	+16	e 11 7	+ 6	e 16·8	23·6
	N. 28·1	341	e 6 22	+13	e 11 9	+ 8	e 18·8	23·8
Ekaterinburg	41·5	3	8 51	?	e 14 24	- 4	20·3	—

Additional readings: Tiflis eN = +6m.58s. = PR₁-5s., eE = +12m.7s. = SR₁-11s. Ekaterinburg e = +11m.21s. and +17m.48s.

Oct. 23d. Readings also at 7h. (Tiflis (2)), 9h. (Ekaterinburg), 12h. (Irkutsk and La Paz), 14h. (near Mizusawa), 16h. (Baku, Copenhagen, Kucino, Pulkovo, and Tiflis), 17h. (Ekaterinburg), 20h. (near Manila), 21h. (Ekaterinburg (2), Tiflis (2), and near Baku).

Oct. 24d. 13h. 36m. 36s. Epicentre 36°·5N. 1°·0W.

A = +·804, B = -·014, C = +·595; D = -·017, E = -1·000;
G = +·595, H = -·010, K = -·804.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Almeria	1·2	287	e 0 23	+ 5	0 42	+ 9	1·0
Alicante	1·9	13	10 32	+ 3	0 46	- 7	—
Granada	2·2	292	10 32	- 2	10 58	- 2	1·0
Malaga	2·8	274	e 0 51	+ 7	1 27	+10	—
Toledo	N.E. 4·1	326	e 1 4	0	1 36	-17	—

Additional readings: Almeria PR₁ = +32s., PR₂ = +46s. Toledo SNE = +1m.28s.

Oct. 24d. 15h. 59m. 44s. Epicentre 56°·4N. 136°·0W.

A = -·398, B = -·384, C = +·833; D = -·695, E = +·719;
G = -·599, H = -·579, K = -·553.

The epicentre 56°·0N. 136°·0W. used on 1923 June 22d. and earlier dates, is only supported by meagre evidence. This variation of the epicentre is deduced from a large number of observations and the earlier shocks would also have fitted the present position.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sitka	0·7	29	10 24	+13	—	—	—	—
Victoria	11·1	131	3 6	+20	—	—	5·6	6·1
Saskatoon	17·3	92	14 5	- 4	17 33	+ 8	8·5	9·6
Berkeley	20·7	148	15 4	+15	e 9 10	?SR ₁	—	—
Lick	N. 21·4	147	e 5 15	+17	e 9 32	?SR ₁	1 12·4	—
Denver	N. 26·3	116	—	—	—	—	—	17·8
Tucson	N. 29·8	134	6 29	+ 3	11 43	+12	15·8	—
Chicago	34·0	96	16 59	- 6	1 12 27	-13	1 18·1	—
St. Louis	34·8	103	17 7	- 4	1 12 42	-10	e 16·9	19·6
Chihuahua	34·9	132	7 26	+14	12 58	+ 4	15·7	21·5
Ann Arbor	35·8	91	17 10	-10	1 12 52	-15	1 17·3	—
Toronto	N. 37·3	87	e 7 27	- 5	1 13 21	- 7	17·1	22·3
Ottawa	38·2	82	17 29	-11	1 13 31	-10	1 18·5	26·8

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Honolulu, T.H. E.	38-7	216	7 43	- 1	i 13 48	0	i 16-6	—
Mazatlan	39-6	136	—	—	—	—	—	31-4
Ithaca	39-7	86	7 53	+ 1	13 56	- 6	18-3	21-3
Cheltenham	42-0	90	8 12	+ 1	14 34	- 1	18-2	—
Fordham	42-2	86	i 8 7	- 5	i 14 29	- 9	—	21-3
Guadalajara	43-1	134	—	—	15 34	+45	21-8	26-4
Tacubaya	46-0	130	8 33	- 7	15 31	+ 3	22-1	26-8
Vera Cruz	47-6	127	7 48	-63	15 7	-42	22-9	32-3
Ootomari	48-4	297	e 8 56	0	(15 58)	- 1	16-0	29-0
Merida	49-1	119	7 35	-86	14 46	-81	21-8	37-2
Reykjavik	49-3	34	—	—	—	—	e 22-3	—
Mizusawa	E. 54-6	290	9 32	- 5	17 12	- 4	—	—
	N. 54-6	290	9 34	- 3	17 13	- 3	23-0	—
Nagoya	59-8	290	e 10 7	- 4	18 21	0	—	—
Port au Prince	60-2	102	e 10 14	+ 1	e 18 32	+ 6	e 28-4	34-5
Dyce	60-5	28	10 12	- 4	i 18 40	+10	28-0	34-6
Irkutsk	60-6	324	10 10	- 6	i 18 29	- 2	30-3	—
Osaka	61-0	291	10 31	+12	18 45	+ 9	27-4	39-4
Kobe	61-1	291	e 10 29	+ 9	(18 44)	+ 7	18-7	—
Edinburgh	61-4	29	10 24	+ 3	18 42	+ 1	28-3	37-4
Sumoto	61-5	291	e 10 26	+ 4	(e 18 44)	+ 2	e 18-7	—
Uppsala	61-9	16	i 10 24	0	i 18 37	-10	e 26-3	41-6
Pulkovo	63-3	9	e 10 29	- 5	18 53	-12	28-3	30-6
Stonyhurst	63-4	30	e 10 36	+ 2	19 3	- 3	30-3	37-0
Bidston	63-6	30	10 40	+ 4	19 15	+ 7	30-3	37-1
San Juan	E. 63-7	97	15 27	?PR ₂	23 39	?SR ₁	31-9	39-1
Hukuoka	64-3	294	e 10 56	+16	e 19 14	- 3	32-2	39-9
Balboa Hts.	E. 64-6	116	15 22	+280	24 2	+282	35-0	38-5
	N. 64-6	116	14 20	+218	24 0	+280	35-3	40-9
Copenhagen	E. 65-0	20	e 10 46	+ 1	e 19 21	- 4	e 27-3	37-4
	N. 65-0	20	i 10 46	+ 1	e 19 26	+ 1	e 29-3	35-8
	Z. 65-0	20	i 10 46	+ 1	e 19 29	+ 4	e 30-3	36-7
Nagasaki	65-4	294	e 15 29	?PR ₂	24 18	?	28-4	—
Oxford	65-6	30	i 10 49	0	i 19 30	- 2	e 28-3	38-9
Ekaterinburg	65-9	352	i 10 46	- 4	i 19 30	- 6	27-3	29-8
Kew	66-1	30	10 55	+ 3	e 19 40	+ 2	32-1	35-2
Hamburg	66-5	22	i 10 58	+ 3	i 19 43	- 1	e 30-7	38-3
De Bilt	66-9	26	11 1	+ 4	19 51	+ 2	e 31-3	40-6
Konigsberg	67-1	15	11 1	+ 2	19 51	0	e 30-8	34-3
Kucino	67-7	5	11 57	+55	i 20 50	+52	28-5	36-1
Uccle	67-9	28	i 11 6	+ 3	i 19 58	- 3	30-8	41-8
Potsdam	68-3	20	i 11 5	- 1	i 20 12	+ 6	e 32-6	37-4
Azores	69-0	54	20 16	?S	(20 16)	+ 2	—	42-9
Paris	69-3	29	i 11 16	+ 3	e 20 18	0	32-3	36-3
Feldberg	69-4	25	i 11 16	+ 3	i 20 23	+ 4	e 33-2	37-0
Jena	69-4	23	e 11 16	+ 3	e 20 16	- 3	e 32-3	42-6
Cheb	70-4	21	e 11 21	+ 2	e 20 33	+ 2	e 32-3	43-3
Prague	70-7	20	i 11 16	- 5	i 20 36	+ 2	e 33-3	42-8
Strasbourg	70-8	26	i 11 23	+ 1	i 20 39	+ 3	e 30-3	52-6
Zi-ka-wei	70-8	299	11 21	- 1	20 23	-13	43-2	46-1
Hohenheim	70-9	25	e 11 26	+ 4	e 20 46	+ 9	37-0	42-7
Besançon	71-6	27	11 26	- 1	20 44	- 1	31-3	36-3
Ravensburg	71-9	25	i 11 32	+ 3	i 20 52	+ 3	35-1	58-6
Zurich	72-1	25	e 11 27	- 4	i 20 46	- 5	—	—
Lemberg	E. 72-5	14	e 11 58	+25	e 20 58	+ 2	e 31-3	46-1
	N. 72-5	14	e 11 34	+ 1	—	—	e 34-9	48-0
Vienna	72-8	20	e 11 31	- 4	21 17	+17	e 33-3	43-3
Chur	72-9	25	i 11 32	- 3	e 20 53	- 8	—	—
Grenoble	73-4	28	e 11 41	+ 3	e 21 6	- 1	e 35-3	—
Graz	73-8	20	i 11 42	+ 1	i 21 10	- 2	33-3	39-8
Budapest	74-0	18	i 11 44	+ 2	i 21 14	- 0	38-3	44-3
Bagnères	74-0	32	11 44	+ 2	e 21 18	+ 4	e 32-3	43-4
Moncalleri	74-1	27	11 44	+ 1	i 21 16	+ 1	32-3	47-0
Laibach	74-6	21	i 11 36	-10	e 21 17	- 4	34-3	45-3
Venice	74-7	24	i 11 50	+ 3	20 53	-29	43-9	45-3
Zagreb	N.E. 75-2	21	e 11 51	+ 1	e 21 26	- 2	e 33-7	51-6
	N.W. 75-2	21	e 11 51	+ 1	e 21 28	0	e 34-9	46-3
Makeyevka	75-4	5	11 46	- 5	21 18	-12	34-3	40-7
Toledo	75-6	37	e 11 52	- 1	i 21 33	0	e 35-0	42-0
Taihoku	N. 75-8	295	—	—	—	—	e 39-7	—
Barcelona	76-0	31	11 52	- 3	i 22 0	[+ 4]	e 34-5	43-9
Tortosa	E. 76-1	34	11 57	+ 1	21 38	0	—	45-7
	N. 76-1	34	i 11 56	0	i 21 41	+ 3	—	42-2
Florence	76-1	25	11 51	- 5	21 38	0	27-3	40-3

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	76.3	216	e 12 21	+24	21 55	+14	36.7	51.3
Rio Tinto	76.4	40	12 16?	+19	—	—	—	39.3
Belgrade	E. 76.8	17	e 11 59	-1	21 40	-7	—	—
	N. 76.8	17	i 11 57	-3	i 21 40	-7	e 38.5	54.8
San Fernando	77.9	40	12 8	+2	i 22 3	+4	30.8	45.3
Alicante	78.0	35	e 12 4	-3	i 22 10	+10	35.7	46.4
Granada	78.1	39	i 12 13	+5	i 22 3	+2	33.9	43.2
Malaga	78.2	39	12 1	-7	i 21 57	-5	31.3	38.6
Rocca di Papa	E. 78.4	24	i 12 13	+4	e 22 2	-3	e 37.3	—
	N. 78.4	24	e 12 10	+1	i 22 4	-1	e 37.7	50.4
Almeria	78.8	38	i 12 12	0	i 22 8	-2	34.3	37.5
Naples	E. 79.5	23	e 11 21	-55	e 22 31	+13	39.3	47.3
Pompeii	79.7	23	e 11 31	-46	e 21 16	-62	40.3	48.3
Tashkent	80.0	341	11 10	-69	i 21 11	-74	i 37.8	46.9
Algiers	80.6	32	12 20	-3	i 22 28	-2	38.3	47.1
Hong Kong	81.8	298	12 28	-1	22 41	-3	40.2	47.9
Tiflis	E. 81.9	0	12 29	-1	22 31	-14	e 36.1	51.0
	N. 81.9	0	12 29	-1	e 22 34	-11	e 37.9	53.9
Baku	83.1	356	e 12 27	-10	i 22 58	0	41.3	—
Manila	84.9	290	—	—	e 33 55	?	52.3	—
Phu-Lien	87.0	305	e 12 0	-59	e 22 23	-78	37.8	55.4
Simla	E. 88.0	334	12 52	-13	23 22	[+7]	41.2	46.7
	N. 88.0	334	12 52	-13	23 16	[+1]	49.3	54.5
Dehra Dun	88.5	332	23 40	?S	(23 40)	-18	42.1	47.6
Ksara	89.5	8	12 0	-73	22 28	?	41.1	—
La Paz	E. 92.1	119	13 32	+4	i 24 0	?2	43.3	50.6
	N. 92.1	119	—	—	i 24 6	?2	44.5	59.2
Helwan	93.0	11	e 13 31	-1	i 24 19	?2	—	59.7
Sucre	95.1	118	e 13 37	-7	i 25 1	-6	46.3	52.8
Amboina	96.3	275	—	—	—	—	e 37.3	—
Hyderabad	100.6	329	(14 26)	+13	(24 29)	[+2]	(45.6)	(56.5)
Bombay	100.9	334	13 56	-19	24 36	[+8]	46.5	64.6
Wellington	E. 106.1	217	i 14 36	-4	i 26 38	-15	49.1	50.4
Pilar	E. 107.1	122	—	—	—	—	—	38.3
Kodaikanal	107.8	325	26 52	?S	(26 52)	-16	58.0	61.1
Christchurch	108.9	217	25 16	?[S]	(25 16)	[+10]	51.0	60.9
Riverview	109.2	238	e 13 47	-67	?	?	e 50.5	57.8
Sydney	109.2	238	23 23	?	34 40	?SR ₁	50.1	50.7
Batavia	109.9	290	e 19 16?	?PR ₁	26 26	-67	34.8	55.6
Rio de Janeiro	E. 110.5	100	e 19 20	?PR ₁	26 29	-64	34.8	55.6
	N. 110.5	100	e 19 25	?PR ₁	26 51	-48	45.1	64.3
Colombo	111.2	321	14 6	-67	?	—	56.9	72.9
Buenos Aires	E. 112.0	120	29 52?	?PS	—	—	57.3	—
La Plata	112.7	120	—	—	—	—	—	—
Melbourne	115.3	240	e 20 4	?PR ₁	e 27 52,	-20	i 49.6	63.7
Adelaide	116.1	246	e 19 53	?PR ₁	e 31 16	?	48.1	57.6
Perth	125.9	265	—	—	51 56	?	62.9	—
Johannesburg	147.7	23	—	—	—	—	60.3	—
Cape Town	151.6	49	—	—	33 40	?	—	83.4

Additional readings: Victoria LZ = +5.5m., MZ = +8.7m. Saskatoon MN = +9.4m. Berkeley iEN = +5m.8s., iE = +5m.31s., eE = +5m.47s., iZ = +7m.14s., iN = +7m.21s., eE = +7m.22s., iSE = +9m.13s., iSN = +9m.17s., eE = +10m.15s., iN = +10m.33s., +10m.48s., and +12m.4s., eZ = +10m.52s., iE = +10m.55s., and +12m.16s., iN = +12m.48s. Lick eN = +10m.20s., +7m.44s., +8m.1s., ePR₁?N = +5m.35s., iGN = +10m.10s. Tucson PR₁N = +7m.29s. St. Louis iPR₁N = +8m.15s., iPP = +14m.58s., iSR₁N = +15m.19s. Ann Arbor ePR₁ = +8m.16s., eSR₁ = +14m.58s.; T₀ = 15h.59m.36s. Toronto iPN = +7m.33s., eN = +13m.15s., iN = +13m.31s. and +15m.24s.; T₀ = 15h.59m.44s., Ottawa ePR₂ = +8m.57s. = PR₁ - 3s., iSR₁E = +15m.53s., SR₂ = +16m.30s.; T₀ = 15h.59m.36s. Honolulu T.H. eEN = +13m.26s., eLN = +18.3m. Ithaca e = +16m.16s.? SR₁ - 24s. Fordham i = +8m.19s. and +9m.44s. = PR₁ - 4s., SR₁? = +17m.19s., SR₂? = +18m.24s.; T₀ = 15h.59m.30s. Port au Prince MNW = +34.1m. Dyce PR₁ = +13m.50s., e = +17m.10s. and Irkutsk iPR₁ = +12m.40s., iPR₂ = +13m.50s., SR₁ = +22m.10s., Kobe S = +14m.40s. = PR₁ - 11s. Sumoto eS = +14m.36s. = PR₁ - 19s. Utsala SR₁N = +23m.2s., eLN = +27.3m., MN = +40.0m. Pulkovo iP = +10m.33s., PR₁ = +12m.43s., PR₂ = +14m.16s., SR₁ = +23m.10s., SR₂ = +25m.10s., MZ = +41.1m.; MN = +41.2m. Stonyhurst ePR₁ = +14m.29s., eSR₁ = +26m.8s.; T₀ = 15h.59m.57s. San Juan PN = +15m.33s. Copenhagen PR₁ = +13m.10s., PR₂ = +14m.40s., eNZ = +17m.10s., eEN = +20m.40s., [S] + 7s., eSR₁N = +23m.16s., eZ = +23m.28s. Oxford PR₁N = +13m.21s.,

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PR₂ = +15m.16s., SR₁ = +24m.4s. Ekaterinburg i = +12m.27s., PR₁ = +13m.3s., PR₂ = +14m.43s., i = +15m.21s., SR₁ = +23m.41s., SR₂ = +26m.33s., MN = +39.1m., MZ = +43.5m., Kew PR₁ = +13m.20s., PR₂ = +14m.52s., ISZ = +19m.48s., iSE = +20m.1s., PS = +20m.11s., PR₁E = +23m.58s., iSR₁ = +27m.10s., MZ = +36.4m., Hamburg SR₁ = +23m.55s., eLNZ = +31.3m., MN = +39.3m., De Bilt PR₁Z = +13m.20s., MN = +35.3m., Konigsberg PN = +11m.2s., eZ = +11m.3s., P₁PZ1 = +11m.33s., eN = +20m.23s., PR₁Z = +14m.6s., PR₁E = +15m.8s., eE = +16m.8s., PSN = +20m.3s., PPSN = +20m.33s., e = +24m.10s., SR₁N = +24m.34s., SR₂N = +26m.43s., Kucino PR₁ = +16m.16s., Uccle iPR₁ = +13m.32s., iSR₁ = +24m.6s., MN = +34.7m., Potsdam i = +13m.37s. and +24m.23s., Paris i = +13m.46s., iS = +20m.23s., i = +24m.40s., MN = +38.3m., Feldberg e = +11m.49s., +12m.30s., +13m.23s., and +24m.22s., Jena IPZ = +11m.20s., iPN = +11m.22s., ePR₁N = +13m.52s., ePR₁Z = +14m.16s., eN = +23m.36s., and +25m.10s., SR₁ - 32s., eZ = +25m.4s., eLNZ = +38.3m., eLE = +38.5m., MN = +40.5m., MZ = +47.7m., Prague PR₁ = +13m.51s., PS = +21m.31s., SR₁ = +25m.46s., MN = +40.8m., Strasbourg iPR₁ = +14m.0s., SR₁ = +25m.58s., SR₂ = +29m.12s., MN = +43.3m., MZ = +44.5m., Hohenheim PR₁ = +14m.0s., SR₁ = +25m.50s., SR₂ = +27m.58s., Ravensburg MN = +43.3m., Vienna IP = +11m.35s., PR₁ = +14m.22s., PR₂ = +17m.34s., PR₃ = +18s., PS = +22m.15s., SR₁ = +26m.25s., SR₂ = +31m.2s., Graz iPS = +21m.39s., eSR₁ = +26m.22s., MN = +44.9m., Budapest MN = +42.8m., Bagnères eSR₁ = +25m.52s., Moncalieri MN = +45.8m., Laibach e = +14m.42s. = PR₁ - 22s., and +29m.52s. = SR₂ - 9s., Zagreb eSR₁NW = +26m.33s. = SR₁ - 31s., eSR₁NW = +29m.53s. = SR₂ - 20s., Makeyevka PR₁ = +14m.36s., PR₂ = +15m.28s. = PR₁ + 12s., SR₁ = +25m.0s., MN = +37.7m., MZ = +45.2m., Toledo IP = +11m.55s., eSZ = +21m.39s., MNW = +50.4m., Barcelona MN = +44.9m., Apia +31m.55s. = SR₁ - 19s., +35m.7s., and +38m.46s., San Fernando MN = +44.3m., Alicante PR₁ = +15m.1s., MN = +46.6m., Granada MN = +41.7m., Malaga MN = +46.3m., Almeria PR₁ = +15m.10s., MZ = +42.2m., Tashkent P₂ = +11m.16s., i = +17m.35s., iS₂ = +21m.18s., e = +29m.47s., and +30m.26s., Algiers MN = +41.3m., Hong Kong PR₁ = +15m.46s., SR₁ = +28m.26s., Tiflis eE = +12m.52s., ePR₁E = +15m.49s., eN = +16m.43s., ePR₁E = +17m.42s., eE = +19m.21s. = PR₂ + 14s., ePPSE = +22m.47s., eE = +26m.48s., and +33m.24s., eN = +29m.23s., Baku iP = +12m.33s., Phu-Lien eSR₁ = +28m.22s., eSR₂ = +33m.15s., Dehra Dun S = +35m.58s., Ksara LN = +41.2m., La Paz PR₁ = +16m.29s., PR₂ = +18m.33s., PR₃ = +20m.43s., PSN = +24m.32s., PPSN = +25m.41s., SR₁E = +28m.43s., SR₁N = +30m.14s., SR₁E = +33m.31s., SR₁N = +36m.16s., SR₁E = +36m.34s., Sucre PR₁ = +17m.36s., PR₂ = +19m.37s., PS = +26m.19s., PPS = +27m.4s., i = +27m.40s., SR₁ = +31m.25s., SR₂ = +36m.14s., SR₃ = +39m.21s., Hyderabad readings are diminished by 1m., Wellington iSR₁ = +34m.12s., i = +53.4m.; T₀ = 15h.59m.50s., Pilar MN = +83.7m., Christchurch +35m.28s., +39m.52s. = SR₂ + 10s., and +46m.4s., Riverview ePR₁ = +25m.26s., [S] + 19s., ePS = +28m.31s., eSR₁ = +34m.41s., eLq = +44.9m. and +46.1m., MZ = +61.7m., MN = +66.6m., Sydney PR₂ = +28m.40s., SR₂ = +43m.46s.; readings have been increased by 2h., Melbourne i = +10m.46s., +35m.58s. = SR₁ + 9s., and +47m.52s., Adelaide i = +31m.41s., MN = +54.4m., Perth PR₁ = +38m.6s.

Oct. 24d. 19h. 5m. 32s., Epicentre 33°·5N, 143°·0E. (as on 1927 Aug. 24d.).

A = -·666, B = +·502, C = +·552; D = +·602, E = +·799;
G = -·441, H = +·332, K = -·834.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	'	m. s.	s.	m. s.	s.	m.	m.
Nagoya	5·3	290	1 12	-10	(2 13)	-12	2·2	5·2
Mizusawa	5·8	346	1 32	+2	2 22	-17	—	—
Osaka	6·4	283	1 54	+16	(2 55)	0	2·9	4·7
Kobe	6·6	283	e 1 38	-3	e 2 41	-19	3·9	4·8
Sumoto	6·8	279	e 1 40	-4	e 2 58	-7	4·3	4·9
Toyoooka	7·0	290	1 47	+1	e 3 17	+7	e 4·4	7·5
Hukuoka	10·5	274	e 2 32	-5	—	—	6·3	7·1
Nagasaki	11·0	270	e 4 38	?S	(e 4 38)	-16	9·8	—
Zi-ka-yei	18·3	269	e 4 16	-5	7 53	+6	—	12·8
Taihoku	N. 20·5	251	—	—	—	—	e 10·2	—
Manila	27·5	232	—	—	e 9 3	-107	15·5	—
Irkutsk	33·4	316	(e 7 5)	+5	(e 12 35)	+5	18·5	21·8
Phu-Lien	34·6	258	—	—	—	—	17·5	—
Tashkent	57·3	302	e 10 28	+34	—	—	30·5	36·3

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.
Ekaterinburg	58.5	322	10 23	+21			30.5	38.0
Kucino	E. 70.5	325						47.2
Pulkovo	71.7	331			e 20 34	-12	37.5	48.0
Tiflis	N. 73.8	310	e 11 44	+ 3	e 21 19	+ 7	e 38.1	45.2
Copenhagen	81.3	335					e 42.5	55.7
Hamburg	83.9	335					e 44.5	53.5
Dyce	84.6	343						49.8
Prague	84.9	330					e 46.5	56.5
Vienna	85.4	329	e 12 47	- 3	23 27	+ 4		59.5
Cheb	85.7	330					e 45.5	56.5
De Bilt	86.8	336					e 45.5	55.8
Zagreb	N.E. 87.4	326	e 13 6	+ 5	e 25 0	?PS	e 54.2	
Kew	89.1	340					e 46.5	
Oxford	89.2	340					e 45.3	52.1
Strasbourg	89.3	333					e 48.5	
Rocca di Papa	92.0	325	e 9 34	?			e 50.6	61.5
Grenoble	92.3	333					e 53.5	
Tortosa	N. 98.0	334					e 49.5	55.4
La Plata	162.7	100						82.5
Rio de Janeiro	E. 168.1	29					e 87.0	

Additional readings: Osaka MN = +5.2m. Kobe MN = +5.3m. Sumoto MN = +5.5m. Irkutsk readings appear to require a correction: the P entered has been increased by 9m., and S by 6m., the other readings uncorrected are ePR₂ = +1m.44s., e = +2m.46s., ePS = +6m.52s., eSR₂ = +14m.29s., MN = +21.4m. Tashkent MN = +36.0m. Ekaterinburg MZ = +38.2m., MN = +39.6m. Kucino MN = +46.2m. Pulkovo MZ = +46.1m., MN = +48.1m. Tiflis eE = +11m.47s. and +18m.17s., ME = +45.0m. Hamburg MZ = +56.5m. Prague e = +39m.28s.? Vienna PPS? = +24m.39s., SR₂?? = +34m.48s., MN = +57.5m. De Bilt MN = +54.9m., MZ = +59.8m. Zagreb eNW = +2m.32s., eNE = +9m.8s., eNW = +49m.44s., eNW = +54m.18s., eNE = +56m.18s., MNW = +56m.52s. Oxford MN = +55.5m. Rio de Janeiro eN = +89m.55s.

Oct. 24d. Readings also at 1h. and 3h. (3) (Tiflis), 5h. (Ekaterinburg), 6h. (Ekaterinburg, La Paz, and Tiflis), 7h. (near Belgrade), 8h. (Tiflis), 13h. (Ekaterinburg, Phu-Lien, Tashkent, and Tiflis), 18h. (Bagnères, Algiers, Grenoble, Hamburg, Moncalieri, Rocca di Papa, Strasbourg, and Tortosa), 19h. (Taihoku and Manila), 23h. (Tashkent and near Reykjavik).

Oct. 25d. 8h. 35m. 25s. Epicentre 30°0S. 70°0W. (as on 1923 June 1d.).

A = +.296, B = -.814, C = -.500; D = -.940, E = -.342;
G = -.171, H = +.470, K = -.866.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Santiago	3.5	189	e 1 45	+50	2 15	+38	2.7	
Pilar	N. 5.5	109			(2 29)	- 2	2.5	3.7
Buenos Aires	N. 10.8	118					5.2	6.4
La Plata	11.3	118	3 0	+11	4 51	-11	5.6	
Sucre	11.8	23	12 49	- 7	15 5	- 9	16.2	7.4
La Paz	13.6	8	13 25	+ 4	16 3	+ 5	6.9	7.4
Rio de Janeiro	25.0	80	e 9 35	?S	(e 9 35)	-28		

Additional readings: Pilar LE? = +2.6m., ME? = +3.8m. Buenos Aires LE = +4.9m., ME = +6.1m. Sucre i = +3m.26s.; T₁ = 8h.35m.21s. La Paz i = +6m.27s.

Oct. 25d. 14h. 28m. 32s. Epicentre 35°7N. 134°8E. (as on 1927 August 5d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Kobe	1.1	163	0 17	0	(0 24)	- 7	0.4	0.5
Osaka	1.2	154	0 26	+ 8	(0 33)	0	0.6	1.3
Sumoto	1.4	177	0 13	- 8			0.3	0.3
Nagoya	1.8	107					e 1.1	
Tashkent	50.4	298	i 15 42	?S	(i 15 42)	-42	e 39.5	47.3

Tashkent gives also iS = +24m.28s.

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Oct. 25d. 15h. 41m. 18s. Epicentre 22°-0S. 133°-5E.

A = -·638, B = +·673, C = -·375; D = +·725, E = +·688;
G = +·258, H = -·272, K = -·927.

Very rough.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Adelaide	13·7	162	e 3 22	0	e 5 56	- 5	6·5	6·9
Riverview	19·5	131	e 4 55	+20	e 7 45	-28	e 9·2	10·9
Perth	18·5	234	—	—	e 7 52	+ 1	1 9·3	—
Ekaterinburg	99·4	328	i 13 15	-52	—	—	35·7	—
Tiflis	103·5	310	—	—	—	—	e 49·7	—

Riverview gives also eS = +7m.31s., MN = +10·2m.

Oct. 25d. 17h. 59m. 14s. Epicentre 56°-4N. 136°-0W. (as on Oct. 24d.).

	Δ	Az.	P.	O-C.	L.	M.
	°	°	m. s.	s.	m.	m.
Sitka	0·7	29	i 0 24	+13	i 0·6	—
Victoria	11·1	131	6 20	?L	6·9	8·3
Ann Arbor	35·8	91	—	—	e 19·0	—
Toronto E.	37·3	87	—	—	19·8	—
Ottawa	38·2	82	—	—	e 19·8	—
Ekaterinburg	65·9	352	—	—	27·8	—
Tashkent	80·0	341	—	—	e 40·8	48·3
Tiflis	81·9	0	—	—	e 54·8	—
Baku	83·1	356	—	—	e 48·3	—

Victoria gives also LN = +6·8m., MN = +7·7m.

Oct. 25d. 21h. 37m. 30s. Epicentre 36°-0N. 138°-0E. (as on 1925 Jan. 25d.).

A = -·601, B = +·541, C = +·588; D = +·669, E = +·743;
G = -·437, H = +·393, K = -·809.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	1·2	225	e 0 31	+13	—	—	2·1	2·6
Osaka	2·5	239	1 20	+41	(1 20)	+11	2·9	4·3
Sumoto	3·1	237	e 0 39	-10	—	—	e 7·9	—
Mizusawa E.	4·0	37	0 57	- 5	1 40	-10	—	—
Nagasaki	7·5	247	—	—	—	—	e 5·6	—
Hong Kong	24·8	243	—	—	—	—	—	18·0
Irkutsk	28·7	315	—	—	e 11 14	+ 2	18·5	22·0
Tashkent	52·5	300	—	—	15 59	-51	e 26·5	36·0
Ekaterinburg	53·9	319	—	—	e 17 19	+11	28·0	37·2
Kucino	66·0	323	—	—	—	—	35·5	44·3
Baku	66·4	305	—	—	e 19 59	+17	e 36·0	45·5
Pulkovo	67·4	329	e 15 0	?PR ₁	—	—	38·5	47·2
Tiflis E.	69·0	307	e 11 10	- 1	e 20 54	[-11]	e 38·5	44·6
Copenhagen	77·2	332	—	—	—	—	42·5	—
La Paz	149·7	57	19 22	[-33]	—	—	—	—

Additional readings: Nagoya MN = +2·4m. Osaka MN = +4·5m.
Mizusawa PN = +1m.0s. Irkutsk e = +15m.57s. Tashkent e =
+22m.30s.?, MN = +35·2m., MZ = +35·5m. Ekaterinburg MN =
+35·3m. Kucino MN = +43·4m., readings have been increased by 1h.
Baku MN = +45·4m. Tiflis eN = +8m.27s., eLN = +33·5m.

Oct. 25d. Readings also at 0h. (Tashkent, Tiflis, and near Nagasaki), 1h. (Tashkent and Tiflis), 3h. (Tiflis), 4h. (Tiflis (2), near Taombaya, and Vera Cruz), 6h. (Mizusawa, near Osaka, and Sumoto), 8h. (La Paz and Sucre (2)), 9h. (Tashkent), 13h. (Tiflis), 14h. (near Sumoto (2)), 15h. (Sucre), 18h. (near St. Louis), 21h. (near La Paz), 23h. (Aldberg).

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Oct. 26d. Readings at 0h. (Sucre and near La Paz), 1h. (Tifis and near Osaka), 8h. (Feldberg), 9h. (Ekaterinburg, Dehra Dun, Simla, and near Tashkent), 10h. (La Paz), 11h. (Tashkent), 13h. (Sucre and near La Paz), 15h. (Ekaterinburg and Tashkent), 21h. (Tashkent).

Oct. 27d. 1h. 53m. 50s. Epicentre 37°4N. 138°8E.

See paper by T. Matuzawa in Bull. E'quake Research Institute of Japan, Aug. 1928, Vol. V.

A = -598, B = +523, C = +607; D = +659, E = +752;
G = -457, H = +400, K = -794.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	2.5	48	0 34	- 5	1 9	0	—	—
Nagoya		2.7	213	e 0 41	- 1	(1 19)	+ 5	1.3	1.8
Osaka		3.8	225	1 13	+14	—	—	2.1	2.6
Kobe		4.0	228	e 1 4	+ 2	—	—	—	2.6
Sumoto		4.4	227	e 1 34	+26	—	—	e 2.8	3.0
Tashkent		52.5	298	—	—	e 15 10?	-100	i 24.7	—
Ekaterinburg		53.3	319	—	—	—	—	28.2	—
Kucino		65.3	323	—	—	—	—	41.5	—
Baku		66.2	305	—	—	—	—	e 41.2	—
Tifis	F.	68.8	307	—	—	—	—	e 38.2	—
Makeyevka		69.4	316	—	—	—	—	e 35.2	—

Additional readings: Nagoya P = +46s., MN = +1.9m. Osaka MN = +2.9m., readings are given for 26d. Tashkent i = +19m.44s., the readings entered are not given as any particular phase. Tifis eLN = +37.2m.

Oct. 27d. 7h. 31m. 6s. Epicentre 14°5S. 128°0E.

A = -596, B = +763, C = -250; D = +788, E = +616;
G = +154, H = -197, K = -968.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Melbourne		27.7	150	—	—	e 10 54	0	—	20.6
Riverview		28.5	137	e 8 36	?	e 11 12	+ 4	e 15.2	20.6
Sydney		28.5	137	—	—	11 6	- 2	15.9	16.9
Suva		48.3	101	—	—	—	—	23.9	—
Irkutsk		69.8	345	e 11 17	+ 1	e 20 25	+ 1	36.9	43.7
Baku		90.6	311	—	—	e 27 33	?	52.2	—
Ekaterinburg		90.6	330	i 13 28	+ 9	e 24 7	- 13	e 54.9	57.6
Tifis	E.	94.6	311	e 25 0	?S	(e 25 0)	- 2	e 53.9	64.4
Makeyevka	N.	94.6	311	—	—	e 25 29	+27	e 53.9	65.8
Kucino		100.7	316	—	—	—	—	58.9	—
Kucino		102.0	324	—	—	—	—	e 54.0	63.4
Pulkovo		106.4	329	—	—	—	—	57.9	71.6
Victoria	E.	113.1	43	—	—	e 28 52	?PS	44.1	49.8
Copenhagen		116.2	325	—	—	—	—	71.9	—
Strasbourg		120.7	318	—	—	—	—	e 69.9	—
De Bilt		121.3	321	—	—	—	—	e 68.9	—
Paris		123.9	319	—	—	—	—	e 77.9	—
Kew	Z.	124.7	322	—	—	—	—	e 69.9	—
Rio Tinto		133.7	307	82 54	?L	—	—	(82.9)	93.9
San Fernando	E.	133.8	305	—	—	—	—	—	99.9
St. Louis	E.	138.6	46	—	—	—	—	e 57.4	—
Toronto	E.	142.6	32	—	—	—	—	e 67.9	—
Ottawa		143.2	27	—	—	—	—	e 61.9	—
La Paz		145.2	150	i 19 26	[-22]	—	—	—	—

Additional readings: Riverview MN = +22.1m. Irkutsk eSR₁ = +25m.21s., eSR₂ = +29m.9s. Ekaterinburg MZ = +58.5m. Pulkovo MZ = +71.9m. San Fernando MN = +91.9m.

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Oct. 27d. 19h. 41m. 6s. Epicentre 9°-8N. 126°-2E. (as on 1927 June 7d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	7-0	314	e 2 24	+38	—	—	4-2	—
Hong Kong	17-0	319	4 12	+7	7 46	SR ₁	—	13-6
Phu-Lien	21-8	302	4 57	-6	e 8 59	-2	9-9	—
Batavia	25-0	231	i 5 54	+16	9 54	-9	—	—
Irkutsk	46-1	343	8 44	+3	i 15 43	+14	23-9	—
Tashkent	58-9	314	i 10 25	+21	i 18 31	+21	e 28-9	40-9
Ekaterinburg	68-6	328	i 11 18	+10	i 20 24	+15	e 31-9	47-0
Baku	73-3	310	i 11 40	+2	i 21 13	+7	e 37-9	47-5
Tiflis	E. 77-1	311	e 12 1	-1	e 21 54	+4	e 36-9	49-0
	N. 77-1	311	e 12 5	-3	e 21 51	+1	e 37-9	49-6
Kucino	81-0	326	—	—	e 22 24	-11	41-4	50-0
Makeyevka	81-6	319	—	—	—	—	e 55-9	—
Pulkovo	84-5	330	12 47	+2	23 13	-1	45-9	57-2
Ksara	E. 84-9	304	e 12 39	-8	22 58	[+3]	—	—
Copenhagen	94-8	329	—	—	e 27 54?	?	48-9	—
Feldberg	99-4	324	—	—	e 26 2	+12	e 43-7	46-1
De Bilt	100-3	326	—	—	—	—	e 53-9	—
Rocca di Papa	100-4	315	—	—	—	—	e 61-4	68-1
Strasbourg	100-6	325	—	—	—	—	e 61-9	—
San Fernando	E. 115-7	319	—	—	—	—	—	72-9

Additional readings and notes: Batavia iP = +5m.58s., i = +6m.4s. Tashkent MN = +39-8m., MZ = +40-7m. Ekaterinburg e = +28m.30s., MN = +40-1m., MZ = +47-2m. Baku MN = +47-8m. Tiflis eN = +12m.35s. and +23m.3s. Kucino e = +28m.6s. = SR₁ - 22s. Feldberg e = +32m.24s. = SR₁ - 6s.

Oct. 27d. Readings also at 2h. (Tashkent and near Toyooka), 4h. and 6h. (near Hukuoka), 7h. (Baku, Ekaterinburg, Irkutsk, Phu-Lien, near Bombay, and near Calcutta), 9h. (near Zagreb), 10h. and 12h. (Tiflis), 15h. (near Toyooka), 18h. (near Batavia and Malabar), 23h. (Tashkent).

Oct. 28d. 15h. 22m. 50s. Epicentre 33°-5N. 143°-0E. (as on Oct. 24d.).

A = -666, B = +502, C = +552 ; D = +602, E = +799 ;
G = -441, H = +332, K = -834.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	E. 5-3	290	i 1 18	-4	—	—	—	—
Mizusawa	N. 5-8	346	1 35	+5	2 20	-19	—	—
	5-8	346	1 46	+16	2 34	-5	—	—
Osaka	6-4	283	1 41	+3	—	—	3-2	5-9
Kobe	6-6	283	1 58	+17	—	—	4-2	4-5
Sumoto	6-8	279	e 1 42	-2	e 2 46	-19	e 3-9	4-5
Toyooka	7-0	290	e 0 22	-84	—	—	—	—
Hukuoka	10-5	274	e 1 26	-71	—	—	6-6	6-8
Nagasaki	11-0	270	e 0 18	?	3 38	-76	5-4	—
Zi-ka-wel	18-3	269	4 27	+6	—	—	—	12-2
Manila	27-5	232	e 7 10?	+67	—	—	—	—
Hong Kong	27-7	254	—	—	—	—	—	19-8
Irkutsk	38-4	316	e 6 38	-22	i 12 2	-28	16-2	22-5
Phu-Lien	34-6	258	1 10?	?	—	—	—	—
Tashkent	57-3	302	i 10 9	+15	18 1	+11	e 27-2	38-1
Ekaterinburg	58-5	322	i 10 6	+4	i 18 3	-2	27-2	38-1
Baku	71-2	308	e 11 29	+5	20 42	+2	36-2	42-5
Pulkovo	71-7	331	e 11 32	+4	20 48	+2	37-2	45-6
Tiflis	E. 73-8	310	e 11 43	+2	e 21 7	-5	e 38-2	46-7
	N. 73-8	310	e 11 44	+3	e 21 12	0	e 37-2	50-4
Makeyevka	74-6	319	—	—	—	—	e 47-2	52-1
Upsala	E. 76-5	336	—	—	—	—	e 49-2	—
Copenhagen	81-3	335	—	—	22 25	-13	41-2	52-1
Ksara	E. 84-1	309	e 13 4	+21	23 1	-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.
Prague	84.9	330	—	—	—	—	e 47.2	55.2
Cheb	85.7	331	—	—	—	—	e 46.2	54.2
De Bilt	86.8	336	—	—	—	—	e 46.2	54.6
Feldberg	87.1	333	—	—	—	—	e 46.4	58.6
Uccle	88.1	336	—	—	—	—	e 45.2	—
Strasbourg	89.3	333	—	—	—	—	e 59.2	—
Paris	90.5	336	—	—	—	—	e 54.2	—
Florence	91.1	327	13 10	-12	—	—	—	—
Rocca di Papa	92.0	325	—	—	—	—	e 57.3	59.5
Ottawa	E. 93.6	26	—	—	—	—	e 48.2	—
San Fernando	E. 104.4	336	—	—	—	—	—	66.7
La Paz	147.3	68	20 10	[+18]	—	—	—	—

Additional readings: Osaka MN = +5.2m. Sumoto MZ = +4.4m., MN = +5.7m. Irkutsk MN = +19.5m., MZ = +22.3m. Tashkent MN = +34.2m. Ekaterinburg i = +19m.51s. = [S] +7s., MN = +35.5m., MZ = +37.9m. Baku MZ = +46.4m., MN = +46.6m. Pulkovo MZ = +45.7m., MN = +46.6m. Tiflis eN = +21m.52s. = [S] +12s., eE = +23m.1s. Copenhagen MN = +56.6m. Ottawa eN = +52m.10s. San Fernando MN = +68.2m.

Oct. 28d. 21h. 49m. 40s. Epicentre 44°6N. 9°5E. (given by Strasbourg).

A = +.702, B = +.118, C = +.702; D = +.165, E = -.986;
G = +.692, H = +.116, K = -.712.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Moncalieri	1.3	287	0 2	-18	0 26	-10	—	0.5
Florence	1.5	123	0 0	-23	—	—	—	0.5
Venice	2.2	68	0 36	+ 2	0 44	-16	—	—
Grenoble	2.8	282	0 39	- 5	—	—	—	—
Zurich	2.8	347	e 0 28	-16	i 0 56	-21	—	—
Neuchatel	3.0	324	i 0 24	-23	i 1 2	-21	—	—
Innsbruck	3.0	25	i 0 55	+ 8	i 1 25	+ 2	—	—
Ravensburg	3.2	359	e 0 44	- 6	(e 1 5)	-23	e 1.1	1.5
Besançon	3.6	319	e 0 22	-34	i 1 13	-26	—	—
Rocca di Papa	3.7	139	e 0 28	-30	(i 1 44)	+ 2	i 1.7	—
Hohenheim	4.2	0	e 0 54	-11	i 2 14	+19	—	—
Strasbourg	4.2	344	e 0 42	-23	i 1 56	+ 1	—	—
Zagreb	N.E. 4.7	73	e 1 23	+10	e 2 14	+ 5	—	2.5
	N.W. 4.7	73	e 1 24	+11	e 2 16	+ 7	—	2.7
Vienna	6.0	50	e 1 39	+ 7	e 2 59	+15	i 3.8	4.3
Prague	6.4	30	—	—	e 2 57	+ 2	—	4.3
Jena	E. 6.4	12	e 1 46	+ 8	i 2 44	-11	e 3.0	3.4
Uccle	7.1	332	e 2 44	+56	—	—	e 7.3	—
Tortosa	N. 7.6	244	—	—	—	—	e 3.6	4.0
Potsdam	8.1	15	-e 0 58	?	—	—	—	—
Copenhagen	11.3	8	—	—	4 20?	-42	—	—
Pulkovo	19.6	32	—	—	—	—	e 7.3	—
Makeyevka	19.8	70	(3 30?)	-79	—	—	3.3	—
Tashkent	42.9	73	—	—	—	—	e 22.3	28.3

Additional readings: Moncalieri MN = +2.2m. Venice PE = +0m.17s., PN = +0m.42s. Neuchatel IP = +26s. Innsbruck eP = +22s. Ravensburg readings are given for 22h. Rocca di Papa eN = +31s., eZ = +37s. Zagreb e = +1m.7s., eNW = +1m.35s., +1m.44s., +1m.49s., and +2m.10s., eNE = +1m.36s., +1m.42s., +1m.55s., and +2m.4s. Vienna iZ = +2m.12s., +2m.26s., and +2m.50s., iE = +2m.19s. and +2m.43s. Jena iE = +2m.24s. and +2m.34s., MZ = +3.6m.

Oct. 28d. Readings also at 1h. (Ekaterinburg), 4h. (Sitka), 7h. (near La Paz and Sucre), 12h. (Florence (2) and Sucre), 13h. (La Paz and near Neuchatel), 14h. (Florence (2) and near Neuchatel), 15h. (Florence (2)), 18h. (Florence, Moncalieri, and near Neuchatel), 19h. (Tiflis, Sucre, Moncalieri, and near La Paz), 20h. (Florence, Tiflis, Moncalieri, and near Neuchatel), 21h. (Strasbourg, Tiflis, Zagreb (2), Zurich, Florence (2), near Moncalieri, and near Neuchatel), 22h. (Innsbruck, Rocca di Papa, Strasbourg (2), Florence (2), Neuchatel (2), Zagreb (2), Zurich, Venice, and near Moncalieri (2)), 23h. (Makeyevka).

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Oct. 29d. 1h. 24m. 44s. Epicentre 39°·0N. 75°·0E.

A = +·201, B = +·751, C = +·629; D = +·966, E = -·259;
G = +·163, H = +·608, K = -·777.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	5·0	300	e 1 15	- 2	1 2 4	-13	—	3·3
Simla	8·0	166	—	—	e 3 40	+ 3	—	—
Baku	19·3	282	i 4 38	+ 5	1 8 20	+12	11·3	11·6
Bombay	20·2	186	4 41	- 2	e 8 31	+ 4	10·9	—
Ekaterinburg	20·2	337	i 4 49	+ 6	8 30	+ 3	9·8	—
Tiflis	23·1	286	5 17	- 1	e 9 30	+ 3	e 11·9	—
	23·1	286	e 5 18	0	e 9 27	0	e 11·5	—
Irkutsk	24·2	47	e 5 28	- 2	1 9 52	+ 4	15·3	—
Makeyevka	28·0	301	—	—	—	—	e 14·3	20·2
Kucino	29·7	317	e 8 16?	?	e 12 16?	?	—	—
Ksara	31·7	274	e 6 21	-23	13 17	+74	22·3	—
Pulkovo	34·8	323	e 7 0	-11	e 12 27	-25	16·3	18·6
Copenhagen	43·8	315	—	—	e 14 46	-13	23·3	—
Feldberg	47·1	307	—	—	—	—	e 25·3	27·3

Additional readings: Tashkent i = +1m.26s., MZ = +4·3m. Simla eE = +3m.22s. Baku e = +8m.15s. Ekaterinburg i = +5m.1s., e = +8m.24s. Tiflis eE = +7m.42s., eN = +11m.21s., eLN? = +14·3m. Irkutsk SR₁ = +12m.44s. Makeyevka L = +18·3m., MN = +24·1m.

Oct. 29d. Readings also at 1h. (Florence and Moncalieri), 2h. (Tiflis), 3h. (Tiflis), 4h. (Florence, Vienna, Zagreb, Ksara, Ekaterinburg, Tiflis, Tashkent, and Suva), 5h. (near Manila), 6h. (La Paz and Tashkent), 7h. (Baku and Tiflis), 10h. (Florence, Moncalieri, Zagreb, near La Paz, and Sucre), 11h. (Ekaterinburg and near Tashkent), 15h. (Florence), 18h. (Florence), 21h. (near Tashkent), 23h. (Tashkent and near Nagasaki).

Oct. 30d. 3h. 8m. 52s. Epicentre 72°·5N. 12°·0W.

A = +·294, B = -·063, C = +·954; D = -·208, E = -·978;
G = +·933, H = -·198, K = -·301.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Reykjavik	9·1	209	—	—	(e 4 8?)	+ 2	e 4·1	—
Edinburgh	17·0	163	—	—	—	—	e 9·1	—
Upsala	17·1	122	—	—	e 7 35	+15	e 9·1	—
Copenhagen	19·6	135	4 32	- 4	e 8 8	- 7	10·1	13·0
Pulkovo	20·6	106	5 1	+13	8 33	- 3	10·1	10·7
Hamburg	21·1	142	e 5 2	+ 8	—	—	—	15·2
Oxford	21·3	161	—	—	—	—	e 10·1	11·9
De Bilt	21·7	151	—	—	e 9 9	+10	e 10·5	11·4
Kew	21·7	160	i 5 3	+ 2	e 9 4	+ 5	11·1	12·0
Uccle	22·9	153	e 5 13	- 3	e 9 25	+ 2	e 11·1	—
Feldberg	24·1	147	—	—	1 9 47	+ 1	e 11·3	12·4
Paris	24·6	156	e 5 32	- 2	—	—	13·8	14·1
Cheb	24·8	141	—	—	e 10 8?	+ 9	e 13·1	18·1
Prague	25·3	138	—	—	—	—	e 14·1	17·1
Strasbourg	25·6	138	e 6 8?	+24	—	—	e 13·1	e 17·1
Kucino	26·2	103	—	—	—	—	—	13·3
Moncalieri	29·0	151	e 6 34	+16	12 19	+62	16·2	—
Ekaterinburg	32·1	81	e 6 49	+ 1	e 12 8	- 2	15·1	19·7
Tortosa	32·3	164	e 7 8?	+17	—	—	e 16·1	20·0
Toledo	32·9	169	—	—	—	—	e 16·6	20·0
Rocca di Papa	33·0	144	e 6 37	-19	—	—	—	—
Makeyevka	33·1	110	—	—	e 10 8?	?	e 15·1	26·0
Rio Tinto	34·9	175	18 8?	1L	—	—	(18·1)	21·1
Granada	35·6	169	—	—	—	—	e 17·8	21·1
Almeria	36·0	167	—	—	—	—	e 19·4	24·4

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
San Fernando E.	36.2	173	—	—	—	—	—	19.1
Ottawa	39.4	265	—	—	—	—	—	—
Tiflis	40.8	106	e 8 41	+40	e 14 8?	+11	e 18.1	24.0
Toronto E.	42.1	268	—	—	e 14 11	-7	e 19.1	—
Baku	43.5	102	—	—	—	—	22.8	—
Chicago	46.3	273	—	—	—	—	e 22.3	—
Irkutsk	47.7	49	—	—	—	—	21.1	23.8
Tashkent	48.5	84	9 11	+14	16 9	+9	e 22.1	29.2
La Paz	96.3	234	13 27	-24	21 2	?	—	—
Sucre	98.0	230	13 17	-43	—	—	—	—

Additional readings: Copenhagen eZ = +4m.41s., MN = +14.2m. Pulkovo MNZ = +11.8m. De Bilt eLE = +12.0m., ME = +12.6m., MZ = +14.7m. Kew MN = +12.5m. Kucino MN = +13.2m. Ekaterinburg eSR, = +13m.16s. Toledo MNE = +19.8m. Makeyevka MN = +21.8m. San Fernando MN = +11.1m. Tiflis eSR, N? = +16m.20s., eLN = +20.1m., MN = +24.8m. Tashkent e = +21m.14s. = SR, -13s., MZ = +29.3m.

Oct. 30d. 23h. 47m. 10s. Epicentre 44° 6N. 9° 5E. (as on Oct. 28d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Moncalieri z.	1.3	287	0 30	+10	i 0 37	+1	—	—
Florence	1.5	123	e 0 18	-5	—	—	—	0.7
Venice	2.2	68	0 43	+9	1 4	+4	—	—
Zurich	2.8	347	—	—	—	—	—	5.8
Neuchatel	3.0	324	e 0 46	-1	e 1 20	-3	—	—
Ravensburg	3.2	359	—	—	e 1 26	-2	1.6	—
Rocca di Papa	3.7	139	e 0 49	-9	e 1 34	-8	—	2.3
Zagreb N.E.	4.7	73	e 1 45	+32	e 2 30	+21	—	—
Zagreb N.W.	4.7	73	e 1 43	+30	e 2 32	+23	—	—
Vienna z.	6.0	50	2 21	?S	(2 21)	-23	—	—

Zagreb gives also e = +1m.52s., eNW = +2m.0s., eNE = +2m.4s., e = +2m.9s., eNE = +2m.13s.

Oct. 30d. Readings also at 1h. (Ekaterinburg, Tashkent, La Paz (2), Sucre, near Ambolna, and near Nagasaki), 2h. (Manila), 4h. (Tiflis and near Belgrade), 5h. (Tiflis (2), Phu-Lien, and near Mizusawa), 6h. (Ekaterinburg, Tiflis, and near Manila), 7h. (Tashkent and near Tacubaya), 8h. (Ekaterinburg, Tashkent, and Tiflis (2)), 11h. (near Hukuoka and Matuyama), 12h. (Florence), 13h. (La Paz and Sucre), 15h. (Florence and near Moncalieri), 22h. (Irkutsk), 23h. (La Paz).

Oct. 31d. 6h. 23m. 0s. Epicentre 36° 5N. 49° 0E.

A = +.527, B = +.607, C = +.595; D = +.755, E = -.656;
G = +.390, H = +.449, K = -.804.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	3.9	11	e 2 46	+105	—	—	4.0	5.6
Tiflis N.	6.1	329	e 1 15	-18	—	—	14.4	5.0
Ksara	11.0	260	e 2 48	+4	4 58	+4	6.2	—
Makeyevka	14.1	329	—	—	—	—	10.0	—
Tashkent	16.4	67	3 15	-42	6 47	-17	e 9.2	13.3
Ekaterinburg	21.8	17	4 59	-4	9 4	+3	12.0	—
Pulkovo	26.2	338	—	—	—	—	e 16.0	—

Additional readings: Baku MZ = +6.4m., MN = +7.3m. Tiflis eN = +3m.33s. and +3m.46s. Makeyevka eL = +13.0m. Tashkent MN = +11.1m.

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Oct. 31d. 13h. 25m. 0s. Epicentre 30°·6N. 144°·0E. (as on 1924 June 22d.).

A = -·696, B = +·506, C = +·509; D = +·588, E = +·809;
G = -·412, H = +·299, K = -·861.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Osaka	8·3	302	2 9	+ 3	—	—	2·9	8·4
Mizusawa	8·8	345	2 48	+35	3 40	-18	—	—
E. N.	8·8	345	2 42	+29	3 48	-10	—	—
Zi-ka-wei	19·4	278	e 4 20	-14	e 7 48	-22	—	11·9
Irkutsk	36·1	319	e 6 59	-24	12 41	-30	19·0	—
Tashkent	59·6	303	i 10 8	- 1	i 18 12	- 6	e 28·0	44·7
Ekaterinburg	61·2	322	e 10 23	+ 3	18 36	- 2	31·0	38·8
Kucino	73·4	325	—	—	—	—	—	38·5
Makeyevka	77·3	320	—	—	—	—	e 46·0	—
La Paz	147·5	72	20 0	[+ 8]	—	—	—	—

Additional readings: Osaka MN = +6·2m. Tashkent MN = +31·6m., MZ = +37·4m. Ekaterinburg i = +10m.24s. Makeyevka L = +49·0m.

Oct. 31d. 17h. 41m. 15s. Epicentre 7°·0S. 147°·0E.

A = -·833, B = +·541, C = -·122; D = +·545, E = +·839;
G = +·102, H = -·066, K = -·993.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	19·0	279	i 4 24	- 5	i 8 15	+13	—	—
Sydney	27·1	172	10 57	?S	(10 57)	+14	15·6	16·8
Adelaide	29·0	194	e 6 13	- 5	i 11 13	- 4	13·9	20·2
Manila	33·7	312	(e 7 20)	+18	—	—	—	—
Perth	38·3	226	—	—	i 13 35	- 7	i 20·6	21·4
Batavia	39·9	270	e 8 1	+ 7	—	—	—	—
Zi-ka-wei	45·4	330	e 8 17	-19	e 15 10	-10	—	—
Phu-Lien	48·5	308	—	—	12 45?	?	—	—
Irkutsk	69·5	335	e 11 11	- 3	20 9	-11	e 32·8	—
Tashkent	85·6	314	e 12 39	-12	e 23 3	[+ 3]	e 44·8	54·3
Ekaterinburg	93·8	328	e 13 6	-31	e 23 54	[+ 3]	41·8	54·9
Makeyevka	107·8	320	—	—	—	—	60·8	—
Copenhagen	119·5	332	—	—	—	—	—	69·8
De Bilt	125·1	332	—	—	—	—	e 67·8	—
Florence	126·7	320	19 44	[+34]	—	—	—	—
Ottawa	126·8	35	—	—	—	—	e 61·8	—
La Paz	138·0	124	e 19 31	[- 5]	—	—	—	—

Additional readings and note: Manila reading has been increased by 12m. Batavia iE = +9m.16s. = PR₁-5s. Irkutsk eSR₁ = +27m.59s. Tashkent iSR₁ = +28m.38s. Ekaterinburg e = +31m.3s. = SR₁-17s.

Oct. 31d. 23h. 29m. 45s. Epicentre 39°·0N. 78°·0E.

A = +·162, B = +·760, C = +·629; D = +·978, E = -·208;
G = +·131, H = +·616, K = -·777.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	7·0	292	i 1 48	+ 2	i 3 34	+24	—	4·3
Dehra Dun	8·7	180	3 52	?S	(3 52)	- 4	(5·5)	—
Ekaterinburg	21·1	333	i 4 54	0	8 42	- 4	i 10·7	12·4
Baku	21·6	283	—	—	e 9 14	+17	e 12·2	—
Irkutsk	22·5	45	—	—	e 9 31	+16	13·2	14·8
Tiflis	25·3	287	e 5 38	- 3	e 10 8	- 1	e 14·2	16·0
Phu-Lien	30·5	118	—	—	—	—	15·2	—
Kucino	31·2	315	—	—	e 11 57	+ 3	15·2	18·6
Pulkovo	36·2	321	—	—	e 16 49	?SR _a	19·2	21·7
Upsala	42·5	320	—	—	—	—	e 22·6	25·0
Copenhagen	45·5	314	—	—	—	—	23·2	—
Cheb	48·5	307	—	—	—	—	e 28·2	29·0
De Bilt	50·4	310	—	—	—	—	e 27·8	32·0

For Notes see next page.

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NOTES TO OCT. 31d. 23h. 29m. 45s.

Additional readings: Tashkent i = +1m.57s., +2m.13s., +2m.43s., and +2m.51s., MZ = +4.2m., MN = +14.0m. Dehra Dun gives S as P and L as S; also L = +16.7m. Ekaterinburg MNZ = +12.2m. Irkutsk e = +12m.7s. Tifis eN = +5m.50s., PR₁E = +6m.14s., PR₁N = +6m.17s., PR₂E? = +6m.27s., eSR₁E = +11m.23s., eSR₂E? = +11m.54s., eSR₂N? = +11m.57s., MN = +18.9m. Kucino MN = +18.3m. Upsala ME = +25.6m. De Bilt MZ = +32.1m.

Oct. 31d. Readings also at 3h. (Sitka and Victoria), 5h. (Tifis), 9h. (Florence and Mizusawa), 14h. (near La Paz), 17h. (Venice), 19h. (Feldberg), 21h. (near Toyooka), 22h. (Ekaterinburg and Tashkent).

Nov. 1d. Readings at 0h. (Wellington), 1h. (Ekaterinburg and near Mizusawa), 3h. (Barcelona), 9h. (Zagreb), 10h. (Ekaterinburg, La Paz, and Sucre), 13h. (Victoria), 14h. (Tifis), 20h. (Riverview and Tashkent), 21h. (Ekaterinburg and Wellington).

Nov. 2d. 6h. 9m. 38s. Epicentre 20° 7S. 69° 0W. (deduced from 20° 4S. 69° 5W. given by Sucre).

A = +.335, B = -.873, C = -.353; D = -.934, E = -.358;
G = -.127, H = +.330, K = -.935.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sucre	3.9	65	10 58	- 3	11 43	- 4	1.9	2.3
La Paz	4.3	12	11 8	+ 1	11 59	+ 1	2.1	3.4
Santiago	12.8	186	e 3 9	- 1	(5 45)	+ 6	5.8	—
La Plata	17.2	148	4 4	- 3	7 22	0	8.7	—

No additional readings.

Nov. 2d. 21h. 6m. 12s. Epicentre 5° 9S. 102° 9E. (given by Strasbourg).

A = -.222, B = +.970, C = -.103; D = +.975, E = +.223;
G = +.023, H = -.100, K = -.995.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	3.9	95	11 21	+20	11 58	+11	—	—
Malabar	4.9	106	1 1	-15	1 50	-24	—	—
Colombo	26.3	299	5 7	-44	10 7	-21	14.3	19.4
Phu-Lien	27.0	8	e 5 39	-19	10 18	-23	13.0	—
Manila	27.2	41	e 6 1	+ 1	—	—	—	18.8
Perth	28.7	157	e 11 8	18	(e 11 8)	- 4	e 14.3	—
Kodalkanal	30.1	304	14 42	1L	—	—	18.0	22.0
Hong Kong	30.3	21	5 55	-36	—	—	—	19.5
Bombay	38.6	311	7 33	-10	13 28	-18	e 20.3	—
Zi-ka-wei	41.1	25	e 7 41	-23	e 13 43	-39	—	24.8
Adelaide	43.9	137	e 14 24	18	(e 14 24)	-37	e 21.9	27.5
Simla	44.5	329	—	—	—	—	e 18.2	—
Osaka	50.9	35	9 43	+31	(16 5)	-25	16.1	16.9
Riverview	52.6	130	—	—	—	—	—	38.2
Sydney	52.6	130	24 6	1L	—	—	30.7	33.8
Tashkent	56.3	330	19 35	-13	117 23	-15	e 24.8	40.4
Irkutsk	58.2	1	9 51	- 9	—	—	e 31.2	38.7
Baku	67.1	320	11 16	+17	119 51	0	e 33.1	43.5
Tifis	71.1	319	11 22	- 2	20 37	- 2	e 37.8	45.4
Ekaterinburg	71.6	337	11 24	- 3	120 40	- 5	e 31.8	39.6
Wellington	72.6	131	—	—	—	—	e 41.7	—
Ksara	74.6	309	11 47	+ 1	21 23	+ 2	—	—
Makeyevka	78.1	322	e 12 1	- 7	121 24	-37	39.3	52.2

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.
Kucino	81.3	329	—	—	—	—	38.4	—
Pulkovo	86.5	331	12 38	-18	e 23 16	-20	45.8	57.6
Zagreb	92.0	316	e 13 14	-13	—	—	—	—
Pompeii	92.6	311	e 13 36	+ 6	—	—	—	—
Copenhagen	95.1	326	—	—	—	—	49.8	—
Feldberg	97.4	320	—	—	—	—	e 57.0	—
De Bilt	99.4	322	—	—	—	—	e 59.8	—
Ottawa	E. 140.5	358	—	—	—	—	e 74.8	—
Sucre	152.5	205	20 2	[+ 2]	—	—	—	—
La Paz	155.9	201	e 20 14	[+11]	—	—	—	—

Additional readings: Batavia iP = +1m.22s., iE = +1m.27s., iN = +1m.28s., iZ = +1m.29s., iSE = +2m.9s., Adelaide S = +20m.27s., MN = +24.3m., Riverview e = +22m.36s. = SR₂ + 7s. Tashkent eSR₂ = +21m.48s. = SR₁ - 16s., MN = +30.1m., MZ = +30.6m., Irkutsk MZ = +37.0m., MN = +37.2m., Tifis eE = +11m.36s., PR₁E = +14m.3s., PR₂E = +15m.51s., PSE = +21m.19s., MN = +51.9m., Ekaterinburg i = +11m.37s. and +21m.47s. = [S] + 24s., e = +25m.13s., Ksara PR₁ = +14m.47s.; T₂ = 21h.6m.11s., Pulkovo MN = +54.1m., MZ = +55.7m., Zagreb eNE = +13m.19s., Ottawa eLN = +82.8m.

Nov. 2d. 22h. 56m. 25s. Epicentre 28°-0N. 127°-0E. (as on 1926 Sept. 9d.).

A = -.531, B = +.705, C = +.470; D = +.799, E = +.602;
G = -.283, H = +.375, K = -.883.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	5.3	27	e 1 30	+ 8	2 38	+13	3.3	5.1
Taihoku	E. 5.7	240	e 1 43	+15	—	—	—	—
Zi-ka-wet	5.8	305	e 1 32	+ 2	3 8	+29	—	5.0
Hukuoka	6.3	27	1 25	-11	2 36	-16	—	4.4
Sumoto	9.2	45	e 1 53	-26	—	—	3.3	—
Osaka	9.8	45	0 42	-105	—	—	2.8	7.2
Hong Kong	12.9	247	3 8	- 4	—	—	—	9.2
Manila	14.6	204	e 4 4	+30	—	—	—	—
Phu-Lien	19.9	253	4 35	- 5	—	—	9.6	—
Irkutsk	29.5	331	e 7 43	+80	e 12 43	+77	18.2	21.2
Tashkent	48.4	302	—	—	—	—	e 24.2	35.3
Ekaterinburg	54.0	323	e 10 20	+47	—	—	25.6	35.8
Baku	63.0	304	—	—	—	—	e 34.7	—
Sydney	E. 66.0	158	35 17	?L	—	—	39.5	40.2
Tifis	E. 66.3	307	e 13 20	?PR ₁	—	—	e 39.4	42.0
Kucino	66.6	323	—	—	—	—	34.7	—
Makeyevka	68.9	315	—	—	—	—	40.1	—
Pulkovo	69.3	329	—	—	—	—	e 40.6	45.5
Copenhagen	79.5	329	—	—	—	—	44.6	—
De Bilt	85.2	328	—	—	—	—	e 46.6	—

Additional readings and note: Osaka MN = +6.6m. Irkutsk MZ = +21.3m. P and S are given as simply e. Tashkent eL = +27.1m. Ekaterinburg e = +21m.37s. = SR₁ + 13s., MN = +31.8m., MZ = +38.0m. Tifis eLN = +39.0m.

Nov. 2d. Readings also at 0h. and 1h. (near Belgrade), 2h. (Taihoku and near Sumoto), 3h. (Tifis), 5h. (Apia (2) and Manila), 6h. (Manila, Tashkent, and near Tacubaya), 10h. and 16h. (La Paz), 18h. (Sucre), 19h. (La Paz, Ekaterinburg, Tashkent, near Mizusawa, and Ootomari), 21h. (La Paz, Sucre, and Irkutsk).

Nov. 3d. Readings at 3h. (Santiago), 4h. (Tifis), 5h. (near Tacubaya), 6h. (Tashkent and near Manila), 8h. (Bombay, Ekaterinburg (2), Irkutsk, Phu-Lien (2), Pulkovo, Tashkent (2), Malabar, and near Batavia), 12h. (Batavia), 13h. (near Tacubaya (2)), 18h. (Fordham), 21h. (near La Paz (2) and Sucre (2)), 23h. (Feldberg and Florence).

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Nov. 4d. 13h. 50m. 51s. Epicentre 34° 9N. 121° 0W.

(as given by De Bilt).

A = -422, B = -703, C = +572; D = -857, E = +515;
G = -295, H = -490, K = -820.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Lick		2-5	348	0 50	+11	i 1 39	+30	—	1-9
Berkeley	E.	3-2	340	e 0 58	+ 8	i 1 39	+11	—	2-2
	Z.	3-2	340	e 0 57	+ 7	i 2 2	+34	—	2-6
Tucson	E.	8-8	104	i 2 18	+ 5	i 4 5	+ 7	—	6-6
	N.	8-8	104	i 2 17	+ 4	i 4 6	+ 8	—	8-0
Victoria		13-6	353	3 27	+ 6	—	—	6-5	9-3
Denver	E.	13-6	65	e 3 31	+10	i 6 15	+17	e 7-4	9-6
	N.	13-6	65	e 3 33	+12	i 6 15	+17	e 7-2	8-4
Chihuahua		14-1	112	5 9	+102	7 53	+103	8-2	10-6
Mazatlan		17-2	129	(4 11)	+ 4	(7 28)	+ 6	(8-7)	(12-0)
Saskatoon		20-0	26	i 4 28	-13	i 8 12	-11	i 10-2	15-0
Guadalajara		20-9	128	5 59	+67	10 6	+84	11-4	14-3
Sitka		24-2	341	5 33	+ 3	i 9 59	+11	14-7	20-6
		24-2	341	5 37	+ 7	—	—	14-4	17-2
Tacubaya		24-7	123	5 16	-19	9 58	+ 1	11-8	16-0
St. Louis		24-8	72	i 5 34	- 2	e 9 58	- 1	i 11-5	15-3
Chicago		26-9	65	i 5 52	- 5	i 10 26	-13	—	—
Vera Cruz		27-0	119	(5 20)	-38	(10 18)	-23	(12-4)	(17-2)
Cincinnati		29-2	71	i 6 8	-12	i 11 23	+ 3	i 14-2	—
Ann Arbor		29-8	64	i 6 15	-11	i 11 15	-16	e 14-4	—
Merida		30-8	109	6 37	+ 1	11 40?	- 8	13-9	26-6
Toronto	E.	33-0	60	i 6 44	-12	i 12 0	-24	15-3	20-8
	N.	33-0	60	—	—	i 12 1	-23	14-7	19-5
Ithaca		35-1	62	—	—	12 40	-17	—	22-2
Honolulu T.H.		35-2	258	i 7 7	- 8	i 12 48	-10	14-6	—
Ottawa		35-6	59	i 7 7	-11	i 12 49	-15	i 17-1	25-6
Fordham	E.	37-2	67	i 7 30	- 2	i 13 10	-17	i 17-5	20-2
Port au Prince		45-9	97	e 17 33	?S	(e 17 33)	+126	e 28-1	31-7
San Juan	E.	51-0	94	e 11 17	+124	e 17 59	+88	e 30-8	33-2
Apia		68-5	234	11 15	+ 7	20 24	+16	31-0	33-2
Ootomari		69-2	313	11 22	+10	(20 32)	+16	20-5	—
La Paz		71-8	126	e 11 32	+ 4	i 20 47	- 1	37-6	46-8
Azores		73-1	55	21 33	?S	(21 33)	+30	46-4	47-0
Mizusawa	E.	74-1	307	11 51	+ 8	21 37	+22	31-4	—
	N.	74-1	307	11 54	+11	21 27	+12	31-4	—
Dyce		74-5	29	e 11 54	+ 8	21 29	+ 9	34-8	42-0
Edinburgh		75-0	30	11 48	- 1	21 37	+11	37-2	43-6
Bergen		75-1	24	11 51	+ 1	—	—	38-2	44-2
Sucre		75-5	126	11 53	+ 1	i 21 37	+ 5	40-3	55-8
Stonyhurst		76-6	33	i 12 1	+ 2	21 41	- 3	36-6	45-5
Bidston		76-6	32	21 56	?S	(21 56)	+12	37-2	47-2
Suva		78-2	237	12 3	- 5	21 33	-29	36-6	38-6
Oxford		78-6	34	i 12 17	+ 6	i 22 17	+10	36-8	48-0
Upsala		79-3	20	e 12 13	- 2	e 22 20	+ 5	e 39-2	50-2
Kew		79-4	33	e 12 19	+ 4	i 22 26	+10	36-2	41-3
Toyooka		80-2	307	12 27	+ 7	22 38	+13	e 34-4	34-9
Osaka		80-4	306	12 27	+ 6	22 16	-12	36-0	44-9
Kobe		80-5	306	e 12 27	+ 5	(e 22 34)	+ 5	(e 33-7)	38-7
Sumoto		80-9	306	e 10 12	-132	e 23 24	?PS	e 33-3	—
Helsingfors	E.	80-9	15	12 31	+ 7	i 22 43	+ 9	39-2	42-4
	N.	80-9	15	12 33	+ 9	22 44	+10	—	48-2
	Z.	80-9	15	i 12 29	+ 5	—	—	—	—
Copenhagen		81-0	24	12 32	+ 7	22 45	+10	39-2	50-5
De Bilt		81-1	30	e 12 30	+ 4	22 48	+12	e 38-2	47-5
Uccle		81-7	31	i 12 34	+ 5	i 22 50	+ 7	e 39-2	45-9
Hamburg		81-8	26	e 12 30	+ 1	e 22 57	+13	e 38-2	45-2
Pulkovo		82-4	13	i 12 38	+ 6	22 59	+ 9	39-2	51-3
Feldberg	E.	83-6	29	e 14 47	+127	i 23 17	+12	e 43-2	46-8
Hukuoka		84-3	308	12 51	+ 7	(23 13)	+ 2	23-2	24-8
Ikutsk		84-3	334	i 12 43	- 1	1 24 3	?PS	44-6	50-4
Konigsberg		84-3	21	—	—	1 23 23	+12	e 39-2	46-2
Paris		84-4	34	i 12 39	- 5	i 22 59	-13	40-2	48-2
Jena		84-6	27	e 12 45	- 1	e 23 9	- 6	e 40-2	44-7
Strasbourg		84-9	30	12 48	+ 1	i 23 21	+ 3	39-2	50-4
Beauneon		85-1	33	12 51	+ 2	23 21	+ 1	36-2	46-2
Rio Tinto		85-2	47	13 9?	+20	—	—	—	54-2

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Toledo	85.3	43	e 12 38	-12	e 23 7	-15	e 39.4	51.6
Nagasaki	85.3	308	e 18 38	?PR ₂	—	—	—	—
Hohenheim	85.4	30	—	—	—	—	e 48.2	49.0
Bagnères	85.5	39	e 12 51	0	e 23 21	-4	e 35.2	50.4
Cheb	85.5	27	e 12 56	+5	e 23 26	+1	e 40.2	49.2
Neuchâtel	85.7	32	e 12 52	+0	e 23 25	-2	—	—
Zurich	86.1	31	e 13 6	+1	e 23 26	-5	—	—
Ravensburg	86.2	31	e 12 56	+12	e 23 34	+2	e 41.2	54.4
Prague	86.4	25	e 12 56	+1	e 23 26	-8	e 42.2	50.2
San Fernando	86.4	47	12 49	-6	i 23 28	-6	44.2	52.2
Grenoble	86.5	35	—	—	e 23 28	-8	e 33.2	—
Tortosa	87.2	40	i 13 2	+2	e 23 40	-3	e 38.2	52.4
Malaga	87.2	40	e 13 2	+2	i 23 31	-12	e 38.2	52.7
Granada	87.2	45	e 12 56	-4	e 23 31	-12	33.0	52.5
Innsbruck N.E.	87.4	45	i 13 3	+2	i 23 56	+11	45.0	52.3
Barcelona	87.4	29	—	—	—	—	44.0	—
Kucino	87.5	38	13 13	+11	23 47	0	e 43.5	52.0
Moncallieri	87.6	11	i 12 59	-4	23 19	[+6]	39.2	47.5
Marseilles	87.6	33	12 54	-9	23 20	[+7]	37.6	53.4
Ekaterinburg	87.8	36	e 13 0	-4	e 23 56	+6	e 42.2	54.8
Alicante	88.2	359	i 13 2	-4	i 23 53	-1	36.2	48.9
Almeria	88.3	42	e 12 47	-20	e 23 29	[+12]	37.4	57.4
Vienna	88.3	45	e 13 6	-1	23 54	+4	42.9	55.3
Graz	88.6	26	e 13 6	-1	i 24 5	+0	e 41.2	57.2
Venice	89.2	27	e 13 10	-1	e 23 39	[+16]	45.4	49.0
Laibach	89.2	30	e 14 9?	+58	e 23 39	[+16]	45.4	50.2
Lemberg	89.6	28	e 12 54	-20	e 23 30	[+4]	41.2	52.2
Florence	89.8	21	—	—	—	—	e 49.0	57.0
Budapest	90.1	31	e 13 9?	-8	24 9?	-6	31.2	54.2
Zagreb	90.2	25	e 12 9?	-68	19 9?	?PR ₂	e 45.2	49.6
La Plata	90.4	28	e 13 18	0	e 23 51	[+21]	e 43.8	51.8
Algiers	90.4	28	e 13 18	0	e 23 49	[+19]	e 44.8	54.6
Zi-ka-wei	91.3	134	13 15	-8	—	—	46.8	—
Rocca di Papa	91.4	40	13 13	-10	23 58	?E	41.2	54.6
Belgrade	91.7	311	i 13 23	-2	25 39	?PS	47.2	59.2
Pompeii	92.4	32	13 25	-4	1 24 3	?E	e 47.0	82.4
Makeyevka	93.0	25	e 13 29	-3	e 24 35	-10	e 44.4	50.9
Wellington	94.0	31	e 13 55	+17	e 24 25	?E	—	54.2
Tiflis	95.0	14	e 13 38	-5	24 17	[+20]	45.2	61.1
Manila	96.3	222	14 54	+63	1 25 20	+1	43.9	56.7
Hong Kong	96.3	222	14 26	+35	1 25 12	-7	44.9	48.0
Tashkent	102.3	10	e 14 19	-3	e 25 21	?E	e 45.2	55.4
Baku	102.3	10	e 14 9	-13	e 25 22	?E	e 44.2	60.9
Riverview	102.5	309	14 14	-9	—	—	—	—
Sydney	103.2	299	e 11 9?	—	—	—	39.2	—
Ksara	103.2	353	14 12	-14	1 26 40	+14	e 47.0	58.5
Phu-Lien	104.3	6	—	—	1 25 3	[+19]	—	—
Helwan	107.0	240	—	—	—	—	e 48.8	54.3
Simla	107.0	240	18 33	[+21]	23 9	?PS	51.2	53.8
Melbourne	107.9	20	18 9	[-6]	—	—	56.2	—
Adelaide	108.3	313	—	—	e 28 26	?PS	47.2	—
Hyderabad	110.2	25	e 19 19	?PR ₁	28 51	?PS	—	67.0
Bombay	111.8	343	e 26 45	?S	(e 26 45)	-59	—	—
Batavia	113.4	239	i 18 57	[+25]	1 29 3	?PS	1 55.4	63.2
Kodaikanal	116.9	244	e 17 52?	[-52]	e 29 46	?PS	e 54.3	89.5
Perth	124.5	337	21 19	?PR ₁	—	—	—	72.6
Colombo	124.6	343	e 18 46	[-19]	31 1	?PS	59.1	78.8
Cape Town	127.6	291	e 20 33	?PR ₁	—	—	e 59.2	—
Johannesburg	131.6	336	35 27	?E	—	—	79.0	80.0
	133.1	256	e 23 1	?E	25 9?	?PR ₂	—	70.2
	133.8	330	(19 30)	[+3]	19 30	?P	75.0	76.5
	146.8	97	19 55	[+4]	—	—	—	94.8
	152.1	80	—	—	—	—	—	87.2

Additional readings and notes: Lick ePEN = +52s., iP* = +54s., iPEN = +1m.2s., iZ = +1m.5s., iSZ = +1m.42s. Berkeley iP*Z = +1m.2s., iP*E = +1m.3s., iP*N = +1m.4s., iPN = +1m.10s., iPE = +1m.14s., iPZ = +1m.15s. iSEN = +2m.0s. Denver iPN = +3m.53s., iPE = +3m.55s., iE = +4m.13s. +4m.20s., +5m.3s., +5m.55s., and +6m.37s., iN = +4m.49s., +6m.41s., and +6m.49s., iEN = +6m.29s. Saskatoon MN = +13.0m.; T₁ = 13h.50m.39s. Mazatlan readings have been diminished by 3 min. St. Louis iPR₁E = +5m.57s., iPR₂E = +6m.9s., eEN = +9m.42s., iSE = +10m.9s., iSR₁EN = +10m.41s., MN = +13.8m. Vera Cruz readings have

Continued on next page.

been increased by 2m. Ann Arbor ePE₁ = +7m.3s., iSR₁ = +12m.45s.; T₀ = 13h.50m.36s. Toronto PR₁E = +7m.45s., iE = +12m.26s. and +12m.48s.; T₀ = 13h.50m.55s. Honolulu T.H. eN = +12m.29s. Ottawa iPR₁E = +8m.16s., iPR₁N = +8m.39s., iSR₁ = +14m.36s., iN = +15m.17s., MN = +20.4m.; T₀ = 13h.50m.47s. Fordham iE = +8m.35s. = PR₁ - 13s., +15m.42s. = SR₁ - 6s., +16m.24s. = SR₁ - 3s., and +16m.44s. = SR₁ + 4s.; T₀ = 13h.50m.47s. San Juan eLN = +23.2m., MN = +32.2m. Apia SN = +20m.33s.; T₀ = 13h.50m.43s. La Paz iPE = +11m.34s., PR₁ = +14m.17s., PR₂ = +16m.54s. = PR₁ - 12s., iSE = +20m.52s., iSN = +20m.54s., PS = +21m.37s., PPS = +22m.7s., SR₁ = +26m.14s., SR₂E = +29m.9s., SR₂ = +29m.32s., SR₃ = +31m.32s., MN = +54.0m. Azores S = +33m.9s. Dyce PR₁? = +16m.19s., SR₁ = +26m.29s. Edinburgh SR₁ = +26m.29s. Sucre i = +11m.58s., PR₁ = +15m.16s., i = +21m.51s. = [S] - 2s., iPS = +22m.10s., iPPS = +22m.45s., SR₁ = +26m.21s., SR₂ = +29m.57s.; T₀ = 13h.50m.48s. Stonyhurst eP₀P? = +12m.29s., iPR₁ = +14m.59s., PR₁? = +17m.1s., PR₂ = +18m.0s., S₀S? = +22m.46s., iSR₁? = +26m.39s., SR₂? = +30m.18s. Bidston readings have been increased by 1h. Suva ePN = +12m.21s., PR₁N = +16m.9s., SR₁N = +30m.45s.; T₀ = 13h.51m.9s. Oxford SR₁E = +27m.25s., SR₂E = +27m.37s., MN = +45.6m. Uppsala SR₁ = +27m.31s., SR₂E = +31m.43s. Kew iZ = +12m.22s., PR₁ = +15m.18s., iPS = +23m.11s., SR₁ = +27m.59s., SR₂ = +31m.44s., SR₃ = +34m.39s., MZ = +43.4m., MN = +43.6m. Kobe P, S, L, are all given as P of separate shocks. Helsingfors PR₁E = +15m.43s., PR₁N = +15m.44s., PR₂E = +17m.20s., SR₁E = +28m.9s.?, iSR₁N = +31m.9s.?, Copenhagen PR₁ = +15m.33s., SR₁ = +27m.33s., SR₂ = +31m.33s., MN = +48.8m. De Bilt iZ = +12m.33s., ePR₁ = +15m.37s., eSR₁ = +26m.0s., MN = +46.9m., MZ = +49.0m. Uccle PR₁ = +15m.43s. Hamburg iPZ = +12m.33s., iPR₁Z = +15m.44s., iSN = +23m.1s. = Σ - 3s. Pulkovo PR₁ = +15m.54s., SR₁ = +27m.39s., SR₂ = +30m.9s., MZ = +42.6m., MN = +51.5m. Feldberg eE = +20m.19s. and +28m.24s., MN = +50.4m. Irkutsk iPR₁ = +16m.30s., iPR₂ = +18m.26s., SR₁ = +29m.23s., MZ = +50.5m., MN = +57.5m. Paris MN = +49.2m. Jena ePE = +12m.51s. and +12m.55s., eSE = +23m.24s. Σ + 3s. Strasbourg iRR₁ = +16m.9s., PR₂ = +18m.9s., MN = +49.3m., MZ = +55.4m. Toledo iPNW = +12m.42s., iSE = +23m.19s., MNW = +51.8m., MZ = +53.3m. Hohenheim eN = +44m.9s., MN = +51.2m. Ravensburg MN = +50.1m. Prague PR₁ = +16m.19s. +16m.19s. Granada PR₁ = +17m.2s., SFS = +23m.27s., i = +24m.6s., PS = +25m.1s., G = +38m.12s. Barcelona MN = +50.2m. Kucino PR₁ = +16m.31s., SR₁ = +29m.41s., SR₂ = +33m.39s., e = +33m.50s., MN = +48.8m. Moncalieri MN = +52.9m. Ekaterinburg e = +13m.45s., i = +16m.6s., +18m.30s., and +29m.27s. iS₁P₂S = +23m.35s. = [S] + 19s., iPS = +24m.58s., MN = +48.8m., MZ = +53.2m. Alicante MN = +54.4m., MZ = +59.5m. Almeria PR₁ = +17m.1s., MN = +45.8m. Vienna iPZ = +13m.9s., iENZ = +15m.17s., PR₁ = +16m.42s., S₀P₀S = +23m.35s. = [S] + 16s., iPS = +25m.5s., PPS = +26m.19s., SR₁ = +30m.11s., SR₂? = +33m.27s. Graz MN = +54.4m. Venice eP = +14m.5s.?, Laibach i = +24m.21s. = S + 11s. Lemberg eLN = +48.8m., MN = +55.4m. Zagreb e = +24m.19s. = S + 1s. Algiers MN = +49.2m. Zi-ka-wei PR₁ = +17m.6s., PR₂ = +19m.17s., SR₁ = +30m.59s., SR₂ = +37m.37s. = SR₁ + 3s. Makeyevka PR₁ = +17m.25s., PPS = +26m.13s., SR₁ = +31m.25s., MN = +55.8m., MZ = +59.7m. Wellington iPR₁N = +17m.32s., iPR₁E = +17m.34s., SR₁N = +31m.14s., SR₁E = +31m.54s., iSR₁N = +35m.35s. Tiflis ePR₁E = +18m.19s., PR₁N = +18m.21s., ePR₁E? = +20m.38s., PR₂N? = +20m.39s., eE = +24m.51s. = [S] + 16s., eN = +24m.52s. = [S] + 17s., +27m.2s., +27m.39s. = PS - 9s., and +41m.5s. = SR₂ + 10s., e = +32m.47s., and +36m.56s., eSR₁N = +38m.30s. Tashkent iS₁P₂S = +24m.52s. = [S] + 13s., iS₁P₂P₂S = +26m.3s., iPS = +27m.38s., iPPS = +28m.14s., iPS = +33m.26s., SR₁ = +37m.52s., MN = +54.2m. Baku iPR₁ = +18m.39s., iPS = +27m.57s. Riverview ePR₁ = +19m.0s., ePS = +28m.21s., iPS = +29m.22s., eSR₁ = +34m.22s., eLN = +46.2m., MN = +50.4m. Sydney SR₁E = +33m.27s. Ksara PR₁ = +28m.36s. = PS + 1s. Phu-Lien ePR₁ = +19m.8s., eSR₁ = +34m.9s.?, Simla ePE = +29m.21s. = PS + 3s. Melbourne i = +35m.39s. = SR₁ + 15s. Adelaide MN = +61.4m. +7m.10s.

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Nov. 4d. 18h. 47m. 25s. (I) } Epicentre 34°-9N. 121°-0W. (as at 13h.).
 20h. 0m. 42s. (II)
 20h. 44m. 6s. (III)

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
I	Lick	N.	2-5 348	e 0 33	- 6	e 1 7	- 2	i 1-7	—
II		E.N.	2-5 348	i 0 34	- 5	i 1 12	+ 3	—	—
II		Z.	2-5 348	e 0 38	- 1	e 1 13	+ 4	e 1-6	—
III		E.	2-5 348	e 0 34	- 5	i 1 3	- 6	i 1-2	—
III		N.	2-5 348	e 0 31	- 8	i 0 58	-11	i 1-2	—
I	Berkeley		3-2 340	e 1 32	?S	(e 1 32)	- 4	e 1-8	—
II			3-2 340	e 0 38	-12	e 1 23	- 5	—	—
III			3-2 340	e 1 13	?S	(1 13)	-15	—	—
I	Tucson		8-8 104	—	—	—	—	e 4-4	—
II		E.	8-8 104	e 4 10	?S	(e 4 10)	-12	4-4	5-1
II		N.	8-8 104	e 4 4	?S	(e 4 4)	+ 6	4-7	5-0
III		E.	8-8 104	e 4 26	?S	(e 4 26)	+28	e 4-6	5-3
III		N.	8-8 104	e 4 23	?S	(e 4 23)	+25	4-7	4-7
II	Victoria	E.	13-6 353	6 56	—	—	—	8-1	9-3

A few other unclassified i and e readings are given.

Nov. 4d. Readings also at 0h. (Tiflis and near Sumoto), 1h. (Tashkent), 8h. (Merida), 11h. (Tiflis), 12h. (Vienna), 16h. (Algiers), 17h. (Tucson), 19h. (Berkeley and Taihoku), 20h. (Ekaterinburg, Tashkent, and near Victoria), 21h. (Tiflis), 22h. (Ekaterinburg, Tashkent, and Tiflis), 23h. (Ekaterinburg).

Nov. 5d. 5h. 14m. 38s. Epicentre 37°-0N. 4°-5W. (as on 1927 Oct. 21d.).

A = +.796, B = -.063, C = +.602.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malaga	0-2	166	0 6	+ 2	—	—	0-2	—
Granada	0-8	76	0 8	- 4	0 19	- 3	—	0-4
Almeria	1-7	95	e 0 40	+14	e 0 52	+ 4	—	1-1

Almeria P is given as simply e.

Nov. 5d. 6h. 38m. 0s. Epicentre 27°-0N. 122°-5E.

A = -.480, B = +.751, C = +.454; D = +.843, E = +.537
 G = -.244, H = +.383, K = -.891.

This position lies mid-way between epicentres 26°-3N. 121°-5E. of 1927 June 14d. and 27°-5N., 123°-5E. of 1919 March 10d., neither of which gives a good determination.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	2-2	204	0 51	+17	—	—	1-4	1-5
Zi-ka-wei	4-3	347	i 1 37	+30	2 51	+53	—	—
Nagasaki	8-5	46	i 2 5	- 4	(3 40)	-10	3-7	—
Hong Kong	8-9	240	2 24	+ 9	—	—	—	5-7
Hukuoka	9-4	44	2 20	- 2	(4 10)	- 3	4-2	4-8
Manila	12-5	187	e 2 55	-11	(1 5 41)	+ 9	1 5-7	—
Sumoto	12-9	52	e 3 0	-12	—	—	e 3-3	3-3
Kobe	13-2	51	3 21	+ 5	—	—	—	5-7
Nagoya	14-7	53	e 2 50	-45	3 41	?P	—	3-8
Phu-Lien	15-9	250	i 3 57	+ 6	7 2	+ 9	—	—
Mizusawa	19-6	47	(4 35)	- 1	7 53	-22	—	—
Irkutsk	28-8	337	e 7 6	+50	12 0	+47	14-5	17-1
Batavia	36-5	208	e 7 24	- 2	—	—	—	—
Hyderabad	41-7	269	8 0	- 9	14 16	-15	—	—
Tashkent	45-6	305	i 8 25	-12	i 15 55	+33	1 23-4	25-6
Bombay	46-2	274	8 26	-15	e 16 27	+56	—	—
Ekaterinburg	52-5	324	i 9 23	0	i 17 52	+62	24-0	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	60.3	305	e 10 17	+ 3	e 19 37	+70	23.0	26.4
Tiflis	63.8	308	i 10 38	+ 1	e 20 21	[- 3]	e 27.8	31.6
Kucino	65.0	323	—	—	—	—	e 40.0	—
Makeyevka	66.9	315	—	—	e 20 52	[+ 4]	38.0	—
Pulkovo	68.0	328	i 11 3	- 1	e 21 6	[+ 9]	36.0	—
Copenhagen	78.3	328	—	—	—	—	38.0	—
Vienna	80.1	321	i 12 10	-10	—	—	—	—
Zagreb	81.5	319	e 12 15	-13	—	—	—	—
De Bilt	83.9	327	—	—	—	—	e 47.0	—
Strasbourg	84.8	324	i 12 34	-13	—	—	e 52.0	—
Uccle	85.1	327	12 33	-16	—	—	e 48.0	—
Kew	86.9	330	—	—	—	—	e 49.0	—
La Paz	165.6	45	i 19 58	[-14]	—	—	—	—
Sucre	169.3	43	e 20 0	[-14]	—	—	—	—

Additional readings and notes: Nagasaki S = +3m.8s. Mizusawa readings are given as separate S's. Irkutsk MN = +17.2m., MZ = +17.4m. Tashkent iPR₁ = +9m.49s., ePR₂ = +11m.2s., ePS = +16m.5s., eSR₁ = +18m.51s., eSR₂ = +22m.12s., MZ = +24.7m., MN = +25.4m. Ekaterinburg i = +10m.23s., e = +16m.27s., +20m.4s., and +21m.41s. Baku e = +14m.19s. = PR₂ +13s., MN = +26.7m. Tiflis iE = +11m.47s., eE = +13m.7s., eN = +20m.22s. Makeyevka e = +22m.18s. Zagreb eNW = +12m.19s., eNE = +12m.21s.

Nov. 5d. 21h. 56m. 41s. Epicentre 11°·0N. 57°·0E. (as on 1926 Jan. 5d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hyderabad	21.8	70	5 3	0	9 3	+ 2	11.2	14.5
Ksara	29.9	323	—	—	12 58	?SR ₁	16.8	—
Baku	30.0	349	e 6 28	0	e 11 29	- 5	16.3	—
Tashkent	32.2	17	e 4 19	?	(e 11 19?)	-52	e 11.3	19.2
Tiflis	E. 32.5	343	e 7 49	+56	e 12 7	- 9	e 18.5	20.0
	N. 32.5	343	e 7 48	+55	e 12 3	-13	e 18.6	21.2
Makeyevka	40.3	340	—	—	—	—	24.3	—
Ekaterinburg	45.9	3	e 8 39	0	e 15 23	- 4	26.3	—

Tiflis gives also eE = +13m.26s., eN = +17m.16s., all the readings entered are given as simple e's.

Nov. 5d. Readings also at 1h. (Wellington), 2h. (Tiflis), 3h. (near Berkeley (3), Lick (2), and Tucson (4)), 9h. (Berkeley, Lick, and Tucson), 11h. (Tashkent and near Toyooka), 12h. (Baku, Ekaterinburg, and Kucino), 14h. (near Batavia and Malabar), 15h. (Ekaterinburg, Sucre, and near Toyooka), 19h. (La Paz), 21h. (Tiflis), 22h. (Tashkent and Tiflis), 23h. (near Toyooka).

Nov. 6d. 2h. 39m. 54s. Epicentre 34°·9N. 121°·0W. (as on Nov. 4d.).

A = -.422, B = -.703, C = +.572; D = -.857, E = +.515;
G = -.295, H = -.490, K = -.820.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Berkeley	E. 3.2	340	e 0 52	+ 2	e 1 45	+17	—	3.0
	N. 3.2	340	e 0 48	- 2	e 1 29	+ 1	—	4.1
	Z. 3.2	340	e 0 46	- 4	e 1 29	+ 1	—	4.9
Tucson	E. 8.8	104	e 2 2	-11	(3 56)	- 2	3.9	5.2
	N. 8.8	104	—	—	e 3 40	-18	14.4	5.9
Victoria	E. 13.6	353	6 14	?S	(6 14)	+16	7.9	9.3
	N. 13.6	353	3 12	- 9	—	—	8.0	9.5
Denver	13.6	65	e 3 23	+ 2	e 6 10	+12	e 7.6	7.9
St. Louis	24.8	72	1 5 32	- 4	i 10 0	+ 1	1.13.1	15.4

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		m. s.	°	m. s.	s.	m. s.	s.	m.	m.
Chicago	E.	26.9	65	—	—	e 10 18	-21	15.7	16.7
	N.	26.9	65	—	—	e 13 2	?L	e 15.7	16.9
Cincinnati		29.2	71	—	—	—	—	e 14.1	—
Ann Arbor		29.8	64	—	—	—	—	e 16.6	—
Toronto	E.	33.0	60	—	—	—	—	i 17.3	21.6
Ithaca		35.1	62	—	—	—	—	e 18.1	—
Ottawa		35.6	59	—	—	—	—	e 18.5	21.8
Fordham		37.2	67	—	—	—	—	e 18.1	—
Kew		79.4	33	—	—	—	—	e 45.1	—
Copenhagen		81.0	24	—	—	—	—	e 41.1	—
De Bilt		81.1	30	—	—	—	—	e 45.1	—
Pulkovo		82.4	13	—	—	—	—	e 45.1	—
Feldberg		83.6	29	—	—	—	—	e 44.1	—
Rio Tinto		85.2	47	47 6?	?L	—	—	e 44.1	50.2
Kucino		87.6	11	—	—	—	—	(47.1)	54.1
Ekaterinburg		88.2	359	—	—	e 23 26	[+10]	e 43.4	—
Makeyevka		95.0	14	—	—	—	—	e 47.9	—
Tiflis	E.	102.3	10	—	—	—	—	e 47.6	54.4
	N.	102.3	10	—	—	—	—	e 52.4	64.7
Tashkent		103.2	353	—	—	—	—	e 47.1	57.3
Baku		104.3	6	—	—	—	—	e 52.6	—

Additional readings: Berkeley eE = +1m.6s., eEN = +1m.20s. Tucson eE = +2m.10s. and +3m.4s., eN = +2m.22s. Denver ePE = +3m.24s., eSR₁E = +6m.42s. Chicago iE = +12m.31s. and +14m.1s., eN = +14m.59s. Ann Arbor eN? = +14m.30s., eE? = eN = +15m.24s., eE = +16m.12s. Ottawa e = +15m.18s. = SR₁ + 6s. Makeyevka L = +58.1m.

Nov. 6d. 15h. 34m. 27s. Epicentre 6°7'S. 131°2'E. (as on 1927 June 3d.).

A = -0.654, B = +0.747, C = -0.117; D = +0.752, E = +0.659;
G = +0.077, H = -0.088, K = -0.993.

A depth of focus 0.030 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		m. s.	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	+0.1	4.3	315	i 1 1	-7	1 51	-10	—	—
Malabar	-1.5	23.4	267	4 45	-19	i 8 30	-33	—	—
Manila	-1.5	23.6	335	e 4 57	-9	—	—	i 10.2	—
Batavia	-1.5	24.2	270	i 5 15	+2	i 7 1	?	—	—
Perth	-1.9	29.0	208	i 6 18	+19	i 10 13	-30	e 11.0	12.4
Adelaide	-1.9	29.0	167	i 5 51	-8	i 11 19	+36	i 14.2	18.7
Riverview	-2.2	32.8	149	e 6 31	-3	i 12 42	+58	i 17.6	18.2
Sydney	E.	-2.2	32.8	149	7 51	+77	12 33	+49	17.8
Melbourne	-2.2	33.5	160	—	—	i 12 33	+37	—	20.6
Hong Kong	-2.2	33.5	330	—	—	(11 21)	-35	11.4	—
Phu-Lien	N.	-2.4	36.6	319	e 6 47	-20	e 12 3	-40	14.8
Zi-ka-wei	-2.5	39.0	349	7 15	-11	12 53	-24	17.8	18.8
Osaka	-2.6	41.6	5	9 45	?PR ₁	—	—	16.4	17.4
Colombo	-3.3	53.0	284	8 54	-11	15 54	-21	19.6	22.1
Bombay	-3.7	62.9	296	10 9	+3	18 7	-6	—	—
Irkutsk	-3.7	63.3	343	i 10 12	+3	i 18 30	+12	33.0	—
Simla	E.	-3.7	64.0	310	—	e 18 27	0	—	—
Tashkent	-3.9	74.1	317	i 11 11	-7	i 20 24	-4	e 32.6	45.4
Ekaterinburg	-4.1	85.2	317	i 18 23	-3	i 22 28	-8	40.6	—
Baku	-4.2	87.8	312	i 12 33	-7	i 22 48	-17	e 42.0	—
Tiflis	N.	-4.2	91.8	313	e 12 50	-13	—	—	—
Makeyevka	-4.3	97.1	319	—	—	e 23 36	[-32]	39.6	—
Kucino	—	97.4	325	e 23 33	?[S]	(e 23 33)	[-37]	44.6	50.4
Ksara	N.	—	98.1	304	e 23 35	?[S]	(e 23 35)	[-39]	—
Pulkovo	—	101.3	330	—	—	i 23 55	[-35]	49.6	—
Victoria	E.	—	105.3	42	24 28	?[S]	(24 28)	[-21]	47.8
Copenhagen	—	111.5	328	—	—	e 24 45	[-31]	54.6	—
Feldberg	—	115.8	323	—	—	e 37 10	?	—	60.8
De Bilt	—	116.8	326	—	—	e 29 33?	?PS	e 59.6	—
Almeria	—	128.2	312	i 20 50	?PR ₁	—	—	—	—
Granada	—	128.9	313	i 20 56	?PR ₁	(e 26 33?)	[+25]	e 26.6	—
Ottawa	—	134.8	26	—	—	(39 33?)	?SR ₁	39.6	—

For Notes see next page.

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NOTES TO Nov. 6d. 15h. 34m. 27s.

Additional readings: Batavia iPZ = +5m.16s., iP = +5m.17s., i = +5m.29s. Perth readings have been increased by 4 hours. Adelaide PR₂ = +6m.53s., iSR₂ = +13m.39s., MN = +16.2m. Riverview iZ = +14m.38s. Zi-ka-wei PR₁ = +8m.11s. Osaka MN = +17.2m. Irkutsk PR₂ = +13m.5s., PR₂ = +14m.25s. = PR₂ - 8s. Simla eN = +18m.33s. Tashkent iPS = +21m.3s., MZ = +47.0m., MN = +47.1m. Ekaterinburg i = +13m.0s. and +13m.23s., iPS = +23m.22s., eSR₁ = +27m.57s., e = +29m.20s. Tiflis eE = +12m.51s., e = +13m.50s., eE? = +16m.27s. = PR₁ - 21s. Makeyevka e = +25m.40s. Ksara PE = +23m.45s., SE? = +25m.58s. Pulkovo e = +31m.39s. Copenhagen eE = +28m.57s. = PS + 17s., eN = +29m.15s. = PS + 1s. Feldberg e = +38m.55s. Almeria iZ = +21m.27s. = PR₁ + 9s. Granada i = +21m.34s. = PR₁ + 11s.

Nov. 6d. Readings also at 1h. (near Graz and Vienna), 3h. (Tiflis), 4h. (Ekaterinburg), 5h. (near Zagreb), 6h. (Irkutsk, Balboa Heights, near Mizusawa, and Nagoya), 7h. (Ekaterinburg), 8h. (Chur), 10h. (Irkutsk, Tucson, and near Nagasaki), 11h. (Ekaterinburg and Tucson), 12h. (Amboina), 15h. (La Paz), 16h. (near Sumoto and near Toyooka), 17h. (Tiflis), 18h. (near Lick), 10h. (Apia and near Toyooka), 22h. (near Mizusawa and Nagoya), 23h. (La Paz and Sucre).

Nov. 7d. 0h. 3m. 30s. Epicentre 32°0S., 179°0W. (as on 1927 July 18d.).

A = -.848, B = -.015, C = -.530; D = -.017, E = +1.000;

G = +.530, H = +.009, K = -.848.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		m.	s.	m.	s.	m.	s.	m.	m.
Wellington	E.	10.6	208	12 33	- 5	13 55	-50	—	—
	N.	10.6	208	12 36	- 2	13 52	-53	—	—
Apia		19.3	21	—	—	—	—	—	5.5
Riverview		25.1	258	15 38	- 1	e 10 4	- 1	e 11.7	13.6
Sydney	E.	25.1	258	(6 0)	+21	6 0	?P	13.1	15.9
Adelaide		35.3	254	—	—	i 12 35	-25	17.8?	26.7
Batavia		73.3	273	e 12 54	+76	i 21 36	+30	—	—
Mizusawa	E.	80.2	330	—	—	21 8	-77	—	—
Victoria		94.5	33	24 15	?S	(24 15)	-46	45.8	61.8
La Paz		98.0	115	e 13 44	-16	(24 30)	-66	24.5	27.3
Ottawa		120.9	51	—	—	e 37 30?	?SR ₁	e 57.5	—
Tashkent		125.8	300	i 19 11	[+ 3]	i 34 20	?	e 63.5	74.4
Ekaterinburg		132.7	319	i 19 35	[+11]	—	—	59.5	—
Baku		140.2	295	i 19 59	[+20]	—	—	e 65.0	86.4
Tiflis	N.	144.1	297	e 19 40	[+ 7]	—	—	—	—
Kucino		145.0	322	i 19 54	[+ 6]	—	—	e 64.6	78.5
Pulkovo		146.1	334	i 19 54	[+ 4]	—	—	76.5	—
Makeyevka		147.9	310	i 20 9	[+16]	e 31 30?	?	e 94.5	—
Ksara		150.8	283	20 13	[+16]	21 17	?	22.6	—
Copenhagen		155.0	345	—	—	—	—	74.5	—
De Bilt	E.	159.7	352	—	—	—	—	e 85.5	—
Vienna	Z.	180.0	329	i 20 13	[+ 5]	—	—	—	—
Kew		180.5	3	—	—	—	—	e 80.5	—
Uccle		181.0	353	—	—	—	—	e 87.5	—
Feldberg		181.0	345	—	—	—	—	e 78.0	85.5
Strasbourg		182.7	345	e 24 30?	?PR ₁	—	—	e 56.5	—
Río Tinto		171.5	45	95 30?	?L	—	—	(95.5)	100.5
San Fernando	N.	172.6	51	—	—	—	—	—	85.5
Granada		173.6	35	i 20 24	[+ 8]	—	—	83.5	91.8
Almeria		174.4	28	i 20 23	[+ 7]	—	—	—	—

Additional readings: Riverview MN = +13.9m. Adelaide SR₂ = +16m.9s., MN = +19.2m. Batavia readings are given as simple e and i. Tashkent iP, P, S = +22m.27s., PR₂ = +23m.56s., S, P, P, S = +27m.48s., PS = +31m.8s., i = +33m.35s., +34m.10s., and +34m.32s., eSR₁ = +39m.0s., eSR₂ = +45m.30s.?, MN = +73.0m., MZ = +74.3m. Ekaterinburg i = +20m.0s., iP, P, S = +23m.0s., iS, P, P, S = +28m.54s., ePS = +32m.30s., e = +36m.45s. Baku e = +24m.28s., +37m.32s., and +41m.46s. Tiflis iE = +19m.51s., and +20m.42s., eE = +25m.40s., and +27m.15s. Kucino e = +23m.44s. = PR₁ + 38s., i = +30m.4s., MN = +78.6m. Ksara gives its readings for a local shock, T₁ = 0h.22m.23s. De Bilt eLN = +87.5m. Granada i = +22m.4s. and +25m.54s. = PR₁ - 2s. Almeria i = +20m.49s., +26m.28s. = PR₁ + 28s., and +29m.22s.

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Nov. 7d. Readings also at 0h. (Apia), 1h. (near Lick), 3h. (near Manila), 10h. (Wellington), 15h. (Tiflis), 16h. (Taihoku, Florence, and La Paz), 17h. (Victoria), 18h. (Chur, Neuchatel, and Zurich), 19h. (Riverview and near Toyooka), 20h. (Ekaterinburg).

Nov. 8d. 3h. 10m. 18s. Epicentre 34°0S. 57°0E.

(as on 1927 Oct. 19d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Tananarive	17.3	329	4 20	+11	—	—	—	—
Cape Town	31.7	262	6 48	+4	—	—	15.7	20.6
Kodaikanal	48.3	26	15 54	?S	(15 54)	-4	21.2	25.8
Perth	48.8	105	e 8 42	-17	e 15 42	-22	20.7	23.4
Batavia	53.7	70	i 9 52	+21	i 16 19	-46	26.1	—
Bombay	55.0	19	9 41	+2	17 21	0	28.7	31.4
Hyderabad	55.4	25	9 43	+1	17 21	-5	23.3	30.0
Adelaide	65.2	116	e 10 47	+1	e 19 24	-3	30.7	41.0
Dehra Dun	67.3	20	10 33	-27	(19 27)	-27	19.4	20.4
Simla	67.9	19	—	—	e 19 54	-7	—	—
Helwan	68.3	337	11 9	+3	20 12	+6	—	44.5
Ksara	70.6	341	11 25	+4	20 46	+13	36.7	—
Phu-Lien	72.3	49	e 11 32	0	20 42?	-12	34.2	—
Baku	74.7	355	i 11 51	+4	—	—	36.7	67.5
Riverview	74.9	121	e 11 53	+5	e 21 26	+1	e 34.1	38.7
Sydney	E. 74.9	121	21 18	?S	(21 18)	-7	36.7	38.5
Tiflis	E. 76.5	351	i 12 1	+3	i 12 47	+4	e 33.5	44.5
	N. 76.5	351	i 12 0	+2	i 21 51	+8	e 35.7	45.9
Manila	77.8	64	e 12 6	0	—	—	e 32.4	—
Hong Kong	78.3	53	12 5	-4	21 59	-5	—	45.7
Makeyevka	83.8	349	12 39	-2	22 59	-8	39.7	42.2
Pompeii	84.4	330	e 12 44	0	—	—	—	—
Rio de Janeiro N.	85.2	246	e 13 1	+12	—	—	—	—
Wellington	E. 85.5	139	i 12 49	-2	i 23 11	-14	e 40.2	46.5
	N. 85.5	139	i 12 49	-2	i 23 14	-11	e 40.2	43.8
Belgrade	N. 85.5	336	e 13 49	+58	—	—	—	—
Rocca di Papa	85.9	329	e 12 53	0	—	—	—	—
Algiers	86.8	320	12 58	0	23 29	-10	e 42.7	50.2
La Plata	88.0	229	—	—	—	—	42.0	—
Zagreb	N.E. 88.0	334	e 13 3	-2	e 23 46	-6	—	—
	N.W. 88.0	334	e 13 2	-3	e 23 47	-5	—	—
Florence	88.2	330	e 12 57	-9	23 42	-12	42.7	55.7
Budapest	88.2	337	13 2	-4	23 48	-6	—	—
Zi-ka-wei	89.0	50	13 2	-8	23 51	-12	—	49.1
Graz	89.2	335	i 13 7	-4	i 23 58	-7	54.7	66.9
Almeria	89.8	318	i 13 14	-1	24 19	+7	48.4	54.1
Alicante	89.8	320	e 13 24	+9	e 23 44	-28	—	56.2
Vienna	89.8	335	i 13 9	-6	24 0	-12	e 53.7	64.7
Barcelona	90.7	324	—	—	—	—	51.2	55.1
Moncalieri	90.7	328	13 9	-11	23 29	[-3]	34.0	—
Granada	90.8	317	i 13 17	-3	i 24 26	+4	50.7	54.4
Ekaterinburg	90.9	3	i 13 17	-4	i 24 12	-11	37.7	84.2
Malaga	90.9	317	e 13 18	-3	e 24 26	+3	—	—
Innsbruck	N.E. 91.0	331	13 12	-9	—	—	—	—
Tortosa	N. 91.1	321	e 13 26	+4	e 24 29	+4	e 43.7	52.9
Kucino	91.2	350	e 14 16	+54	25 38	+72	41.7	57.6
Chur	91.4	330	e 13 18	-5	e 23 7	-33	—	—
San Fernando	91.8	315	—	—	24 0	[-20]	—	58.7
Prague	92.1	333	e 13 18	-10	e 24 20	-16	e 49.7	57.7
Zurich	92.2	330	e 13 21	-7	e 23 26	[-15]	—	—
Neuchatel	92.6	329	e 13 24	-6	—	—	—	—
Toledo	92.8	319	e 13 26	-5	e 23 54	[+9]	—	54.4
Cheb	92.8	333	e 13 11	-20	e 23 58	[+13]	e 50.7	63.7
Rio Tinto	92.9	316	30 42?	?SR ₁	—	—	—	62.7
Strasbourg	93.5	330	13 28	-9	e 16 42	?PR ₁	49.7	—
Jena	93.8	334	—	—	—	—	63.7	—
Feldberg	N. 94.5	331	e 17 0	?PR ₁	e 24 9	[+15]	e 46.2	49.7
Paris	95.9	329	e 14 0	+12	e 24 18	[+16]	51.7	59.7
Pulkovo	96.3	348	13 36	-15	23 56	[-8]	45.7	58.8

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.
Hamburg	96.5	335	e 13 41	-11	—	—	e 50.7	—
Uccle	96.6	330	—	—	e 22 42?	?PR ₁	e 46.7	66.2
De Bilt	97.3	332	—	—	e 23 42?	[-27]	e 47.7	62.4
Copenhagen	97.4	338	—	—	e 24 0	[-10]	41.7	68.7
Helsingfors	97.8	346	—	—	e 25 3	?Σ	—	68.7
Kew	99.1	328	e 13 33	-33	e 25 30	-17	48.8	61.4
Upsala	99.3	343	—	—	—	—	e 61.7	—
Oxford	99.7	328	—	—	i 24 37	[+15]	e 46.7	64.7
Edinburgh	103.4	330	—	—	—	—	e 59.7	—
Sucre	103.6	235	e 18 4	[+4]	e 28 24	?PS	49.7	56.8
Dyce	103.9	331	—	—	e 26 6	-26	55.6	70.9
La Paz	107.4	235	18 52	[+39]	i 28 32	?PS	52.7	59.7
Ottawa	142.5	302	e 19 42	[-2]	e 27 42?	?	e 68.7	—
Ithaca	143.0	298	—	—	—	—	83.7	—
Toronto	E. 145.1	299	i 19 47	[-1]	—	—	74.7	—
Cincinnati	E. 148.9	290	e 18 8	[-106]	—	—	—	—
Chicago	E. 151.2	296	e 75 1	?L	—	—	e 78.8	89.8
	N. 151.2	296	e 75 42	?L	—	—	e 81.4	84.8
St. Louis	E. 153.3	289	e 20 16	[+16]	23 50	?PR ₁	e 71.7	75.7
Victoria	E. 165.6	1	25 8	?PR ₁	—	—	69.2	97.3
	N. 165.6	1	24 58	?PR ₁	—	—	80.3	95.4
Tucson	F. 169.7	264	e 20 34	[+19]	e 25 47	?PR ₁	e 88.7	—
	N. 169.7	264	e 20 49	[+34]	e 25 55	?PR ₁	e 96.2	—
Berkeley	Z. 176.1	352	20 22	[+5]	e 26 10	?PR ₁	—	—

Additional readings and notes: Perth PR₁ = +10m.57s. Batavia i = +9m.53s., iZ = +11m.6s., iN = +11m.11s. Adelaide MN = +34.1m. Dehra Dun S = +13m.9s. Simla eN = +15m.6s. Baku MZ = +41.0m., MN = +56.6m. Riverview MN = +40.2m. Tiflis ePR₁? = +14m.49s., ePR₁N? = +16m.49s., eN = +18m.16s. = PR₁ + 15s., ePSE? = +22m.40s., eE = +26m.21s. Hong Kong SR₁ = +26m.54s. Makeyevka PR₁ = +15m.51s., PS = +23m.52s., SR₁ = +27m.37s., MZ = +48.2m., MN = +49.8m. Rio de Janeiro eE = +13m.4s. Belgrade eE = +13m.50s., eN = +16m.52s. = PR₁ + 19s., and +16m.53s. = PR₁ + 20s. Rocca di Papa e = +12m.27s., iSE = +13m.14s., iSN = +13m.17s. Zagreb ePR₁NW = +17m.0s. Zi-ka-wei PR₁ = +16m.32s. Almeria PR₁ = +16m.51s. Alicante MN = +59.8m. Vienna PR₁? = +15m.42s., PR₁ = +18m.55s., PS = +24m.34s., SR₁ = +30m.34s., SR₂ = +33m.31s. Barcelona MN = +61.4m. Ekaterinburg i = +13m.36s., +16m.28s., +24m.38s., +25m.35s., and +26m.29s., eS₁P₁S = +23m.42s., e = +29m.44s., MZ = +63.8m. Tortosa eLE = +48.7m., ME = +52.8m. Kucino PR₁ = +18m.6s., PR₂ = +20m.30s., S₁P₁S = +25m.12s., PS = +26m.36s., SR₁ = +37m.42s., MN = +57.5m. San Fernando MN = +57.2m. Zurich iP = +13m.22s. Toledo MNW = +61.6m. Rio Tinto and Jena readings have been diminished by 1h. Feldberg eN = +19m.14s., +26m.2s. = PS + 0s. and +31m.30s. = SR₁ + 1s. Pulkovo S₁P₁S = +24m.16s., SR₁ = +31m.42s., MN = +54.3m., MZ = +58.0m. Uccle MN = +64.4m. De Bilt MZ = +66.5m., MN = +66.8m. Copenhagen PR₁N = +16m.42s.?, eS₁P₁P₁SN = +24m.18s., eSR₁ = +31m.48s., MN = +63.8m. Helsingfors eN = +27m.42s. ? Kew ePR₁Z = +17m.36s. = [P] - 7s., eEN = +24m.36s. = [S] + 17s., MN = +62.4m., MZ = +68.8m. Oxford MN = +69.2m. Sucre i = +18m.37s. = PR₁ - 1s. La Paz i = +19m.7s. = PR₁ + 5s., PR₂ = +25m.19s. = [S] + 18s., iSN? = +28m.46s. = PS + 17s., SR₁ = +33m.7s., SR₂ = +38m.37s. = SR₁ - 44s. St. Louis P₁S₁P₁SE = +33m.57s., S₁P₁P₁SE = +34m.57s. Tucson eE = +32m.23s. = PR₁ - 26s., eN = +33m.29s. = PR₁ + 32s. Berkeley eE = +20m.46s. = [P] + 31s., +22m.18s., and +24m.57s., eZ = +25m.53s. = PR₁ - 18s.

Nov. 8d. 4h. 1m. 54s. Epicentre 37°5N. 9°0W. (as on 1924 March 2d.).

A = +.784, B = -.124, C = +.609; D = -.156, E = -.988;
G = +.601, H = -.095, K = -.793.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malaga	3.7	101	0 57	-1	(1 42)	0	1.7	—
Granada	4.3	93	1 13	+6	12 10	+12	—	2.4
Toledo	4.5	57	e 1 11	+1	e 2 12	+8	—	—
Almeria	5.3	95	e 1 13	-9	i 2 20	-5	12.4	3.0
Tortosa	8.1	63	e 3 33	?S	(e 3 33)	-7	(e 4.7)	—

Additional readings and note: Granada iP = +1m.17s. Almeria MZ = +3.3m. Tortosa gives S as P and L as S.

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Nov. 8d. Readings also at 2h. (Rocca di Papa), 3h. (Sucre and near La Paz), 5h. (Kew and Tiflis), 8h. (near La Paz), 9h. (Manila), 10h. (Tucson), 12h. (Phu-Lien and Tiflis), 14h. (Sucre and near La Paz), 17h. (Tiflis), 18h. (near Mizusawa), 19h. (Ekaterinburg, Taihoku, Tashkent (2), Tiflis, and near Mizusawa), 22h. (Tashkent), 23h. (Rocca di Papa, Sucre, and near Toyooka).

Nov. 9d. 1h. 5m. 36s. Epicentre 5° 5S. 147° 0E. (as on 1926 August 16d.).

A = -0.835, B = +0.542, C = -0.096; D = +0.545, E = +0.839;
G = +0.080, H = -0.052, K = -0.995.

A depth of focus of 0.040 has been assumed.

	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
				m.	s.	m.	s.	m.	s.	m.	s.		
Amboina	-1.5	18.8	275	i 3	42	-27						11.7	—
Riverview	-2.5	28.6	173	e 8	18	PR ₁						14.9	20.2
Sydney	-2.5	28.6	173	10	42	PS		(10 42)	+18			16.4	17.6
Adelaide	-2.6	30.4	194	e 6	4	-2		e 10 44	-11			13.0	20.6
Manila	-2.8	32.7	310	e 7	24?	+57						i 14.4	—
Perth	-3.3	39.3	225	(e 7 39)	+17		(e 13 24)	+14		(e 16.9)	(20.2)		
Hong Kong	-3.4	42.5	313	9	1	PR ₁		13 27	-26			16.6	18.9
Wellington	-3.5	43.5	149					i 14 21	+14			18.3	—
	-3.5	43.5	149					i 14 24	+17			e 18.1	—
Zi-ka-wei	-3.6	44.1	330	e 7 19	-40			e 16 52	SR ₁				—
Christchurch	-3.6	44.2	153					14 12	-3			26.1	32.1
Phu-Lien	-3.8	47.6	306	7 24?	-60								—
Honolulu T.H. E.	-4.6	60.2	61					e 24 24	SR ₁			e 28.2	29.4
Irkutsk	-4.8	68.2	334	10 38	+4			19 9	+3			30.1	41.5
Bombay	-5.0	76.9	291					e 21 24?	+35				—
Tashkent	-5.3	84.6	312	i 12 8	-7			i 22 6	-9			e 34.4	48.5
Ekaterinburg	-5.5	92.6	327	12 34	-26			23 7	-35			41.4	52.4
Victoria	-5.5	93.9	42	23 19	PS		(23 19)	[-32]				42.3	52.6
	-5.5	93.9	42	23 39	PS		(23 39)	[-12]				37.3	—
Baku	-5.5	99.0	311	e 17 45	[+2]			e 25 39	PS			45.9	58.0
Tiflis	-5.7	102.8	311	e 18 25	[+28]			e 24 35	[-2]			e 54.4	64.3
Kucino	-5.7	105.2	327					e 25 0	[+12]			44.6	59.9
Makeyevka	-5.7	106.7	320					e 24 15	[-40]			50.4	68.1
Pulkovo	-5.8	108.0	333	e 19 47	PR ₁							52.4	64.2
Copenhagen	—	118.2	332					e 36 24?	SR ₁			57.4	73.6
De Bilt	—	123.8	332									e 60.4	—
Strasbourg	—	124.8	327									e 68.4	—
Uccle	—	125.1	331									e 64.4	—
Ottawa	—	125.6	35					e 38 12	SR ₁			e 54.4	—
Kew	—	126.7	335									e 62.4	—
Rio Tinto	—	139.8	327	71 24?	L							(71.4)	—
San Fernando	E.	140.5	325									—	85.4
												—	88.4

Additional readings and note: Riverview MN = +18.4m. Sydney SE = +13m.36s., SR₁E = +14m.42s. Adelaide MN = +19.9m. Perth SR₁ = (+15m.4s.); all readings have been diminished by 5m. Honolulu T.H. eN = +27m.54s. Tashkent ePR₁ = +14m.18s., iPS = +22m.31s., i = +23m.43s. = PS - 18s., eSR₁ = +33m.24s.?, MN = +43.0m. Ekaterinburg e = +15m.29s., MZ = +55.4m. Tiflis eE = +23m.46s., eSE? = +29m.9s., eN = +31m.6s., MN = +77.1m. Kucino e = +31m.42s. and +42m.0s., MN = +51.5m. Makeyevka e = +32m.54s. = SR₁ - 4s., MN = +64.4m., MZ = +69.2m. Ottawa eE = +42m.24s. ? San Fernando MN = +85.9m.

Nov. 9d. Readings also at 6h. (Tiflis (2) and near Toyooka), 7h. (near Nagasaki), 8h. (Suva), 10h. (Tiflis), 12h. (La Paz and Sucre), 14h. (Tiflis), 19h. (La Paz and Santiago), 20h. (Suva).

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Nov. 10d. 3h. 2m. 12s. Epicentre 2°7S. 138°8E. (as on 1926 Oct. 29d.).

$$A = -.752, B = +.658, C = -.047; \quad D = +.659, E = +.752; \\ G = +.035, H = -.031, K = -.999.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	24.7	315	e 3 48	-107	—	—	6.1	—
Batavia	32.0	265	e 8 12	?PR ₁	—	—	—	—
Adelaide	32.3	180	e 7 16	+25	12 3	-10	14.3	17.2
Riverview	33.2	161	(e 6 54)	-4	(e 12 36)	+9	(e 14.0)	(16.3)
Perth	36.4	215	e 12 8	?S	(e 12 8)	-68	19.0	20.6
Zi-ka-wei	37.7	338	e 7 29	-7	e 15 58	?L	(e 16.0)	21.9
Wellington	50.4	145	—	—	—	—	27.8	—
Irkutsk	62.2	338	e 11 35	+69	—	—	e 36.5	—
Tashkent	76.6	315	i 12 1	+2	i 21 48	+4	—	47.7
Ekaterinburg	85.8	327	i 12 55	+3	23 26	-2	45.8	—
Tiflis	E. 94.3	311	e 17 28	?PR ₁	e 24 38	-26	e 55.3	64.6
Victoria	E. 97.2	41	—	—	—	—	44.8	46.5
Kucino	98.3	326	—	—	—	—	58.9	61.4
Makeyevka	99.2	319	—	—	—	—	58.8	—
Pulkovo	101.5	331	—	—	—	—	e 55.8	—
Copenhagen	111.9	331	—	—	—	—	56.8	—
De Blit	117.4	330	—	—	—	—	e 59.8	—
Strasbourg	118.0	325	—	—	—	—	e 67.8	—
Uccle	118.6	330	—	—	—	—	e 59.8	—
Kew	120.5	332	—	—	—	—	e 66.8	—
Ottawa	127.7	30	—	—	—	—	e 62.8	—
La Paz	147.2	126	e 19 50	[- 1]	—	—	—	—

Additional readings and notes: Adelaide MN = +15.0m.; all readings have been diminished by 5m. Riverview iZ = (+7m.1s.), e = (+7m.54s.) = PR₁ - 6s. (+13m.31s.), (+13m.47s.), and (+13m.57s.), eL = (+15.6m.), MN = (+16.5m.); all readings have been diminished by 4m. Perth PR₁ = +12m.53s. = S - 23s., iS = +16m.43s. Tashkent eSR₁ = +30m.42s., MN = +40.1m., MZ = +45.4m. Tiflis eN = +25m.5s. and +40m.51s., eE? = +28m.42s., eLN = +52.3m.

Nov. 10d. 19h. 48m. 24s. Epicentre 36°2N. 137°8E. (given in Geophy. Mag. Tokyo, Vol. 2, No. 1).

$$A = -.598, B = +.542, C = +.591; \quad D = +.672, E = +.741; \\ G = -.438, H = +.397, K = -.807.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	1.0	215	10 31	+16	—	—	0.9	1.0
Osaka	2.5	231	0 44	+5	—	—	1.3	2.1
Toyooka	2.8	255	0 41	-3	—	—	0.7	0.7
Kobe	2.9	235	0 43	-2	(1 21)	+1	1.4	1.4
Sunoto	3.0	241	0 48	+1	(1 27)	+4	1.4	1.5
Mizusawa	E. 3.9	41	0 57	-4	1 43	-4	—	—
	N. 3.9	41	0 56	-5	1 45	-2	—	—
Hukuoka	6.6	249	1 52	+11	(e 2 48)	-12	e 2.8	—
Tashkent	52.3	298	—	—	e 15 41	-67	—	—
Ekaterinburg	53.7	319	—	—	e 16 11	-54	24.6	—
Tiflis	N. 68.8	307	—	—	—	—	e 38.6	—

Tashkent gives also e = +16m.6s.

Nov. 10d. Readings also at 2h. (near Toyooka), 5h. (Baku, Ekaterinburg, and Tiflis), 6h. (Tiflis), 7h. (Baku, Ekaterinburg, Irkutsk, near Tashkent, and near Toyooka), 8h. (Graz and Tiflis), 9h. (Baku and Tashkent), 10h. and 11h. (Tiflis), 14h. (near Toyooka), 15h. (Mizusawa), 16h. (Ekaterinburg, Tucson, near Berkeley, and Lick), 18h. (Taihoku), 21h. (Stonyhurst), 23h. (Apia and Fordham).

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Nov. 11d. 2h. 47m. 44s. Epicentre 35°·7N. 134°·8E. (as on 1927 Oct. 25d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Toyooka	0·2	175	-0 9	-13	—	—	0·1	0·1
Kobe	1·1	163	0 13	-4	—	—	0·6	0·6
Osaka	1·2	154	0 17	-1	(0 33)	0	0·6	1·1
Sumoto	1·4	177	0 21	0	(0 40)	+ 1	0·7	0·7
Nagoya	1·8	107	e 0 25	- 3	(0 53)	+ 2	0·9	—

No additional readings.

Nov. 11d. Readings also at 1h. (Tashkent), 2h. (Stonyhurst), 3h. (Tiflis), 5h. (Ksara and near Tacubaya), 8h. (Tashkent and Tiflis), 12h. (Stonyhurst and near Sucre), 13h. (near Ksara), 15h. (La Paz, Sucre, La Plata, and near Toyooka (2)), 16h. (Baku, Ekaterinburg, Ksara, Tashkent (3), Tiflis, and Victoria), 18h. (near Toyooka), 22h. (Tiflis).

Nov. 12d. 14h. 45m. 40s. Epicentre 33°·5N. 46°·5E. (as on 1920 May 25d.).

A = +·574, B = +·605, C = +·552; D = +·725, E = -·688;
G = +·380, H = +·401, K = -·834.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	7·4	20	e 2 11	+19	1 3 51	+30	—	—
Tiflis	8·3	351	2 28	+22	e 4 0	+15	15·3	6·4
	8·3	351	2 28	+22	e 3 56	+11	15·4	6·2
Ksara	8·8	275	2 33	+20	5 21	+83	7·3	—
Helwan	13·4	259	3 27	+ 9	7 30	+97	—	12·5
Makeyevka	15·8	339	1 4 6	+17	7 11	+21	8·8	11·8
Tashkent	19·6	60	1 6 23	+107	1 10 5	+110	12·0	14·8
Budapest	24·9	312	5 45	+ 8	10 20	+19	e 17·3	—
Ekaterinburg	25·3	18	1 5 47	+ 6	1 10 14	+ 5	13·3	19·1
Simla	25·9	87	—	—	e 10 14	- 6	—	—
Vienna	26·9	312	5 50	- 7	11 10	+31	—	20·3
Graz	27·0	309	e 5 58	0	e 11 18	+37	—	20·4
Rocca di Papa	27·8	297	e 8 28	+142	12 56	+121	—	20·3
Konigsberg	28·0	327	—	—	1 8 34	?	e 11·6	—
Pulkovo	28·3	343	6 13	+ 2	11 6	+ 2	15·3	19·2
Prague	28·7	315	e 6 30	+15	e 11 27	+15	e 19·3	21·3
Cheb	30·0	314	e 6 30	+ 2	e 11 37	+ 3	e 18·3	43·3
Helsingfors	30·2	339	e 6 29	- 1	11 34	- 3	16·3	20·8
	30·2	339	e 6 29	- 1	11 47	+10	16·8	20·8
Potsdam	30·5	318	—	—	—	—	e 14·3	—
Jena	30·7	315	e 7 20?	?PR ₁	—	—	e 13·3	23·8
Zurich	31·6	307	1 6 41	- 2	1 11 57	- 4	—	—
Copenhagen	32·3	324	e 6 48	- 3	12 13	0	e 21·3	23·7
Upsala	32·4	334	—	—	e 11 52	-22	e 18·3	23·3
Strasbourg	32·4	309	e 6 45	- 7	e 12 20?	+ 6	17·3	23·8
Feldberg	32·4	315	—	—	e 12 14	0	e 19·9	22·1
Hamburg	32·7	319	e 6 53	- 1	e 12 20	+ 1	e 19·3	—
Neuchatel	32·7	307	e 6 50	- 4	e 11 48?	-31	—	—
Besancon	33·3	307	e 6 57	- 2	—	—	23·3	—
De Bilt	34·9	315	e 7 14	+ 2	e 12 56	+ 2	e 19·3	26·6
Uccle	35·1	313	e 7 12	- 2	e 12 52	- 5	e 19·3	24·6
Algiers	35·4	288	e 6 57	-20	15 32	?	26·3	32·3
Paris	35·9	309	e 7 19	- 2	—	—	22·3	26·3
Kordakanal	36·7	125	21 26	?L	—	—	(21·4)	—
Tortosa	36·9	295	e 7 20	- 9	e 13 18	- 4	e 23·3	29·2
Kew	38·0	312	e 7 37	- 1	13 37	- 1	20·3	27·2
Oxford	38·7	314	—	—	—	—	16·9	27·9
Stonyhurst	38·7	314	—	—	e 12 36	-72	e 22·9	—
Dyce	40·3	322	—	—	e 14 12	+ 1	—	28·2

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.
Toledo	N.W.	40.5	295	—	—	e 14 10	- 4	—	—
Granada		40.6	290	8 6	+ 6	15 12	+57	22.8	24.6
Edinburgh		40.6	320	—	—	e 12 20?	-115	—	32.3
Colombo		40.7	126	7 20?	-41	16 20?	+123	22.8	27.8
San Fernando	E.	42.8	289	—	—	—	—	—	31.3
Irkutsk		44.9	48	8 27	- 5	15 9	- 5	19.9	29.1
Phu-Lien	N.	54.2	88	—	—	14 20?	?	—	—
Ottawa		85.4	324	—	—	—	—	e 41.3	—
Sucre		118.2	267	—	—	—	—	70.2	73.7
La Paz		119.3	270	—	—	—	—	69.7	74.9

Additional readings: Baku iP = +2m.13s. Tiflis eE = +4m.31s., e = +4m.46s. Ksara LN = +9.3m. Helwan PR₁ = +6m.10s. Makeyevka i = +4m.31s., SR₁ = +8m.4s., MN = +12.3m. Tashkent MN = +15.7m. Ekaterinburg iPR₁ = +6m.29s., i = +10m.27s. and +10m.38s. MNZ = +18.8m. Simla eN = +9m.50s. Vienna iEN = +8m.0s., SR₁ = +13m.15s. Konigsberg eE = +9m.45s., e = +10m.12s., i = +10m.52s., and many i readings, of which the earliest is +12m.38s. Pulkovo MN = +18.8m., MZ = +19.0m. Helsingfors SR₁N = +14m.6s. Copenhagen SR₁ = +14m.26s., eN = +15m.26s., eEN = +16m.14s., eLN = +18.3m., MN = +24.3m. Upsala MN = +22.3m. Strasbourg MZ = +23.5m. Feldberg e = +14m.37s.; readings are all given as e simply. Hamburg eSR₁E = +15m.2s. De Bilt MN = +25.2m. Uccle e = +8m.31s. Kew PR₁ = +9m.11s., SR₁ = +16m.32s., MN = +25.0m., MZ = +29.8m. Oxford MN = +26.0m. Stonyhurst e = +14m.4s. Toledo e = +27m.6s. Irkutsk PR₁ = +10m.12s., PR₂ = +11m.47s., MN = +29.4m., MZ = +31.4m.

Nov. 12d. 21h. 56m. 12s. Epicentre 56°4N. 136°0W. (as on 1927 Oct. 25d.).

A = -398, B = -384, C = +833; D = -695, E = +719;
G = -599, H = -579, K = -553.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Sitka		0.7	29	10 24	+13	10 28	+ 8	10.6	0.6
Victoria	E.	11.1	131	4 39	?S	(4 39)	-18	5.2	6.6
	N.	11.1	131	5 29	?S	(5 29)	+32	6.3	—
Chicago		34.0	96	—	—	—	—	e 18.4	e 18.8
St. Louis		34.8	103	—	—	—	—	e 17.8	19.1
Ann Arbor		35.8	91	—	—	—	—	e 19.4	—
Toronto	N.	37.3	87	—	—	—	—	e 19.2	—
Cincinnati	E.	37.4	95	—	—	—	—	1 22.0	—
Ottawa		38.2	82	—	—	e 17 24	?SR ₁	20.0	—
Ithaca		39.7	86	—	—	—	—	e 21.8	—
Irkutsk		60.6	324	—	—	e 18 27	- 4	29.8	42.6
Edinburgh		61.4	29	—	—	—	—	—	42.3
Pulkovo		63.3	9	e 10 30	- 4	—	—	32.8	—
Copenhagen		65.0	20	—	—	—	—	34.8	—
Ekaterinburg		65.9	352	1 10 55	+ 5	—	—	28.8	—
Kew		66.1	30	—	—	—	—	e 33.2	—
De Bilt		66.9	26	—	—	—	—	e 35.8	—
Strasbourg		70.8	26	—	—	—	—	e 33.8	—
Tashkent		80.0	341	11 42	-37	e 21 48?	-35	e 33.8	40.0
Tiflis	E.	81.9	0	—	—	e 22 28	-17	e 38.8	50.7
Baku		83.1	356	—	—	—	—	e 38.8	—

Additional readings: Sitka iN = +27s. Chicago iLN = +18.2m. St. Louis iN = +17m.57s., eN = +18m.5s., iE = +18m.12s., and +18m.36s. Toronto iN = +19m.37s., iE = +19m.40s., and +19m.58s. Tashkent MN = +44.4m.

Nov. 12d. Readings also at 0h. (Berkeley and near Toyooka), 1h. (Ottawa), 6h. (Tashkent), 9h. (Stonyhurst), 10h. (Zurich and near Chur), 11h. (Pulkovo), 12h. (Copenhagen, De Bilt, Dyce, Edinburgh, Paris, Ottawa, Strasbourg, Pulkovo, and Uccle), 13h. (Baku and Tiflis), 14h. (Batavia), 15h. (Apta, Ekaterinburg, Tiflis, and Ksara), 16h. (Batavia, Baku, Ksara (2), and Tiflis (3)), 17h. (De Bilt, Ksara (2), Tiflis (2), and Tashkent), 18h. (De Bilt and near Mizusawa), 19h. (near Toyooka), 20h. (near Manila), 23h. (Ksara, Ottawa, and Tiflis).

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Nov. 13d. Readings at 1h. (Strasbourg, near Chur, Neuchatel, and Zurich), 3h. (Tashkent and Tiflis), 4h. (Baku, Tashkent, Tiflis (2), and near Zurich and Chur), 5h. (Baku, Ekaterinburg, Ksara (2), Tashkent, and Tiflis (3)), 7h. (Baku, Ksara, and Tiflis), 11h. (Baku, Ksara, and Tiflis), 13h. (near Mizusawa), 14h. (Ksara (2)), 16h. (Baku, Ksara, Tashkent, Tiflis (2), and near Tacubaya), 17h. (La Paz), 18h. (Baku, Ksara (2), Tashkent, and Tiflis), 19h. (Taihoku, Tashkent, and near Tacubaya), 22h. (Baku, Ksara (2), Tashkent, and Tiflis (4)).

Nov. 14d. Oh. 12m. Os. Epicentre 70°-0N. 128°-0E.

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

	Δ	Az.	P.		O-C.		S.	O-C.		L.	M.
			m.	s.	s.	m. s.		s.	m.		
Irkutsk	20·8	224	14	52	+ 1		8	30	-10	9·0	15·9
Ekaterinburg	30·8	280	16	33	- 3		1	11	36	-12	—
Mizusawa	31·6	180	6	24	-19		14	0	?SR ₁	16·6	—
Toyoooka	34·6	169	e 10	36	?S		(e 10 36)		-133	17·5	21·4
Nagoya	35·1	167	e 6	58	-16		—		—	18·8	—
Osaka	35·5	169	6	22	-56		12	45	-18	19·2	20·4
Sumoto	35·9	170	e 7	11	-10		—		—	e 21·1	22·1
Hukuoka	36·4	176	e 16	0	?SR ₂		—		—	e 20·6	23·1
Nagasaki	37·3	177	e 21	21	?L		—		—	22·5	—
Pulkovo	38·0	305	i 7	27	-11		13	18	-20	19·0	26·2
Zi-ka-wei	39·0	188	i 7	39	- 7		(13 41)		-11	24·1	26·2
Kucino	39·1	295	i 7	48	+ 1		i 13	47	- 6	20·3	24·3
Helsingfors	N. 39·1	309	7	37	-10		13	32	-21	20·0	23·5
	Z. 39·1	309	i 7	36	-11		13	33	-20	—	21·7
Sitka	N. 39·9	58	—	—	—		—		—	e 22·2	—
Tashkent	41·0	259	i 7	58	- 5		i 14	11	-10	—	—
Upsala	41·2	314	i 7	52	-13		i 14	4	-20	e 22·0	26·3
Bergen	43·5	322	10	35	?PR ₁		—		—	—	28·0
Konigsberg	N. 44·9	309	i 8	21	-11		e 15	1	-13	e 21·7	28·0
	Z. 44·9	309	i 8	24	- 8		e 15	3	-11	e 21·5	25·5
Taihoku	N. 45·1	188	e 24	49	?L		27	29	?P	30·0	—
Makeyevka	45·7	290	i 8	33	-55		15	16	- 8	21·5	27·6
Copenhagen	46·1	315	8	33	- 8		e 15	18	-11	e 20·0	27·6
Dyce	47·9	326	i 8	43	-10		i 15	43	-10	24·8	35·2
Simla	E. 47·9	243	—	—	—		e 15	36	-17	25·6	27·8
	N. 47·9	243	8	48	- 5		15	42	-11	27·5	31·1
Lemberg	48·4	302	e 10	36	?PR ₁		e 15	54	- 5	e 26·9	27·4
Dehra Dun	48·4	240	8	57	+ 1		15	51	- 8	24·6	27·2
Hong Kong	48·4	196	13	25	?P		19	41	?SR ₁	25·6	27·7
Baku	48·6	275	i 8	55	- 3		i 16	3	+ 2	23·0	—
Hamburg	48·7	315	8	55	- 3		i 16	0?	- 2	27·0	28·5
Potsdam	49·0	312	i 8	54	- 6		i 15	58	- 8	20·0	32·0
Tiflis	E. 49·1	280	i 8	56	- 5		i 16	4	- 3	28·6	34·1
	N. 49·1	280	i 8	57	- 4		i 16	4	- 3	e 29·3	34·6
Edinburgh	E. 49·4	325	—	—	—		i 16	4	- 7	28·0	36·6
Jena	E. 50·7	314	e 9	9	- 2		i 16	25	- 2	e 23·0	31·0
	N. 50·7	314	e 9	7	- 4		i 16	23	- 4	—	35·5
Phu-Lien	50·8	205	i 9	10	- 2		e 16	27	- 2	24·0	28·5
Prague	50·8	309	i 9	13	+ 1		i 16	30	+ 1	e 29·0	31·0
Victoria	E. 51·0	55	—	—	—		—		—	24·2	34·8
	N. 51·0	55	(9 15)	+ 2			9	15	?P	20·6	35·0
Stonyhurst	51·1	323	9	14	- 0		i 16	29	- 3	e 24·7	37·2
De Bilt	51·2	317	i 9	13	- 1		16	33	- 1	e 24·0	29·9
Cheb	51·3	310	i 9	15	- 0		e 16	37	+ 2	e 25·0	34·0
Vienna	51·9	308	e 9	11	- 8		16	40	- 3	i 23·6	29·5
Budapest	51·9	305	9	22	+ 3		16	45	+ 2	24·0	34·5
Feldberg	E. 52·2	315	e 9	21	0		i 16	45	- 1	e 27·0	30·7
	N. 52·2	315	e 9	21	0		i 17	45	+59	e 26·3	31·0
Uxelf	52·5	319	i 9	23	0		i 16	49	- 1	e 24·0	30·3
Oxford	52·9	322	i 9	25	0		i 16	55	- 0	26·7	38·1
Kew	53·0	321	i 9	25	- 1		i 16	55	- 1	26·7	38·0
Gras	53·2	309	i 9	27	0		i 17	3	+ 4	26·0	30·4
Hohenheim	53·3	314	i 9	28	0		i 17	2	+ 2	e 28·0	32·5
Strasbourg	53·9	315	i 9	31	- 1		i 17	6	- 2	25·0	38·8
Belgrade	N. 54·0	303	i 9	32	- 1		i 17	8	- 1	e 27·8	32·0
Innsbruck	54·1	311	9	31	- 3		16	30	-40	31·0	38·2

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Ravensburg		54.1	313	19 30	- 4	17 6	- 4	e 26.0	34.0
Zagreb	N.E.	54.3	307	e 9 34	- 1	e 17 9	- 4	e 26.5	35.9
	N.W.	54.3	307	e 9 36	+ 1	e 17 10	- 3	e 26.5	31.2
Laibach		54.5	308	e 9 36	0	e 17 37	+ 2	e 26.2	30.0
Paris		54.8	319	19 40	+ 2	i 17 22	+ 3	29.0	31.0
Zurich		54.8	313	19 39	+ 1	i 17 22	+ 3	—	—
Chur		55.0	313	19 40	+ 1	16 35	- 46	—	—
Neuchatel		55.5	313	19 44	+ 1	e 17 30	+ 2	—	—
Besançon		55.6	315	19 46	+ 3	17 27	- 2	26.0	31.0
Venice		55.6	309	10 1	+ 18	19 38?	[+17]	23.9?	27.9?
Manila		55.6	188	e 9 12	- 31	18 26	+ 57	e 32.6	35.4
Moncalieri		57.2	313	9 56	+ 3	17 18	- 31	26.1	36.7
Florence		57.4	308	9 58	+ 3	17 56	+ 5	26.5	30.3
Grenoble		57.5	315	—	—	—	—	e 29.0	—
Rocca di Papa		58.9	307	e 10 6	+ 2	i 18 21	+ 11	e 32.9	39.0
Ksara		59.2	284	10 16	+ 10	18 20	+ 7	29.0	—
Pompeii		59.3	305	e 10 6	- 1	e 17 56	- 19	—	34.0
Marselles		59.4	315	10 12	+ 4	e 18 19	+ 3	e 31.0	—
Bombay		60.7	242	10 19	+ 2	18 32	0	31.5	38.2
Barcelona		61.9	316	e 10 28	+ 4	18 53	+ 6	e 33.8	36.4
Tortosa		62.9	318	e 10 32	+ 1	19 7	+ 7	e 32.0	44.1
Ottawa		63.4	17	10 34	0	e 19 4	- 2	e 27.0	34.8
Helwan		64.4	284	10 44	+ 3	19 18	0	—	50.9
Toronto	N.	64.6	21	10 39	- 3	i 19 17	- 3	36.2	42.3
Honolulu	T.H. N.	64.7	97	—	—	—	—	e 33.0	—
Toledo		64.8	320	10 47	+ 3	e 19 29	+ 6	e 33.1	37.7
Chicago	E.	65.3	28	—	—	i 19 28	- 1	e 32.5	38.5
Ann Arbor	N.	65.4	25	10 48	+ 1	e 20 54	[+18]	e 36.0	—
Alicante		65.4	317	10 51	+ 4	i 19 36	+ 6	36.5	45.8
Algiers		66.1	314	10 55	+ 3	i 19 43	+ 5	34.0	37.0
Ithaca		66.2	19	—	—	—	—	32.0	—
Granada		67.3	320	11 4	+ 4	20 6	+ 12	38.5	46.2
Almeria		67.3	319	10 57	- 3	e 19 54	0	36.1	39.5
Rio Tinto		67.4	322	22 0?	?	—	—	—	43.0
Kodalkanal		67.6	235	30 18	?	—	—	—	39.2
Malaga		67.9	320	11 7	+ 4	20 11	+ 10	27.6	—
St. Louis		67.9	30	e 11 10	+ 7	e 20 4	+ 3	i 31.1	36.0
Fordham		68.0	18	11 11	+ 7	20 13	+ 11	35.1	40.0
Cincinnati		68.3	26	e 11 12	+ 6	e 20 7	+ 1	e 32.2	—
San Fernando		68.6	321	11 13	+ 5	20 17	+ 8	37.5	42.5
Tucson	N.	69.4	50	e 11 4	- 9	—	—	e 39.9	—
Batavia		77.5	201	e 12 18	+ 14	—	—	i 44.4	—
Riverview	N.	105.1	160	—	—	—	—	e 58.1	65.2
La Paz		125.6	20	19 8	[+ 1]	26 25	[+ 25]	65.0	74.3
Sucre		128.4	15	19 17	[+ 2]	—	—	63.0	72.4
Rio de Janeiro		132.7	350	—	—	—	—	e 68.3	—

Additional readings: Ekaterinburg $PR_1 = +7m.22s.$, $PR_2 = +7m.28s.$, $i = +11m.51s.$, $SR_1 = +13m.6s.$ Mizusawa LN = +16.2m. Osaka MN = +22.3m. Sumoto MN = +22.7m. Pulkovo $PR_1 = +8m.43s.$, $PR_2 = +9m.7s.$, $SR_1 = +15m.18s.$, $SR_2 = +16m.12s.$ = $SR_3 + 8s.$, MN = +23.8m., MZ = +26.1m. Zi-ka-wei $PR_1 = +9m.21s.$, S = +16m.46s. = $SR_1 + 20s.$, $SR_2 = +20m.8s.$, MZ = +26.4m.: true S is given as PR_1 , Kucino $PR_1 = +9m.18s.$, $SR_1 = +16m.48s.$, e = +18m.0s., MN = +26.2m., MZ = +26.5m. Helsingfors $PR_1Z = +9m.6s.$, $PR_2N = +9m.9s.$, eZ = +10m.22s., eN = +15m.40s., $SR_1Z = +16m.36s.$, $SR_2N = +16m.51s.$ Tashkent $iPR_1 = +9m.38s.$, $iSR_1 = +16m.51s.$ Upsala $PR_1 = +9m.27s.$, $PR_2 = +9m.39s.$ Konigsberg e $PR_1N = +10m.1s.$, $iPR_1Z = +10m.11s.$, $iPR_2Z = +10m.37s.$, $iPR_2N = +10m.39s.$, $iZ = +11m.1s.$, +12m.20s., and +13m.51s. 1N = +11m.2s., and +13m.58s., eZ = +16m.27s., eN = +16m.69s., +17m.2s., and +17m.50s., $SR_1Z = +18m.10s.$, and +18m.34s., $SR_2N = +18m.23s.$, $SR_2Z = +19m.21s.$, +19m.37s., +20m.54s., and +21m.6s. Taihoku P entered is given as eN simply. Makeyevka $PR_1 = +10m.23s.$, $PR_2 = +11m.6s.$, $i = +14m.2s.$, PS = +15m.26s., $SR_1 = +18m.44s.$, MN = +26.7m., MZ = +30.0m. Copenhagen $PR_1 = +10m.24s.$, and +12m.0s., $PeS = +14m.0s.$?, $iSN = eSZ = +15m.20s.$, $iZ = +15m.26s.$, $SR_2 = +18m.18s.$, MZ = +26.4m., MN = +27.3m. Dyce $PR_1 = +10m.41s.$ Baku $PR_1 = +10m.53s.$, $iSR_1 = +19m.41s.$ Hamburg $iPR_1Z = +10m.49s.$ e $SR_2N = +19m.31s.$ Potsdam $iPR_1 = +11m.3s.$, $iPR_2 = +11m.49s.$ Tiflis eE = +9m.6s., +9m.56s., and +10m.28s., e $PR_1N = +10m.54s.$, eN = +19m.43s., $SR_1E = +19m.56s.$, eN = +20m.6s. Jena $iPE = +9m.11s.$, $iSE = +16m.29s.$, eN = +20m.21s. = $SR_1 + 1s.$, MZ = +34.5m. Phu-Lien

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MN = +33.0m. Prague PR₁ = +11m.20s., SR₁ = +20m.30s. De Bilt
 iPR₁Z = +11m.11s., MZ = +35.2m., MN = +38.2m. Cheb PR₁ =
 +11m.18s., SR₁ = +20m.35s. Vienna IPZ = +9m.15s. PR₁ = +11m.44s.,
 SR₁ = +20m.53s., SR₁? = +21m.56s. Feldberg ePR₁N = +11m.27s.,
 iN = +20m.29s. = SR₁ - 19s. Uccle PR₁ = +11m.23s., SR₁ = +20m.42s.,
 MN = +33.4m. Oxford PR₁N = +11m.27s., SR₁ = +21m.22s., MN =
 +38.4m. Kew PR₁ = +11m.23s., SR₁ = +21m.17s., MN = +36.0m.
 Graz I = +22m.39s. = SR₁ - 3s. Hohenheim ePR₁E = +11m.22s., eE =
 +24m.0s., MN = +31.8m. Strasbourg PR₁ = +11m.37s., PR₁ =
 +12m.36s., MN = +33.2m., MZ = +37.5m. Belgrade eN = +12m.39s. =
 PR₁ - 12s., iN = +14m.54s., +24m.32s., and +25m.50s. Ravensburg
 eSN = +17m.9s., MN = +33.0m. Zagreb iPNE = +9m.38s., iPNW =
 +9m.40s., ePR₁NE = +10m.18s., ePR₁NW = +10m.21s., ePR₁ = +12m.41s.,
 ePR₁ = +15m.8s., ePR₁ = +16m.47s., iS = +17m.14s., iSNE = +17m.19s.,
 ePSNW = +17m.32s., ePSNE = +17m.34s., ePS = +19m.38s., eSR₁ =
 +19m.43s., eSR₁NE = +21m.23s., eSR₁NW = +22m.0s., eSR₁NE =
 +22m.26s., eSR₁NW = +24m.16s., eSR₁NE = +24m.25s. Laibach
 e = +15m.37s. Paris MN = +34.0m. Neuchatel ePR₁ = +11m.50s.,
 ePR₁ = +12m.58s. Venice P = +10m.9s. Manila PSE = +18m.6s.,
 MN = +34.8m. Rocca di Papa eN = +9m.46s., PR₁ = +13m.41s. Ksara
 PR₁ = +13m.47s., SR₁N = +25m.18s.; T₀ = 0h.12m.15s. Marseilles
 eS = +18m.22s. Barcelona MN = +42.6m. Ottawa eN = +14m.20s. =
 PR₁ - 22s., MN = +40.2m. Toledo MNW = +38.2m., MZ = +46.1m.
 Chicago eE = +28m.20s. = SR₁ + 10s. Ann Arbor eLE = +33.4m. Ali-
 cante MN = +41.4m. Algiers MN = +41.0m. Granada PR₁ =
 +13m.32s., PR₁ = +16m.55s. St. Louis iE = +20m.18s., iPSN =
 +20m.25s., iPPPSE = +20m.40s., iE = +25m.52s. = SR₁ + 33s., eSR₁E =
 +27m.41s. Fordham e = +13m.16s., PR₁ = +13m.41s., PR₁ = +15m.41s.;
 T₀ = 0h.11m.57s. Cincinnati iSN = +20m.6s. San Fernando MN
 = +42.0m. Tucson eE = +11m.34s., and +40m.12s., eN = +28m.24s. =
 SR₁ + 1s., and +45m.24s. Riverview eLE = +51.1m. La Paz PR₁ =
 +21m.18s., SR₁E = +37m.30s., MN = +72.3m. Sucre i = +21m.25s. =
 PR₁ + 7s., PR₁? = +22m.35s., SR₁ = +38m.53s.

Nov. 14d. 4h. 56m. 24s. Epicentre 70°ON. 128°OE.

(as at 0h.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o.	o.	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	20.8	224	14 52	+ 1	8 41	+ 1	9.6	18.6
Ootomari	24.4	155	5 14	-18	(9 58)	+ 6	10.0	10.4
Ekaterinburg	30.8	280	16 30	- 6	111 36	-12	15.6	—
Mirusawa	E. 31.6	160	6 30	-13	10 42	-79	16.7	—
	N. 31.6	160	—	—	11 42	-19	17.2	—
Toyooka	34.6	169	e 10 4	?	—	—	18.0	22.2
Nagoya	35.1	167	e 6 56	-18	—	—	19.1	19.4
Kobe	35.5	170	e 12 42	?S	(e 12 42)	-21	22.0	22.5
Osaka	35.5	169	e 5 45	-93	11 45	-78	17.4	—
Sumoto	35.9	170	e 7 12	- 9	—	—	e 19.4	22.9
Hukuoka	36.4	176	e 15 18	?SR ₁	—	—	—	20.0
Nagasaki	37.3	177	14 56	?	18 22	?	18.9	21.1
Pulkovo	38.0	305	17 28	-10	13 18	-20	19.6	25.9
Zi-ka-wei	39.0	188	17 37	- 9	16 34	?SR ₁	—	23.5
Kaciino	39.1	295	17 50	+ 3	13 46	- 7	19.9	26.5
Helsingfors	N. 39.1	309	17 37	-10	113 39	-14	19.6	23.6
	Z. 39.1	309	17 36	-11	113 39	-14	18.6	21.9
Sittka	N. 39.9	58	—	—	—	—	e 23.6	—
Tashkent	41.0	259	17 55	- 8	114 3	- 8	117.2	27.6
Uppsala	41.2	314	e 7 53	-12	114 6	-18	e 21.6	26.4
Bergen	43.5	322	8 28	+ 6	—	—	e 19.6	23.6
Königsberg	N. 44.9	309	18 24	- 8	e 14 44	-30	e 21.6	25.1
	Z. 44.9	309	18 21	-11	e 14 44	-30	e 21.6	28.1
Taihoku	N. 45.1	188	—	—	—	—	e 23.6	—
Makayevka	45.7	290	18 32	- 6	115 15	- 9	21.1	27.9
Copenhagen	46.1	315	8 34	- 7	e 15 20	- 9	e 18.6	27.2
Dyce	47.9	326	8 51	- 2	15 44	- 9	25.4	35.4
Sinai	E. 47.9	243	—	—	e 15 48	- 5	25.9	27.6
	N. 47.9	243	e 10 48	?PR ₁	15 54	+ 1	27.3	31.1

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.
Lemberg		48.4	302	e 9 0	+ 4	e 16 0	+ 1	e 26.9	27.4
Dehra Dun		48.4	240	19 32	?	(23 32)	?	e 27.2	28.0
Hong Kong		48.4	196	15 48	IS	(15 48)	- 11	—	27.9
Baku		48.6	275	18 45	- 13	i 15 59	- 2	—	—
Hamburg		48.7	315	e 8 50	- 8	e 16 0	- 2	e 25.6	—
Potsdam		49.0	315	18 55	- 5	i 15 56	- 10	e 24.1	28.1
Tiflis	E.	49.1	280	18 57	- 4	i 16 1	- 6	e 28.6	32.7
	N.	49.1	280	18 57	- 4	i 16 5	- 2	e 29.6	34.5
Edinburgh		49.4	325	—	—	i 16 5	- 6	e 28.6	36.6
Jena	E.	50.7	314	e 9 7	- 4	e 16 27	0	e 23.6	28.1
	N.	50.7	314	e 9 7	- 4	e 16 24	- 3	e 23.6	31.1
	Z.	50.7	314	19 9	- 2	e 16 27	0	e 23.6	34.3
Phu-Lien		50.8	205	e 9 9	- 3	e 16 26	+ 2	e 23.6	28.9
Prague		50.8	309	19 11	- 1	i 16 31	+ 2	e 26.6	31.6
Victoria	E.	51.0	55	—	—	11 26	?PR ₁	e 23.3	30.8
	N.	51.0	55	—	—	(16 26)	- 5	e 16.4	32.6
Stonyhurst		51.1	323	—	—	e 16 29	- 3	e 23.6	36.6
De Bilt		51.2	317	19 13	- 1	i 16 33	- 1	e 23.6	30.0
Cheb		51.3	310	19 14	- 1	i 16 36	+ 1	e 25.6	34.6
Vienna		51.9	308	e 9 11	- 8	i 16 19	- 24	e 22.6	29.6
Budapest		51.9	305	e 9 23	+ 4	16 51	+ 8	e 23.6	34.1
Feldberg	E.	52.2	315	e 9 23	+ 2	—	—	e 25.4	30.0
	N.	52.2	315	19 21	0	i 16 51	+ 5	—	26.9
Uccle		52.5	319	19 22	- 1	i 16 45	- 5	e 23.6	30.1
Oxford		52.9	322	e 9 24	- 1	16 54	- 1	e 21.0	34.2
Calcutta	N.	52.9	228	9 48	+ 23	16 35	- 20	—	—
Kew		53.0	321	e 9 25	- 1	e 16 57	+ 1	e 25.1	31.4
Graz		53.2	309	19 30	+ 3	i 17 4	+ 5	e 23.6	29.5
Hohenheim		53.3	314	19 30	+ 2	e 17 4	+ 4	e 27.6	30.4
Strasbourg		53.9	315	19 32	0	i 17 7	- 1	e 24.6	33.6
Belgrade	N.	54.0	303	e 9 39	+ 6	i 17 17	+ 8	i 27.8	32.1
Innsbruck		54.1	311	e 9 26	- 8	16 42	- 28	—	31.1
Ravensburg		54.1	313	e 9 31	- 3	17 21	+ 11	e 25.6	33.8
Zagreb	N.E.	54.3	307	19 38	+ 3	e 17 15	+ 2	e 30.3	36.9
	N.W.	54.3	307	—	—	e 17 14	+ 1	—	31.2
Laibach		54.5	308	e 10 2	+ 26	e 17 52	+ 37	e 30.6	32.6
Paris		54.8	319	19 40	+ 2	i 17 23	+ 4	e 25.6	30.6
Zurich		54.8	313	e 9 36	- 2	i 17 23	+ 4	—	—
Chur		55.0	313	e 9 36	- 3	—	—	—	—
Neuchatel		55.5	313	e 9 40	- 3	e 17 21	- 7	—	—
Besançon		55.6	315	e 9 32	- 11	17 37	+ 8	e 26.6	31.6
Venice		55.6	309	10 14	+ 31	18 36?	+ 67	e 23.1	31.6
Manila		55.6	188	e 9 34	- 9	e 18 4	+ 35	e 29.8	35.0
Moncalieri		57.2	313	e 9 54	+ 1	17 48	- 1	e 25.7	37.7
Florence		57.4	308	e 9 55	0	17 58	+ 7	e 31.6	34.6
Grenoble		57.5	315	e 9 55	- 1	e 17 58	+ 5	e 29.6	32.6
Rocca di Papa		58.9	307	i 10 9	+ 5	e 18 17	+ 7	e 25.0	38.1
Ksara		59.2	284	10 11	+ 5	18 20	+ 7	29.3	—
Pompeii		59.3	305	e 10 22	+ 15	e 21 32	?	e 31.6	38.6
Marselles		59.4	315	e 10 5	- 3	e 18 31	+ 15	e 29.6	35.5
Hyderabad		60.4	237	—	—	18 46	+ 18	e 31.2	34.9
Bombay		60.7	242	10 23	+ 6	18 43	+ 11	e 31.9	38.2
Barcelona		61.9	316	e 10 29	+ 5	e 18 35	- 12	e 29.8	36.2
Tortosa	E.	62.9	318	e 10 10	- 21	e 19 9	+ 9	e 28.6	37.0
	N.	62.9	318	e 10 13	- 18	e 18 49	- 11	e 30.6	36.9
Ottawa		63.4	17	e 10 36?	+ 2	e 19 4	- 2	e 25.6	34.6
Helwan		64.4	284	10 46	+ 5	19 25	+ 7	—	45.2
Toronto	E.	64.6	21	—	—	i 19 16	- 4	e 29.6	36.0
Honolulu T.H.	E.	64.7	97	—	—	—	—	e 34.6	—
Toledo		64.8	320	e 10 45	+ 1	19 30	+ 7	e 30.6	40.4
Chicago	E.	65.3	28	—	—	i 19 27	- 2	e 32.6	34.6
Ann Arbor	E.	65.4	25	—	—	—	—	e 31.9	—
Alicante		65.4	317	e 11 4	+ 17	19 51	+ 21	—	44.9
Algiers		66.1	314	10 53	+ 1	19 41	+ 3	e 32.6	36.6
Ithaca		66.2	19	—	—	—	—	e 31.6	37.6
Granada		67.3	320	i 11 1	+ 1	20 2	+ 8	e 38.6	46.3
Almeria		67.3	319	e 10 56	- 4	19 54	0	e 35.7	39.8
Rio Tinto		67.4	322	14 36?	?PR ₁	—	—	—	43.6
Kodalkanal		67.6	235	18 36	IS	(18 36)	- 81	e 35.0	38.1
Malaga		67.9	320	11 4	+ 1	20 10	+ 9	e 27.6	50.3
St. Louis		67.9	30	e 11 21	+ 18	i 20 1	0	e 127.5	31.8
Fordham		68.0	18	e 11 9	+ 5	20 2	0	e 30.0	38.6
Cincinnati	N.	68.3	26	i 11 8	+ 2	i 20 7	+ 1	—	32.2

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.
San Fernando	68.6	321	11 12	+ 4	i 20 20	+11	36.1	42.1
Tucson	69.4	50	e 11 20	+ 7	—	—	e 34.0	—
Cheltenham	E. 69.9	20	—	—	—	—	e 35.9	—
Colombo	70.1	233	20 34	?S	(20 34)	+ 7	35.2	39.6
Batavia	77.5	201	e 13 36?	?	—	—	42.9	—
Apia	93.4	122	—	—	—	—	50.6	—
Riverview	105.1	160	e 17 18	[-47]	—	—	e 52.5	77.7
Sydney	E. 105.1	160	44 6	?	—	—	59.4	61.3
Wellington	N. 116.4	141	—	—	—	—	58.5	—
La Paz	125.6	20	e 19 20	[+13]	26 33	[+33]	59.4	65.3
Cape Town	128.3	275	—	—	—	—	—	75.9
Sucre	128.4	15	19 19	[+ 4]	—	—	60.6	66.2
Río de Janeiro	132.7	350	—	—	—	—	e 65.6	—
La Plata	144.8	8	—	—	—	—	77.6	—

Additional readings: Ekaterinburg IP = +6m.32s., iPR₂ = +7m.25s., i = +12m.12s., and +14m.0s., iSR₂ = +13m.10s.; epicentre 70°49'N, 125°40'E. Toyooka MN = +21.9m. Osaka MN = +21.6m. Sumoto MZ = +23.4m. Pulkovo PR₁ = +8m.44s., SR₁ = +15m.0s., MZ = +26.9m., MN = +28.1m. Zi-ka-wei PR₁ = +9m.26s., MN = +26.0m., MZ = +26.5m. Kucno PR₁ = +9m.18s., SR₁ = +16m.9s., MN = +25.6m. Helsingfors PR₁N = +8m.56s., PR₁Z = +8m.58s., PR₁N = +9m.23s., PR₂Z = +9m.31s., SR₁N = +16m.1s., SR₂Z = +16m.13s., SR₂Z = +16m.58s. Sitka eE = +25m.0s. Tashkent i = +9m.47s. = PR₁ +13s., and +14m.24s., MZ = +26.8m. Upsala PR₁ = +9m.28s., PR₂ = +9m.45s., PR₃ = +9m.54s., MN = +24.8m. Königsberg iZ = +8m.59s., and +9m.38s., iPR₁N = +10m.11s., iZ = +10m.17s., +10m.24s., and +10m.37s., iPR₁N = +10m.59s., iPR₂Z = +11m.0s., iZ = +11m.32s., +11m.37s., +11m.46s., +12m.6s., +12m.34s., +12m.47s., +13m.9s., and +14m.4s., iN = +11m.54s. and +13m.7s., iSZ = +14m.57s., iSN = +15m.4s., iPSZ = +15m.18s., iPSN = +15m.21s., iZ = +15m.47s., +16m.17s., +16m.36s., and +17m.12s., SR₁Z = +18m.19s., SR₁N = +18m.24s., iZ = +18m.30s., iN = +18m.46s., iSR₁N = +19m.17s., iZ = +20m.9s., +20m.12s., and +20m.24s. Taihoku LN = +27.4m. Makeyevka PR₁ = +10m.21s., PR₂ = +11m.4s., PS = +15m.28s., SR₁ = +18m.33s., MN = +31.2m., MZ = +30.0m.; epicentre 70°27'N, 126°54'E. Copenhagen eE = +8m.36s., PR₁ = +10m.29s., eZ = +11m.54s. and +15m.22s., eN = +15m.26s., SR₁ = +18m.12s., MZ = +26.8m. Hong Kong PR₁ = +15m.58s., S = +19m.46s. Bakr iPR₁ = +10m.43s., SR₁ = +19m.31s. Hamburg iPZ = +8m.55s., iPR₁Z = +10m.51s., iPR₂E = +11m.43s., ePR₁N = +12m.13s., iSN = +16m.3s., SR₁ = +19m.36s. = SR₁ - 6s. Tiflis iE = +9m.6s., iN = +9m.7s., ePR₁N? = +10m.56s., ePR₂E? = +11m.0s., ePR₂E? = +11m.48s., PSN = +16m.20s., SR₁N = +19m.39s., SR₁E = +19m.42s. Phu-Lien MN = +21.8m. Prague PR₁ = +11m.21s., SR₁ = +20m.36s. Stonyhurst eSR₁ = +20m.37s. De Bilt iPR₁Z = +11m.11s., MN = +33.2m., MZ = +33.4m. Cheb PR₁ = +11m.16s., SR₁ = +20m.38s. Vienna iPZ = +9m.16s., PR₁ = +11m.17s., PR₂ = +11m.45s., PS = +16m.47s., SR₁ = +20m.49s. Feldberg eN = +20m.24s. Uccle PR₁ = +11m.29s., MN = +34.5m. Oxford PR₁N = +11m.34s., eLN = +23.6m., MN = +33.3m. Kew PR₁ = +11m.25s., SR₁ = +21m.18s., MZ = +35.9m., MN = +36.0m. Graz MN = +32.8m. Hohenheim ePR₁E = +12m.20s. = PR₂ - 23s., eSE = +17m.10s., eE = +21m.22s. = SR₁ +14s., and +24m.36s., eN = +21m.36s. = SR₁ +28s., MN = +35.6m. Strasbourg ePR₁ = +11m.37s., ePS = +17m.29s., SR₁ = +22m.59s. = SR₂ +1s., MN = +31.3m., MZ = +38.0m. Belgrade eN = +16m.14s., iN = +21m.38s. = SR₁ +14s., +24m.40s., +25m.58s., +27m.46s.(L), and +29m.39s. Innsbruck MNV = +30.4m. Ravensburg eSN = +17m.19s., MN = +32.3m. Zagreb iPR₁NE = +10m.20s., iPR₁NE = +12m.10s., ePR₁NV = +12m.16s., iPR₂ = +13m.52s., ePR₁NV = +15m.56s., ePR₂NE = +16m.15s., iSNE = +17m.20s., eSR₁NE = +19m.1s. = [S] - 10s., eSR₂NE = +20m.49s., eSR₂NW = +21m.52s. = SR₂ +24s., eSR₁NE = +22m.20s., eSR₁NE = +23m.27s. = SR₂ +21s. Laibach eN = +10m.30s., +13m.29s. = PR₂ +4s., and +24m.3s. = SR₂ +8s. Paris MN = +34.6m. Mandia MN = +34.0m. Moncalieri MN = +37.5m. Rocca di Papa iPZ = +10m.8s., iPN = +10m.11s., eL = +32.6m. Keara PR₁ = +13m.44s. = PR₂ - 9s. Barcelona MN = +36.9m. Ottawa eN = +14m.36s. † PR₁ = 7s., MN = +41.4m. Toronto iN = +19m.13s. Honolulu T.H. eN = +34m.6s. Toledo iP = +10m.48s., MZ = +44.4m. Chicago eE = +26m.18s. Alicante MN = +37.8m. St. Louis iE = +22m.12s. Fordham PR₁ = +16m.47s., e = +16m.50s. = PR₂ +30s. San Fernando MN = +41.6m. Tucson eN? = +11m.24s., eN = +26m.0s. = SR₁ +18s., +39m.12s., and +45m.42s. Colombo S = +28m.54s. = SR₁ +0s. Riverview iPR₁ = +23m.22s., MN = +60.8m. La Paz iP = +19m.31s., PR₁N = +21m.5s., SR₁N = +37m.53s., SR₂N = +44m.48s., MN = +71.1m. Sucre PR₁? = +22m.34s.

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Nov. 14d. 7h. 19m. 20s. Epicentre 30°-2S. 71°-0W.

(as on 1927 July 23d.).

A = +.281, B = -.817, C = -.503; D = -.946, E = -.326;
G = -.164, H = +.476, K = -.864.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	s.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Santiago	3.3	175	0 49	- 3	0 58	-33	1.0	—
Pilar	6.3	105	(1 28)	- 8	(2 4)	-48	1.5	4.7
La Plata	12.0	116	i 2 54	- 5	5 0	-19	5.8	—
Sucre	12.4	27	3 6	+ 1	i 5 33	+ 4	i 6.7	8.1
La Paz	14.0	12	i 3 35	+ 9	i 6 27	+19	8.5	10.2
Río de Janeiro E.	25.9	80	i 5 40	- 7	10 5	-15	12.6	14.2
N.	25.9	80	i 5 40	- 7	10 3	-17	12.6	17.0
Balboa Heights	40.0	348	e 7 12	-43	—	—	—	—
Tacubaya	56.5	328	9 36	-13	17 30	-10	24.9	29.0
Chihuahua	67.8	327	10 40?	-23	19 40?	-20	—	—
Cincinnati	N. 70.5	350	i 11 21	+ 1	e 21 54	[+39]	—	38.7
St. Louis	E. 71.1	346	e 11 27	+ 3	i 20 40	+ 1	e 28.7	—
N.	71.1	346	i 11 26	+ 2	e 20 42	+ 3	—	—
Ithaca	72.8	356	11 44	+ 9	21 13	+13	—	—
Tucson	E. 73.0	325	i 11 39	+ 3	i 21 6	+ 4	e 37.4	39.6
N.	73.0	325	i 11 38	+ 2	i 21 5	+ 3	e 37.5	39.1
Cape Town	73.3	120	11 38	0	21 5	- 1	—	36.7
Ann Arbor	73.3	352	i 11 40	+ 2	i 21 4	- 3	e 36.1	—
Chicago	E. 73.6	348	—	—	i 21 5	- 4	e 31.3	39.4
Toronto	E. 74.2	355	11 34	- 9	i 21 4	-12	—	45.8
N.	74.2	355	i 11 36	- 7	i 21 6	-10	37.8	42.9
Ottawa	75.7	357	i 11 50	- 3	i 21 31	- 3	e 36.2	44.7
Berkeley	83.2	323	e 12 31	- 6	e 22 50	- 9	—	—
Johannesburg	84.3	117	—	—	—	—	40.7	—
Wellington	E. 86.2	225	i 12 43	-11	i 23 5	[+ 2]	38.8	—
N.	86.2	225	i 12 46	- 8	i 23 4	[+ 1]	e 39.6	—
San Fernando	90.2	47	13 7	-10	i 24 3	-13	—	62.7
Río Tinto	91.1	46	13 40?	+18	—	—	—	58.7
Malaga	E. 91.5	48	13 10	-14	e 24 6	?E	32.7	—
Victoria	N. 91.5	329	13 10	-14	23 44	[+ 7]	43.7	49.1
Apia	92.1	256	13 45	+17	23 40	[+ 3]	41.8	49.1
Granada	92.3	48	i 13 19	-19	24 34	- 4	42.7	—
Almeria	92.9	48	e 13 13	-19	e 24 34	?E	e 49.3	54.9
Toledo	N.E. 93.6	46	e 13 19	-17	24 17	?E	e 41.6	53.9
Alicante	95.0	48	e 13 23	-20	24 28	[+31]	e 42.0	50.9
Algiers	96.4	51	13 37	-14	24 32	[+28]	e 46.7	58.7
Tortosa	97.0	46	—	—	26 40?	?PS	e 45.2	45.7
Honolulu T.H. E.	97.9	290	—	—	e 25 15	?E	e 53.2	60.1
Barcelona	98.4	47	—	—	—	—	e 47.3	60.0
Oxford	102.1	37	—	—	i 24 58	[+24]	43.7	52.8
Kew	102.5	37	i 14 1	-22	i 25 1	[+25]	50.7	56.7
Paris	102.6	40	e 14 3	-20	e 25 2	[+26]	43.4	54.5
Stonyhurst	102.7	35	e 13 54	-30	i 24 56	[+19]	50.7	54.7
Edinburgh	103.5	32	—	—	i 25 7	[+27]	32.7	—
Besaçon	103.7	44	e 14 4	-25	—	—	54.5	69.9
Moncalieri	E. 103.7	46	14 16	-13	25 2	[+21]	e 44.4	49.0
Neuchatel	104.2	45	e 14 9	-22	24 10	[-34]	e 48.3	53.8
Riverview	E. 104.6	216	—	—	—	—	e 51.0	54.2
N.	104.6	216	—	—	—	—	e 44.7	55.5
Sydney	E. 104.6	216	24 34	?[S]	(24 34)	[-11]	e 50.7	64.0
Uccle	104.6	40	e 14 9	-23	e 25 13	[+28]	e 41.7	64.0
Dyce	104.8	30	—	—	e 25 15	[+29]	e 41.7	62.5
Zurich	105.3	45	i 14 15	-21	24 42	[- 7]	28.7	40.7
Florence	105.3	49	e 13 40?	-56	22 40	?E	e 55.6	64.7
Rocca di Papa	105.3	51	i 14 16	-20	e 26 2	?E	e 50.7	67.9
Strasbourg	105.4	43	i 14 14	-22	(25 40?)	?E	e 57.7	64.0
De Bilt	105.7	38	14 16	-22	e 25 18	[+27]	e 54.7	60.7
Pompeii	106.2	53	e 18 36	?PR ₁	e 31 40	?E	e 61.7	70.7
Hohenheim	106.4	43	e 19 30	?PR ₁	e 25 16	[+22]	e 54.7	60.7
Feldberg	N. 106.6	42	e 18 10	[0]	e 22 4	?PR ₂	e 49.7	54.8
Venice	106.8	47	(20 40?)	?E	—	—	20.7	—
Jena	108.7	42	e 18 52	?PR ₁	e 28 10	?PS	e 52.7	62.7
Cheb	108.8	43	e 19 6	?PR ₁	e 28 34	?PS	e 54.7	62.7
Hamburg	108.9	38	e 14 31	-22	—	—	e 41.7	60.7
Adelaide	109.1	206	e 13 40?	-73	i 25 0	[- 6]	44.1	60.7

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.
Graz	109.5	46	—	—	i 29 6	¶PS	55.7	59.7
Prague	110.0	43	e 19 3	?PR ₁	e 28 30	¶PS	e 53.7	61.7
Vienna	110.5	45	e 17 31	?	27 8	-25	e 44.7	64.7
Copenhagen	111.1	37	14 40?	-23	e 26 28	?Z	e 51.7	55.5
Budapest	111.8	46	19 10	?PR ₁	—	—	e 58.7	64.7
Helwan	114.3	70	19 40	?PR ₁	29 21	¶PS	—	71.9
Upsala	E. 115.1	34	—	—	i 29 32	¶PS	e 55.7	61.2
Konigsberg	N. 115.2	40	—	—	—	—	e 57.2	60.2
Helsingfors	E. 118.8	35	e 18 26	[-23]	25 32	[-10]	58.2	62.7
Ksara	E. 119.3	67	20 16	?PR ₁	—	—	62.0	—
Pulkovo	121.3	35	e 18 54	[-2]	e 26 4	[+15]	52.7	64.0
Makeyevka	124.2	50	e 18 58	[-6]	26 4	[+7]	57.7	71.7
Tiflis	128.0	59	e 19 12	[-2]	—	—	e 62.7	70.9
Baku	131.6	61	i 19 19	[-3]	e 25 55	[-20]	—	—
Ekaterinburg	137.4	37	i 19 21	[-14]	i 23 7	?	52.7	77.9
Batavia	Z. 143.5	176	i 19 48	[+2]	—	—	69.0	75.5
Colombo	144.1	125	19 38	[-9]	—	—	79.9	86.5
Kodaikanal	144.5	119	21 34	[-7]	—	—	—	79.0
Bombay	145.4	100	19 42	[-5]	—	—	e 61.7	86.0
Tashkent	146.3	60	19 45	[+3]	33 44	?	73.8	79.7
Hyderabad	149.4	105	19 58	[+6]	20 5	?[P]	—	—
Mizusawa	E. 152.3	297	(20 5)	?PR ₂	—	—	e 72.2	—
Simla	152.7	80	e 30 58?	—	—	—	30.4	—
Osaka	157.3	288	—	[-7]	21 24	?	72.7	88.7
Irkutsk	157.7	8	i 19 59	[-6]	e 36 18	?	76.4	—
Manila	160.9	218	e 20 3	[-3]	—	—	70.4	83.4
Zi-ka-wei	169.3	278	i 20 11	[-3]	—	—	80.7	—
Hou-Lien	170.4	166	e 20 12	[0]	31 30	¶Z	—	90.7
Phu Kong	170.9	211	20 15	—	—	—	—	—

Additional readings and notes : Pilar gives P and S as LE and LN, also MN = +4.2m. Sucre i = +3m.24s.; T₀ = 7h.19m.19s.; epicentre 31°5S, 70°0W. La Paz i = +3m.54s., +7m.2s., +7m.29s., and +7m.58s.; T₀ = 7h.19m.17s.; epicentre 30°2S., 71°4W. Cincinnati eFCPN = +11m.30s., ePSN = +22m.3s. St. Louis iN = +11m.40s., iFCPN = +12m.8s., iN = +12m.38s., iPR₁N = +15m.51s., iPSE = +21m.3s., iE = +21m.24s. Tucson eN = +13m.7s., eE = +13m.53s., ePR₁N? = +14m.25s., eSR₁N = +25m.48s. Ann Arbor eN = +25m.40s.; T₀ = 7h.19m.24s. Toronto PR₁N? = +14m.48s.; T₀ = 7h.19m.24s. Ottawa ePR₁N? = +15m.8s., eSR₁E = +26m.52s.; T₀ = 7h.19m.27s. Berkeley ePN = +12m.37s., eZ = +12m.47s., eEN = +12m.48s., eSN = +22m.51s., eSZ = +22m.52s., eE = +23m.3s. Wellington iPR₁N = +16m.30s., iSR₁E = +28m.52s., iSR₁N = +29m.7s., SR₁N = +32m.30s.; T₀ = 7h.19m.26s.; T₁N = 7h.19m.34s. San Fernando MN = +58.7m. Malaga iP = +13m.13s., PR₁N = +16m.50s. Apia = +23m.25s. = [S] - 16s. Almeria PR₁ = +17m.0s., MN = +59.4m. Toledo iZ = +17m.7s. = PR₁ - 25s., MZ = +55.2m. Alicante MN = +54.8m. Algiers PR₁ = +17m.29s. Tortosa MN = +61.0m. Honolulu T.H. eSR₁E = +31m.27s., eN = +44m.40s. Barcelona MN = +60.0m. Oxford PR₁ = +18m.25s., MN = +60.2m. Kew PR₁ = +18m.9s., ePSE = +27m.26s., SR₁ = +33m.24s., MN = +49.1m., MZ = +52.7m. Besançon e = +18m.30s. = PR₁ - 8s. Moncalieri L = +33.6m. Riverview iPR₁ = +24m.43s. = [S] - 2s., eSR₁ = +33m.20s. Sydney PR₁E = +27m.40s. = PS - 16s., SE = +34m.34s., SR₁E = +46m.22s. Uccle e = +18m.6s. = PR₁ - 38s., MN = +57.5m. Rocca di Papa e = +17m.31s. = [P] - 35s. Strasbourg iPR₁ = +18m.40s., MZ = +64.2m. De Bilt iPR₁Z = +18m.38s., MN = +60.0m., MZ = +63.8m. Hohenheim eE = +20m.34s.; all readings have been increased by 1h. Jena eN = +18m.58s., iEZ = +18m.59s., eN = +33m.40s., eE = +34m.50s. Hamburg ePZ = +18m.5s. = [P] - 13s., iPR₁EZ = +19m.3s., iPSE = +28m.34s., eLEN = +53.7m., MNZ = +62.7m. Adelaide MN = +52.7m. Prague PR₁ = +21m.25s., SR₁ = +35m.25s. Vienna iEN = +19m.6s., PR₁ = +22m.32s., PS? = +28m.29s. Copenhagen ePR₁N = +18m.59s. = [P] + 34s., ePR₁ = +19m.16s., ePR₁Z = +21m.31s., eN = +22m.16s. = PR₁ - 15s., eScPcSE = +24m.40s. = PR₁ + 17s. eE = +26m.40s., eN = +27m.22s. = S - 16s., ePS = +28m.40s., ePPSEN = +29m.10s. = PS + 0s., eSR₁EN = +34m.40s.?, eLN = +49.7m., MN = +62.9m. Budapest MN = +61.7m. Helwan PR₁ = +27m.2s. = E + 22s. Upsala PR₁ = +19m.44s., eLN = +50.7m., MN = +68.8m. Helsingfors iPR₁N = +20m.8s., PR₁Z = +20m.10s., PR₁E = +20m.12s., P₁P₁SZ? = +21m.47s., P₁P₁cSE? = +21m.48s., PS = +30m.4s. Ksara PR₁? = +23m.48s. = PR₁ + 10s., PR₁? = +26m.9s. = [S] + 26s., PR₁? = +30m.37s. = PS + 0s., Pulkovo PR₁ = +20m.23s., PR₁ = +22m.58s., PS = +30m.24s., SR₁ = +37m.28s., MZ = +63.8m., MN = +71.7m. Makeyevka iP = +19m.4s. = [P] + 1s., PR₁ = +20m.45s., PR₁ = +23m.44s.,

Continued on next page.

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S₁P₁S = +27m.44s., Σ = +5s., PS = +29m.14s. = S - 6s., PPS = +32m.22s.,
 SR₁ = +37m.40s.?, MZ = +76.5m., MN = +76.8m. Tiflis eN = +19m.19s.
 e = +23m.56s., +24m.55s. = PR₂ + 8s., + 31m.20s., + 35m.16s., + 36m.26s.,
 + 33m.26s. = SR₁ + 0s., and + 44m.35s. = SR₂ + 24s. Baku PR₁ =
 + 21m.38s., P₁PS = + 22m.50s. Ekaterinburg i = + 19m.33s., iPR₁ =
 + 22m.11s., iS₁P₁S = + 29m.29s., iPS = + 32m.29s., iPPS = + 34m.37s.,
 e = + 36m.19s., SR₁ = + 40m.26s., e = + 41m.9s., MN = + 74.4m., MZ =
 + 78.0m. Batavia i = + 19m.52s. and + 19m.55s. Tashkent SR₁ =
 + 42m.16s., SR₂ = + 50m.12s., MN = + 82.6m., MZ = + 86.9m. Irkutsk
 iPR₁ = + 24m.16s., e = + 27m.32s., PR₂ = + 29m.29s., S₁P₁SP = + 34m.18s.,
 SR₁ = + 44m.13s., MZ = + 88.6m. Zi-ka-wei eSR₁? = + 36m.6s. Phu-
 Lien ePR₁ = + 25m.13s.

Nov. 14d. 15h. 4m. 30s. Epicentre 54°0'S. 8°0'E. (as on 1927 Oct. 5d.).

A = +.582, B = +.082, C = -.809; D = +.139, E = -.990;
 G = -.801, H = -.113, K = -.588.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Cape Town	21.4	25	5 0	+ 2	8 50	- 3	—	9.0
Johannesburg	31.5	36	—	—	12 30?	+ 30	—	—
La Plata	48.7	267	—	—	—	—	23.0	—
Rio de Janeiro	49.2	289	e 15 57	?S	(e 15 57)	- 12	e 20.8	—
Sucre	64.9	272	i 10 42	- 2	i 19 23	- 1	29.6	32.7
La Paz	68.6	273	i 11 14	+ 6	i 20 24	+ 15	31.5	35.5
Adelaide	81.4	141	—	—	i 22 33	- 6	—	50.3
Wellington	E. 84.0	171	—	—	—	—	e 38.0	50.0
	N. 84.0	171	—	—	—	—	i 38.5	48.1
Colombo	85.1	71	13 49	+ 60	21 59	?	39.1	45.3
Helwan	86.2	21	23 22	?S	(23 22)	- 10	—	46.7
Riverview	86.6	150	—	—	—	—	e 42.3	48.8
Sydney	E. 86.6	150	23 12	?S	(23 12)	- 25	43.8	46.8
Kodaikanal	86.6	68	41 54	?L	—	—	(41.9)	—
Ksara	N. 91.1	24	e 13 10	- 12	24 4	- 21	—	—
San Fernando	91.3	349	—	—	24 20	- 7	—	58.5
Almeria	91.4	351	—	—	—	—	—	54.5
Bombay	91.5	60	e 23 42	?[S]	(e 23 42)	[+ 5]	—	—
Rio Tinto	92.6	348	25 30?	?PS	—	—	—	56.5
Hyderabad	93.1	65	23 5	?[S]	(23 5)	[- 42]	—	55.8
Toledo	94.4	351	—	—	30 33	?SR ₁	e 44.0	59.5
Tortosa	N. 95.0	355	—	—	—	—	e 44.5	50.4
Pompeii	95.0	6	e 24 46	?S	(e 24 46)	- 20	—	—
Rocca di Papa	95.8	4	—	—	e 24 7	[+ 6]	—	—
Moncalieri	E. 99.0	0	e 17 54	[+ 11]	24 57	[+ 38]	31.9	—
Florence	99.2	4	—	—	—	—	—	40.5
Tiflis	E. 100.7	29	e 18 13	?PR ₁	—	—	42.5	51.0
Baku	101.0	32	e 18 8	?PR ₁	—	—	47.5	54.4
Graz	101.3	6	—	—	—	—	e 54.5	—
Budapest	101.9	9	e 18 0	?PR ₁	—	—	e 55.5	—
Strasbourg	102.6	0	e 17 30?	[- 26]	e 27 30?	?PS	45.5	57.5
Paris	102.9	357	—	—	e 29 11	?	50.5	57.5
Cheb	104.1	4	—	—	e 25 30?	?Σ	—	53.5
Feldberg	N. 104.2	1	—	—	e 26 52	+ 17	e 53.0	55.3
Prague	104.2	5	—	—	—	—	e 53.5	61.5
Uccle	104.9	358	—	—	e 27 36	?PS	e 48.5	59.1
Makeyevka	105.1	21	e 18 31	?PR ₁	e 26 17	- 26	35.5	53.9
Kew	105.7	355	—	—	e 27 30?	?PS	49.5	56.7
Oxford	106.0	354	—	—	—	—	e 48.5	60.2
De Bilt	106.1	359	—	—	e 27 54	?PS	e 49.5	59.8
Hamburg	107.6	2	e 18 47	?PR ₁	e 28 8	?PS	e 56.5	63.5
Stonyhurst	108.2	355	—	—	e 25 32	[+ 30]	e 52.3	59.8
Tashkent	108.7	45	i 19 6	?PR ₁	28 24	?PS	e 42.5	57.5
Copenhagen	109.8	3	e 18 30?	[+ 9]	e 28 30	?PS	49.5	64.8
Edinburgh	110.2	354	—	—	—	—	e 53.5	63.5
Dyce	111.5	354	—	—	e 28 40	?PS	—	65.2
Phu-Lien	111.7	84	—	—	—	—	48.5	—
Kucno	112.5	18	—	—	—	—	e 66.5	—
Upsala	114.1	5	—	—	—	—	e 63.5	71.0
Pulkovo	115.2	12	e 19 38	?PR ₁	e 29 20	?PS	56.5	70.4
Hong Kong	117.3	87	—	—	—	—	—	61.5
Ekaterinburg	118.8	30	e 20 11	?PR ₁	e 28 10	- 30	47.5	53.5
Ottawa	122.1	305	—	—	e 37 0	?SR ₁	e 50.5	—
Irkutsk	132.8	56	e 21 47	?PR ₁	e 24 40	?PR ₂	63.5	78.6

For Notes see next page.

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NOTES TO Nov. 14d. 15h. 4m. 30s.

Additional readings : Rio de Janeiro eP = +15m.59s. = S - 10s. Sucre PR₁ = +14m.8s., SR₁ = +23m.5s.; T₀ = 15h.4m.26s. La Paz PR₁ = +14m.37s., iSN = +20m.27s., PS = +21m.2s. = [S] + 0s., SR₁E = +24m.32s.; T₀ = 15h.4m.24s. Riverview MN = +48.9m. Ksara PR₁ = +17m.6s., PR₂ = +19m.0s., PR₃ = +20m.17s., PS = +25m.17s., SR₁ = +30m.17s., SR₂ = +34m.25s.; T₀ = 15h.4m.42s. San Fernando MN = +53.0m. Toledo MNW = +59.7m. Rocca di Papa e = +24m.32s. = Σ - 9s. Tiflis eE = +23m.55s. and +32m.25s. = SR₁ - 22s. Baku e = +24m.40s. = [S] + 11s., +25m.42s., +30m.23s., and +32m.40s. = SR₁ - 10s., MN = +52.4m., MZ = +63.8m. Feldberg eN = +28m.32s. and +33m.21s. = SR₁ - 9s. Prague e = +45m.30s. ? Uccle MN = +57.5m. Makeyevka e = +33m.21s., MZ = +60.7m., MN = +65.7m. Kew MN = +57.0m., MZ = +57.8m. Oxford MN = +61.0m. De Bilt MZ = +63.5m., MN = +63.6m. Hamburg, MNZ = +60.5m. Stonyhurst e = +31m.52s. and +42m.9s. Tashkent eSR₁ = +33m.30s., MN = +58.6m., MZ = +60.0m. Copenhagen PE = +25m.30s. ? = [S] + 21s., eSR₁EN = +34m.24s., eSR₁N = +38m.30s., MN = +63.1m. Upsala MN = +71.7m. Pulkovo MN = +69.7m. Ekaterinburg e = +20m.25s. = PR₁ + 9s., +30m.2s. = PS - 30s., and +36m.40s. = SR₁ + 8s., MNZ = +72.2m. Irkutsk e = +31m.55s., MZ = +78.9m.

Nov. 14d. 19h. 44m. 10s. Epicentre 25°·0N. 141°·5E. (as on 1921 July 4d.).

A = -·709, B = +·564, C = +·423; D = +·622, E = +·783;
G = -·331, H = +·263, K = -·906.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sumoto	10.9	329	2 50	+ 7	—	—	9.8	10.6
Osaka	11.0	333	1 42	-62	(4 59)	+ 5	5.0	12.0
Kobe	11.1	332	e 3 19	+33	—	—	—	—
Toyooka	12.0	333	2 57	- 2	—	—	9.1	11.4
Nagasaki	12.8	310	—	—	—	—	e 6.3	—
Hukuoka	12.9	313	e 3 5	- 7	—	—	e 8.2	11.2
Zi-ka-wei	18.7	294	i 4 57	+32	8 35	+40	—	—
Manila	21.9	246	e 5 8	+ 4	i 9 17	+14	i 11.8	—
Hong Kong	25.1	270	5 30	- 9	—	—	—	10.2
Phu-Lien	32.3	271	—	—	10 50?	-83	—	—
Irkutsk	39.1	325	e 7 29	-18	e 13 19	-34	—	—
Ekaterinburg	64.3	325	—	—	e 19 4	-13	—	—
Baku	75.3	310	e 11 49	- 2	e 21 35	+ 6	—	—
Tiflis	e. 78.4	312	—	—	e 21 46	-19	e 48.8	50.3

Additional readings and note: Sumoto MN = +10.8m. Osaka MN = +13.1m. Irkutsk e = +9m.10s. = PR₁ + 0s.; all readings are given as simply e. Tiflis eE = +40m.41s.

Nov. 14d. Readings also at 0h. (Ksara), 2h. (La Paz), 3h. (Ksara), 7h. (Manila), 10h. (Santiago), 11h. (Tiflis), 14h. (La Paz), 17h. (Copenhagen and Pulkovo), 18h. (Denver), 21h. (Stonyhurst and near Toyooka).

Nov. 15d. 8h. 29m. 16s. Epicentre 51°·0N. 179°·0E.

A = -·629, B = +·011, C = +·777; D = +·017, E = +1.000;
G = -·777, H = +·014, K = -·629.

A depth of focus 0.010 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Otomari	-0.5	24.0	274	5 11	-12	(9 35)	0	9.6	9.8
Mizusawa	e. -0.7	28.9	261	6 9	- 1	10 54	- 9	—	—
	n. -0.7	28.9	261	6 10	0	11 8	+ 5	—	—
Honolulu T.H.	e. -0.8	34.8	141	—	—	—	—	e 14.7	16.3
	n. -0.8	34.8	141	—	—	—	—	e 15.2	16.1
Osaka	-0.8	35.2	260	7 6	- 2	(12 38)	- 8	12.6	12.7

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.	s.		
Victoria	E.	-0.8	36.4	70	7	4	-14	(12 42)	-22	12.7	—	—
	N.	-0.8	36.4	70	7	14	-4	(12 52)	-12	12.9	15.9	—
Hukuoka		-0.8	39.0	264	7	36	-4	—	—	13.6	—	—
Nagasaki		-0.8	40.0	264	7	43	-5	(13 51)	-3	13.8	13.9	—
Berkeley		-0.9	42.7	85	e 8	0	-9	e 14 17	-15	—	—	—
Irkutsk		-0.9	44.2	302	i 8	13	-7	e 15 1	+9	19.2	28.1	—
Zi-ka-wei		-0.9	46.3	269	i 8	33	-3	e 15 23	+3	—	25.9	—
Tucson	N.	-1.1	53.4	84	i 9	26	+4	i 16 50	+2	e 23.0	24.4	—
Hong Kong		-1.1	57.1	266	e 9	54	+8	i 17 46	+12	e 27.2?	—	—
Manila		-1.2	58.8	256	e 10	31	+35	(i 18 38)	+44	i 18.6	—	—
Ekaterinburg		-1.2	60.8	326	i 10	19	+10	i 18 31	+13	e 27.7	32.6	—
St. Louis	E.	-1.2	61.4	63	i 10	15	+2	e 18 11	-15	e 28.7	32.7	—
	N.	-1.2	61.4	63	e 10	16	+3	e 18 14	-12	—	—	—
Phu-Lien		-1.2	63.0	271	i 10	33	+9	e 18 52	+6	29.7	—	—
Toronto		-1.2	63.6	52	e 11	1	+33	i 18 51	-2	25.7	—	—
Ottawa		-1.2	64.1	49	e 11	10	+39	e 18 56	-4	e 26.2	—	—
Cincinnati		-1.2	64.2	60	i 10	37	+5	e 18 56	-5	e 29.7	—	—
Ithaca		-1.2	65.9	51	—	—	—	—	—	30.7	—	—
Pulkovo		-1.2	66.4	344	i 10	49	+3	19 28	+1	30.7	38.1	—
Helsingfors	N.	-1.2	66.9	347	i 11	14	+25	20 4	+31	33.7	38.7	—
Upsala		-1.3	68.1	350	i 10	58	+1	i 19 47	-1	e 31.7	42.0	—
Fordham		-1.3	68.3	51	e 10	46	-12	—	—	29.4	—	—
Kucino		-1.3	68.5	337	i 10	35	-24	19 22	-30	32.8	37.4	—
Tacubaya		-1.3	69.9	85	i 11	2	-6	20 2	-7	—	—	—
Copenhagen		-1.3	72.7	353	e 11	27	+1	—	—	34.7	—	—
Edinburgh		-1.3	73.1	0	—	—	—	i 20 49	+1	38.7	—	—
Simla	N.	-1.3	73.1	299	e 11	38	+10	—	—	—	—	—
Hamburg		-1.3	75.0	354	i 11	43	+3	i 21 12	+2	e 36.7	50.7	—
Stonyhurst		-1.3	75.1	0	i 21	13	PS	(i 21 13)	+1	25.1	—	—
Makeyevka		-1.3	75.5	334	e 11	45	+2	—	—	e 37.7	43.0	—
De Bilt		-1.3	77.0	355	e 11	52	-1	21 32	-2	e 36.7	47.7	—
Oxford		-1.3	77.3	0	—	—	—	i 21 34	-3	—	—	—
Kew		-1.4	77.5	359	i 11	56	0	e 21 38	0	37.7	48.7	—
Jena	N.	-1.4	77.5	351	e 15	44?	PR ₁	—	—	—	—	—
Uccle		-1.4	78.1	356	e 11	59	—	e 21 44	-1	e 31.7	48.3	—
Prague		-1.4	78.1	349	e 10	44?	-75	e 21 47	+2	e 40.7	49.7	—
Cheb		-1.4	78.3	350	e 11	2	-58	e 22 48	PS	e 56.7	63.7	—
Baku		-1.4	78.4	323	i 12	4	+3	e 21 56	+7	38.1	44.7	—
Feldberg	N.	-1.4	78.5	353	e 16	52	PR ₃	e 21 32	-18	e 37.8	41.0	—
Tiflis	E.	-1.4	79.1	326	e 12	44	+39	e 21 56	-1	—	45.8	—
	N.	-1.4	79.1	326	e 12	4	-1	e 22 11	[-6]	e 40.8	45.7	—
Vienna		-1.4	79.6	349	i 12	8	—	e 23 4	PS	40.7	—	—
Strasbourg		-1.4	80.2	353	i 12	9	-3	i 22 8	-2	35.7	—	—
Paris		-1.4	80.2	357	—	—	—	i 22 11	+1	46.7	—	—
Ravensburg		-1.4	80.7	353	—	—	—	—	—	e 42.3	—	—
Graz		-1.4	80.9	348	i 12	13	-3	i 23 21	PS	38.7	49.8	—
Zurich		-1.4	81.3	353	e 12	16	-2	i 22 20	-2	—	—	—
Neuchatel		-1.4	81.7	353	e 12	20	-1	e 22 20	-7	—	—	—
Zagreb	N.E.	-1.4	82.1	348	e 12	20	-3	e 23 27	PS	—	—	—
	N.W.	-1.4	82.1	348	e 12	22	-1	e 23 34	PS	—	—	—
Hyderabad		-1.4	82.9	289	(12 22)	-6	—	(22 40)	-1	(43.1)	(52.1)	—
Moncalieri		-1.4	83.7	354	e 11	46	-46	22 48	-1	43.0	—	—
Florence		-1.4	84.6	350	e 10	59	0	—	—	—	—	—
Bombay		-1.4	85.0	294	i 12	40	0	23 0	-5	e 43.4	—	—
Rocca di Papa	N.	-1.4	86.5	349	e 12	39	-10	—	—	—	—	—
Pompeii		-1.4	87.2	348	e 13	9	+17	e 22 39	-49	—	—	—
Ksara		-1.4	89.1	330	i 13	0	-3	e 23 50	+1	37.7	—	—
Toledo	N.E.	-1.4	89.1	1	—	—	—	e 23 42	-7	—	41.2	—
Rio Tinto		-1.4	91.2	1	21	44?	+8	—	—	—	45.7	—
Granada		-1.4	91.8	1	i 13	46	+28	e 24 32	+14	—	—	—
Almeria		-1.4	92.1	0	—	—	—	e 24 27	+6	44.5	—	—
La Paz		—	117.1	82	e 18	40	[-4]	29 45	PS	55.2	—	—
Sucre		—	120.8	81	i 19	14	[-20]	i 27 12	PS	—	—	—
La Plata		—	136.6	89	(23 2)	?	?	—	—	23.0	—	—

Additional readings and notes: Osaka MN = +13.9m. Berkeley eZ = +8m.18s., eSZ = +14m.18s., eSR₁EZ = +18m.21s. Irkutsk PR₁ = +9m.59s., SR₁ = +18m.2s., MZ = +27.9m. Tucson eN = +12m.0s. PR₁ + 21s., and +20m.16s. Ekaterinburg I = +10m.39s., +11m.13s., +12m.25s. = PR₁ - 27s., and +22m.13s., iPR₂ = +14m.8s., e = +18m.19s., iSR₂ = +25m.17s., MN = +32.8m. St. Louis ePR₁N = +12m.55s., iPR₁E = +14m.24s. = PR₁ + 19s., iPSN = +18m.23s., iE = +18m.54s., iN = +18m.58s., iSR₁E = +22m.39s., iSR₂E = +24m.35s., iSR₂N = +24m.39s.,

Continued on next page.

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eSR₂ = +25m.40s., eP₀SS₀PE = +26m.14s. Ottawa e = +14m.48s. = PR₁ + 10s., iN = +20m.14s. = [S] - 8s. Cincinnati iPN = +10m.39s., ePR₁N = +13m.11s., ePPSSN? = +23m.33s., eSR₁N? = +23m.34s. Pul- kovo PR₂ = +14m.47s., SR₁ = +23m.50s., MZ = +37.2m., MN = +37.3m. Helsingfors ePZ = +11m.11s., PR₁N = +12m.51s., PR₂N = +14m.55s., MZ = +41.2m., Fordham i = +10m.49s. Kucino e = +10m.59s., PR₂ = +14m.47s., PS = +19m.55s., SR₁ = +23m.43s., SR₂ = +27m.17s., MN = +38.5m. Tacubaya readings are given as for 9h. Stonyhurst eS? = +23m.41s. Makeyevka PR₁ = +14m.58s., PS = +22m.11s., e = +23m.6s., MN = +46.9m., MZ = +47.5m. De Bilt MN = +37.7m. Baku PR₁ = +14m.59s., SR₁ = +26m.55s., SR₂ = +31m.57s., MZ = +49.9m., Feldberg eN = +22m.25s. = [S] + 12s., and +33m.2s. Tifis PR₁N = +15m.9s., PR₁E = +15m.10s., eN = +18m.4s. = PR₂ - 13s., eE = +15m.7s. = PR₂ - 10s., and +32m.25s. = SR₂ - 18s. Vienna iN = +14m.21s. Strasbourg PR₁ = +15m.12s., PR₂ = +17m.29s., PS = +22m.38s. Ravensburg eL = +48.0m. Zurich iP = +12m.17s. Zagreb ePR₁NE = +13m.2s., ePR₂NE = +14m.54s., eNE = +17m.54s. = PR₂ + 3s., eNW = +22m.6s. = [S] + 32s. Hyderabad readings have all been diminished by 10m. Rocca di Papa ePZ = +12m.41s., eE = +13m.18s. Granada i = +17m.3s. = PR₁ - 6s., La Paz i = +20m.38s. = PR₁ + 33s., iPR₁? = +25m.24s. = [S] - 12s., SR₂N = +36m.0s. = SR₁ - 11s.

Nov. 15d. 14h. 39m. 12s. Epicentre 33°-5N. 48°-0E.

A = +.558, B = +.620, C = +.552; D = +.743, E = -.669;
G = +.369, H = +.410, K = -.834.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	7.1	12	e 1 58	+ 10	e 3 32	+ 19	5.2	6.9
Tifis	E. 8.6	343	e 2 27	+ 17	e 3 41	- 12	e 4.4	6.1
N.	8.6	343	e 2 7	- 3	e 3 42	- 11	e 4.4	6.1
Ksara	E. 10.1	275	2 34	+ 3	4 34	+ 2	6.8	—
Helwan	14.6	260	e 3 13	- 21	e 7 10	+ 48	—	12.3
Makeyevka	16.4	336	—	—	e 7 4	0	9.8	—
Ekaterinburg	24.9	17	i 5 28	- 9	e 10 6	+ 5	13.8	—
Pulkovo	28.7	341	e 3 10	?	—	—	15.8	—
Copenhagen	33.1	323	—	—	—	—	20.8	—
Irkutsk	44.0	47	—	—	—	—	e 19.8	—

Additional readings: Baku MZ = +6.2m. Ksara LN = +5.7m. Ekaterinburg i = +10m.14s., and +10m.29s. Irkutsk L = +27.5m.

Nov. 15d. 21h. 48m. 36s. Epicentre 70°-0N. 128°-0E. (as on Nov. 14d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	20.8	224	e 4 53	+ 2	8 29	- 11	9.4	17.5
Ekaterinburg	30.8	280	16 35	- 1	i 11 37	- 11	i 14.2	20.7
Pulkovo	38.0	305	17 30	- 8	i 13 20	- 18	21.4	25.2
Zi-ka-wei	39.0	188	e 7 41	- 5	e 16 48	?SR ₁	—	26.2
Kucino	39.1	295	17 40	- 7	13 36	- 17	20.2	25.3
Helsingfors	39.1	309	17 38	- 9	13 38	- 15	22.4	25.9
Tashkent	41.0	259	1 8 6	+ 3	i 14 20	- 1	19.3	25.8
Upsala	41.2	314	7 55	- 10	e 14 6	- 18	—	26.3
Taihoku	N. 45.1	188	e 3 1	?	—	—	—	—
Makeyevka	45.7	290	i 8 34	- 4	i 15 17	- 7	20.7	31.8
Copenhagen	46.1	315	8 35	- 6	15 20	- 9	24.4	27.1
Simla	47.9	243	—	—	e 15 54	+ 1	e 24.1	—
Hong Kong	E. 48.4	196	—	—	—	—	—	27.7
Baku	48.6	275	18 56	- 2	i 15 59	- 2	27.4	33.8
Hamburg	48.7	315	18 57	- 1	e 16 10	- 2	e 24.4	29.2
Potsdam	49.0	315	e 9 1	+ 1	—	—	e 23.9	—
Tifis	E. 49.1	280	e 9 0	- 1	16 5	- 2	e 28.4	34.5
N.	49.1	280	e 8 59	- 2	16 5	- 2	29.2	34.3
Edinburgh	49.4	325	e 6 54	?	—	—	e 29.4	36.4
Phu-Lien	50.8	205	e 9 13	+ 1	e 16 28	- 1	24.4	—
Prague	50.8	309	e 11 24?	?PR ₁	—	—	e 29.4	31.4
Victoria	E. 51.0	55	16 39	?S	(16 39)	+ 8	27.9	—
N.	51.0	55	16 34	?S	(16 34)	+ 8	28.0	34.0
Stonyhurst	51.1	323	—	—	—	—	e 25.2	37.1

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.
De Bilt	51.2	317	i 9 15	+ 1	e 16 35	+ 1	e 24.4	30.0
Cheb	51.3	310	e 9 16	+ 1	e 16 38	+ 3	e 28.4	34.4
Vienna	51.9	308	i 9 20	+ 1	16 16	-27	125.7	29.4
Budapest	51.9	305	e 9 24?	+ 5	—	—	—	—
Feldberg	52.2	315	e 9 25	+ 4	—	—	e 28.4	31.0
Uccle	52.5	319	i 9 24	+ 1	e 16 53	+ 3	e 24.4	39.0
Oxford	52.9	322	9 34	+ 9	16 58	+ 3	21.2	38.3
Kew	53.0	321	i 9 28	+ 2	e 16 52	- 4	28.4	31.4
Graz	53.2	309	—	—	—	—	e 26.4	—
Strasbourg	53.9	315	i 9 34	+ 2	e 17 5	- 3	e 26.4	37.4
Ravensburg	54.1	313	e 24 32	?	e 27 8	?	e 28.4	—
Zagreb	N.E. 54.3	307	e 9 40	+ 5	e 17 10	- 3	e 29.3	—
	N.W. 54.3	307	e 10 0	+25	e 17 15	+ 2	e 26.4	28.9
Paris	54.8	319	—	—	e 17 21	+ 2	31.4	34.4
Zurich	54.8	313	i 9 41	+ 3	—	—	—	—
Neuchatel	55.5	313	e 9 47	+ 4	e 17 34	+ 6	—	—
Besançon	55.6	315	—	—	—	—	e 29.4	—
Moncalieri	E. 57.2	313	8 34	-79	15 34	-135	22.8	—
Florence	57.4	308	—	—	e 12 24?	?PR ₁	—	33.4
Rocca di Papa	58.9	307	—	—	—	—	e 33.0	41.7
Ksara	59.2	284	9 39	-27	17 39	-34	26.2	—
Bombay	60.7	242	18 53	?S	(18 53)	+21	—	38.2
Tortosa	N. 62.9	318	—	—	—	—	e 35.4	37.0
Ottawa	63.4	17	—	—	—	—	e 32.4	—
Toledo	N.W. 64.8	320	—	—	—	—	e 34.6	38.7
Almeria	E. 67.3	319	—	—	—	—	—	42.6
Rio Tinto	67.4	322	41 24?	?L	—	—	(41.4)	44.4
San Fernando	E. 68.6	321	—	—	—	—	—	43.9
Colombo	70.1	233	19 58	?S	(19 58)	-29	—	45.3
La Paz	125.6	20	e 19 7	[0]	—	—	—	—

Additional readings: Irkutsk i = +4m.59s., MZ = +12.9m. Ekaterinburg PR₁ = +7m.27s., i = +8m.12s., and +9m.26s., SR₁ = +13m.9s., SR₂ = +13m.44s., MNZ = +21.1m. Pulkovo PR₁ = +9m.6s., SR₁ = +15m.30s., MN = +23.8m. Kucino PR₁ = +9m.8s., MN = +25.4m., MZ = +26.3m. Helsingfors PR₁E = +9m.9s., PR₁N = +9m.14s., SR₁E = +16m.42s. Tashkent i = +9m.55s., +14m.8s., and +17m.20s. = SR₁ +12s., SR₁ = +17m.6s. Makeyevka SR₁ = +18m.39s., MZ = +29.9m., MN = +30.1m. Copenhagen SR₁ = +19m.12s., and +20m.24s. = SR₁ -6s., MN = +29.1m. Hong Kong MN = +31.9m. Baku e = +19m.41s. = SR₁ +1s., i = +20m.48s. = SR₂ -12s., MZ = +33.1m., MN = +33.2m. Hamburg iE = +23m.57s., MN = +29.1m., MZ = +31.4m. Tiflis ePR₁N = +10m.53s., ePR₁E = +10m.58s., ePR₂ = +11m.51s., ePSN = +16m.14s., SR₁ = +19m.33s. De Bilt MZ = +35.2m., MN = +36.6m. Vienna PR₁ = +11m.13s., SR₂ = +22m.1s. Uccle SR₁ = +20m.47s., MN = +34.7m. Kew MN = +36.0m., MZ = +38.0m. Rocca di Papa e = 21h.31m.18s. Ksara LN = +36.0m.; T₀ = 21h.48m.16s. Ottawa e = +26m.36s. Almeria MZ = +40.0m.

Nov. 15d. Readings also at 4h. (near Toyooka), 6h. (Adelaide, Riverview, Wellington, Ekaterinburg, and Tiflis), 7h. (De Bilt and Tiflis), 9h. (Feldberg and near Ksara), 12h. (Apia and Ksara), 13h. (Ekaterinburg), 15h. (near Toyooka), 17h. (Tashkent), 19h. (Tiflis and Tashkent), 20h. (Tiflis), 23h. (Zi-ka-wei).

Nov. 16d. 1h. 27m. 0s. Epicentre 27°-5N. 53°-8E. (as on 1924 June 30d.).

A = +.524, B = +.716, C = +.462; D = +.809, E = -.591;
G = +.273, H = +.373, K = -.887.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	13.3	347	e 3 18	+ 1	e 5 56	+ 5	9.2	11.5
Tiflis	16.0	335	e 3 58	+ 6	e 7 8	+13	9.0	11.0
Tashkent	18.7	39	i 4 27	+ 2	—	—	e 9.6	13.0
Makeyevka	23.9	333	—	—	—	—	e 12.6	—
Ekaterinburg	29.7	8	e 6 12	-13	e 11 12	-17	14.0	17.2
Pulkovo	36.0	340	e 8 14	?PR ₁	—	—	22.0	—

Additional readings: Baku e = +6m.33s., and +7m.30s., MZ = +13.0m., MN = +13.3m. Tiflis eSN? = +7m.7s., MN = +10.0m. Tashkent i = +5m.2s., and +5m.19s., MZ = +12.4m., MN = +13.4m. Makeyevka L = +19.0m. Ekaterinburg. MN = +19.5m., MZ = +19.7m.

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Nov. 16d. 21h. 10m. 9s. Epicentre 7°·0N. 126°·0E.

(as on 1925 April 23d.).

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

A depth of focus 0·020 has been adopted; see the note at the end.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m. m.	m. m.
Manila	-0·2	9·0	327	i 2 7	- 6	i 5 27	?	i 6·6	7·1
Ambaina	-0·2	10·9	169	i 2 34	- 6	i 4 35	- 13	—	—
Taihou	N. -0·7	18·5	347	4 32	+ 17	(8 9)	+ 33	8·2	—
Hong Kong	-0·7	19·1	325	4 31	+ 9	(8 1)	+ 12	8·0	8·1
Phu-Lien	-1·0	23·2	308	i 5 8	+ 1	—	- 63	8·8	10·1
Malabar	-1·0	23·2	232	i 5 3	- 4	i 9 19	+ 10	—	—
Batavia	-1·0	23·2	236	i 5 16	+ 9	9 31	+ 22	—	—
Zi-ka-wei	-1·1	24·6	350	i 5 19	- 4	i 9 43	+ 8	—	14·7
Nagasaki	-1·2	26·0	8	e 5 40	+ 4	—	—	11·3	—
Hukuoka	-1·2	26·9	8	e 5 36	- 9	—	—	12·5	16·5
Sumoto	-1·3	28·5	15	e 5 19	- 41	e 9 25	- 80	e 13·3	—
Kobe	-1·3	28·9	16	e 6 0	- 4	9 56	- 56	13·4	15·5
Osaka	-1·3	29·0	16	e 6 2	- 3	—	—	12·0	13·4
Nagoya	-1·4	29·9	18	e 6 8	- 5	—	—	—	—
Mizusawa	E. -1·6	34·9	21	e 6 53	- 6	11 57	- 32	16·8	—
	N. -1·6	34·9	21	e 6 55	- 4	12 27	- 2	15·6	—
Calcutta	N. -1·7	39·4	297	7 26	- 10	13 28	- 6	—	—
Perth	-1·7	40·1	194	i 7 37	- 4	i 13 28	- 16	17·7	19·3
Adelaide	-1·8	43·6	166	i 7 56	- 13	i 14 15	- 17	18·8	28·3
Colombo	-1·9	45·8	273	8 21	- 4	(14 59)	- 2	15·0	15·1
Riverview	-2·0	47·3	152	i 8 30	- 5	i 15 14	- 5	e 19·8	30·7
Sydney	E. -2·0	47·3	152	8 39	+ 4	i 15 9	- 10	18·6	20·4
Hyderabad	-2·0	47·5	288	8 40	+ 3	i 15 26	+ 5	22·4	25·8
Kodaikanal	-2·0	48·1	278	8 9	- 32	(15 3)	- 26	15·0	37·2
Irkutsk	-2·0	48·6	343	i 8 43	- 1	i 15 43	+ 7	20·4	26·4
Dehra Dun	-2·1	50·5	306	8 8	- 48	14 8	- 111	18·9	19·5
Simla	-2·2	51·5	306	e 9 9	+ 7	i 16 33	+ 23	—	—
Bombay	-2·2	52·9	289	9 35	+ 24	i 16 35	+ 8	e 24·4	25·2
Tashkent	-2·4	60·7	316	i 10 13	+ 12	i 18 28	+ 25	27·8	38·6
Apia	-2·5	65·2	109	e 10 59	+ 29	i 19 16	+ 19	30·5	32·2
Christchurch	-2·5	65·8	146	e 11 3	+ 29	i 19 27	+ 22	36·4	44·4
Wellington	E. -2·5	65·8	143	i 10 38	+ 4	i 19 12	+ 7	30·4	38·1
	N. -2·5	65·8	143	i 10 55	+ 21	i 19 5	0	31·3	32·4
Elaterinburg	-2·6	70·8	329	i 11 20	+ 15	i 20 27	+ 23	31·4	38·2
Honolulu T.H.	N. -2·6	74·4	70	—	—	i 21 11	+ 23	e 30·2	—
Baku	-2·6	74·9	311	i 11 39	+ 7	i 21 12	+ 18	35·2	38·8
Tiflis	E. -2·7	78·8	313	e 11 59	+ 3	e 21 51	+ 13	e 38·4	47·6
	N. -2·7	78·8	313	e 11 59	+ 3	i 21 53	+ 15	e 35·4	44·1
Kucino	-2·7	83·1	325	i 12 23	+ 2	22 42	+ 14	37·4	50·0
Makyeveka	-2·7	83·4	320	i 12 24	+ 1	22 38	+ 7	38·8	47·2
Kasra	N. -2·7	86·2	305	e 12 44	+ 5	i 23 12	+ 9	38·6	—
Pulkovo	-2·7	86·8	330	i 12 41	- 2	i 23 24	+ 15	39·8	53·6
Helsingfors	-2·8	89·3	331	e 12 51	- 5	23 35	—	44·8	54·8
Helwan	-2·8	90·4	300	e 12 58	- 5	23 21	—	—	55·5
Konigsberg	-2·8	93·0	326	—	—	i 23 48	[+ 9]	e 34·4	46·8
Upsala	-2·8	93·0	332	—	—	24 4	- 12	e 42·8	48·6
Entebbe	-2·8	93·5	273	i 13 4	- 16	23 30	[+ 19]	51·5	—
Budapest	-2·8	96·0	320	e 13 20	- 13	i 23 54	[+ 8]	e 36·4	53·8
Copenhagen	-2·8	97·1	330	i 13 33	- 7	24 33	- 26	36·8	52·4
Vienna	-2·8	97·5	322	e 13 34	- 8	24 43	- 20	e 35·8	61·8
Potsdam	-2·8	98·0	326	e 9 51?	?	—	—	e 45·8	49·8
Victoria	E. -2·8	98·1	40	i 13 36	- 9	24 11	[+ 3]	45·4	46·0
	N. -2·8	98·1	40	i 13 38	- 7	24 11	[+ 3]	41·2	41·7
Prague	-2·8	98·1	324	e 14 51?	+ 66	e 24 9	[+ 5]	e 44·8	55·8
Grz	-2·8	98·5	321	e 17 38	[+ 3]	e 27 31	—	36·8	62·0
Zagreb	N.E. -2·8	98·6	319	i 17 51?	[+ 10]	e 24 3	[+ 14]	e 32·5	—
	N.W. -2·8	98·6	319	—	—	e 24 6	[+ 11]	e 32·4	—
Hamburg	-2·8	99·2	327	e 13 42	- 9	e 24 13	[+ 7]	e 40·8	50·8
Cheb	-2·8	99·3	324	e 13 58	+ 6	e 24 10	[+ 10]	e 43·8	53·8
Jena	E. -2·8	99·4	325	e 13 51	- 1	e 24 45	- 37	e 44·8	52·6
	N. -2·8	99·4	325	—	—	e 25 3	- 19	e 42·8	52·6
Venice	-2·9	101·1	320	14 51?	+ 50	—	—	—	—

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.	s.	m.	s.		
Pompeii	-2.9	101.3	314	e 18	45	\geq PR ₁	e 23	45	[-5]	42.8			
Feldberg	N. -2.9	101.6	324				e 23	48	[-44]	e 47.2	51.8		
Ravensburg	-2.9	101.9	323	e 17	7	[-47]	24	18	[-15]	e 50.5	61.2		
Rocca di Papa	E. -2.9	102.2	315	e 17	42	[-13]	e 26	25	+36	e 41.6	55.4		
	Z. -2.9	102.2	315	e 14	58	+51				e 55.2			
Florence	-2.9	102.4	317	e 14	21	+13	24	41	[+ 5]	38.8	50.8		
Berkeley	E. -2.9	102.4	50				e 24	34	[- 2]	e 47.1			
Chur	-2.9	102.4	322	13	54	-14							
De Bilt	-2.9	102.5	327	13	57	-12	e 24	29	[- 7]	e 44.8	54.4		
Strasbourg	-2.9	102.7	324	e 13	51	-19	e 25	38	-16	e 49.8	65.4		
Zurich	-2.9	102.7	322	e 13	42	-28							
Dyce	-2.9	103.2	335				i 24	36	[- 3]	44.9	56.0		
Uccle	-2.9	103.6	325	e 13	59	-15	i 24	35	[- 6]	e 33.8	55.1		
Neuchatel	-2.9	103.9	322	e 13	49	-26	e 23	17	[-85]				
Moncalieri	-2.9	104.2	320	e 14	14	-3	e 24	32	[-12]	36.1	61.7		
Besancon	-2.9	104.3	322	e 21	42	?				41.8	64.8		
Edinburgh	-2.9	104.5	333	e 18	21	[+18]	i 25	55	\geq ?	46.8	59.8		
Stonyhurst	-2.9	105.4	331	e 18	32	[+26]	24	42	[- 7]	46.4	53.9		
Paris	-2.9	105.6	324				e 24	43	[- 7]	50.8	54.8		
Kew	-2.9	105.7	330	e 14	1	-23	e 24	42	[- 9]	47.8	55.2		
Oxford	-2.9	106.0	330				24	41	[-11]	45.4	62.4		
Bidston	-2.9	106.0	331	24	44	\geq [S]	24	44	[- 8]	46.0	57.6		
Cape Town	-3.0	108.4	236	24	55	\geq [S]	(24 55)						
Tortosa	N. -	110.8	319	e 19	16	\geq PR ₁	28	44	\geq PS	e 44.8	58.8		
Algiers	-	111.0	314	e 13	47	?	e 25	5	[- 9]	e 45.8	59.8		
Alicante	-	112.8	317	e 19	36	\geq PR ₁	e 30	19	?	e 42.5	58.1		
Tucson	-	113.2	50	e 20	58	?				e 52.2			
Toledo	-	114.3	320	e 19	18	\geq PR ₁	e 29	13	\geq PS	e 41.0	57.5		
Almeria	-	114.8	316	i 19	45	\geq PR ₁	29	9	\geq PS	56.5	67.6		
Granada	-	115.5	316	i 20	7	\geq PR ₁	i 24	57	\geq PR ₂	49.2	55.8		
Malaga	-	116.3	316	e 20	9	\geq PR ₁	e 33	15	?	42.7			
Rio Tinto	-	117.2	320	19	51	\geq PR ₁					72.8		
San Fernando	-	117.6	317	19	9	[+23]	29	49	\geq PS	55.8	68.8		
Chicago	E. -	122.4	30				e 37	17	\geq SR ₁	e 58.4	59.0		
St. Louis	E. -	123.4	33	e 14	51	?	i 24	40	?	52.0	54.2		
Ann Arbor	N. -	123.8	26							e 59.8			
Ottawa	-	124.1	17				25	51	[- 6]	e 56.5	65.8		
Toronto	-	124.4	21	e 20	36	\geq PR ₁	e 26	8	[+10]	65.0	65.8		
Cincinnati	N. -	125.9	29	e 20	8	[+60]				e 54.8	61.8		
Ithaca	-	126.5	20							63.8			
Balboa Heights	-	150.0	58	e 19	51	[- 5]							
La Plata	-	151.9	173	19	56	[- 3]				65.8			
Rio de Janeiro	-	161.0	212	e 20	31	[+22]							
La Paz	-	163.3	126	e 20	3	[- 7]				75.4	85.0		
Sucre	-	163.8	138	i 20	3	[- 8]				64.4	95.4		

Additional readings: Malabar iP = +5m.6s., iN = +5m.20s. Batavia iP = +5m.18s., iN = +5m.22s., +5m.37s., and +6m.12s., iZ = +5m.30s., i = +5m.31s. Osaka MN = +14.3m. Perth iP = +7m.48s., PR₁ = +9m.31s., SR₁ = +15m.39s. Adelaide iPR₂ = +9m.57s., iSR₂ = +17m.36s. = SR₁ + 12s., MN = +27.6m. Riverview iZ = +10m.17s., PR₁ = +10m.23s., PS = +15m.23s. and +15m.46s., iSR₂ = +18m.39s., +18m.51s., +19m.4s., and +19m.8s., eLE = +24.0m., eLN = +25.0m., MN = +29.4m., MZ = +29.5m.; T₂ = 21h.9m.59s. Irkutsk PR₁ = +10m.43s., PR₂ = +11m.23s., MN = +26.3m., MZ = +35.1m.; epicentre 7°46'N. 124°58'E. Simla PN = +9m.27s. Tashkent ePR₁ = +12m.27s., ePR₂ = +14m.9s., eSR₁ = +22m.27s., eSR₂ = +24m.51s. f, MN = +34.2m., MZ = +38.4m. Apia PR₁ = +13m.1s. Christchurch PR₂ = +15m.45s. = PR₂ + 24s., SR₁ = +24m.27s., SR₂ = +27m.45s. = SR₂ + 22s. Wellington PR₁N = +13m.22s., PR₁E = +13m.25s., SR₁N = +24m.0s., SR₁E = +24m.3s., SR₂E = +26m.20s., SR₂N = +26m.48s.; T₂E = 21h.10m.10s.; T₂N = 21h.10m.42s. Ekaterinburg i = +13m.21s., iPR₂ = +14m.5s., e = +14m.37s., iPR₁ = +15m.37s., i = +16m.7s., and +17m.22s., iPS = +20m.58s., S₁P₁S = +21m.36s., e = +24m.55s. = SR₂ - 29s., SR₂ = +28m.20s., MN = +38.0, MZ = +44.2m. Baku MZ = +45.8m. Tiflis PR₁N = +15m.10s., PR₁N? = +17m.6s., eN = +18m.59s., SR₂ = +27m.3s., eN = +27m.37s., and +31m.13s. Kucino PR₁ = +15m.33s., SR₁ = +28m.26s. MN = +40.9m. Makeyevka SR₁ = +27m.51s. f, MN = +46.0m., MZ = +55.1m. Pulkovo PR₁ = +16m.6s., iS₁P₁S = +23m.4s., PS = +23m.49s., SR₁ = +28m.57s., SR₂ = +32m.21s., MN = +43.7m., MZ = +52.0; epicentre 7°58'N. 126°52'E. Helsingfors PZ = +13m.7s., PR₁E = +16m.31s., PR₁N = +16m.41s., PR₁E = +17m.33s., SR₁E = +30m.21s. Konigsberg eE = +24m.14s. = E - 6s., and +24m.45s., PS?E = +24m.37s., PPS =

Continued on next page.

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+25m.11s. Upsala PR₁ = +17m.9s., iE = +23m.42s., eLN = +40.8m., MN = +45.8m. Copenhagen PR₁ = +17m.27s., S₀P₀S = +23m.57s., PS = +25m.51s. †, SR₁ = +31m.39s., MZ = +50.4m., MN = +51.2m. Vienna PR₁ = +17m.29s., PR₂ = +19m.35s., S₀P₀S = +23m.58s., PPS = +26m.44s., SR₁ = +32m.7s. Prague MN = +53.4m. Zagreb ePR₁ = +18m.47s., ePR₂ = +19m.57s., ePR₃ = +22m.8s., ePS = +24m.42s. = Σ - 16s., eSR₁NW = +26m.28s. = PS - 21s., eSR₁NE = +26m.31s. = PS - 18s. Jena eE = +36m.51s. = SR₁ + 18s. Feldberg eN = +25m.29s. = Σ + 9s., +32m.51s., and +42m.22s., i = +42m.58s., ME = +53.6m. Ravensburg PR₁ = +19m.15s., PR₂ = +20m.5s., SR₁ = +23m.20s. Rocca di Papa eP = +18m.56s., PR₁ = +24m.26s. = [S] - 9s. Berkeley eZ = +47m.10s., eE = +70m.45s. Chur e = +18m.14s. = PR₁ + 3s. De Bilt ePR₁ = +18m.16s., MN = +52.4m., MZ = +67.4m. Strasbourg ePR₁ = +18m.6s., ePS = +26m.58s., eSR₁ = +32m.42s., eSR₂ = +40m.47s., MN = +63.0m. Zurich e = +15m.21s. Dyce PR₁ = +18m.21s., e = +33m.7s. = SR₁ + 26s. Uccle e = +18m.19s. = PR₁ + 1s., i = +27m.43s. = PS - 2s., MN = +55.3m. Moncalieri MN = +55.0m. Stonyhurst SR₁ = +31m.13s., SR₂ = +34m.47s. Kew PR₁ = +18m.33s., e = +28m.9s. = PS + 1s., eSR₁ = +35m.3s., eSR₂ = +39m.21s., MN = +62.0m., MZ = +62.1m. Oxford MN = +60.8m. Bidston S? = +32m.57s. = SR₁ - 20s. Tortosa SE? = +28m.48s. = PS - 19s. Alicante MN = +61.9m. Tucson eN = +26m.21s. = Σ - 12s., +29m.3s. = PS - 25s., +39m.13s., and +46m.50s., eE = +29m.4s. = PS - 29s. Toledo MNW = +57.7m. Granada i = +21m.2s. San Fernando PR₁ = +25m.25s. = PR₂ - 3s., MN = +77.8m. Chicago eE = +27m.7s. = Σ - 21s., +30m.7s., and +49m.57s. St. Louis iS₀P₀PE = +20m.59s. = PR₁ + 13s., iPR₁E = +27m.33s. = Σ - 1s., iPS₀P₀SE = +30m.15s., ePPSE = +32m.7s., eSR₁E = +36m.24s., iE = +37m.26s. = SR₁ - 2s., and +41m.0s., iSR₁E = +38m.36s., Ottawa PR₁ = +20m.43s., PS = +30m.33s., SR₁ = +37m.35s., MN = +66.8m. Toronto eE? = +10m.54s., eN = +27m.36s. = Σ - 4s., eE = +39m.16s. Cincinnati iN = +25m.44s. = [S] - 18s., +31m.48s. = PS + 5s., and +34m.12s., eN = +34m.30s., and +38m.36s. = SR₁ + 35s. La Paz iP = +20m.6s., PR₁ = +24m.27s., i = +31m.23s. = Σ - 3s., and +32m.22s. = PR₁ + 17s., PS? = +35m.22s., iSR₁? = +44m.52s., i = +46m.31s. Sucre PR₁ = +23m.59s., i = +24m.51s. = PR₁ - 9s., and +31m.23s. = Σ - 5s., PS? = +35m.21s., SR₁ = +41m.3s., SR₂ = +44m.59s. = SR₁ - 31s., SR₃ = +50m.27s.

NOTE TO THE SHOCK OF NOV. 16d. 21h.

Assuming the origin and time adopted and dividing the residuals in Δ into groups according to Azimuth, we have the following table:—

No. of Stations.	Group.	Az.	Equation.	Residuals.	
				(1)	(2)
6	Japan	15	+26x+97y	-1.6	-0.3
4	Australia	155	+42x-91y	-2.1	-0.6
1	Perth	195	-26x-97y	-2.5	-0.8
2	Java	235	-82x-57y	-0.6	+0.3
7	India, etc.	290	-94x+34y	-1.2	0.0
10	Russia, etc.	318	-67x+74y	-1.5	+0.9

In the column for residuals (1) the figures are those deduced directly from the observations, while those in residuals (2) have been corrected for a depth of focus 0.020 as adopted above.

Solving the equations for residuals (2) we have $x = -0^{\circ}.4$, $y = +0^{\circ}.3$, indicating epicentre $6^{\circ}.7N$, $126^{\circ}.4E$. The new origin gives only a very slight improvement in the determination.

Nov. 16d. Readings also at 0h. (Ekaterinburg and near Toyooka), 1h. (La Paz, La Plata, and near Santiago), 2h. (near Tacubaya), 4h. (Tashkent), 5h. (Tiflis), 8h. (Tucson), 9h. (Tiflis and Tashkent), 11h. (Tashkent, near Sumoto and Toyooka), 13h. (near La Paz), 15h. (Tucson), 17h. (Tashkent), 18h. (Tashkent and Tiflis), 19h. (Tiflis and Toyooka (2)), 20h. (Tiflis), 21h. (near Port au Prince), 23h. (Tiflis, Batavia, and near Malabar).

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Nov. 17d 13h 45m. 25s. Epicentre 2°·7S. 138°·8E. (as on Nov. 10d.).

A = -·752, B = +·658, C = -·047; D = +·659, E = +·752;
G = +·035, H = -·031, K = -·999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	10·6	264	2 41	+ 3	—	—	15·2	—
Manila	24·7	315	(e 5 35?)	0	—	—	(12·6)	—
Batavia	32·0	265	e 7 35?	?PR ₁	—	—	i 15·8	—
Adelaide	32·3	180	e 13 7	?S	(e 13 7)	+54	i 20·6	21·8
Riverview	33·2	161	e 12 37	?S	(e 12 37)	+10	e 19·9	24·7
Sydney	E. 33·2	161	16 41	?L	—	—	e 19·5	20·0
Perth	36·4	215	e 12 35	?S	(e 12 35)	-41	e 19·1	20·2
Wellington	E. 50·4	145	—	—	—	—	e 26·5	—
Irkutsk	62·2	338	e 10 30	+ 4	18 59	+ 8	34·4	40·0
Tashkent	76·6	315	i 11 55	- 4	1 21 50	+ 6	e 36·6	46·0
Ekaterinburg	85·8	327	i 12 43	- 9	23 21	- 7	38·6	49·5
Tiflis	E. 94·8	311	—	—	e 23 54	[- 2]	e 58·6	68·8
Kucino	98·3	326	—	—	—	—	e 53·3	—
Makeyevka	99·2	319	—	—	—	—	e 59·7	—
Pulkovo	101·5	331	—	—	e 34 29	?SR ₁	54·6	65·9
Copenhagen	111·9	331	—	—	—	—	e 62·6	—
De Bilt	117·4	330	—	—	—	—	e 56·6	—
Uccle	118·6	330	—	—	—	—	e 31·6	—
Kew	120·5	332	—	—	—	—	e 74·6	—
Ottawa	127·7	30	—	—	—	—	e 64·6	—
La Paz	147·2	126	i 19 39	[-12]	—	—	—	—

Additional readings and note: Manila readings have been increased by 9m.
Adelaide iS = +18m.16s. Riverview iS = +16m.57s., and +17m.1s.,
i = +18m.17s., SR₁ = +18m.37s., SR₂ = +19m.15s., eL = +20·6m., MN =
+22·1m. Perth eS = +17m.40s. Wellington eLN = +26·6m.
Irkutsk ePR₁ = +12m.45s. Tashkent eSR₂ = +28m.54s. Ekaterinburg
iP = +14m.54s., S = +25m.32s. Tiflis eE = +26m.8s. = PS +3s., eLN =
+58·1m., MN = +69·1m. De Bilt eL = +67·6m.

Nov. 17d. 14h. 33m. 25s. Epicentre 11°·0S. 167°·0E. (as on 1925 Jan. 14d.).

A = -·956, B = +·221, C = -·191; D = +·225, E = +·974;
G = +·186, H = -·043, K = -·982.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	20·9	100	e 5 35?	+53	—	—	11·6	—
Riverview	27·0	210	—	—	e 10 29	-12	e 11·8	18·3
Adelaide	E. 35·2	224	—	—	—	—	—	23·5
Irkutsk	82·8	327	e 12 39	+ 4	e 23 3	+ 8	35·1	46·9
Tashkent	103·0	311	—	—	—	—	e 45·6	57·2
St. Louis	E. 106·8	52	—	—	—	—	e 55·6	63·1
Ekaterinburg	108·1	326	—	—	—	—	45·6	70·0
Toronto	E. 114·6	46	—	—	—	—	61·9	—
Ottawa	116·9	44	—	—	—	—	e 55·6*	—
La Paz	118·9	116	e 44 57	?	—	—	60·5	—
Sucre	120·4	120	45 11	?	—	—	—	—
Kucino	120·4	330	—	—	—	—	e 57·5	—
Pulkovo	121·7	336	—	—	—	—	66·6	—
Makeyevka	123·7	321	—	—	—	—	68·6	—
Copenhagen	131·1	341	—	—	—	—	71·6	—
De Bilt	136·4	344	—	—	—	—	e 74·6	—
Feldberg	N. 137·0	340	—	—	—	—	—	83·6
Uccle	137·7	344	—	—	—	—	e 77·6	—
San Fernando	E. 153·8	348	—	—	—	—	—	123·6

Additional readings: Riverview MN = +18·4m. Adelaide MN = +22·4m.
Tashkent MZ = +55·9m., MN = +56·2m. Ekaterinburg MN = +61·2m.,
MZ = +68·1m. San Fernando MN = +89·6m.

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Nov. 17d. 20h. 54m. 42s. Epicentre 23°·8S. 67°·5W. (give by La Paz).

A = +·350, B = -·845, C = -·404; D = -·924, E = -·383;
G = -·154, H = +·373, K = -·915.

A depth of focus 0·025 has been assumed.

	Corr. for Focus	Δ	Az.	P.		O-C.	S.	O-C.	L.	M.
				m.	s.					
Sucre	0·0	5·2	24	i 1	20	0	i 2 16	- 6	i 2·4	3·2
La Paz	-0·1	7·3	355	i 1	52	+ 3	i 3 18	+ 3	i 3·9	5·3
Santiago	-0·3	10·0	196	2	32	+ 6	3 52	-29	4·7	—
La Plata	-0·5	13·8	145	3	8	—	5 30	-21	6·6	—
Rio de Janeiro	N. -1·2	22·3	93	e 4	42	-12	—	—	—	—
Toronto	N. -3·2	68·3	351	—	—	—	i 19 28	+ 2	—	—
Ottawa	-3·2	69·6	354	—	—	—	i 19 46	+ 4	—	—
Pulkovo	—	114·3	33	—	—	—	—	—	e 26·3	—
Ekaterinburg	—	130·4	34	e 18	59	[-21]	—	—	48·3	—
Tashkent	—	140·1	53	i 19	9	[-30]	—	—	—	—
Irkutsk	—	150·9	10	19	30	[-27]	e 29 45	? Σ	—	—
Phu-Lien	—	173·8	118	15	18?	?	—	—	—	—

Additional readings: La Paz ISN = +3m.24s., i = +3m.49s. Rio de Janeiro
ePE = +4m.43s. Ekaterinburg i = +19m.47s., +22m.4s., +23m.31s.,
and +27m.53s. = Σ -23s., e = +21m.4s. = PR₁ -28s., and +28m.23s.
Tashkent i = +21m.54s., and +22m.32s., e = +34m.11s. Irkutsk e =
+20m.20s.

Nov. 17d. 22h. 35m. 22s. Epicentre 7°·0N. 126°·0E. (as on Nov. 16d.).

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

The depth of focus 0·020 is assumed.

	Corr. for Focus	Δ	Az.	P.		O-C.	S.	O-C.	L.	M.
				m.	s.					
Manila	-0·2	9·0	327	e 1	38?	-35	—	—	—	—
Amboina	-0·2	10·9	169	2	28	-12	—	—	—	—
Hong Kong	-0·7	19·1	325	4	40	+18	—	—	—	8·2
Phu-Lien	-1·0	23·2	308	i 5	8	+ 1	e 9 20	+11	11·2	—
Batavia	-1·0	23·2	236	i 5	12	+ 5	i 9 23	+14	—	—
Zi-ku-wei	-1·1	24·6	350	e 5	19	- 4	e 9 52	+17	—	—
Irkutsk	-2·0	48·6	343	8	41	- 3	e 15 52	+16	24·5	33·0
Tashkent	-2·4	60·7	316	i 10	7	+ 6	18 58	PS	e 28·6	38·1
Ekaterinburg	-2·6	70·8	329	i 11	19	+14	e 20 51	[-26]	32·6	37·8
Makeyevka	-2·7	83·4	320	—	—	—	—	—	42·6	—
Pulkovo	-2·7	86·8	330	—	—	—	e 20 8	?	48·6	—
Copenhagen	-2·8	97·1	330	—	—	—	—	—	53·6	—
De Bilt	-2·9	102·5	327	—	—	—	—	—	e 57·6	—
Uccle	-2·9	103·6	325	—	—	—	—	—	53·6	—

Additional readings: Batavia i = +5m.15s. Irkutsk PR₁ = +10m.56s.,
SR₁ = +19m.32s. Tashkent ePR₁ = +12m.33s., ePR₂ = +12m.44s.,
eSR₁ = +22m.41s., MN = +34·4m., MZ = +38·0m. Ekaterinburg e =
+25m.35s. = SR₁ +11s.

Nov. 17d. Readings also at 4h. (Zagreb), 6h. (Ekaterinburg and Irkutsk),
7h. (Tashkent), 8h. (Tashkent and Wellington), 9h. (Tiflis), 10h. (near
Toyooka), 13h. (near La Paz), 15h. (Mizusawa), 17h. (near Kobe and
Sumoto), 20h. (Ekaterinburg, Makeyevka, Tashkent, near Irkutsk, near
Mizusawa, near Oaxaca, and Tacubaya).

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Nov. 13d. 3h. 24m. 36s. Epicentre 9°·8N. 126°·2E. (as on 1927 Oct. 27d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.		m. s.		m.	m.
Manila	7·0	314	i 1 55	+ 9	i 3 7	- 3	13·5	5·2
Amboina	13·6	172	3 17	- 4	—	—	—	—
Taihoku	E. 15·9	344	4 6	+15	(6 59)	+ 6	7·0	—
Hong Kong	17·0	319	4 14	+ 9	7 14	- 4	8·4	11·9
Phu-Lien	21·8	302	4 59	- 4	e 8 53	- 8	e 10·3	13·4
Zi-ka-wel	21·9	349	i 5 3	- 1	i 9 6	+ 3	—	28·7
Nagasaki	23·2	8	i 5 15	- 4	(9 58)	+29	10·0	—
Hukuoka	24·1	9	5 25	- 4	(9 47)	+ 1	9·8	10·4
Batavia	25·0	231	i 5 42	+ 4	i 10 18	+15	—	—
Malabar	25·2	228	5 35	- 5	—	—	—	—
Sumoto	25·8	17	e 5 39	- 7	e 8 38	-100	e 12·6	—
Kobe	26·2	17	e 5 15	-35	—	—	—	16·4
Osaka	26·3	17	6 44	+53	(11 13)	+45	11·2	12·8
Mizusawa	E. 32·2	23	6 38	-12	—	—	—	—
Perth	42·9	193	—	—	14 39	- 8	—	—
Irkutsk	46·1	343	i 8 29	-12	15 12	-17	23·2	30·9
Hyderabad	46·9	286	8 40	- 6	15 25	-15	24·7	32·3
Kodaikanal	48·0	275	13 54	?	?	?	19·2	30·5
Riverview	49·6	153	e 10 48	?PR ₁	e 19 30	?SR ₁	e 26·5	28·2
Sydney	E. 49·6	153	14 0	?S	(14 0)	-134	e 25·7	27·7
Simla	50·1	304	—	—	e 16 12	- 8	—	—
Melbourne	50·7	161	—	—	i 15 24	-63	i 29·0	32·4
Bombay	52·3	287	9 20	- 2	16 48	0	e 26·1	—
Tashkent	58·9	314	i 10 50	+46	i 18 52	+42	e 30·4	37·7
Ekaterinburg	68·6	328	i 11 14	+ 6	i 20 11	+ 2	27·4	—
Baku	73·3	310	i 11 38	0	i 21 11	+ 5	38·4	47·2
Tiflis	E. 77·1	311	e 11 59	- 3	e 21 45	- 5	e 40·4	49·8
Kucino	77·1	311	e 12 1	- 1	e 21 46	- 4	—	46·4
Makeyevka	81·0	326	12 42	+17	e 22 30	- 5	40·4	51·0
Pulkovo	81·6	319	e 12 22	- 6	i 22 29	-13	35·4	53·8
Ksara	84·5	330	i 12 38	- 7	22 59	-15	45·4	52·4
Helsingfors	84·9	304	13 36	+49	24 4	?PS	48·4	—
Upsala	87·0	331	i 12 50	- 9	23 25	-16	47·4	54·6
Budapest	90·6	332	—	—	e 23 24?	[- 8]	—	58·5
Copenhagen	94·1	320	—	—	—	—	e 51·9	—
Vienna	94·8	329	e 16 24?	?	e 24 0	[+ 4]	45·4	60·2
Victoria	E. 95·5	322	e 13 27	-19	—	—	—	59·4
Prague	96·0	39	24 11	?[S]	(24 11)	[+ 9]	45·3	46·6
Graz	96·5	323	—	—	e 25 24?	+ 8	e 52·4	57·4
Hamburg	96·5	320	—	—	—	—	e 40·4	63·6
Cheb	97·0	328	—	—	—	—	e 51·4	61·4
Feldberg	97·2	325	—	—	e 25 2	-26	e 49·4	57·4
Pompeii	N. 99·4	324	—	—	—	—	e 49·9	55·1
De Bilt	99·5	315	e 23 44	?[S]	(e 23 44)	[- 37]	—	—
Rocca di Papa	100·3	326	—	—	e 25 24?	?E	e 48·4	64·5
Florence	100·4	315	e 16 5	?	e 25 14	?E	e 49·0	—
Strasbourg	100·5	318	—	—	—	—	e 55·4	62·4
Uccle	100·6	325	—	—	—	—	e 38·4	—
Edinburgh	101·4	327	—	—	e 25 24?	?E	e 50·4	59·1
Moncalieri	E. 102·1	334	—	—	—	—	—	65·4
Paris	102·3	320	e 14 16	- 6	26 10	- 8	55·7	—
Kew	102·3	320	e 15 52	+90	25 50	?E	54·8	—
Oxford	103·4	325	—	—	e 38 42	?SR ₁	58·4	64·4
Tortosa	N. 103·4	330	—	—	e 41 24?	?SR ₁	50·4	65·9
Toledo	103·7	330	—	—	—	—	e 55·9	66·4
Granada	N.W. 108·9	320	—	—	—	—	e 57·4	61·5
Rio Tinto	112·3	320	—	—	—	—	e 49·0	—
San Fernando	113·6	318	—	—	—	—	e 65·9	68·9
St. Louis	E. 115·2	319	60 24?	?L	—	—	(60·4)	73·4
Ottawa	N. 120·9	33	—	—	—	—	—	62·4
La Paz	121·4	16	e 20 33	?PR ₁	e 30 24	?PS	e 59·4	—
Sucre	164·5	117	20 14	[+ 2]	i 31 36	?E	e 55·4	—
	165·6	131	i 20 16	[+ 4]	—	—	79·4	92·0
							82·4	91·6

Additional readings: Manila MN = +5·0m. Amboina i = +4m.21s., and
+15m.51s. Zi-ka-wel PS = +9m.28s. Batavia iZ = +5m.44s., iF =
+5m.45s., iZ = +5m.49s., i = +5m.51s. Osaka MN = +13·2m. Perth

Continued on next page.

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S₁? = +14m.19s. Irkutsk PR₁ = +10m.22s., PR₂ = +11m.49s., SR₁ = +18m.29s., MZ = +31.0m.; epicentre 10°38'N, 125°51'E. Tashkent ePR₁ = +12m.56s., ePS = +19m.20s., eSR₁ = +23m.4s., MN = +36.6m., MZ = +58.7m. Ekaterinburg e = +20m.27s., and +24m.51s. Baku MN = +42.2m., MZ = +54.1m. Tiflis eS₁P₁S₁?E = +22m.5s., eE = +23m.0s., SR₁E = +27m.35s., SR₁N = +27m.37s., eSR₁?N = +30m.49s. Kucino PR₁ = +18m.12s., e = +21m.42s., and +22m.0s., eSR₁ = +27m.54s., MN = +45.2m., MZ = +51.9m. Makeyevka MZ = +52.0m., MN = +53.3m. Pulkovo SR₁ = +29m.0s., MN = +49.3m. Helsingfors PE = +12m.52s., eE = +23m.4s. = [S] - 5s., MN = +53.6m. Upsala MN = +61.0m. Budapest eL = +59.9m. Copenhagen MN = +53.2m., MZ = +60.3m. Vienna iPZ = +13m.31s. Hamburg MN = +54.4m. De Bilt MN = +57.1m., MZ = +64.3m. Rocca di Papa ePN = +18m.8s. = PR₁ - 8s. San Fernando MN = +75.9m. Ottawa eE = +37m.9s. La Paz PR₁ = +24m.43s., SR₁? = +46m.51s. Sucre PR₁ = +24m.54s., PPS = +38m.22s., SR₁ = +44m.40s.

Nov. 18d. 11h. 1m. 36s. Epicentre 21°5N. 68°0E.

A = +349, B = +863, C = +367; D = +927, E = -375;
G = +137, H = +340, K = -930.

Very uncertain.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bombay	5.2	119	1 18	- 2	2 16	- 6	2.6	—
Hyderabad	10.7	110	4 7	+87	4 40	- 8	4.8	5.2
Simla	12.7	39	e 4 0	+51	—	—	—	—
Colombo	18.6	140	7 56	?S	(7 56)	+ 3	—	12.1
Calcutta	N. 18.9	83	6 34	+126	8 36	+36	—	—
Tashkent	19.8	3	i 4 46	+ 7	1 8 8	- 11	i 10.2	11.2
Baku	24.3	325	—	—	e 9 26	-24	15.2	20.6
Tiflis	N. 28.1	321	—	—	—	—	e 17.4	—
Ekaterinburg	35.7	354	e 6 39	-40	e 11 57	-69	16.4	—
Kucino	40.9	334	—	—	—	—	e 27.4	—
Irkutsk	41.5	33	e 8 47	+40	e 16 14	+106	19.4	24.2
Pulkovo	46.6	335	—	—	e 18 30	?SR ₁	26.4	—

Additional readings and note: Tashkent i = +5m.2s., and +8m.22s., MZ = +12.2m. Irkutsk MZ = +24.6m.; P and S are given simply as e.

Nov. 18d. 12h. 36m. 30s. Epicentre 34°5N. 25°0E. (as on 1925 Jan. 19d.).

A = +747, B = +348, C = +566; D = +423, E = -906;
G = +513, H = +239, K = -824.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara	9.0	91	2 28	+12	5 2	+59	—	—
Belgrade	N. 10.9	343	e 15 34	?	—	—	e 7.0	8.1
Zagreb	N.W. 13.2	331	—	—	—	—	e 7.0	9.5
Budapest	13.7	343	—	—	—	—	e 9.2	—
Makeyevka	16.7	32	—	—	—	—	e 8.8	10.0
Tiflis	17.1	59	—	—	e 7 57	+37	e 9.5	11.5
Prague	17.4	337	—	—	—	—	e 10.5	—
Baku	20.6	66	e 4 43	- 5	e 8 45	+ 9	e 13.0	—
De Bilt	22.6	327	—	—	—	—	14.5	—
Pulkovo	25.5	6	5 45	+ 2	9 59	-14	15.5	—
Ekaterinburg	32.8	36	e 6 52	- 3	e 12 20	- 1	15.5	—
Tashkent	35.2	65	—	—	—	—	e 15.5	24.4

Additional readings: Belgrade eN = +16m.59s. Zagreb eSNW = +7m.50s.,
MNE = +7.9m. Makeyevka L = +13.5m. Tiflis MN = +10.1m.

Nov. 18d. Readings also at 1h. (near Batavia), 4h. (Nagoya and near Mizusawa), 7h. (Ottawa, St. Louis, Tucson, Victoria, Tacubaya, Sucre, La Paz, and Zi-ka-wel), 8h. (Baku, Ekaterinburg, Honolulu T.H., Makeyevka, Tashkent, and near Irkutsk), 10h. (near Mizusawa), 12h. (near Ksara), 15h. (Toyooka), 16h. (Ekaterinburg, Tashkent, and Tiflis), 17h. (Ekaterinburg), 18h. (La Paz (2)), 22h. (Sucre, La Paz (2), and Tiflis), 23h. (La Paz).

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Nov. 19d. 3h. 32m. 36s. Epicentre 37°·7N. 118°·5W. (as on 1927 Sept. 18d.)

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

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Berkeley	E.	3·0	273	—	—	e 1 24	+ 1	e 1·6	—
	N.Z.	3·0	273	e 0 51	+ 4	e 1 25	+ 2	e 1·5	—
Tucson		8·3	129	—	—	e 3 26	-19	4·6	4·9
Victoria	E.	11·2	343	—	—	—	—	7·4	9·7
St. Louis		22·2	79	e 4 51	-16	i 9 24	+15	e 12·4	15·2
Toronto	E.	30·0	67	—	—	—	—	18·0	—
Ottawa	N.	32·5	62	—	—	—	—	e 18·4	—

Additional readings: Tucson eN = +3m.45s., =S +0s., eE = +4m.15s., eN = +4m.22s. St. Louis iN = +7m.59s., iSN = +9m.31s., MN = +15·6m.

Nov. 19d. 6h. 50m. 40s. Epicentre 8°·0N. 103°·0W. (as on 1926 Nov. 7d.)

A = -·223, B = -·965, C = +·139; D = -·974, E = +·225;
G = -·031, H = -·136, K = -·990.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tacubaya		12·0	17	2 48	-11	5 32	+13	5·9	7·1
Tucson	E.	25·3	344	e 5 43	+ 2	e 10· 5	- 4	e 11·6	12·9
	N.	25·3	344	e 5 40	- 1	e 9 49	-20	e 13·5	18·4
St. Louis		32·7	20	i 6 26	-28	e 11 19	-60	e 14·2	18·2
Chicago	E.	36·4	20	—	—	e 13 5	-11	e 20·0	—
Toronto		41·2	26	e 7 54	-11	i 14 6	-18	27·9	—
La Paz		42·3	125	1 8 16	+ 3	i 14 39	0	21·7	30·5
Victoria	E.	43·9	341	1 4 51	?S	(14 51)	-10	21·0	24·9
Ottawa		44·2	28	e 10 5	?PR ₁	e 14 54	-11	e 21·3	—
Sucre		46·0	129	e 8 44	+ 4	i 15 36	+ 8	24·7	30·3
Honolulu T.H.	E.	54·4	291	—	—	—	—	e 25·6	27·2
	N.	54·4	291	—	—	e 24 6	?SR ₂	26·9	28·5
Paris		94·0	40	—	—	—	—	e 49·3	—
Uccle		94·5	38	—	—	—	—	e 46·3	—
De Blit		94·6	36	—	—	—	—	e 46·3	—
Copenhagen		97·2	31	—	—	26 20?	?PS	—	—
Pulkovo		102·8	22	—	—	e 23 48	?	53·3	59·8
Kucino		108·5	22	—	—	e 34 38	?SR ₁	55·5	62·8
Ekaterinburg		113·8	10	—	—	e 29 39	?PS	55·3	71·1
Makeyevka		114·3	27	—	—	—	—	56·3	—
Baku		125·6	25	—	—	—	—	62·3	—
Tashkent		130·2	6	e 19 33	[+14]	—	—	e 59·3	65·0

Additional readings and notes: St. Louis iPR₁ = +7m.19s., eSE = +11m.26s., iSR₂N = +13m.54s. =SR₁-12s., MN = +18·3m. Chicago eSR₁E = +15m.37s. La Paz iSN = +14m.42s.; T₀ = 6h.50m.43s. Victoria PN = +14m.49s. Sucre PR₁ = +10m.36s., SR₁ = +18m.57s.; T₀ = 6h.50m.40s. Pulkovo e = +33m.7s. =SR₁-5s. Kucino MN = +63·0m. Ekaterinburg e = +35m.40s. =SR₁+10s., and +39m.53s., MN = +62·4m., MZ = +71·2m. Tashkent e = +23m.7s., +27m.14s. =PR₂-18s., and +29m.53s., MN = +82·9m., MZ = +83·2m.

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Nov. 19d. 7h. 29m. 36s. Epicentre 19°-0S. 173°-0W. (given by Apia, and as on 1924 Nov. 5d.).

A = -0.939, B = -0.115, C = -0.326; D = -0.122, E = +0.993;
G = +0.323, H = +0.040, K = -0.946.

A depth of focus 0.060 has been assumed, see the note at the end.

	Corr. for Focus	Δ	Az.	P.	O-C.		S.		O-C.	L.	M.
					m.	s.	m.	s.			
Apia	+0.4	5.3	13	1	28	0	2	32	-4	2.9	3.1
Suva	-0.3	8.2	275	i 1	54	-6	i 3	18	-16	i 4.5	6.5
	N. -0.3	8.2	275	i 1	30	-30	i 3	0	-34	i 3.9	5.5
Wellington	E. -3.1	24.6	202	i 4	40	-19	i 8	20	-35	i 10.3	—
	N. -3.1	24.6	202	e 4	8	-51	i 8	8	-47	10.4	—
Riverview	-4.2	35.1	237	e 6	54	+17	—	—	—	e 13.3	18.7
Sydney	E. -4.2	35.1	237	—	—	—	—	—	—	15.2	17.6
Melbourne	-4.8	41.0	234	e 8	42	+78	—	—	—	e 15.0	22.4
Adelaide	-5.1	45.5	240	e 13	29	?S	(e 13	29)	-44	e 24.9	27.1
St. Louis	E. -7.6	96.4	53	—	—	—	—	—	—	e 46.1	—
Toronto	E. -7.8	105.5	49	—	—	—	—	—	—	57.4	—
Ottawa	N. -7.9	108.4	47	—	—	—	—	—	—	e 51.4	—
Tashkent	—	123.0	308	—	—	—	e 69	30	?	e 69.7	71.1
Ekaterinburg	—	125.4	327	—	—	—	—	—	—	60.4	70.8
Pulkovo	—	136.0	343	e 21	50	?PR ₁	—	—	—	68.4	76.3
Kucino	—	136.5	334	—	—	—	—	—	—	e 69.9	—
Makeyevka	—	141.6	326	—	—	—	e 63	24?	?	73.4	—
Copenhagen	—	143.1	354	—	—	—	—	—	—	72.4	—
Hamburg	z. —	145.3	358	18	36	[-73]	—	—	—	—	—
De Bilt	—	146.5	2	i 18	43	[-68]	—	—	—	e 77.4	—
Kew	z. —	147.1	10	—	—	—	—	—	—	e 76.4	—
Uccle	—	148.1	4	—	—	—	—	—	—	e 76.4	—
Vienna	z. —	149.8	347	18	39	[-77]	—	—	—	—	—
Paris	—	150.0	6	—	—	—	—	—	—	e 78.4	—
Zagreb	—	152.2	347	i 18	57	[-62]	—	—	—	—	—
Florence	—	155.0	353	e 18	54	[-68]	—	—	—	—	—
Rio Tinto	—	157.8	29	83	24?	?L	—	—	—	(83.4)	93.4
San Fernando	E. —	159.1	31	—	—	—	—	—	—	—	102.9

Additional readings: Apia MN = +3.0m.; T₀ = 7h.29m.44s.; epicentre 19°S. 173°W., as adopted. Suva iE = +5m.6s.; T₀N = 7h.29m.12s.; T₀E = 7h.29m.36s. Riverview MN = +16.6m. Adelaide eS = +19m.55s., MN = +26.6m. Ekaterinburg MN = +68.3m. Zagreb eNE = +19m.2s. and +19m.9s., iNW = +19m.11s. San Fernando MN = +88.9m.

NOTE TO THE SHOCK OF NOV. 19d. 7h. 29m. 36s.

Collecting the residuals in Δ for the stations near the epicentre we have the following table:—

Az.	Station	Residuals.	
		(1)	(2)
13	Apia	0.0	-0.4
202	Wellington E.	-5.2	-2.1
234	Melbourne	(+4.3)	(+9.1)
237	Riverview	-3.0	+1.2
240	Adelaide	-8.5	-3.4
275	Suva E.	-1.1	-0.8

The Residual (2) column is obtained by applying a correction for focal depth to the natural residuals in column (1). It would seem from this that a greater depth still would give better results but the earthquake is not sufficiently widely observed to justify greater refinement.

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Nov. 19d. 18h. 5m. 45s. Epicentre 72°·5N. 12°·0W. (as on 1927 Oct. 30d.)

A = +·294, B = -·063, C = +·954; D = -·208, E = -·978;
G = +·933, H = -·198, K = -·301.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Copenhagen	19·6	135	—	—	(8 15?)	0	8·2	—
Pulkovo	20·6	106	e 4 47	- 1	e 8 20	-16	9·8	10·0
Kew	21·7	160	—	—	—	—	e 10·2	—
Makeyevka	33·1	110	—	—	e 12 41	+15	16·2	—
Tashkent	48·5	84	e 8 56	- 1	—	—	e 19·6	26·1

Additional readings: Pulkovo MN = +9·9m., MZ = +11·1m. Tashkent
MZ = +28·5m., MN = +28·6m.

Nov. 19d. 23h. 3m. 36s. Epicentre 48°·8N. 0°·5W.

(See "A study of the Seismograms of English Channel Earthquakes" by A. E. Mourant, M.N.R.A.S. Geoph. Supp., Vol. II, No. 7.)

A = +·659, B = -·006, C = +·752; D = -·009, E = -1·000;
G = +·752, H = -·007, K = -·659.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Paris	2·0	90	e 0 19	-12	e 0 51	- 4	0·9	—
Kew	2·7	2	e 0 40	- 2	i 1 17	+ 3	—	—
Oxford	3·1	351	i 0 48	- 1	i 1 17	- 9	—	—
Uccle	3·7	55	e 0 55	- 3	i 1 46	+ 4	—	—
Puy de Dôme	3·9	141	e 1 4	+ 3	i 1 49	+ 2	—	—
Besaçon	4·6	107	e 1 30	+19	i 2 17	+11	—	—
De Bilt	4·8	43	—	—	—	—	e 2·4	—
Neuchatel	5·3	107	e 1 7	-15	i 2 37	+12	—	—
Strasbourg	5·4	89	e 1 42	+19	2 36	+ 8	—	—
Zurich	6·2	100	e 1 20	-15	i 3 8	+19	(1 3·1)	—
Hohenheim	6·4	86	e 2 37	+59	e 3 12	+17	—	3·5
	6·4	86	e 2 38	+60	e 3 8	+13	—	3·5
Ravensburg	6·8	94	—	—	—	—	e 3·5	3·8
Chur	7·0	102	e 1 30	-16	i 3 35	+25	(1 3·6)	—
Tortosa	8·0	174	—	—	e 3 51	+14	(4·5)	—
Vienna	11·2	86	5 41	!L	—	—	(5·7)	—

Additional readings and note: Paris eP = +28s. Kew e = +1m.11s.
Oxford iPE = +51s. = P + 2s. Uccle i = +1m.0s., e = +1m.27s. Stras-
bourg S = +2m.9s., iSR_s = +2m.44s., and +2m.51s. Zurich iP =
+1m.22s. Tortosa gives S as e and L as S.

Nov. 19d. Readings also at 0h. (Ekaterinburg and Tashkent), 1h. (Tashkent), 2h. (Manila), 3h. (Tashkent and near Tortosa), 5h. (La Plata), 8h. (near Tacubaya), 12h. (Ekaterinburg), 14h. (Irkutsk), 15h. (Ekaterinburg and Tiflis), 16h. (Tiflis), 19h. (Taihoku), 22h. (near Balboa Heights).

Nov. 20d. 10h. 24m. 0s. Epicentre 43°·9N. 9°·5E. (as on 1928 Oct. 11d.)

A = +·711, B = +·119, C = +·693; D = +·165, E = -·986;
G = +·684, H = +·114, K = -·721.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Florence	1·3	95	0 12	- 8	—	—	—	0·7
Moncalleri	1·7	311	e 0 17	- 9	1 2	+14	1·4	—
Chur	2·9	0	e 0 55	+10	i 2 38?	+78	—	—
Neuchatel	3·6	331	e 0 53	- 3	e 1 29	-10	—	—
Zurich	3·6	350	e 0 50	- 6	i 1 28	-11	—	—
Innsbruck	3·7	90	e 1 13	+15	i 2 33	+51	—	—
Strasbourg	4·8	349	e 1 42	+28	—	—	i 2·4	—
Zagreb	5·0	65	i 1 49	+32	i 2 20	+ 3	12·5	—
	5·0	65	e 1 30	+13	i 2 18	+ 1	12·5	—

Zagreb gives also eNE = +1m.55s., iNW = +2m.16s.

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Nov. 20d. 17h. 14m. 36s. Epicentre 1°-5N. 121°-0E.

A = -515, B = +857, C = +026; D = +857, E = +515;
G = -013, H = +022, K = -1000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	8.8	125	i 2 43	+30	—	—	—	—
Manila	13.1	0	e 3 18	+4	—	—	11.3	—
Batavia	E. 16.1	241	e 2 24?	?	—	—	i 8.3	—
Phu-Lien	23.9	325	e 5 23	-4	e 9 36	-6	11.4	—
Zi-ka-wei	Z. 29.7	1	e 6 17	-8	—	—	—	—
Irkutsk	52.7	349	i 9 24	0	16 53	+1	24.9	34.9
Tashkent	61.2	319	i 10 24	+4	18 51	+13	e 30.4	38.4
Ekaterinburg	73.0	331	i 11 43	+7	e 21 10	+8	29.4	46.4
Baku	74.8	311	—	—	—	—	46.4	—
Tiflis	E. 78.8	312	e 12 11	-1	e 22 5	-5	e 48.4	51.8
	N. 78.8	312	e 12 12	0	e 22 4	-6	e 47.4	55.6
Makeyevka	84.2	319	—	—	—	—	58.4	—
Pulkovo	89.1	330	e 13 5	-6	e 23 29	[+6]	49.4	—
Copenhagen	99.1	330	—	—	—	—	54.4	—
La Paz	162.6	150	20 21	[+11]	—	—	—	—

Additional readings and notes: Amboina e = +1m.12s. Batavia i = +5m.5s. Irkutsk PR₁ = +11m.50s., PR₂ = +12m.49s., SR₁ = +20m.33s., SR₂ = +23m.33s. Ekaterinburg e = +19m.45s., and +22m.14s.

Nov. 20d. Readings also at 0h. (Balboa Heights), 1h. (Alicante), 3h. (Suva), 4h. (Calcutta, Tashkent, and Tiflis), 8h. (Ekaterinburg, Pulkovo, near Irkutsk, near Tashkent, and near Sumoto), 10h. (Florence), 12h. (Amboina), 13h. (Tashkent), 15h. (La Paz), 20h. (Tiflis), 21h. (Sucre).

Nov. 21d. 15h. 13m. 50s. Epicentre 56°-4N. 136°-0W. (as on Nov. 12d.).

A = -398, B = -384, C = +833; D = -695, E = +719;
G = -599, H = -579, K = -553.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sitka	0.7	29	i 0 23	+12	—	—	i 0.6	0.7
Victoria	E. 11.1	131	5 19	?S	(5 19)	+22	6.2	—
	N. 11.1	131	5 29	?S	(5 29)	+32	6.3	8.1
Tucson	29.8	134	—	—	—	—	e 17.0	—
Chicago	34.0	96	—	—	—	—	e 18.1	18.8
St. Louis	34.8	103	—	—	—	—	e 16.8	18.4
Ann Arbor	35.8	91	—	—	—	—	e 18.0	19.8
Toronto	E. 37.3	87	—	—	—	—	i 19.5	20.0
Cincinnati	N. 37.4	95	—	—	—	—	i 19.9	20.8
Ottawa	38.2	82	—	—	—	—	e 19.2	20.2
Ithaca	39.7	86	—	—	—	—	e 20.7	—
Fordham	N. 42.2	86	—	—	—	—	e 22.2	—
Irkutsk	60.6	324	—	—	e 18 40	+9	e 33.0	38.1
Pulkovo	63.3	9	—	—	e 22 9	-14	e 31.5	—
Ekaterinburg	65.9	352	e 10 47	-3	e 19 29	-7	28.2	42.4
Tashkent	80.0	341	—	—	e 22 9	-14	e 38.2	47.5

Additional readings: Sitka iE = +24s., iN = +27s. Chicago iN = +18m.16s., eLN = +18.4m., LE = +18.5m. St. Louis eN = +18m.0s., eE = +18m.2s., MN = +18.6m. Ann Arbor eN = +18m.52s., eE = +19m.4s., eL = +19.7m., MN = +19.9m. Ottawa eN = +18m.10s. Irkutsk MZ = +38.8m. Tashkent e = +31m.10s. †, MN = +54.6m.

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Nov. 21d. 18h. 50m. 40s. Epicentre 9°-2S. 80°-0W.

A = +.171, B = -.972, C = -.160; D = -.985, E = -.174;
G = -.028, H = +.157, K = -.987.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	13.7	124	e 3 21	- 1	i 6 0	- 1	7.1	8.5
Sucre	17.4	126	i 4 9	- 1	i 7 27	0	8.7	10.6
Balboa Heights	18.2	1	e 4 20	+ 1	—	—	—	—
La Plata	32.7	145	i 6 41	-13	—	—	—	—
Rio de Janeiro E.	37.8	117	e 13 5	?S	(e 13 5)	-30	19.5	—
N.	37.8	117	e 13 0	?S	(e 13 0)	-35	19.5	—
St. Louis	48.4	350	e 9 0	+ 4	e 15 52	- 7	e 22.0	—
Tucson	50.9	327	e 9 14	+ 2	—	—	e 26.3	—
Toronto	52.8	0	—	—	(16 39)	-15	34.3	—
Ottawa	54.7	5	e 9 50	+13	e 17 20	+ 3	e 24.3	—
Victoria	69.1	331	11 23	+11	20 26	+11	36.0	40.4
San Fernando E.	82.7	51	—	—	—	—	—	56.3
Rio Tinto	82.8	50	41 20?	?L	—	—	(41.3)	51.3
Granada	84.9	51	i 12 45	- 2	22 30	[-25]	45.3	50.1
Kew	90.9	38	—	—	—	—	e 47.3	—
Uccle	93.9	40	—	—	—	—	e 45.3	—
De Bilt	94.3	39	—	—	—	—	e 37.3	—
Strasbourg	95.4	42	—	—	—	—	e 46.3	—
Copenhagen E.	99.0	35	—	—	—	—	e 51.3	—
Pulkovo	108.1	30	—	—	e 28 32	?PS	54.3	—
Makeyevka	115.4	40	—	—	—	—	52.3	—
Ksara E.	116.6	56	41 18	?SR ₂	49 5	?	50.6	—
Tiflis	121.8	45	e 40 40	?	—	—	52.0	53.6
Ekaterinburg	123.5	24	e 16 28	+29	e 26 41	[+45]	41.3	61.1
Baku	125.9	45	—	—	—	—	e 51.7	—
Irkutsk	136.8	355	e 19 37	[+ 3]	—	—	71.1	76.7
Tashkent	138.0	34	e 16 25	?	—	—	e 72.3	81.9

Additional readings: La Paz i = +6m.53s. Rio de Janeiro SE = +17m.28s.,
SN = +17m.30s. St. Louis iPN = +9m.3s., iPS = +16m.0s., eE =
+18m.4s., and +19m.58s., eScSE ? = +18m.45s. Toronto readings are
both given as LN. Tucson ePN = +9m.15s. San Fernando MN =
+54.3m. Granada PS = +23m.23s. Tiflis e = +46m.39s. = SR₂ - 9s.
Ekaterinburg e = +20m.58s. = PR₁ + 11s., and +28m.13s. Irkutsk e =
+22m.17s. = PR₁ + 3s. and +31m.57s., MZ = +76.5m. Tashkent e =
+20m.6s., +23m.17s., +42m.20s., and +52m.8s., MN = +82.0m.

Nov. 21d. 23h. 12m. 14s. Epicentre 44°-7S. 73°-0W.

A = +.208, B = -.680, C = -.703; D = -.956, E = -.292;
G = -.206, H = +.673, K = -.711.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago	11.3	10	1 23	-86	4 10	-52	5.0	—
Pilar	14.8	32	4 4?	+28	(6 46)	+19	6.8	10.8
Buenos Aires	15.0	53	2 46	-53	—	—	—	—
La Plata	15.1	54	13 53	+13	6 54	+20	—	—
Sucre	26.5	17	e 5 51	- 2	1 10 33	+ 1	15.6	—
La Paz	28.5	10	e 6 13	0	i 11 9	+ 1	14.8	19.3
Rio de Janeiro E.	32.7	59	e 6 46	- 8	12 13	- 6	16.0	19.5
N.	32.7	59	e 6 46	- 8	12 16	- 3	16.3	18.3
Balboa Heights	54.0	352	e 8 46	-47	—	—	—	—
San Juan E.	63.4	8	—	—	e 26 55	?	e 32.8	—
Cape Town	67.8	116	20 10	?S	(20 10)	+10	—	56.8
Tacubaya	68.4	334	11 5	- 2	20 20	+13	32.2	—
Christchurch	74.2	225	11 52	+ 9	21 34	+18	31.5	42.5
Wellington E.	74.8	227	i 12 18	+30	i 21 43	+19	34.8	39.0
N.	74.8	227	i 12 9	+21	i 22 0	+36	34.2	43.0
Johannesburg	79.2	116	—	—	22 46?	?PS	—	—
Tucson E.	84.3	330	e 12 43	- 1	23 6	- 5	e 37.3	44.1
N.	84.3	330	e 12 52	+ 8	e 23 4	- 7	e 40.7	44.4
Cincinnati N.	84.4	352	e 12 54	+10	i 23 25	+13	42.6	48.8

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.
St. Louis	84.7	348	e 12 46	0	i 23 25	+ 9	e 40.6	48.0
Fordham	85.5	0	e 13 15	+24	i 23 49	+24	e 35.8	39.3
Apia	86.4	256	—	—	23 43	+ 9	e 46.8	47.8
Ithaca	87.2	358	e 13 14	+14	e 23 25	-18	40.8	—
Chicago	87.4	350	—	—	i 23 42	- 3	e 41.6	47.4
Ann Arbor	87.5	354	—	—	i 23 46	- 1	46.3	55.6
	87.5	354	—	—	e 23 28	-19	44.6	47.7
Toronto	88.5	356	—	—	i 23 54	- 4	38.4	48.1
	88.5	356	i 13 4	- 4	i 23 55	- 3	40.4	—
Ottawa	90.1	359	—	—	i 24 14	- 1	e 40.8	—
	90.1	359	e 13 16	- 1	i 23 56	-19	e 44.3	55.8
Melbourne	90.7	210	—	—	i 24 52	?PS	i 39.7	41.0
Riverview	91.9	216	e 13 25	- 1	i 23 52	[+13]	e 38.2	50.1
Azores	92.8	36	(39 4)	?	(46 10)	?	—	(59.8)
Berkeley	93.8	324	e 17 21	?PR ₁	e 24 56	+ 2	e 44.7	—
Adelaide	95.4	206	e 13 38?	- 7	i 24 8	[+ 9]	40.4	54.8
Entebbe	101.0	100	e 24 39	?[S]	(e 24 39)	[+10]	—	—
San Fernando	101.1	49	—	—	30 4	?	50.3	67.3
Honolulu T.H.	101.2	289	—	—	e 26 3	- 4	e 42.4	60.1
Rio Tinto	101.9	48	20 46?	?PR ₂	—	—	—	61.8
Malaga	102.2	50	e 14 13	- 8	e 26 20	+ 3	e 35.6	—
Victoria	102.9	330	18 50	?PR ₁	25 5	[+27]	45.4	45.8
	102.9	330	18 35	?PR ₁	24 59	[+21]	33.6	51.2
Perth	103.0	187	e 21 46	?PR ₂	i 33 26	?SR ₁	i 55.8	64.5
Granada	103.0	50	e 14 16	- 9	i 24 38	[0]	47.8	62.2
Almeria	103.5	50	e 16 4	?	e 18 32	?PR ₁	e 48.1	51.5
Toledo	104.7	47	e 21 17	?PR ₂	33 20	?SR ₁	e 44.2	56.9
Alicante	105.6	51	e 23 28	?PR ₂	—	—	43.1	65.9
Tortosa	107.9	50	—	—	e 26 46?	-23	e 44.8	54.4
Barcelona	109.2	51	—	—	—	—	e 46.5	63.7
Bagnères	109.3	47	—	—	e 34 46?	?SR ₁	e 45.8	55.0
Puy de Dôme	112.5	46	—	—	e 36 16	?	e 47.8	55.4
Paris	114.3	44	e 15 37	+20	e 19 58	?PR ₁	35.8	59.8
Oxford	114.5	40	—	—	e 30 6	?PS	e 43.1	66.1
Moncalieri	114.6	50	19 6	[+30]	30 6	?PS	36.0	68.8
Kew	114.7	40	e 19 46?	?PR ₁	—	—	48.8	62.7
Bidston	114.8	39	29 32	?S	(29 32)	?PS	47.1	62.3
Besançon	115.1	47	—	—	—	—	36.8	53.8
Rocca di Papa	115.3	55	e 12 16	?	e 31 49	?	e 59.4	64.6
	115.3	55	e 12 13	?	e 31 35	?	e 60.4	—
Neuchâtel	115.4	50	e 18 17	[-22]	e 29 24	?PS	—	—
Stonyhurst	115.4	39	e 20 54	?	e 30 29	?PS	46.9	53.4
Florence	115.8	53	e 20 16	?PR ₁	e 29 46?	?PS	36.8	46.8
Pompeii	115.8	57	e 24 30	?	e 35 30	?SR ₁	52.8	67.8
Edinburgh	116.4	36	—	—	—	—	48.8	64.5
Uccle	116.5	43	e 20 10	?PR ₁	e 27 58	-24	35.8	64.9
Zurich	116.5	50	e 18 18	[-24]	e 29 52	?PS	—	—
Strasbourg	116.8	47	e 19 46?	?PR ₁	e 29 46?	?PS	e 37.8	67.3
Ravensburg	117.4	48	—	—	—	—	e 49.5	67.2
De Bilt	117.7	43	i 20 29	?PR ₁	e 29 52	?PS	e 48.8	68.5
Innsbruck	118.0	50	—	—	—	—	e 52.8	—
Feldberg	118.2	45	—	—	e 27 4	?Z	e 50.0	60.5
Zagreb	119.7	53	—	—	e 31 46?	?	e 57.3	—
Graz	120.1	51	e 21 20	?	—	—	47.8	75.9
Cheb	120.2	48	e 21 9	?	e 30 11	?PS	e 49.8	57.8
Jena	120.2	47	—	—	e 30 16	?PS	e 49.8	67.8
	120.2	47	—	—	e 32 46	?	e 48.8	62.8
Helwan	120.2	77	e 20 56	?PR ₁	—	—	82.4	—
Hamburg	120.9	43	e 19 22	[+27]	—	—	e 49.8	65.8
Prague	121.2	49	e 21 33	?	e 30 36	?PS	e 50.8	68.8
Vienna	121.3	51	e 20 49	?PR ₁	30 43	?PS	e 52.8	69.8
Potsdam	121.8	45	—	—	—	—	e 51.1	65.3
Budapest	122.4	53	20 46?	?PR ₁	e 33 16	?	e 54.3	70.8
Copenhagen	123.3	42	—	—	e 26 16	[+21]	47.8	71.3
Ksara	125.6	76	e 19 5	[- 2]	—	—	58.8	—
Konigsberg	127.0	45	—	—	—	—	e 57.0	72.8
Upsala	127.7	41	—	—	e 22 35	?	e 53.8	70.2
Batavia	129.1	179	e 22 26	?PR ₁	—	—	e 62.8	—
Helsingfors	131.2	41	19 32	[+11]	—	—	59.8	72.8
Pulkovo	133.6	42	19 36	[+ 9]	—	—	59.8	78.2
Makeyevka	133.9	60	e 19 44	[+16]	—	—	—	75.5
Colombo	135.4	140	19 7	[-24]	—	—	—	—
Tiflis	135.7	71	e 23 10	?	e 40 20	?SR ₁	—	69.8

Continued on next page.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Kucino	136.4	50	i 19 22	[-11]	—	—	54.3	71.4
Kodakanal	137.2	134	47 46	?	—	—	76.8	93.8
Bombay	141.7	121	23 7	?PR ₁	e 34 37	?	59.4	84.2
Hyderabad	143.8	129	19 46	[-1]	—	—	62.5	81.1
Manila	147.7	206	e 19 29	[-23]	—	—	i 20.1	—
Ekaterinburg	149.0	50	i 20 1	[+7]	—	—	59.8	84.4
Tashkent	152.4	84	i 20 15	[+16]	—	—	e 64.8	88.0
Simla	153.1	110	e 42 22	?	—	—	(e 64.1)	—
Phu-Lien	N. 156.1	179	e 19 38	[-25]	e 34 57	?	60.8	—
Hong Kong	156.9	197	21 1?	?	—	—	—	72.8
Zi-ka-wei	162.4	225	e 21 2	?	e 24 48	?PR ₁	—	—
Irkutsk	172.2	12	20 25	[+9]	—	—	73.7	102.1

Additional readings: Santiago PR₁ = +2m.8s. Sucre i = +5m.57s. PR₁ = +6m.51s. i = +10m.56s. and +12m.46s.; T₀ = 23h.12m.15s.; epicentre 44° 6S. 74° 0W. La Paz PR₂ = +7m.4s. i = +11m.41s. SR₁E = +12m.10s. i = +14m.22s. MN = +17.6m.; T₀ = 23h.12m.13s. San Juan eN = +34m.19s. Wellington SR₁E = +26m.43s. SR₁N = +27m.38s. SR₂E = +31m.23s. = SR₂ - 17s.; T₀N = 23h.12m.19s.; T₁E = 23h.12m.57s. Tucson ePR₁E = +15m.18s. ePR₁N = +15m.20s. eSR₁N = +28m.41s. Cincinnati ePR₁N = +16m.0s. eN = +18m.52s. = PR₂ + 24s. eScPcSN = +23m.14s. eScSN = +24m.8s. = PS + 9s. eN = +25m.43s. +31m.37s. and +37m.37s. St. Louis eP = +12m.52s. P₀P = +13m.0s. ePR₁N = +18m.11s. PR₂E = +18m.17s. ePR₂E = +20m.39s. ePR₁N = +20m.41s. eScPcSN = +23m.18s. eScPcSE = +23m.21s. iScPcPcSN = +23m.45s. iScSE = +23m.56s. iPSN = +24m.11s. iPPSN = +24m.51s. iPcScPcSN = +27m.58s. iN = +28m.11s. and +28m.36s. iSR₁N = +29m.4s. iSR₂E = +29m.13s. ePcPcPcPE = +31m.15s. ePcPcPcPN = +31m.23s. iSR₁N = +32m.59s. eSR₂E = +33m.25s. iSR₂N = +34m.55s. iSR₂E = +35m.24s. eLN = +40.4m. MN = +47.2m. Fordham e = +24m.16s. and +26m.19s. and +31m.59s. SR₁ = +30m.16s. i = +36m.49s. Apia +38m.46s. and +40m.50s. MN = +51.1m. Ithaca eSR₁ = +29m.46s. Chicago eSR₁E = +29m.34s. Ann Arbor e?N = +29m.28s. Toronto iN = +16m.31s. = PR₂ - 24s. iScPcSN = +23m.36s. eE = +23m.42s. iE = +23m.56s. iN = +24m.2s. and +25m.2s. PSE = +24m.46s. SR₁N = +29m.56s.; T₁ = 23h.12m.43s. Ottawa PR₁N = +17m.2s. iN = +25m.16s. = PS + 8s. SR₁ = +30m.14s. SR₂N = +34m.2s. e = +37m.16s. = SR₂ + 14s.; T₀ = 23h.12m.47s. Riverview ScPcPcS = +24m.7s. MN = +44.8m. MZ = +47.1m.; T₀ = 23h.12m.57s. Azores readings have been increased by 1h. Berkeley eE = +23m.55s. = [S] + 4s. eE = +40m.11s. Adelaide MN = +51.2m. Entebbe S = +32m.41s. = SR₁ - 9s. San Fernando PR₁ = +26m.0s. SR₁ = +33m.10s. MN = +51.3m. Honolulu T.H. eN = +32m.46s. = SR₁ - 6s. eSR₁E = +32m.46s. MN = +59.5m. Perth P? = +22m.46s. = PR₂ - 16s. PR₁ = +24m.46s. = [S] + 8s. Granada e? = +10m.15s. i = +18m.47s. = PR₁ + 13s. +27m.40s. = PS + 2s. +28m.39s. +28m.55s. and +29m.40s. Toledo eNE = +24m.25s. = [S] - 21s. MNW = +48.7m. Alicante i = +24m.57s. = [S] + 7s. S = +34m.19s. = SR₁ + 31s. MN = +58.9m. Tortosa eSN = +11m.25s. Barcelona MN = +63.1m. Paris MN = +51.8m. Moncalieri MN = +63.8m. Kew eE = +26m.22s. eN = +27m.22s. eZ = +31m.16s. eSR₁ = +35m.46s. ? eSR₁ = +40m.46s. ? MN = +59.1m. MZ = +65.7m. Bidston S = +35m.2s. ? Rocca di Papa e = +20m.9s. iL = +64.1m. Stonyhurst i = +27m.6s. and +35m.57s. = SR₁ + 7s. Uccle e = +30m.22s. = PS + 14s. MN = +55.9m. Strasbourg MZ = +66.2m. Ravensburg eLN = +49.8m. MN = +57.5m. De Bilt e = +36m.34s. = SR₁ + 15s. MN = +60.0m. MZ = +64.2m. Feldberg eN = +36m.10s. = SR₁ - 14s. ME = +66.4m. Zagreb eLNW = +49.8m. Graz e = +30m.37s. = PS - 8s. MN = +59.0m. Jena eE = +37m.40s. eN = +37m.46s. Hamburg MN = +57.8m. Prague MN = +57.8m. Vienna PR₁ = +26m.18s. = PR₂ + 13s. PR₂ = +29m.25s. iE = +31m.30s. iEN = +32m.34s. PPS = +38m.33s. MN = +57.8m. Potsdam MN = +55.8m. Budapest MN = +69.8m. Copenhagen ePR₁E = +22m.58s. ePS = +29m.22s. eSR₁ = +37m.34s. eSR₁E = +41m.46s. ? MN = +62.0m. MZ = +71.7m. Kaara PE = +22m.49s. PN = +22m.59s. PR₁E = +23m.57s. = PR₂ + 32s. PR₂E = +26m.18s. = [S] + 17s. Konigsberg MN = +59.8m. Uppsala MN = +63.0m. Helsingfors PR₁Z = +21m.47s. P₀PcSE = +22m.48s. FcPcSN = +22m.52s. PPSSE = +34m.34s. SR₁E = +39m.46s. ? SR₁E = +44m.46s. ? eE = +49m.16s. = SR₂ - 7s. MN = +64.8m. Pulkovo PR₁ = +22m.0s. P₀P₀S = +22m.58s. PPS = +33m.58s. SR₁ = +39m.16s. SR₂ = +45m.58s. SR₂ = +49m.4s. MN = +65.8m. MZ = +78.1m. Makeyevka iF₁P₁S = +23m.2s. SR₁ = +43m.46s. ? MN = +67.2m. MZ = +74.6m. Kucino e = +18m.28s. +22m.10s. = PR₁ + 0s. +25m.4s. +31m.46s. and

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+36m.34s., $i = +40m.58s.$, $MN = +62.6m.$, $MZ = +69.5m.$ Ekaterinburg $i = +20m.9s.$, and $+20m.37s.$, $e = +21m.53s.$, $iPR_1 = +24m.6s.$, $e = +24m.21s.$, $iS_1P_1P_1S = +30m.28s.$, $e = +38m.53s.$, $iSR_1 = +41m.56s.$, $MN = +73.9m.$, $MZ = +83.6m.$ Tashkent $i = +24m.43s.$, $PR_2 = +25m.43s.$, $PPS = +34m.48s.$, $e = +38m.53s.$, $SR_2 = +45m.42s.$, $MN = +80.7m.$ Simla readings are given as ePE and ePN respectively. Hong Kong $MN = +73.9m.$ Irkutsk $e = +21m.51s.$, $PR_1 = +25m.34s.$, $PR_2 = +30m.14s.$, $S_1P_1P_1S = +32m.32s.$, $S_1P_1SP = +36m.27s.$, $SR_1 = +46m.49s.$, $MZ = +101.7m.$, $MN = +102.3m.$

Nov. 21d. Readings also at 3h. (Tifis and near Tashkent), 5h. (Tifis), 6h. (Taihoku), 10h. (Vienna), 11h. (Port au Prince), 14h. (Ekaterinburg and Tashkent), 17h. (Ekaterinburg, Fordham, Irkutsk, Tashkent, Tifis, and near Ksara), 21h. (Sucre), 22h. and 23h. (La Paz).

Nov. 22d. 12h. 52m. 52s. Epicentre $44^\circ 0'N$. $150^\circ 5'E$.

A = - .626, B = + .354, C = + .695; D = + .492, E = + .870;
G = - .605, H = + .342, K = - .719.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m. s.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Otomari	6.0	298	1 37	+ 5	2 42	- 2	3.4	7.3
Mizusawa	8.5	238	2 7	- 2	3 37	-13	—	—
Nagoya	13.7	236	e 3 42	+20	—	—	—	—
Zi-ka-wei	26.2	250	e 5 31	-19	e 10 30	+ 4	—	—
Irkutsk	31.3	304	i 6 24	-17	i 11 37	-19	13.9	20.7
Phu-Lien	43.0	252	e 8 0	-18	e 17 58	?SR ₁	26.1	—
Honolulu T.H.	48.1	102	—	—	—	—	e 20.1	—
Ekaterinburg	54.4	319	i 9 33	- 2	i 17 15	+ 1	25.1	36.7
Tashkent	57.3	300	i 9 57	+ 3	i 17 54	+ 4	e 25.1	39.0
Kucino	65.2	325	9 38	-68	18 20	-67	32.7	—
Pulkovo	65.3	332	i 10 41	- 6	i 19 28	- 1	32.1	44.2
Upsala	69.2	338	—	—	—	—	e 46.1	—
Baku	69.5	309	—	—	—	—	e 34.1	—
Makeyevka	70.6	320	e 11 18	- 3	e 20 35	+ 2	38.1	50.2
Tifis	E. 71.6	313	e 11 31	+ 4	e 20 48	+ 3	e 40.1	47.9
	N. 71.6	313	e 11 31	+ 4	e 20 47	+ 2	e 40.6	—
Copenhagen	74.2	338	—	—	—	—	36.1	—
De Bilt	79.4	340	i 12 9	- 6	—	—	e 38.1	56.1
Uccle	80.7	340	—	—	—	—	e 44.1	—
Kew	81.2	344	—	—	—	—	e 48.1	—
Strasbourg	81.8	338	i 12 16	-13	e 23 8?	+24	e 37.1	—
Ksara	N. 82.0	311	e 12 25	- 5	e 22 36	-10	—	—
Paris	83.0	339	—	—	—	—	e 57.1	59.1
Port au Prince	106.2	43	e 61 44	?L	—	—	(e 61.7)	—

Additional readings: Irkutsk $PR_1 = +7m.40s.$, $PR_2 = +8m.15s.$, $MZ = +20.8m.$ Ekaterinburg $i = +9m.36s.$, $PR_2 = +12m.58s.$, $e = +20m.48s.$, $MN = +35.0m.$ Tashkent $MN = +37.9m.$ Pulkovo $MN = +42.4m.$ Makeyevka $MN = +50.6m.$, $MZ = +52.5m.$

Nov. 22d. Readings also at 0h. (La Paz, Sucre, La Plata, Sydney, near Batavia, and Malabar), 1h. (Apia), 3h. (La Paz), 4h. (Tashkent), 5h. (Ekaterinburg, Irkutsk, La Plata, and Tashkent), 6h. (near Toyooka), 8h. (Ksara), 9h. (Tashkent), 16h. (Tashkent and Ekaterinburg), 19h. (near Toyooka), 21h. (Tashkent and Ekaterinburg), 22h. (Venice, near Chur, Neuchatel, and Zurich), 23h. (Tashkent).

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Nov. 23d. 0h. 12m. 55s. Epicentre 29°·5N. 129°·0E. (as on 1925 Nov. 30d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	3·3	13	1 14	+22	2 0	+29	2·3	2·6
Hukuoka	4·3	16	—	—	—	—	2·4	3·3
Zi-ka-wei	6·8	286	—	—	—	—	e 3·6	7·5
Hong Kong	E. 15·1	245	—	—	—	—	—	12·1
Phu-Lien	22·0	252	—	—	9 5?	0	—	—
Irkutsk	29·2	328	—	—	e 11 51	+31	27·9	30·2
Tashkent	49·1	301	i 8 48	-13	—	—	e 24·8	27·6
Ekaterinburg	54·0	321	e 9 32	-1	e 17 11	+ 2	27·1	35·2
Tiflis	66·9	307	—	—	—	—	e 38·6	—
Pulkovo	69·0	328	—	—	—	—	e 39·1	45·3
Makeyevka	69·2	315	—	—	—	—	39·1	—
Copenhagen	79·2	330	—	—	—	—	41·1	—
De Bilt	84·8	329	—	—	—	—	e 47·1	—
Uccle	86·0	329	—	—	—	—	e 47·1	—
Strasbourg	86·0	325	—	—	—	—	e 48·1	—
Kew	87·6	331	—	—	—	—	e 50·1	—

Additional readings: Hukuoka eP? = 0h.11m.13s. Zi-ka-wei S = +4m.58s.
Hong Kong MN = +13·2m. Tashkent ePR₁ = +10m.44s., eSR₁ =
+19m.35s. Ekaterinburg e = +21m.15s. = eSR₁ - 9s., MN = +30·9m.,
MZ = +35·8m. Pulkovo MN = +39·9m., MZ = +44·3m.

Nov. 23d. Readings also at 4h. (Mizusawa and Tashkent), 5h. (Ekaterinburg, Irkutsk, and Tashkent), 15h. (Rio Tinto), 16h. (Ekaterinburg, Tiflis, and Sumoto), 18h. (Tiflis), 19h. (Ekaterinburg), 20h. (Suva).

Nov. 24d. Readings at 0h. (Ekaterinburg), 2h. (Ekaterinburg, Fordham, Hong Kong, Irkutsk, Manila, Phu-Lien, Taihoku, and Tashkent), 3h. (Fordham), 4h. (Tiflis), 5h. (Tashkent and Ksara), 7h. (Makeyevka and Santiago), 10h. (Tashkent), 13h. (near Batavia and Malabar), 14h. (Hong Kong, near Phu-Lien, and near Toyooka), 15h. (Ekaterinburg, Irkutsk, Taihoku, Tashkent, and Manila), 16h. (Taihoku), 17h. (near Tacubaya), 20h. (near Matuyama).

Nov. 25d. 19h. 52m. 30s. Epicentre 1°·0N. 129°·0W. (as on 1924 June 17d.).

A = -·629, B = -·777, C = +·017; D = -·777, E = +·629;
G = -·011, H = -·014, K = -1·000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tucson	E. 35·7	27	—	—	e 11 20	?	e 14·6	17·6
Victoria	N. 35·7	27	e 7 53	+34	e 13 44	+38	e 17·5	18·8
Chicago	E. 47·7	5	22 18	?L	—	—	24·8	29·0
Toronto	55·2	38	—	—	e 16 43	-41	e 23·2	—
La Paz	N. 61·2	39	—	—	e 17 53	-45	29·4	—
Ottawa	N. 62·5	109	e 10 30	+ 1	e 18 52	- 3	25·5	30·7
Sucre	64·4	39	—	—	e 18 45	-33	e 25·5	—
La Plata	65·7	111	e 11 35	+46	20 6	+33	27·5	32·0
Uccle	75·2	127	—	—	—	—	36·1	—
Strasbourg	114·9	30	—	—	26 30?	?E	—	—
Ekaterinburg	118·0	30	—	—	—	—	55·5	—
Florence	121·7	355	—	—	—	—	e 50·5	—
Tashkent	122·9	33	—	—	—	—	e 61·5	112·5
Tiflis	E. 134·6	340	—	—	—	—	e 66·5	80·3
Baku	137·0	6	—	—	—	—	e 72·6	—
	138·6	1	—	—	—	—	e 69·5	—

Additional readings and note: Ottawa eN = +16m.18s. Florence e =
+84m.30s. ? Tashkent e = +53m.30s. ? Tiflis eE = +58m.10s.,
eLN = +63·5m. The North America stations give their readings without
phase, except Tucson, which gives P as PN ?

Original bulletins of the International Seismological Summary (ISS) have been obtained thanks to funding provided by the US National Science Foundation through grant EAR-9725140 (Villaseñor et al., 1997) and have been scanned and collected by SGA Storia Geofisica Ambiente (Bologna) thanks to funding provided by the Istituto Nazionale di Geofisica e Vulcanologia (Rome), in the frame of the EUROSEISMOS project.

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Nov. 25d. Readings also at 0h. (Ekaterinburg and Tashkent), 1h. (La Paz), 6h. (Fordham), 8h. (Rio Tinto), 12h. (Fordham), 13h. (near Toyooka), 15h. (St. Louis), 16h. (La Plata), 17h. (La Paz and St. Louis), 18h. (La Paz), 19h. (Denver, St. Louis, and near Taubaya), 20h. (near Sumoto), 22h. (Suva), 23h. (Tashkent (2), and Ekaterinburg).

Nov. 26d. 12h. 53m. 52s. Epicentre 25°-0S. 67°-0W.

A = +.354, B = -.834, C = -.423; D = -.921, E = -.391;
G = -.165, H = +.389, K = -.906.

A depth of focus 0.030 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.		O-C.	L.	M.
						m.	s.			
Sucre	-0.1	6.2	16	1	26	-7	2	29	-17	5.1
Pilar	E. -0.2	7.2	158	—	—	—	(2	50)	-20	2.8
	N. -0.2	7.2	158	1	26	-20	(3	2)	-8	3.0
La Paz	-0.3	8.6	353	2	1	-5	i 3	34	-22	4.0
Santiago	-0.3	9.0	200	e 2	22	+10	3	34	-9	7.3
Buenos Aires	E. -0.6	12.1	144	2	43	-9	4	58	-10	9.1
	N. -0.6	12.1	144	2	43	-9	4	57	+6	6.3
La Plata	-0.6	12.6	144	i 3	7	+8	5	25	+3	8.6
Rio de Janeiro	E. -1.4	21.8	90	i 4	46	+0	(8	35)	+3	13.8
	N. -1.4	21.8	90	i 4	48	+2	(8	38)	+6	8.6
Taubaya	-3.4	54.4	322	9	2	-11	14	9	-142	16.4
Cincinnati	N. -3.7	66.2	346	i 10	31	+2	i 18	58	+3	—
St. Louis	-3.7	67.2	340	i 10	35	0	i 19	10	+3	e 30.9
Ithaca	-3.8	67.9	354	i 11	25	+46	i 19	17	+3	—
Ann Arbor	-3.8	69.1	348	—	—	—	i 19	32	+3	—
Chicago	N. -3.8	69.4	345	—	—	—	i 19	33	+1	—
Toronto	E. -3.8	69.6	351	—	—	—	i 19	39	+4	31.9
	N. -3.8	69.6	351	i 10	50	0	i 19	35	+0	41.8
Ottawa	-3.8	70.8	355	i 10	59	+1	i 19	57	+7	e 32.1
Tucson	E. -3.8	70.9	321	e 10	3	-56	e 20	2	+11	—
	N. -3.8	70.9	321	e 11	3	+4	e 20	5	+14	—
Cape Town	-3.9	72.8	120	i 11	22	+12	i 20	34	+21	—
San Fernando	-4.1	84.0	45	i 12	20	+2	i 22	26	+4	—
Rio Tinto	-4.1	84.5	44	24	8 ²	?PS	—	—	—	26.1
Malaga	-4.1	85.3	46	i 13	10	+44	22	38	+1	30.0
Granada	-4.1	86.1	46	i 12	25	-5	i 22	39	-7	e 34.6
Almeria	-4.1	86.7	46	i 12	26	-8	i 22	42	-11	—
Toledo	-4.1	87.4	44	e 12	33	-5	i 22	44	-16	e 35.9
Alicante	-4.2	88.8	46	e 12	51	+5	23	3	-12	e 37.5
Victoria	-4.2	89.0	327	i 12	38	-9	(22	51)	-26	e 22.7
Algiers	-4.2	90.3	49	—	—	—	23	3	-27	e 45.1
Tortosa	N. -4.2	90.8	45	—	—	—	i 23	4	-29	e 36.1
Bagnères	-4.2	91.9	42	—	—	—	e 23	12	-27	—
Barcelona	-4.2	92.2	45	—	—	—	i 23	12	-29	—
Puy de Dôme	-4.3	94.9	41	—	—	—	i 23	31	-25	—
Oxford	-4.3	95.8	35	—	—	—	i 23	30	-31	—
Kew	-4.3	96.2	35	e 13	59	+33	i 23	32	-31	39.1
Paris	-4.3	96.3	39	e 13	59	+32	i 23	34	-30	38.1
Stonyhurst	-4.3	96.5	33	i 23	33	?[S]	(i 23	33)	-32	—
Edinburgh	-4.3	97.2	30	—	—	—	23	8 ²	-61	—
Besançon	-4.3	97.5	41	—	—	—	i 23	39	-31	—
Moncalieri	-4.3	97.5	44	i 13	39	+6	i 23	39	-31	34.7
Nauchatel	-4.4	98.0	43	e 13	23	-13	e 23	42	-31	—
Uccle	-4.4	98.3	38	e 15	7	+90	i 23	45	-30	e 36.1
Zurich	-4.4	99.1	43	e 13	27	-15	i 23	50	-29	—
Strasbourg	-4.4	99.2	40	e 14	10	+28	i 26	2	+58	—
Rocca di Papa	E. -4.4	99.2	48	i 23	51	?[S]	(i 23	51)	-29	—
Florence	E. -4.4	99.2	46	e 11	38	-124	23	48	-32	31.1
De Bilt	-4.4	99.4	37	i 14	15	+32	i 24	41	-25	e 40.1
Honolulu T.H.	-4.4	99.5	289	—	—	—	—	—	—	e 48.6
Pompeii	-4.4	100.1	49	e 16	44	?	e 23	54	-30	—
Feldberg	N. -4.4	100.3	39	—	—	—	i 24	50	-25	e 40.6
Venice	-4.4	100.6	44	16	8 ²	?	—	—	—	—
Ches	-4.4	102.6	40	e 14	24	+23	i 24	9	-27	—
Hamburg	-4.4	102.6	36	—	—	—	e 23	56	-40	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.		L. m.	M. m.
				m.	s.	s.	s.	m.	s.	m.	s.		
Zagreb	-4.4	103.0	45	e 16	38	?		e 24	12	[-26]			
Graz	-4.4	103.3	43	i 24	7	?[S]		(i 24	7)	[-32]			63.4
Prague	-4.4	103.8	40	e 16	8?	?		i 24	8?	[-34]			
Vienna	Z. -4.4	104.2	42	e 17	58	?PR ₁							
Copenhagen	-4.4	104.8	34					24	20	[-26]	e 43.7		
Budapest	-4.5	105.6	31					i 24	24	[-26]	e 66.1	68.6	
Upsala	E. -4.5	108.8	31					i 24	30	[-35]			
Helwan	-4.5	108.9	65	e 18	39	?PR ₁		24	38	[-28]			
Riverview	-4.5	110.9	213					(e 24	14)	[-60]	e 24.2		
Ksara	E. -4.5	113.8	62	e 19	15	?PR ₁		i 26	2	[-37]	56.5		
Pulkovo	-4.5	113.8	62	e 19	15	?PR ₁		i 24	58	[-31]	48.1	71.5	
Makeyevka	-4.5	115.1	33					i 26	33	[-122]	35.1		
Kucino	-4.5	118.1	46	e 15	8?	-26					e 40.3		
Tiflis	E. -4.5	118.7	38	e 19	47	?PR ₁					e 66.1		
Baku	-4.5	122.2	54	e 19	43			i 25	26	[-26]	e 53.1		
Ekaterinburg	N. -4.5	122.2	54	e 19	32	[+33]		e 25	26	[-26]			
Tashkent	-4.5	125.9	56	e 18	53	[-15]		25	43	[-18]			
Bombay	-4.5	131.1	35	19	2	[-19]					51.1	72.4	
Hyderabad	-4.5	140.5	53	i 19	17	[-23]					e 46.5	90.4	
Batavia	-4.5	142.4	90	19	21	[-23]		22	46	?PR ₁	24.8		
Irkutsk	-4.5	147.0	94	19	27	[-24]		29	27	?E ₁			
Mizusawa	-4.5	148.2	166	i 20	40						55.0	88.0	
Manila	E. -4.5	152.0	12	19	36	[-23]							
Zi-ka-wei	-4.5	152.5	308	(19	43)	[-16]		19	43	?[P]			
Phu-Lien	-4.5	167.2	217	e 20	3	[-10]							
Hong Kong	-4.5	170.4	312	i 19	54	[-21]		e 24	57	?			
	-4.5	172.8	124	15	8?	?							
	-4.5	177.1	202	21	48?	?							

Additional readings: La Paz iSN = +3m.35s., MN = +4.8m.; T₀ = 12h.53m.56s.; epicentre 23° 6S. 68° 0W. Santiago PR₁ = +2m.38s., PR₂ = +3m.18s. Cincinnati eN = +10m.58s., iP₁P₁N = +11m.23s., eN = +14m.3s., ePR₁N = +15m.8s., iSE = +18m.59s., iPSE = +19m.18s., iEN = +20m.11s., iE = +20m.31s. = [S] - 11s., eE = +21m.33s. = E + 13s.; T₀ = 12h.53m.57s.; epicentre 22° 4S. 72° 4W. St. Louis iP₁P = +11m.23s., iN = +11m.51s., iP₁R₁N? = +13m.43s., ePR₁N? = +15m.43s., i = +20m.14s. = PS - 12s., and +21m.40s. = S + 13s., eSR₁N = +27m.31s. Ann Arbor i = +20m.32s. and +20m.46s. Chicago iE = +19m.36s. S + 4s., iSN? = +20m.35s., iSE? = +20m.37s.; the S entered is given as iN. Toronto iP₁P₁N = +11m.35s., iN = +20m.35s., iE = +20m.59s. = PS + 3s.; T₀ = 12h.53m.57s. Ottawa eLN? = +35.1m.; T₀ = 12h.53m.53s. Toledo i = +13m.18s. Alicante i = +13m.30s., MN = +44.3m. Tortosa iSE = +23m.5s. Barcelona PS = +23m.39s. Kew ePSEN = +24m.9s., iZ = +25m.34s. Stonyhurst i = +24m.13s., iS? = +25m.39s. Zurich iP₁R₁ = +17m.24s. Strasbourg i = +17m.21s. = PR₁ - 19s., +23m.42s., and +24m.34s. = [S] + 14s.; epicentre 23° 6S. 68° 0W. Rocca di Papa iPN = +23m.53s. De Bilt i = +23m.51s. = [S] - 30s. Feldberg iN = +25m.27s. = [S] + 2s., eN = +26m.13s.; readings have been diminished by 1h. Zagreb eNW = +17m.22s., eNE = +17m.57s. = PR₁ - 7s., eNW = +25m.20s. = E - 9s., eNE = +25m.22s. Graz i = +25m.17s. = E - 14s., eS = +32m.45s. = SR₁ + 21s. Copenhagen eN = iE = +25m.4s. = E - 37s., ePSEN = +27m.8s.; epicentre 23° 6S. 68° 0W. Ksara iE = +24m.55s., +28m.42s., i = +29m.44s. = PS + 5s., PSE? = +33m.32s., PFSE? = +34m.31s., eE = +36m.19s., SR₁E = +39m.48s., SR₁E = +44m.44s. = SR₁ + 16s., SR₁E = +48m.21s. Pulkovo i = +26m.6s., e = +28m.42s., MZ = +71.4m. Makeyevka e = +25m.12s. = [S] - 27s., i = +29m.39s. Kucino e = +20m.27s. = PR₁ + 12s. and +29m.26s., i = +25m.11s. = [S] - 30s., and +26m.31s. Tiflis ePR₁?E = +20m.17s., ePR₁?N = +20m.26s., i = +26m.57s. = E - 30s., ePSE = +30m.21s., eS₁P₁P₁?N = +30m.51s., eSR₁E = +36m.11s., eSR₁N = +36m.12s. Baku e = +19m.41s., PR₁ = +20m.45s., i = +21m.27s., and +22m.58s., S₁P₁P₁S = +27m.13s., PS = +30m.38s., SR₁ = +39m.0s., i = +39m.49s., and +44m.54s. SR₁ = +43m.32s. Ekaterinburg e = +19m.46s., i = +19m.52s., +21m.52s., +23m.9s., +23m.10s., +23m.36s., +29m.2s., +29m.23s., and +40m.11s. PR₁ = +21m.7s., P₁P₁S = +22m.26s., S₁P₁P₁S = +27m.56s., SR₁ = +38m.28s., e = +39m.11s., MN = +59.6m. Tashkent i = +20m.23s., +22m.16s., +22m.44s. = PR₁ + 7s., +22m.55s., +23m.16s., +28m.50s. = E - 16s., +35m.49s., and +40m.19s., e = +23m.26s., +36m.37s., +41m.38s., and +60m.8s.?, MN = +89.4m., MZ = +93.2m. Batavia iN = +24m.12s. Irkutsk i = +20m.26s., PR₁ = +24m.3s., S₁P₁P₁S = +29m.56s., S₁P₁SP = +33m.18s. Phu-Lien e = +30m.48s., and +44m.42s. Hong Kong ? = +26m.48s. = PR₁ + 32s., and +32m.29s. = E - 5s.

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Nov. 26d. Readings also at 0h. (Baku), 1h. (Suva), 2h. (Ekaterinburg), 3h. (Baku, Tashkent, and near Tacubaya), 6h. (Ekaterinburg), 9h. (Suva), 11h. (near Toyooka), 14h. (Sucre and near La Paz), 15h. (near Mizusawa and near Toyooka), 21h. (Toyooka, and near Oaxaca and Tacubaya), 23h. (Florence).

Nov. 27d. Readings at 1h. (Ekaterinburg), 2h. (La Paz, Sucre, and near Toyooka), 5h. (Tashkent and Tucson), 6h. (Makeyevka, Ottawa, and near Matuyama), 7h. (Ekaterinburg and Tashkent), 10h. (Tiflis (2)), 12h. (La Paz and near Mizusawa), 13h. (near Belgrade and near Matuyama), 21h. (near Toyooka), 22h. (Ekaterinburg and Tashkent), 23h. (Taihoku).

Nov. 28d. 10h. 12m. 8s. Epicentre 3°-0S. 177°-5E. (as on 1921 Feb. 10d.).

A = -0.998, B = +0.044, C = -0.052; D = +0.044, E = +0.999;
G = +0.052, H = -0.002, K = -0.999.

Very uncertain.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	15.2	136	3 38	- 4	6 57	+20	7.7	14.9
Suva	E. 15.2	177	13 46	+ 4	6 16	-21	7.3	9.0
Honolulu T.H.	N. 15.2	177	13 46	+ 4	5 52	-45	16.4	8.0
Wellington	34.3	145	—	—	—	—	22.9	—
Riverview	38.4	183	—	—	—	—	115.1	—
Sydney	E. 39.4	217	e 10 52?	?	—	—	e 20.9	26.5
Adelaide	39.4	217	15 40	?SR ₁	—	—	21.8	23.5
Hong Kong	48.2	224	—	—	e 22 10	?	e 25.8	33.4
Victoria	N. 66.7	296	—	—	—	—	—	72.5
Irkutsk	72.5	37	26 47	?SR ₁	—	—	44.8	47.4
St. Louis	E. 82.2	324	—	—	e 24 16	+88	57.8	60.0
Ottawa	N. 93.7	52	—	—	—	—	e 54.0	—
Ekaterinburg	103.8	44	—	—	—	—	e 54.9	—
La Paz	106.9	329	—	—	e 35 10	?SR ₁	64.4	76.9
Sucre	112.4	110	—	—	—	—	52.3	54.9
Kucino	114.5	112	—	—	—	—	55.9	—
Baku	118.0	335	—	—	—	—	e 81.2	—
Tiflis	E. 119.8	315	—	—	—	—	e 79.9	—
De Bilt	N. 122.7	319	—	—	e 27 15	?Σ	e 82.9	88.3
Rio Tinto	130.5	8	—	—	—	—	e 81.9	85.6
San Fernando	E. 145.0	5	91 52?	?L	—	—	e 92.9	—
	146.4	5	—	—	—	—	(91.9)	96.9
								94.9

Additional readings: Honolulu T.H. eE = +23m.52s. ? Riverview MN = +24.1m. Adelaide MN = +28.7m. Irkutsk e = +28m.43s. =SR₁ -1s., MN = +60.1m., MZ = +60.2m. Tiflis eE = +33m.48s. and +39m.7s., eN = +39m.8s. and +46m.37s. San Fernando MN = +96.4m.

Nov. 28d. 14h. 28m. 42s. Epicentre 47°-0S. 78°-0W. (as on 1926 Dec. 7d.).

A = +0.142, B = -0.667, C = -0.731; D = -0.978, E = -0.208;
G = -0.152, H = +0.715, K = -0.682.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	19.3	58	4 22	-11	(8 18f)	+10	8.3	—
Sucre	E. 29.9	25	e 6 21	- 6	1 11 18	-14	14.6	17.2
La Paz	31.6	18	e 6 46	+ 3	e 12 6	+ 5	15.3	18.2
Tiflis	E. 139.6	76	—	—	—	—	e 87.1	—
Ekaterinburg	163.2	53	—	—	—	—	73.3	—
Tashkent	156.0	92	—	—	—	—	e 76.3	—

Additional readings: La Paz 1P = +6m.53s. Tiflis eLN = +85.3m.

Nov. 28d. Readings also at 0h. (near Toyooka), 2h. (Florence, Rocca di Papa, and near Manila), 3h. (La Paz and near Tashkent), 4h. (Baku, Tashkent, Keera, and Tiflis), 5h. (Feldberg), 6h. (Balboa Heights and La Paz), 8h. (La Paz), 11h. (Bombay), 15h. (near Mizusawa), 16h. (near Sucre and La Paz), 18h. (De Bilt, Uccle, Tashkent, and La Paz), 20h. (La Paz, near Amboina, and near Toyooka), 21h. (near St. Louis).

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Nov. 29d. 11h. 34m. 26s. Epicentre 30°0N. 83°0E. (as on 1913 March 6d.).

A = +106, B = +860, C = +500; D = +993, E = -122;
G = +061, H = +496, K = -866.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Simla	5.1	283	1 28	+ 9	(2 28)	+ 8	2.5	—
Hyderabad	13.2	199	5 44	?S	(5 44)	- 5	8.0	8.8
Bombay	14.6	222	6 11	?S	(6 11)	-11	8.1	10.4
Tashkent	15.8	319	e 3 49	0	1 6 22	-28	8.0	8.4
Ekaterinburg	31.0	336	—	—	—	—	14.6	—
Tiflis E.	32.7	301	—	—	—	—	e 18.6	—
De Bilt N.	59.6	316	—	—	—	—	e 32.6	—

Additional readings: Hyderabad S = +7m.19s. Bombay S = +7m.34s.
Tashkent MN = +8.5m. Tiflis eLN = +22.6m.

Nov. 29d. Readings also at 4h. (Zagreb), 10h. (Tiflis), 13h. (Moncalieri and Tiflis) 15h. (Taihoku), 16h. (La Paz, Sucre, La Plata, and near Santiago), 17h. (near Toyooka), 19h. (Ekaterinburg), 22h. (Florence), 23h. (Tashkent, Tiflis, and near Toyooka).

Nov. 30d. 2h. 58m. 8s. Epicentre 43°5N. 11°8E. (as on 1918 Jan. 14d.).

A = +710, B = +148, C = +688; D = +204, E = -979;
G = +674, H = +141, K = -725.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Florence	0.5	305	0 16	+ 8	—	—	—	0.7
Rocca di Papa	1.9	159	e 0 28	- 1	0 56	+ 3	—	2.1
Venice	2.0	11	0 28	- 3	1 20	+25	—	—
Pompeii	3.4	142	e 1 52	?L	—	—	(e 1.9)	—
Zagreb	3.8	51	e 1 1	+ 2	1 1 38	- 6	e 1.8	2.1
Zurich	4.5	331	e 1 12	+ 2	1 2 7	+ 3	—	—
Neuchatel	4.9	317	e 1 16	0	e 2 16	+ 2	—	—
Strasbourg	5.8	333	1 52?	+22	—	—	—	—

Additional readings: Rocca di Papa PN = +32s., PE = +34s. Zagreb e = +1m.6s., +1m.13s., and +1m.18s., i = +1m.25s., +1m.31s., and +1m.35s. Neuchatel eP = +1m.34s.

Nov. 30d. Readings also at 0h. (near Ksara), 1h. (Tiflis, near Ksara, and near Manzanillo), 3h. (Tiflis), 4h. (Hong Kong and Tiflis), 6h. (Tashkent), 9h. (Tiflis and near Toyooka), 11h. (near Taihoku), 16h. (Balboa Heights), 17h. (Tiflis, near La Paz, and near Toyooka), 18h. (Riverview, Sydney, Irkutsk, Tashkent, and La Paz), 19h. (Tiflis and Strasbourg), 20h. (Tiflis), 23h. (La Paz).

Dec. 1d. 4h. 37m. 21s. Epicentre 0°7S. 119°7E. (as on 1917 Nov. 14d.).

A = -495, B = +869, C = -012; D = +869, E = +495;
G = +006, H = -001, K = -1.000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Ambolna	9.0	109	1 1 57	-19	3 15	-48	3.8	15.6
Malabar	13.7	242	3 29	+ 7	1 6 13	+12	9.2	—
Batavia	13.9	246	3 30	+ 5	—	—	18.0	—
Manila	15.3	5	1 3 44	+ 1	1 7 21	+42	18.5	9.4
Phi-Lien	25.0	330	e 5 28	-10	e 9 51	-12	11.6	19.8
Taihoku E.	25.8	4	e 5 52	+ 6	—	—	11.2	—
Perth	31.5	186	e 6 49	+ 6	13 28	?SR,	18.6	20.5

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zi-ka-wei	31.9	4	i 6 30	-16	e 11 23	-44	—	18.6
Osaka	38.3	21	12 29	?S	(12 29)	-73	19.6	21.3
Adelaide	38.6	153	e 6 39	-64	12 32	-74	16.4	25.1
Kodaikanal	43.4	286	11 27	?	—	—	29.0	30.6
Riverview	44.4	142	e 7 47	-42	e 14 45	-22	e 17.6	30.7
Hyderabad	44.5	297	e 8 22	-8	14 53	-16	23.2	25.6
Bombay	50.0	297	9 2	-5	16 17	-2	26.0	30.4
Simla	N. 51.3	313	16 39	?S	(16 39)	+4	—	—
Irkutsk	54.5	349	i 9 33	-3	17 12	-3	e 25.6	36.7
Tashkent	61.9	320	i 10 25	+1	i 18 44	-3	e 30.6	45.0
Wellington	64.1	137	—	—	e 18 56	-18	e 28.0	42.1
Ekaterinburg	74.2	331	—	—	i 21 10	-6	34.2	50.6
Baku	75.2	314	i 11 51	+1	—	—	36.6	—
Tiflis	79.2	314	e 12 15	+1	e 22 17	+3	e 37.6	47.0
Makeyevka	85.0	320	12 42	-6	23 1	-18	39.6	55.6
Ksara	85.2	304	i 12 50	+1	23 22	+1	43.6	—
Kucino	86.0	326	e 12 42	-11	23 12	-18	40.8	56.7
Helwan	88.9	300	13 5	-5	23 54	-8	—	56.6
Pulkovo	90.2	330	e 13 7	-10	23 57	-19	44.6	58.8
Helsingfors	E. 92.9	330	—	—	—	—	—	59.6
Upsala	E. 96.6	330	—	—	—	—	e 52.6	64.0
Copenhagen	99.9	327	—	—	e 24 36	[+13]	53.6	61.2
Zagreb	100.0	317	—	—	—	—	58.4	—
Prague	100.2	322	e 18 9	?PR ₁	e 26 9	+11	e 47.6	58.6
Cheb	101.5	322	e 20 17	?	e 31 1	?	e 49.6	59.6
Hamburg	102.1	325	—	—	—	—	e 53.6	70.6
Florence	103.7	315	—	—	e 26 39?	+9	37.6	60.8
Strasbourg	104.8	321	e 18 36	?PR ₁	e 27 39?	?PS	40.6	—
De Bilt	105.3	325	—	—	—	—	e 47.6	59.5
Moncalleri	105.8	317	e 18 39	?PR ₁	27 10	+20	47.0	—
Uccle	106.2	323	—	—	e 25 9	[+16]	e 49.6	74.2
Dyce	107.2	331	—	—	—	—	—	65.0
Paris	108.0	322	—	—	e 27 39?	+29	56.6	64.6
Victoria	E. 108.1	39	28 28	?PS	—	—	50.0	51.6
Edinburgh	108.3	330	—	—	—	—	e 54.6	—
Kew	108.7	325	—	—	e 24 39?	[-26]	52.6	61.6
Stonyhurst	108.8	326	—	—	e 28 56	?PS	e 52.6	—
Oxford	109.1	325	—	—	e 25 14	[+8]	e 51.4	73.2
Algiers	111.4	310	—	—	—	—	e 63.6	70.6
Tortosa	N. 112.3	314	—	—	—	—	e 61.6	—
Rio Tinto	118.4	313	29 39?	?S	(29 39?)	+62	—	79.6
St. Louis	E. 133.2	31	—	—	—	—	e 59.6	70.6
Ottawa	N. 133.3	13	—	—	1 22 54	?	e 63.6	—
Toronto	N. 133.8	18	—	—	1 22 54	?	1 70.6	—
Sucre	159.7	166	e 20 57	[+49]	—	—	78.0	87.8
La Paz	161.2	156	e 20 18	[+7]	—	—	80.6	89.0

Additional readings and notes : Malabar IP = +3m.36s., i = +6m.38s., +7m.16s and +8m.53s. Phu-Lien MN = +21.7m. Perth PR₁ = +11m.39s. = S-21s., SR₁ = +13m.39s., iSR₁ = +14m.29s. Adelaide MN = +24.0m. Riverview SR₁? = +16m.33s., MN = +26.0m. Irkutsk PR₁ = +11m.53s., PR₁ = +12m.57s., PS = +17m.36s., SR₁ = +22m.1s., MZ = +36.8m. Tashkent PR₁ = +12m.48s., PR₁ = +14m.15s., eS₁PS = +20m.10s., eSR₁ = +24m.15s., MN = +39.9m., MZ = +44.7m. Wellington IN = +19m.8s. = S-6s. Ekaterinburg e = +17m.4s. = PR₁-30s., i = +21m.36s. = [S]-8s. and e = +24m.10s., MN = +47.0m., MZ = +49.5m. Tiflis e? = +13m.6s. and +17m.5s. = PR₁-31s., eSR₁ = +23m.20s. Makeyevka i = +13m.6s., PR₁ = +16m.7s., MN = +49.3m., MZ = +55.5m. Ksara SE = +23m.25s., LN = +46.6m. Kucino ePR₁ = +16m.7s., S₁PS = +23m.8s., FPS = +25m.11s., SR₁ = +33m.48s. = SR₁+14s. Pulkovo MN = +55.9m., MZ = +60.8m. Upsala eLN = +49.6m., MN = +68.0m. Copenhagen eN = +25m.15s. = Z+7s., SR₁E = +30m.39s.? Hamburg MN = +65.6m., MZ = +68.6m. De Bilt iPR₁Z = +18m.43s., MN = +63.1m., MZ = +76.1m.; epicentre 0°5S. 119°5E. Uccle e = +28m.39s., -PS +24s. Kew MN = +59.6m. Tortosa reading is given for 2d. Oxford PS = +28m.6s. St. Louis eLN = +60.6m., MN = +66.6m. Ottawa eN = +39m.15s. = SR₁-16s. Sucre PR₁ = +25m.21s. La Paz P = +20m.41s. (corresponding to the Sucre eP), MN = +97.0m.

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Dec. 1d. 9h. 55m. 36s. Epicentre 43°·5N. 11°·8E. (as on 1927 Nov. 30d.).

A = +·710, B = +·148, C = +·688, ; D = +·204, E = -·979 ;
G = +·674, H = +·141, K = -·725.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Florence		0·5	305	0 12	+ 4	—	—	—	0·6
Rocca di Papa	E.	1·9	159	i 0 32	+ 3	i 0 56	+ 3	—	1·0
	N.	1·9	159	i 0 30	+ 1	i 0 57	+ 4	—	1·0
Venice		2·0	11	0 55	?S	(0 55)	0	(1·6)	—
Moncalieri		3·3	297	0 34	-18	2 10	?	—	2·9
Pompeii		3·4	142	e 2 4	?L	—	—	(e 2·1)	—
Zagreb		3·8	51	e 1 0	+ 1	i 1 43	- 1	i 1·9	2·0
Zurich		4·5	331	e 1 9	- 1	i 2 5	+ 1	—	—
Neuchâtel		4·9	317	e 1 15	- 1	e 2 12	- 2	—	—
Vienna	Z.	5·7	33	e 2 52	?L	—	—	(e 2·9)	—
Strasbourg		5·8	333	—	—	2 50	+11	—	—
Stonyhurst		13·9	323	e 2 51	-34	e 4 31	?	—	—

Additional readings and notes : Venice gives S as P and L as S. Zagreb
eNW = +1m.18s., iNE = +1m.47s., i = +1m.51s., and +1m.54s. Stras-
bourg SR₁ = +3m.2s., +3m.24s., and +3m.44s.

Dec. 1d. 22h. 47m. 18s. Epicentre 39°·0N. 81°·5E. (as on 1927 May 2d.).

A = +·115, B = +·769, C = +·629 ; D = +·989, E = -·148 ;
G = +·093, H = +·622, K = -·777.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Simla	N.	8·6	206	—	—	—	—	e 4·7	—
Tashkent		9·6	288	i 2 33	+ 9	i 4 1	-17	—	5·4
Irkutsk		20·6	42	—	—	e 9 44	+68	e 13·7	14·4
Bombay		21·4	203	5 25	+27	—	—	—	13·6
Ekaterinburg		22·5	330	i 5 11	0	e 9 12	- 3	i 10·7	12·8
Baku		24·2	283	—	—	e 10 3	+15	—	14·2
Tiflis	E.	27·9	287	e 6 3	- 4	e 10 41	-16	e 21·7	25·5
	N.	27·9	287	—	—	e 10 28	-29	e 22·7	24·5
Kucino		33·2	315	—	—	—	—	e 18·5	—
Copenhagen		47·5	315	—	—	—	—	—	25·7
Strasbourg		52·0	307	—	—	—	—	—	30·7
De Bilt		52·5	311	—	—	—	—	e 31·7	32·2
Uccle		53·4	310	—	—	—	—	—	31·7
Kew		55·9	313	—	—	—	—	e 27·7	—

Additional readings : Simla eE = +5m.24s. Tashkent i = +1m.28s.,
+2m.44s., 2m.50s., +3m.6s., +3m.15s., +3m.35s., +3m.45s., and +3m.63s.
Irkutsk e = +12m.40s. Ekaterinburg MNZ = +12·4m. Tiflis eE? =
+14m.39s. and +15m.55s. Kucino e = +16m.30s.

Dec. 1d. Readings also at 2h. (Tashkent), 3h. (Nagasaki), 4h. (Sucre), 6h. (Uccle and near Algiers), 10h. (near San Fernando), 14h. (La Plata), 15h. (near Misusawa), 16h. (near Tacubaya), 17h. (La Paz), 22h. (Makeyevka).

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Dec. 2d. 6h. 55m. 10s. Epicentre 34°-0N. 136°-0E. (as on 1927 Aug. 16d.).

A = -·596, B = +·576, C = +·559; D = +·695, E = +·719;
G = -·402, H = +·389, K = -·829.

	Δ	Az.	P.	O-C.		S.	O-C.		L.	M.
				m. s.	s.		m. s.	s.		
Osaka	0·8	325	0 13	+ 1	(0 23)	+ 1		0·4	1·2	
Sumoto	0·9	291	-0 6	-20				0·0	0·1	
Kobe	1·0	316	0 5	-10				0·3	0·3	
Nagoya	1·4	33	10 32	+11	0 46	+ 7		0·9	1·7	
Toyouka	1·8	328	0 28	0	(0 47)	- 4		0·8	0·9	
Matuyama	2·7	266	10 28	-14	(e 0 52)	-22	e 0·9	1·0	1·0	
Hukuoka	4·6	266	1 13	+ 2	(2 10)	+ 4		2·2	2·2	
Nagasaki	5·2	258	1 1 20	0	2 23	+ 1		2·8	—	
Mizusawa	E. 6·6	37	3 2	?S	(3 2)	+ 2		(3·8)	—	
Irkutsk	29·1	319	—	—	—	—		15·3	—	
Ekaterinburg	54·4	319	—	—	—	—		27·3	—	

Additional readings: Osaka MN = +0·9m. Sumoto MNZ = +0·2m. Kobe MNZ = +0·4m. Nagoya P = +34s., MN = +0·9m. Mizusawa gives S as P and L as S.

Dec. 2d. Readings at 3h. (Suva), 4h. (near Berkeley and near Irkutsk), 5h. (Tortosa and near Sumoto), 7h. (Suva, near Sumoto, and near Toyouka), 8h. (Tashkent, near Merida, and Tacubaya), 14h. (Suva and near Sumoto), 18h. (Wellington), 19h. (near Toyouka), 20h. (Batavia, Manila, and Tashkent).

Dec. 3d. 10h. 9m. 10s. (I) } Epicentre 35°·7N. 2°·3W.
10h. 13m. 30s. (II) } (as given by Granada and Toledo).

A = +·809, B = -·033, C = +·586; D = -·040, E = -·999;
G = +·586, H = -·024, K = -·810.

	Δ	Az.	P.	O-C.		S.	O-C.		L.	M.
				m. s.	s.		m. s.	s.		
I Almeria	1·0	352	0 23	+ 8	10 44	+16		—	1·2	
II	1·0	352	e 0 23	+ 8	10 43	+15		—	1·0	
I Granada	1·6	321	10 28	+ 4	0 48	+ 3		—	1·3	
II	1·6	321	10 30	+ 6	0 50	+ 5		—	1·0	
I Malaga	1·9	296	0 24	- 5	(0 46)	- 7		0·8	—	
II	1·9	296	e 0 33	+ 4	(e 0 45)	- 8	e 0·8	—	—	
I Toledo	4·2	342	e 1 4	- 1	1 53	- 2		—	—	
II	N.W. 4·2	342	—	—	1 52	- 3		—	—	

Additional readings: Almeria I PR₁ = +33s., PR₂ = +38s., SR₁ = +51s., SR₂ = +59s., MN = +1·3m., MZ = +1·5m., II PR₁ = +38s., SR₁ = +51s. Granada I P = +30s., I = +36s. and +41s., II I = +46s. and +49s. Toledo I eP = +1m.15s., SNE = +2m.11s., SR₁NW = +2m.22s., II S = +2m.10s.

Dec. 3d. Readings also at 0h. (Tifis and Wellington), 1h. (Tifis), 2h. (Tashkent), 3h. (near La Paz and Sucre), 4h. (Tashkent), 7h. (Port au Prince), 8h. (Suva), 12h. and 13h. (Ekaterinburg), 17h. (near Sumoto), 21h. (Port au Prince), 22h. (Ksara).

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Dec. 4d. 3h. 53m. 4s. Epicentre 32°2N. 129°5E. (as on 1927 Oct. 18d.).

A = -538, B = +653, C = +533; D = +772, E = +636;
G = -339, H = +411, K = -846.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	0.6	31	10 7	- 2	0 10	- 7	—	—
Hukuoka	1.6	29	0 24	0	0 40	- 5	—	0.7
Matuyama	3.2	58	e 1 4	+14	(e 1 40)	+12	e 1.7	1.8
Sumoto	5.0	64	e 0 38	-39	—	—	1.8	1.8
Kobe	5.3	61	1 25	+ 3	—	—	2.7	2.7
Osaka	5.6	62	1 33	+ 6	—	—	2.8	4.6
Toyooka	5.6	52	1 24	- 3	(2 30)	- 4	2.5	2.7
Nagoya	6.8	62	e 2 0	+16	—	—	3.4	3.9
Zi-ka-wei	6.9	264	—	—	e 3 19	+12	—	—
Hong Kong	16.8	238	—	—	—	—	—	11.4
Phu-Lien	23.4	246	—	—	—	—	11.9	—
Baku	62.5	302	—	—	—	—	e 33.9	—
Kucino	64.7	321	—	—	—	—	e 34.2	—
Tiflis	E. 65.6	305	—	—	—	—	e 35.6	—
Pulkovo	66.9	327	—	—	—	—	e 34.9	—
Copenhagen	77.1	329	—	—	—	—	41.9	—
De Blit	82.4	329	—	—	—	—	e 44.9	—
Uccle	84.0	329	—	—	—	—	45.9	—

Additional readings: Sumoto MN = +1.9m. Kobe MZ = +2.8m., MN = +3.0m. Osaka MN = +4.2m. Nagoya MN = +4.1m.

Dec. 4d. 12h. 18m. 20s. Epicentre 32°2N. 129°5E. (as at 3h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	0.6	31	10 7	- 2	0 11	- 6	—	—
Hukuoka	1.6	29	0 19	- 5	0 35	-10	—	0.6
Matuyama	3.2	58	e 1 19	-31	(e 1 27)	- 1	e 1.5	1.6
Sumoto	5.0	64	e 1 24	+ 7	(2 26)	+ 9	2.4	2.4
Kobe	5.3	61	1 13	- 9	(2 34)	+ 9	2.6	2.7
Osaka	5.6	62	2 25	18	(2 25)	- 9	3.4	4.6
Toyooka	5.6	52	1 24	- 3	(2 28)	- 6	2.5	2.5
Nagoya	6.8	62	e 1 59	+15	—	—	3.4	—
Zi-ka-wei	6.9	264	—	—	—	—	e 3.6	—
Irkutsk	27.1	325	—	—	—	—	e 12.6	—

Additional readings: Kobe MZ = +2.6m. Osaka MN = +4.4m.

Dec. 4d. List of times for P for Nagasaki records of after shocks from the epicentre 32°2N. 129°5E.

h.	m.	s.	h.	m.	s.	h.	m.	s.
3	53	11	5	45	15	10	37	4
4	3	17	5	45	41	10	44	1
4	3	47	5	48	51	11	11	28
4	15	11	5	53	37	12	18	27
4	17	42	6	4	24	12	22	9
4	20	31	6	14	3	12	23	0
4	36	56	6	39	41	12	32	1
*4	48	1	6	45	29	12	33	15
4	49	12	6	58	0	12	34	29
5	35	38	7	12	52	12	38	9
5	38	8	8	12	18	12	40	10
5	43	47	9	43	13	14	1	29
5	44	4	10	14	4	14	13	16
5	44	57	10	17	56			

*Hukuoka gives P = 4h.48m.16s., S = 4h.48m.32s.

Dec. 4d. Readings also at 0h. (Ekaterinburg, near Sumoto, and Toyooka), 3h. (Tiflis, Nagoya, near Sumoto, and Toyooka), 4h. (Nagoya, near Misawa, and near Port au Prince), 5h. (Makeyevka and Tiflis (2)), 6h. (near Amboina), 7h. (La Paz and Riverview), 8h. (Strasbourg), 9h. (near Toyooka), 11h. (near La Paz and Suore), 12h. (Ksara), 13h. (Irkutsk), 14h. (near La Paz and Suore), 16h. (Ekaterinburg), 22h. (Ksara).

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Dec. 5d. 17h. 49m. 30s. Epicentre 68°0S. 90°0W.

A = -000, B = -375, C = -927; D = -1000, E = -000;
G = -000, H = +927, K = -375.

Very doubtful.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	37.7	45	—	—	13 40	+ 6	17.1	—
Sucre	51.4	30	e 9 7	- 9	16 33	- 3	26.1	36.0
La Paz	53.3	26	9 36	+ 8	i 17 1	+ 1	27.1	31.8
Wellington	54.1	247	—	—	—	—	e 40.5	—
Riverview	68.6	232	—	—	—	—	e 41.6	51.7
Ottawa	113.9	11	—	—	—	—	e 54.5	—
San Fernando	E. 121.2	69	—	—	—	—	—	61.0
Kodakanal	121.7	165	54 18	?L	—	—	(54.3)	—
Rio Tinto	122.3	68	46 30?	?L	—	—	(46.5)	54.5
Bombay	129.8	158	—	—	—	—	e 53.5	—
Phu-Lien	N. 131.7	200	—	—	—	—	60.5	—
Hong Kong	132.1	210	—	—	—	—	—	73.0
Florence	E. 134.0	80	e 19 30	[+ 2]	—	—	—	—
Kew	136.4	64	—	—	—	—	e 58.5	—
Strasbourg	136.7	73	—	—	—	—	(58.5)	—
Uccle	137.4	68	—	—	—	—	e 54.5	—
De Bilt	138.8	68	—	—	—	—	e 59.5	66.2
Copenhagen	144.2	70	—	—	—	—	58.5	—
Tifis	N. 144.5	113	e 20 48	[+60]	—	—	e 60.3	73.7
Baku	145.0	120	e 20 19	[+31]	e 30 16	?Z	e 48.5	71.9
Makeyevka	147.5	98	—	—	—	—	75.5	—
Tashkent	151.1	147	i 19 21	[-36]	—	—	e 54.5	73.6
Kucino	153.6	91	—	—	—	—	e 65.0	—
Pulkovo	153.6	78	—	—	—	—	e 68.5	—
Irkutsk	* 162.9	211	i 20 4	[- 6]	i 23 54	?PR ₁	78.4	—

Additional readings and notes: Sucre PR₁ = +11m.25s., SR₁ = +19m.49s., SR₂ = +22m.4s.; T₁ = 17h.49m.15s. Riverview MN = +50.6m. San Fernando MN = +56.5m. Strasbourg reading has been diminished by 1h. Baku MN = +65.8m., MZ = +67.5m. Tashkent i = +21m.22s. and +22m.33s., e = +21m.50s., +31m.30s., and +43m.30s.? = SR₁ + 25s., MN = +70.4m., MZ = +74.3m.

Dec. 5d. Readings also at 1h. (La Paz and La Plata), 7h. (Tifis), 10h. (Wellington), 15h. (near Nagasaki), 16h. (Florence), 17h. (near Nagasaki), 18h. (Sucre), 19h. (Kucino, Merida, and La Paz), 20h. (Suva).

Dec. 6d. Readings at 19h. (near Nagasaki), 22h. (Nagoya).

Dec. 7d. 9h. 33m. 30s. Epicentre 37°0N. 141°0E. (as on 1924 Jan. 15d.).

A = -621, B = +503, C = +602; D = +629, E = +777;
G = -468, H = +379, K = -799.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E. 2.1	2	0 33	0	1 0	+ 2	—	—
Nagoya	3.8	242	e 0 56	- 3	(1 36)	- 8	1.6	1.8
Osaka	5.1	245	2 1	+42	—	—	2.9	3.3
Kobe	5.3	246	1 33	+11	—	—	2.6	3.0
Sumoto	5.6	244	e 2 0	+33	—	—	2.7	—
Irkutsk	29.8	313	—	—	—	—	17.7	—
Tashkent	54.2	298	—	—	—	—	e 29.5	33.5
Ekaterinburg	54.8	319	—	—	—	—	28.0	—

Additional readings: Nagoya S = +1m.14s., MN = +2.1m. Osaka MN = +3.2m. Kobe MN = +2.9m.

Dec. 7d. Readings also at 1h. (near Toyooka), 5h. (Wellington), 7h. (La Paz), 8h. (near Sumoto), 11h. (La Paz), 14h. and 15h. (?) (Tifis), 16h. (near Sumoto and Toyooka), 17h. (near Toyooka), 20h. (near Irkutsk and near Tacubaya), 22h. (La Plata and Santiago).

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Dec. 8d. Readings at 0h. (Riverview and Tashkent), 3h. (Ekaterinburg, Tashkent, Tiflis, and near Irkutsk), 4h. (near Balboa Heights), 5h. (near Tacubaya), 6h. and 7h. (Tucson), 10h. (Irkutsk and Tashkent), 11h. (La Paz and Sucre), 12h. (La Paz and Tashkent), 15h. (La Paz, Stonyhurst, Moncalieri, near Neuchatel, and Zurich).

Dec. 9d. Readings at 0h. (near Sumoto (2)), 3h. (Kobe and La Paz), 8h. (Irkutsk and Tashkent), 15h. (Tashkent), 17h. (Stonyhurst), 21h. (Taihoku), 22h. (Makeyevka).

Dec. 10d. 2h. 44m. 27s. Epicentre 38°-0N. 138°-9E. (given in Bulletin of Earthquake Res. Inst. Tokyo Vol. VII, pt. 2).

$$A = -594, B = +518, C = +616; \quad D = +657, E = +754;$$

$$G = -464, H = +405, K = -788.$$

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	N.	2.1	56	0 32	- 1	0 58	0	—	—
	N.	2.1	56	0 33	0	0 59	+ 1	—	—
Nagoya		3.2	211	0 55	+ 5	—	—	1.7	1.7
Toyooka		4.1	235	0 59	- 5	—	—	1.9	1.9
Sumoto		4.9	228	e 1 4	-12	(e 1 57)	-17	e 2.0	2.1

Dec. 10d. 18h. 28m. 58s. Epicentre 44°-6N. 9°-5E. (as on 1927 Oct. 30d.).

$$A = +702, B = +118, C = +702.$$

		Δ	Az.	P.	O-C.	S.	O-C.	M.
		°	°	m. s.	s.	m. s.	s.	m.
Moncalieri	Z.	1.3	287	0 29	+ 9	0 39	+ 3	—
Florence		1.5	123	e 0 22	- 1	—	—	1.0
Zurich		2.8	347	e 0 43	- 1	i 1 22	+ 5	—
Neuchatel		3.0	324	(e 0 48)	+ 1	e 1 24	+ 1	—

Zurich gives also $i = +1m.19s.$ Neuchatel P has been increased by 5m.

Dec. 10d. 19h. 48m. 24s. Epicentre 42°-0N. 139°-5E. (as on 1926 Oct. 19d.).

$$A = -565, B = +483, C = +669; \quad D = +649, E = +760;$$

$$G = -509, H = +435, K = -743.$$

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	3.1	157	0 56	+ 7	1 30	+ 4	—	—
	N.	3.1	157	0 59	+10	1 31	+ 5	—	—
Nagoya		7.1	197	e 2 19	+31	—	—	—	—
Irkutsk		25.7	306	—	—	e 8 58	-78	e 13.2	—
Ekaterinburg		50.3	316	i 9 7	- 2	1 16 17	- 6	e 25.6	—
Tashkent		50.9	295	i 9 12	0	1 16 27	- 3	e 25.4	29.2
Pulkovo		62.9	328	e 10 34	+ 3	1 18 58	- 2	e 29.6	—

Additional readings: Irkutsk $e = +17m.11s.$, L = +19.9m.; the readings entered as eS and eL are given as simple e's. Tashkent $i = +9m.42s.$

Dec. 10d. Readings also at 0h. (Moncalieri), 3h. (Tiflis), 4h. (Phu-Lien and Tashkent), 7h. (Tiflis), 12h. (near Tacubaya), 15h. (Tashkent), 19h. (Pulkovo, near Kobe, and Sumoto), 20h. (Port au Prince, Tiflis, and near Toyooka (2)), 21h. (Tiflis, Zagreb, Port au Prince, La Paz, Sucre, and near St. Louis), 22h. (Baku and La Paz).

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Dec. 11d. 15h. 33m. 12s. Epicentre 27°-08. 172°-0W. (as on 1918 Jan. 13d.).

A = -882, B = -124, C = -454; D = -139, E = +990;
G = +450, H = +063, K = -391.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	E.	12.6	313	e 3 36	+29	1 6 18	+44	e 7.0	10.4
	N.	12.6	313	e 2 54	-13	1 5 24	-10	e 6.5	—
Apia		13.2	0	—	—	—	—	6.9	10.6
Wellington	N.	17.9	214	—	—	—	—	e 6.7	10.0
Riverview		32.3	248	(e 6 36)	-15	e 6 36	?P	10.9	16.1
Sydney		32.3	248	—	—	—	—	13.9	15.3
Zi-ka-wei	Z.	86.1	308	e 12 21	-33	—	—	—	—
Victoria	E.	87.1	30	23 38	?S	(23 38)	- 4	45.2	48.6
La Paz		94.3	111	—	—	—	—	51.8	61.2
Sucre		95.2	115	23 43	?[S]	(23 43)	[-15]	52.8	57.3
St. Louis	N.	100.6	51	e 29 48	?	—	—	e 56.8	66.8
Chicago	E.	103.8	50	—	—	—	—	e 65.4	69.2
Irkutsk		107.4	320	—	—	(e 25 48?)	[+49]	27.6	—
Toronto	E.	110.0	50	—	—	—	—	e 58.2	—
Ottawa		113.0	49	—	—	e 29 48?	?PS	66.8	—
Tashkent		128.4	304	1 17 44	[-91]	—	—	e 56.8	82.4
Ekaterinburg		132.5	325	1 22 37	-?	—	—	58.8	—
Pulkovo		143.9	341	e 19 20	[-27]	—	—	71.8	87.7
Kucino		144.1	332	e 24 0	?	—	—	e 67.7	—
Tiflis	E.	146.6	307	e 19 24	[-27]	e 29 31	?Z	e 77.9	101.3
	N.	146.6	307	e 19 28	[-23]	e 29 45	?Z	e 78.8	101.6
Makeyevka		148.6	321	—	—	—	—	e 75.8	90.8
Dyce		148.9	12	—	—	—	—	—	105.2
Copenhagen		151.1	355	—	—	e 38 42	?	74.8	—
Oxford		154.3	13	—	—	—	—	—	103.8
Kew	Z.	154.8	13	—	—	—	—	e 86.8	—
De Bilt		154.9	2	—	—	—	—	e 85.8	—
Paris		157.8	10	—	—	e 88 48?	?L	108.8	—
Strasbourg		158.4	0	—	—	—	—	86.8	—
Toledo	N.W.	163.7	35	—	—	—	—	e 92.3	—
San Fernando	E.	164.7	48	—	—	—	—	—	96.3

Additional readings: Apia e=15h.31m.46s. Wellington ME=+9.7m.
Riverview MN=+15.8m. Sydney P=15h.31m.0s. St. Louis eN=+38m.48s.?
+38m.48s.? and +46m.48s.? Chicago eN=+48m.36s., eE?=+58m.11s.,
eE=+61m.13s., eLN=+58.4m. Irkutsk readings are both given as L.
Ottawa e=+35m.48s.? =SR₁+28s., and +52m.48s.? Tashkent e=
+18m.50s.=[P]-24s., +26m.30s.=[S]-23s., +29m.48s.=S-2s.,
+30m.52s. and +42m.48s.?, MN=+83.2m. Ekaterinburg e=
+31m.15s., +38m.26s., and +42m.51s. Kucino e=+29m.36s.,
+32m.48s., and +40m.54s. Tiflis eZ=+19m.22s. Makeyevka MN=
+112.4m. Copenhagen eE=+43m.0s.=SR₁-5s. San Fernando
MN=+95.8m.

Dec. 11d. 15h. 49m. 12s. Epicentre 45°-0N. 7°-2E. (near Turin).

A = +702, B = +089, C = +707; D = +125, E = -992;
G = +702, H = +089, K = -707.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Moncalleri		0.3	90	0 5	0	0 10	+ 2	—	0.5
Neuchatel		2.0	355	1 0 33	+ 2	1 1 0	+ 5	—	—
Besaçon		2.4	339	0 40	+ 3	1 1 15	+ 9	—	—
Zurich		2.6	14	10 45	+ 4	1 1 18	+ 6	—	—
Puy de Dôme		3.1	285	e 1 6	+17	—	—	—	1.7
Florence		3.1	112	e 0 58	+ 9	—	—	—	2.3
Ravensburg		3.3	29	1 25	?	1 35	+ 4	1.7	—
Strasbourg		3.6	6	1 3	+ 7	1 55	+16	—	—
Innsbruck		3.7	50	e 1 32	?S	(e 1 32)	-10	1.7	—
Paris		5.0	322	e 1 19	+ 2	e 2 41	+24	3.1	—
Rocca di Papa		5.1	128	e 3 24	?L	—	—	(e 3.4)	4.0
Uccle		6.2	343	e 2 8	+33	—	—	e 3.2	—

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.
Zagreb	6.2	79	—	—	e 2 53	+ 4	e 3.4	—
Jena	E. 6.6	19	e 2 4	+23	e 2 58	— 2	e 3.5	3.6
Vienna	Z. 7.1	59	e 3 39	?L	—	—	(e 3.6)	—
De Bilt	7.2	350	—	—	—	—	e 3.8	—
Almeria	11.0	224	e 3 35	+51	—	—	—	6.0
Makeyevka	21.3	71	e 4 29	-28	(e 7 48?)	-62	e 7.8	—

Additional readings: Neuchatel iP = +36s. Strasbourg P = +1m.17s.,
 SR₁ = +2m.11s., SR₂ = +2m.17s. Innsbruck i = +2m.18s. Zagreb
 e = +4m.0s. Jena iE = +2m.7s., +2m.10s., +2m.16s., +2m.19s., and
 +2m.32s. Vienna iZ = +4m.27s. Makeyevka e = +2m.59s.

Dec. 11d. 17h. 25m. 30s. Epicentre 1°0S. 124°0E. (as on 1924 March 7d.).

A = -559, B = +829, C = -017; D = +829, E = +559;
 G = +010, H = -015, K = -1000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	5.0	122	10 53	-24	1 36	-41	—	—
Manila	15.9	349	13 57	+ 6	—	—	i 7.5	7.6
Malabar	17.5	249	14 15	+ 4	—	—	11.5	—
Batavia	17.9	253	14 17	+ 1	—	—	15.5	—
Hong Kong	25.2	338	5 34	- 6	10 0	- 7	12.3	13.1
Phu-Lien	27.6	323	e 5 58	- 6	(11 30?)	+38	11.5	—
Perth	31.9	192	e 5 30	-76	i 12 30	+23	—	—
Zi-ka-wei	32.3	356	16 36	-15	e 12 28	+15	—	19.2
Adelaide	36.6	160	i 7 44	+17	i 13 17	- 1	15.9	20.5
Osaka	37.2	15	7 29	- 3	(13 3)	-24	13.0	14.4
Riverview	41.6	145	i 7 35	-33	i 13 55	-34	e 20.1	27.6
Sydney	41.6	145	(8 36)	+28	8 36	?P	21.4	22.6
Kodakanal	47.7	285	15 42	?S	(15 42)	- 8	31.8	33.3
Hyderabad	48.5	295	8 50	- 7	15 50	-10	25.7	35.0
Bombay	54.0	295	9 43	+10	17 15	+ 6	26.6	33.6
Simla	E. 54.8	310	—	—	e 17 24	+ 5	—	—
Irkutsk	55.8	346	e 9 41	- 4	17 21	-10	27.1	35.7
Tashkent	65.0	319	i 10 46	+ 1	19 34	+ 9	36.5	45.3
Ekaterinburg	76.6	330	i 11 56	- 3	i 21 41	- 3	36.5	42.8
Baku	78.6	312	—	—	i 22 12	+ 5	44.5	51.2
Tiflis	E. 82.6	313	12 28	- 6	i 22 51	- 2	e 46.5	54.4
	N. 82.6	313	12 29	- 5	22 52	- 1	e 43.5	47.6
	Z. 82.6	313	12 28	- 6	22 50	- 3	e 46.5	53.6
Makeyevka	88.1	319	—	—	i 23 43	-10	34.5	60.0
Kucino	88.6	326	—	—	i 23 52	- 7	45.8	52.9
Ksara	N. 89.0	305	—	—	23 47	-16	—	—
Pulkovo	92.7	330	—	—	i 25 36	PS	49.5	62.0
Copenhagen	E. 102.8	328	—	—	e 24 50	[+13]	51.5	68.4
Prague	103.2	322	—	—	e 34 30?	?	e 53.5	62.5
Cheb	E. 104.4	322	—	—	e 24 48	[+ 3]	e 56.5	62.5
Victoria	E. 105.6	40	—	—	—	—	50.7	56.2
De Bilt	E. 108.1	325	—	—	—	—	e 51.5	65.8
Uccle	109.0	324	—	—	—	—	e 50.5	—
Dyce	109.5	332	—	—	—	—	55.4	65.0
Oxford	111.8	327	—	—	—	—	—	67.5
St. Louis	E. 131.1	35	e 23 54	? ?	—	—	—	—
Ottawa	132.3	17	e 22 30?	? ?	—	—	74.5	—
Sucre	158.0	156	20 19	[+13]	—	—	81.5	101.8
La Paz	158.8	146	e 20 14	[+ 7]	e 29 40	? ?	43.5	—

Additional readings and note: Manila MN = +8.0m. Batavia iZ = +4m.14s.
 Hong Kong ? = +11m.53s. Perth readings have been diminished by 1h.
 Adelaide iPR₁ = +8m.56s. Osaka MN = +15.4m. Riverview iPR₁ =
 +9m.7s. and +9m.16s. MN = +22.6m.; T₁ = 17h.24m.52s. Sydney
 SR₁ = +13m.12s. Irkutsk iP = +9m.46s., MZ = +35.8m.; epicentre
 1°41'S. 121°26'E. Tashkent i = +10m.51s. and +11m.29s., IS =
 +19m.36s., eSR₁ = +24m.12s., eSR₂ = +24m.18s., MZ = +38.0m., MN =
 +47.0m. Ekaterinburg i = +21m.46s., IS, P, S = +21m.56s., IPS =
 +22m.36s., eSR₁ = +30m.17s. Baku MN = +48.6m. Tiflis PR₁Z₁ =
 +16m.1s., PR₂E₁ = +18m.3s. Makeyevka e = +23m.22s. and +25m.53s.,
 MN = +55.4m. Kucino e = +23m.16s. and +25m.56s., i = +25m.41s.,
 MN = +55.8m., MZ = +56.1m. Pulkovo MZ = +57.3m. Copenhagen
 eEZ = +27m.18s. = PS - 18s., eN = +32m.30s.?, MN = +56.3m. De Bilt
 eLN = +53.5m., MN = +67.3m., MZ = +76.3m.

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Dec. 11d. Readings also at 0h. (Tifis), 2h. (near Toyooka), 3h. (Tifis and near Malabar), 4h. (Bombay, La Plata, and near Santiago), 7h. (near Toyooka), 10h. (near Tashkent), 13h. (Tifis, near Hukuoka, and Nagasaki), 14h. (Florence, Neuchatel, Zurich, and Zagreb), 15h. (Fordham), 16h. (near Moncalieri, Neuchatel, and Zurich), 18h. (near La Paz and Sucre), 19h. (Taihoku), 20h. (near Balboa Heights).

Dec. 12d. 13h. 21m. 15s. Epicentre 27°-0S. 172°-0W. (as on 11d.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	E.	12.6	313	13 15	+ 8	15 39	+ 5	16.6	7.6
	N.	12.6	313	13 9	+ 2	15 21	-13	—	6.7
Wellington		17.9	214	—	—	—	—	e 11.7	—
Sydney		32.3	248	12 9	?S	(12 9)	- 4	17.8	20.2
Ottawa	N.	113.0	49	—	—	—	—	59.8	—
Tashkent		128.4	304	e 21 24	?PR ₁	1 30 34	?	—	78.4
Ekaterinburg		132.5	325	—	—	—	—	55.8	—
Tifis	E.	146.6	307	e 19 19	[-32]	e 23 57	?PR ₁	e 74.8	101.2
	N.	146.6	307	e 19 20	[-31]	e 36 55	?	e 77.8	82.9
Kew	Z.	154.8	13	—	—	—	—	e 78.8	—
De Bilt		154.9	2	—	—	—	—	e 78.8	—
Ksara	N.	155.1	293	e 20 38	[+36]	—	—	—	—

Additional readings : Tashkent eSR₁ = +33m.45s.? Tifis eE = +40m.41s.

Dec. 12d. 18h. 23m. 42s. Epicentre 44°-6N. 7°-7E. (as on 1927 June 21d.).

A = +.706, B = +.095, C = +.702.

		Δ	Az.	P.	O-C.	S.	O-C.
		°	°	m. s.	s.	m. s.	s.
Moncalieri	Z.	0.4	0	1 14	+ 8	0 18	+ 7
Neuchatel		2.5	347	e 0 36	- 3	e 1 3	- 6
Zurich		2.9	13	e 0 46	+ 1	1 1 21	+ 1

Zurich gives also iP = +50s.

Dec. 12d. 18h. 53m. 15s. Epicentre 27°-0S. 172°-0W. (as at 13h.).

A = -.882, B = -.124, C = -.454 ; D = -.139, E = +.990 ;
G = +.450, H = +.063, K = -.891.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Suva		12.6	313	12 51	-16	15 51	+17	—	11.4
Apia		13.2	0	—	—	(5 56)	+ 7	5.9	8.6
Wellington	E.	17.9	214	—	—	15 57	-101	i 8.5	9.6
	N.	17.9	214	—	—	15 48	-110	i 9.0	9.2
Riverview		32.3	248	—	—	(e 12 27)	+14	e 12.4	16.8
Sydney		32.3	248	5 3	?	—	—	14.0	15.4
Adelaide		42.7	247	—	—	—	—	e 17.9	25.4
Irkutsk		107.4	320	—	—	(e 27 3)	- 2	57.2	—
Toronto	E.	110.0	50	—	—	—	—	e 52.0	—
Ottawa	E.	113.0	49	—	—	—	—	e 58.8	—
Tashkent		128.4	304	20 5	?	e 29 59	+ 9	e 64.8	72.6
Ekaterinburg		132.5	325	—	—	e 31 5	?	59.8	—
Baku		143.1	303	—	—	—	—	e 66.8	89.1
Pulkovo		143.9	341	—	—	—	—	e 80.8	—
Tifis	E.	146.6	307	e 22 50	?PR ₁	e 29 0	?	e 71.8	94.5
	N.	146.6	307	e 18 57	[-54]	—	?	e 67.4	93.4
	Z.	146.6	307	e 18 41	[-70]	e 31 22	?	e 84.8	—
Makeyevka		148.6	321	—	—	—	—	105.8	—
Copenhagen		151.1	355	—	—	—	—	88.6	—
Oxford		154.3	13	—	—	—	—	—	106.8
Kew		154.8	13	e 19 45?	[-17]	—	—	86.8	—
De Bilt		154.9	2	—	—	—	—	e 87.8	—
Uccle		156.0	6	—	—	—	—	—	92.8
Paris		157.8	10	—	—	—	—	—	90.8
Strasbourg		158.4	0	—	—	—	—	(e 82.8)	—
Granada		165.9	41	23 39	?	—	—	e 99.8	104.8

For Notes see next page.

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NOTES TO DEC. 12d. 18h. 53m. 15s.

Additional readings and notes: Suva iSE = +6m.21s., T₁E = 18h.51m. 42s., T₁N = 18h.52m.18s. Riverview e = +9m.3s., MN = 17.9m. Sydney readings have been increased by 1h. Adelaide e = +12m.20s., MN = +21.4m. Irkutsk gives both readings as L. Ottawa eN = +51m.27s. Tashkent ePS = +31m.15s. Baku MN = +96.0m. Strasbourg reading has been increased by 1h. Granada i = +24m.21s.

Dec. 12d. Readings also at 0h. (Sucre), 1h. and 2h. (Edinburgh), 3h. (Phu-Lien), 6h. (Amboina, Suva, and La Paz), 7h. (Makeyevka, La Paz, and St. Louis), 11h. (Tifis (2)), 13h. (Suva), 15h. (San Fernando), 16h. (La Paz), 17h. (Fordham and La Paz), 18h. (Toronto), 20h. (near Helwan and Ksara).

Dec. 13d. Readings at 0h. (De Bilt, Granada, Strasbourg, Uccle, Zagreb, Tifis, and La Paz), 1h. (Baku, Ekaterinburg, Kew, Tashkent, and Wellington), 2h. (Baku, Tashkent, Tifis (2), and near Santiago), 4h. (Tifis), 5h. (Tifis, Zagreb, near Helwan, Ksara, and near Toyooka), 6h. (Baku and La Paz), 8h. (near Ksara), 11h. (near Florence), 14h. (near Amboina), 17h. (Ksara), 19h. (Baku, Ekaterinburg, Irkutsk, and Tashkent).

Dec. 14d. 7h. 50m. 18s. Epicentre 24°·7N. 63°·0E.

$$A = +.412, B = +.809, C = +.418; \quad D = +.891, E = -.454; \\ G = +.190, H = +.372, K = -.908.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Tashkent	17.4	16	i 4 10	0	i 7 33	+ 6	9.4	12.0
Baku	19.1	328	e 4 50	+20	e 8 5	+ 1	e 12.7	16.1
Tifis	E. 22.7	323	e 5 12	- 1	e 9 13	- 6	—	—
	N. 22.7	323	e 5 13	0	e 9 14	- 5	—	—
Ksara	N. 25.3	297	e 5 31	-10	5 51	?	6.2	—
Ekaterinburg	32.1	358	—	—	e 11 4	-66	18.7	—

Additional readings: Tashkent i = +4m.20s., MZ = +11.9m. Tifis eZ? = +9m.18s.

Dec. 14d. Readings also at 9h. (Manila), 12h. (near La Paz and Sucre), 16h. (near Tashkent), 17h. (Baku, Ekaterinburg, Irkutsk, and near Tashkent), 19h. (Baku, Ekaterinburg, Tashkent, and Tifis), 21h. (Baku and near Tashkent).

Dec. 15d. 16h. 11m. 50s. Epicentre 3°·0S. 138°·0E. (as on 1923 Sept. 16d.).

$$A = -.742, B = +.668, C = -.052; \quad D = +.669, E = +.743; \\ G = +.039, H = -.035, K = -.999.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Amboina	9.8	266	i 2 43	+16	—	—	7.2	—
Manila	24.4	317	e 5 34	+ 2	(19 57)	+ 5	i 10.0	—
Adelaide	32.0	179	e 6 39	- 8	e 12 19	+11	16.2	24.7
Riverview	33.2	160	—	—	e 12 22	- 5	e 20.3	23.2
Sydney	33.2	160	12 40	?	(12 40)	+13	18.9	20.5
Perth	35.7	214	11 10	?	17 55	?L	23.2	—
Zi-ka-wei	Z. 37.7	338	e 7 13	-23	—	—	16.2	—
Phu-Lien	38.9	310	e 7 36	- 9	e 13 30	-21	16.2	—
Wellington	50.6	144	—	—	—	—	e 28.2	—
Irkutsk	62.2	339	10 26	0	18 51	0	29.4	—
Tashkent	76.2	315	i 11 58	+ 2	i 21 42	+ 3	e 34.2	47.2
Ekaterinburg	85.6	328	i 11 47	- 4	22 16	-10	37.2	45.0
Baku	90.5	311	e 13 14	- 5	1 24 16	- 3	45.7	63.4
Tifis	E. 94.4	313	e 13 37	- 3	e 26 41	?PS	e 57.6	63.2
	N. 94.4	313	e 13 39	- 1	—	—	e 54.2	58.6
	Z. 94.4	313	e 13 37	- 3	e 26 56	?PS	e 58.2	62.6

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.
Victoria	E. 98-0	41	—	—	—	—	47.8	53.4
Kucino	98-1	327	—	—	e 27 46	?	e 58-9	60-5
Pulkovo	101-4	331	e 14	8 - 9	e 27 37	?PS	50-2	65-5
Budapest	111-4	320	—	—	e 24 10?	?PR ₂	—	—
Copenhagen	111-8	330	—	—	e 25 10?	[- 7]	e 56-2	—
De Bilt	117-3	330	—	—	—	—	e 59-2	—
Strasbourg	117-8	325	—	—	—	—	e 72-2	—
La Paz	147-7	128	20	0 [+ 8]	—	—	—	—
Sucre	148-3	133	20	5 [+12]	—	—	—	—

Additional readings: Adelaide MN = +21.1m. Riverview e = +15m.28s.,
 iS = +18m.14s., MN = +21.8m. Tashkent i = +12m.22s., +12m.30s.,
 and +21m.52s., iPR₂ = +14m.46s., eSR₂ = +29m.52s., MN = +48.58s.,
 MZ = +53.4m. Ekaterinburg e = +15m.7s. Baku ePR₂ = +16m.48s.,
 MN = +60.5m. Tiflis eZ? = +17m.19s., eE = +17m.20s., eN = +17m.27s.,
 Kucino e = +40m.4s. = SR₂ + 27s. Pulkovo e = +20m.7s., i(P) =
 +23m.36s., e = +31m.32s., MZ = +63.5m., MN = +66.2m. Copenhagen
 eLN = +55.2m.

Dec. 15d. Readings also at 0h. (Balboa Heights), 1h. (near Granada), 3h. (La Paz), 4h. (near Nagasaki), 8h. (Tashkent), 12h. (La Paz and near Sucre), 13h. (La Paz), 14h. (Florence, Rocca di Papa, Vienna, and Zagreb), 16h. (De Bilt), 21h. (Tashkent and near Toyooka), 23h. (La Paz).

Dec. 16d. 10h. 44m. 40s. Epicentre 48°3N. 9°0E.

A = +.657, B = +.104, C = +.747; D = +.156, E = -.988;
 G = +.737, H = +.117, K = -.665.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Hohenheim	0-5	19	10	4 - 4	10	10	—	—
Ravensburg	0-6	141	0	8 - 1	0	16	—	0-2
Strasbourg	0-9	289	10	14	0	10 25	0-4	—
Zurich	1-0	197	e 0	14 - 1	10	25	—	—
Neuchatel	1-9	227	10	31 + 2	10	55	—	—
Besançon	2-3	243	e 0	43 + 7	1	13	—	—
Cheb	2-8	51	e 0	32 - 12	—	—	—	—
Jena	E. 3-0	32	e 0	56 + 11	11	23	e 1-6	1-8
Uccle	3-9	312	e 2	2 ?L	—	—	(e 2-0)	—
Vienna	Z. 4-9	88	—	—	—	—	e 2-5	—

Jena gives also iE = +1m.28s. Vienna reading is given for 11h.

Dec. 16d. 22h. 21m. 36s. Epicentre 1°0S. 124°0E. (as on Dec. 11d.).

A = -.559, B = +.829, C = -.017; D = +.829, E = +.559;
 G = +.010, H = -.015, K = -1.000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Tashkent	65-0	319	10	44 - 1	e 19 19	- 6	e 31-1	38-5
Ekaterinburg	76-6	330	12	4 + 5	121 38	- 6	35-4	45-7
Baku	78-6	312	—	—	e 23 54	+107	e 48-6	—
Tiflis	82-6	313	12	30 - 4	—	—	e 43-6	—
Kucino	88-6	326	—	—	—	—	e 52-0	—
Pulkovo	92-7	330	—	—	—	—	e 52-4	—

Additional readings: Tashkent i = +10m.47s., MN = +39.0m., MZ = +39.3m.
 Tiflis eE = +30m.29s., eLN = +50.4m.

Dec. 16d. Readings also at 0h. (La Paz), 2h. (near Toyooka), 5h. (La Paz), 7h. (near Amboina), 10h. (Wellington and near Strasbourg), 12h. (near Amboina and near Toyooka), 15h. (Tiflis), 16h. (Wellington), 20h. (Kodaikanal), 21h. (near Port au Prince), 22h. (Tashkent).

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Dec. 17d. 7h. 26m. 15s. Epicentre 34°-0S, 57°-0E. (as on 1927 Nov. 8d.).

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.
Baku	74.7	355	i 11 48	+ 1	e 21 32	+10	e 35.8	43.8
Tashkent	76.1	10	e 11 56	0	i 21 25	-13	e 35.8	43.6
Tiflis	E. 76.5	351	11 59	+ 1	e 21 45	+ 2	e 36.8	44.8
	N. 76.5	351	11 58	0	e 21 45	+ 2	e 37.8	41.6
	Z. 76.5	351	11 58	0	—	—	e 40.2	44.7
Makeyevka	83.8	349	—	—	—	—	44.8	—
Ekaterinburg	90.9	3	i 13 10	-11	i 24 4	-19	42.8	85.3
San Fernando	E. 91.8	315	—	—	—	—	—	58.2
Pulkovo	96.3	348	—	—	e 32 43	18SR ₁	53.8	—

Additional readings and note: Baku MN = +47.8m., MZ = +48.3m. Tashkent e = +24m.21s., eSR₁ = +26m.45s., eSR₂ = +29m.45s.?, eSR₃ = +31m.21s., MN = +40.7m., MZ = +41.1m. Tiflis eE = +12m.12s., eN = +12m.14s. Makeyevka reading has been diminished by 1h. Ekaterinburg e = +23m.49s. and +29m.46s., ePS = +25m.17s. San Fernando MN = +58.4m.

Dec. 17d. Readings also at 2h. (near Toyooka), 3h. (near Tashkent), 5h. (near Toyooka), 9h. (Tiflis), 13h. (La Paz), 15h. (near Toyooka), 16h. (Port au Prince), 17h. (Nagoya and near Mizusawa), 18h. (Ekaterinburg and Irkutsk (2)), 19h. (Bagnères, Baku, Tashkent, and Tiflis), 20h. (San Fernando), 21h. (La Paz), 22h. (Ekaterinburg).

Dec. 18d. 19h. 49m. 15s. Epicentre 41°-5N, 132°-0E. (see note at end.).

A = -.501, B = +.557, C = +.663; D = +.743, E = +.669;
G = -.443, H = +.492, K = -.749.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Toyooka	6.4	158	e 1 48	+10	(3 4)	+9	3.1	3.2
Kobe	7.3	159	1 54	+ 3	(3 22)	+ 4	3.4	3.5
Osaka	7.3	157	1 56	+ 5	(3 24)	+ 6	3.4	4.3
Mizusawa	F. 7.4	106	(1 49)	- 3	1 49	?P	—	—
Nagoya	7.4	147	e 2 10	+18	(3 16)	- 5	3.3	3.6
Sumoto	7.5	162	e 1 46	- 8	(3 14)	-10	3.2	3.3
Hukuoka	8.0	190	2 6	+ 5	2 24	-73	—	—
Nagasaki	8.9	192	1 2 10	- 5	(3 57)	- 4	4.0	—
Irkutsk	21.6	310	e 6 42	+102	—	—	e 10.6	—

Additional readings: Kobe MN = +3.4m. Osaka MN = +4.6m. Mizusawa SN = +1m.48s. Irkutsk e = +7m.51s.

The epicentre 41°-0N, 133°-0E. is given for this shock in "The Geophysical Magazine," Tokio, 1929 Mar., with focus 500 km. deep. The observations of the eight Japanese stations available do not fit this origin and a depth of focus correction still further increases the discrepancy.

The following table gives the principle values of the observed distances in degrees, the T, being the mean of five available values.

	Δ observed	Δ_1 calculated for 41N.133E.	O-C ₁	Δ_2 calculated 41°-5N.132°-0N.	O-C ₂
Toyooka	6.9	5.6	+1.3	6.4	+0.5
Kobe	7.4	6.5	+0.9	7.2	+0.2
Osaka	7.5	6.6	+0.9	7.3	+0.2
Mizusawa	7.1	6.4	+0.7	7.4	-0.3
Nagoya	8.6	6.6	+2.0	7.4	+1.2
Sumoto	7.1	6.8	+0.3	7.5	-0.4
Hukuoka	8.3	7.7	+0.6	8.0	+0.3
Nagasaki	8.6	8.6	0.0	8.9	-0.3

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Dec. 18d. Readings also at 1h. and 2h. (near Nagasaki), 3h. (St. Louis, near Tacubaya, Merida, and Vera Cruz), 4h. (St. Louis, Ottawa, Tashkent (2), Rio Tinto, and near Nagasaki), 9h. (Baku, Ekaterinburg, Irkutsk, Pulkovo, Tashkent, and Tiflis), 11h. (Baku, Tashkent, and Tiflis), 13h. (near Toyooka), 16h. (near Reykjavik), 17h. (near Mizusawa), 18h. (Ekaterinburg, Irkutsk, and Pulkovo), 19h. (Irkutsk), 20h. (La Paz and Irkutsk).

Dec. 19d. Readings at 1h. (Baku, Mizusawa, and Tiflis), 5h. (Ekaterinburg and Manila), 6h. (Irkutsk, Wellington, near Apia, and near Manila), 7h. (Baku, Honolulu T.H., and Tashkent), 8h. (Apia, Ekaterinburg, Tashkent, and Pulkovo), 12h. (near Manila), 13h. (Makeyevka), 21h. (La Paz).

Dec. 20d. Readings at 2h. (Taihoku), 3h. (Berkeley), 6h. (Riverview), 8h. (Adelaide, Christchurch, Sydney, Ekaterinburg, and Tiflis), 9h. (Baku, Kucino, and San Fernando), 11h. (Rio Tinto), 13h. (Perth), 14h. (near Toyooka), 17h. (near Nagoya), 18h. (Wellington), 22h. (Ekaterinburg).

Dec. 21d. Readings at 2h. (Taihoku and near Sumoto), 4h. (Adelaide, Apia, Riverview, and Wellington), 5h. (Ekaterinburg), 6h. (San Fernando), 9h. (La Plata), 12h. (San Fernando), 15h. (near La Paz and Sucre), 20h. (Irkutsk), 21h. (near Toyooka).

Dec. 22d. 13h. 50m. 48s. Epicentre 11°-0S. 115°-0E.

$$A = -.415, B = +.890, C = -.191; \quad D = +.906, E = +.423; \\ G = +.081, H = -.173, K = -.982.$$

Very rough.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malabar	8.2	297	2 6	+ 2	13 33	- 9	—	—
Batavia	9.4	300	e 1 36	-46	14 11	- 2	15.0	—
Manila	26.3	13	e 5 57	+ 6	—	—	11.9	—
Adelaide	32.2	142	i 11 30	?S	(1 11 30)	-41	15.8?	18.0
Phu-Lien	32.9	346	6 12?	-44	—	—	—	—
Riverview	40.4	131	—	—	e 16 36	?SR ₁	e 20.6	23.7
Zi-ka-wei	42.7	10	e 8 16	0	e 14 42	- 2	—	—
Wellington	N. 60.2	133	—	—	—	—	e 31.2	—
Irkutsk	64.0	355	—	—	e 16 18	?	e 33.7	—
Ekaterinburg	81.2	334	e 12 25	- 1	e 23 50	?PS	37.2	—
Tiflis	E. 83.0	317	—	—	e 22 49	- 8	e 54.2	—
	N. 83.0	317	—	—	e 22 48	- 9	e 56.2	—
	Z. 83.0	317	e 12 54	+18	e 22 50	- 7	e 46.2	—
Kucino	91.9	327	—	—	—	—	e 50.2	—
La Paz	152.2	173	e 20 5	[+ 6]	—	—	—	—

Additional readings: Malabar 1P = +2m.10s. Adelaide S = +14m.48s.?,
 MN = +18.1m. Riverview MN = +21.8m. Ekaterinburg 1 =
 +13m.13s. Tiflis eZ? = +23m.41s. = PS -2s., eE? = +42m.34s.

Dec. 22d. Readings also at 1h. (La Paz), 8h. (Sucre), 11h. (near Toyooka), 12h. (La Paz), 13h. (Wellington), 15h. (near Amboina), 20h. (La Paz and Tiflis), 21h. (near Manila).

Dec. 23d. Readings at 4h. (Ekaterinburg, Irkutsk, and Tiflis), 8h. (Tiflis), 9h. (Tashkent, Suva, and near Santiago (2)), 10h. (Apia and Wellington), 11h. (Ekaterinburg and near Toyooka), 14h. (Irkutsk (2)), 16h. (La Paz), 19h. (Ekaterinburg).

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Dec. 24d. 4h. 28m. 52s. Epicentre 15°·6N. 97°·8W. (as on 1920 April 6d.).

A = -·131, B = -·954, C = +·269; D = -·991, E = +·136;
G = -·036, H = -·266, K = -·963.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Oaxaca	1·7	35	(0 28)	+ 2	(0 47)	- 1	(0·8)	(0·9)
Puebla	3·4	354	0 18	-35	—	—	1·0	1·3
Vera Cruz	3·9	24	(0 35)	-26	(1 21)	-26	(1·4)	(1·8)
Tacubaya	4·0	341	1 6	+ 4	—	—	2·1	2·2
Guadalajara	7·4	314	—	—	—	—	3·5	3·8
Merida	9·4	54	—	—	—	—	4·4	4·9
Tucson N.	20·4	327	e 4 48	+ 2	—	—	e 11·0	13·3
St. Louis N.	24·0	15	e 5 27	- 1	e 9 43	- 1	e 13·0	15·2
Ottawa	35·1	28	—	—	i 12 34	-23	e 17·6	—
Victoria E.	38·9	333	—	—	—	—	21·6	25·4
Ekaterinburg	105·4	12	—	—	—	—	58·1	—

Additional readings and notes: Oaxaca readings have been increased by 1m.
Vera Cruz readings have been increased by 2m. St. Louis IP = +5m.28s.,
PR₁ = +5m.57s.; eSE = +9m.45s., SR₁N = +10m.50s., SR₂N = +11m.11s.
Ottawa e = +22m.8s.?

Dec. 24d. Readings also at 4h. (near Amboina), 16h. (Tiflis), 18h. (Taihoku),
21h. (near Oaxaca, Puebla, Tacubaya (2), and Vera Cruz).

Dec. 25d. Readings at 3h. (Taihoku), 4h. (near Mizusawa), 5h. (near Vera Cruz),
6h. (near Bombay and near Calcutta), 12h. (near Tacubaya), 15h.
(Vienna), 16h. (Baku, Tiflis, and near Ksara), 22h. (Baku).

Dec. 26d. 15h. 6m. 14s. Epicentre 41°·8N. 12°·7E. (close to Rocca di Papa).

A = +·727, B = +·164, C = +·667; D = +·220, E = -·976;
G = +·650, H = +·147, K = -·745.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Rocca di Papa	0·1	—	i 0 0	- 2	—	—	—	0·0
Naples E.	1·5	129	e 0 27	+ 4	e 0 52	+10	—	1·5
Pompeli	1·7	128	0 31	+ 5	—	—	—	1·4
Florence	2·2	332	e 0 46	+12	—	—	—	1·8
Zagreb	4·6	30	e 1 15	+ 4	—	—	i 2·3	—
Vienna z.	6·9	21	—	—	—	—	e 4·0	—

Zagreb gives e = +1m.35s., i = +2m.25s., and +2m.31s., iNW = +2m.41s.,
i = +3m.6s.

Dec. 26d. Readings also at 0h. (near Oaxaca, Puebla, Tacubaya (2), and Vera
Cruz), 1h. (near Tacubaya), 3h. (Baku), 10h. (Riverview and Sydney),
12h. (Batavia), 14h. (La Paz, Sucre, La Plata, and near Nagasaki), 15h.
(near Rocca di Papa).

Dec. 27d. 20h. 31m. 45s. Epicentre 16°·5N. 89°·5W. (as on 1925 May 26d.).

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

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Merida	4·5	359	2 0	+ 0	—	—	3·3	3·8
Tacubaya	9·7	289	2 23	- 3	(4 24)	+ 3	4·4	5·2
St. Louis	22·2	358	1 5 5	- 2	1 9 17	+ 8	e 9·7	10·2
Cincinnati	23·0	10	—	—	—	—	e 15·2	17·2
Ekaterinburg	102·6	17	—	—	—	—	50·2	—
Tashkent	118·9	18	—	—	—	—	e 59·0	72·0

Additional readings: St. Louis iN = +5m.33s., +5m.40s. and +7m.37s.,
iEN = +8m.36s. Cincinnati eEN = +22s., +1m.41s., +2m.45s.,
+3m.45s., +4m.52s., and +5m.41s.

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Dec. 27d. 23h. 31m. 15s. Epicentre 15°-6N. 97°-8W. (as on 24d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Oaxaca	1.7	35	0 36	+10	—	—	1.2	1.4
Puebla	3.4	354	1 17	+24	—	—	2.0	2.3
Vera Cruz	3.9	24	(0 58)	— 3	—	—	(1.9)	(2.3)
Tacubaya	4.0	341	1 44	1S	(1 44)	- 6	2.4	2.6
Guadalajara	7.4	314	—	—	—	—	3.5	3.7
Tucson	E. 20.4	327	e 5 17	+31	—	—	11.1	11.4
	N. 20.4	327	e 5 18	+32	e 5 55	?	11.0	11.4
St. Louis	24.0	15	e 5 27	- 1	19 44	0	—	—
Chicago	N. 27.6	17	e 6 32	+28	e 11 25	+33	e 16.8	—
Toronto	32.1	26	—	—	e 12 34	+24	e 22.0	—
Ottawa	35.1	38	—	—	e 13 15	+18	e 22.8	—
Victoria	E. 38.9	333	—	—	—	—	21.6	22.6
Ekaterinburg	105.4	12	—	—	—	—	e 54.8	—
Baku	116.5	26	—	—	—	—	e 74.8	—
Tashkent	121.9	11	—	—	—	—	e 65.8	—

Vera Cruz readings have been diminished by 3m. Chicago gives also eE = +17m.10s. and +22m.21s.

Dec. 27d. Readings also at 2h. (Apia), 9h. (Baku, Tashkent (2), Almeria, and near Granada), 10h. (La Paz), 11h. (near Sumoto), 12h. (Baku, Ekaterinburg, and Tashkent), 13h. (near Amboina), 20h. (near Santiago), 22h. (La Paz), 23h. (near Tacubaya).

Dec. 28d. 8h. 54m. 45s. Epicentre 54°-0N. 161°-0E. (as on 1927 July 31d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E. 20.1	230	4 44	+ 2	—	—	12.1	—
Osaka	26.3	233	5 48	- 3	10 18	-10	16.4	—
Irkutsk	33.2	290	1 6 45	-13	12 16	-11	14.2	19.9
Zi-ka-wai	36.2	248	e 8 50	1PR ₁	e 16 2	1PR ₂	—	24.5
Victoria	E. 45.4	66	—	—	15 26?	+ 6	22.6	24.1
Hong Kong	47.2	247	15 57	1S	(15 57)	+13	25.6	31.2
Manila	50.3	234	e 8 58	-11	—	—	—	—
Phu-Lien	52.6	255	8 15?	?	—	—	—	—
Tashkent	55.7	300	i 10 4	+ 1	i 18 6	- 1	e 30.2	35.9
Pulkovo	59.6	335	10 7	- 2	18 6	-12	30.2	33.5
Kucino	60.8	328	e 10 15	- 3	e 18 24	- 9	28.4	33.4
Stmla	N. 61.9	286	—	—	—	—	e 36.4	—
Upsala	62.5	340	e 10 27	- 2	—	—	—	36.3
Konigsberg	E. 66.4	337	—	—	—	—	e 35.2	—
Makeyevka	67.2	324	10 58	- 1	e 19 51	- 1	32.2	37.0
Copenhagen	67.3	343	11 0	0	e 19 45	- 9	e 32.2	45.0
Chicago	N. 67.7	50	—	—	—	—	e 34.8	40.2
Baku	68.8	311	i 11 9	- 1	20 15	+ 3	34.2	40.1
St. Louis	69.1	54	i 11 27	+15	e 20 29	+14	e 32.8	36.8
Ottawa	69.5	40	—	—	e 20 15?	- 5	e 35.2	—
Toronto	69.6	42	—	—	e 25 30	1SR ₁	43.8	—
Hamburg	E. 69.8	342	i 11 16	0	—	—	e 36.2	43.2
Tiflis	E. 69.9	315	e 11 17	+ 1	20 24	- 1	36.2	40.2
	N. 69.9	315	e 11 17	+ 1	20 25	0	e 35.0	40.7
	Z. 69.9	315	i 11 18	+ 2	20 27	+ 2	e 37.4	45.8
De Bilt	72.0	346	11 29	- 1	e 20 43	- 7	e 35.2	42.8
Prague	72.2	339	—	—	e 30 15?	—	e 39.2	43.2
Cheb	72.7	340	—	—	e 20 15?	-43	e 35.2	40.2
Feldberg	73.3	344	—	—	—	—	—	56.0
Uccle	73.4	347	e 11 36	- 2	—	—	e 37.2	—
Kew	73.4	350	e 11 41	+ 3	—	—	e 39.2	—
Vienna	73.5	338	e 11 38	- 1	—	—	—	41.2
Bombay	73.8	281	11 42	+ 1	21 24	+12	40.0	41.7

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Graz	74.8	338	—	—	—	—	e 39.2	42.0
Strasbourg	75.0	344	11 45	- 4	—	—	35.2	—
Innsbruck	75.5	340	e 11 43	- 9	—	—	—	—
Paris	75.6	347	e 11 52	- 1	—	—	41.2	—
Zagreb	75.8	337	—	—	—	—	e 40.6	—
Kodaikanal	78.0	272	38 15	?L	—	—	(38.2)	—
Colombo	79.2	269	40 19	?L	—	—	(40.3)	46.9
Ksara	E. 80.3	318	12 21	0	—	—	—	—
Rio Tinto	87.6	350	35 15?	?L	—	—	(35.2)	56.2
Granada	87.9	349	i 12 51	-13	—	—	51.2	—

Additional readings: Mizusawa PN = +4m.45s. Irkutsk PR₁ = +7m.47s.
 PR₂ = +8m.7s., MZ = +20.9m.; epicentre 56°54'N. 158° 5'E. Hong Kong ? = +19m.44s. Tashkent i = +10m.17s., eSR₁ = +21m.45s., eSR₂ = +23m.33s., e = +28m.15s.?, MN = +32.4m. Pulkovo PR₁ = +12m.19s., SR₁ = +22m.45s., MN = +33.6m., MZ = +37.9m. Kucino PR₂ = +14m.9s., SR₁ = +22m.27s., MN = +37.5m. Makeyevka eSR₁ = +27m.25s., MN = +37.4m., MZ = +45.1m. Copenhagen ePE = +11m.15s., PR₁ = +13m.26s., eSR₁N = +24m.15s., eSR₂NZ = +27m.45s., eLN = +36.2m., MN = +38.6m. Chicago eE = +27m.58s. = SR₂ + 9s., and +34m.35s. Baku eSR₁ = +24m.59s., SR₂ = +27m.40s., MZ = +44.9m., MN = +47.3m. St. Louis iP₀PN = +12m.5s., iEN = +21m.4s. = [S] - 2s., eSR₁EN = +24m.55s. Ottawa eN = +25m.15s. = SR₁ - 28s. Tiflis eZ = +13m.51s., ePR₁E = +14m.18s., eZ = +15m.28s., PSE = +21m.4s., eN = +21m.19s., SR₂N = +28m.6s. De Bilt PR₁Z = +14m.8s. Vienna iPZ = +11m.41s., PR₁? = +14m.23s. Zagreb e = +35m.15s. ?

Dec. 28d. 14h. 33m. 24s. Epicentre 36°2'N., 143°0'E. (as on 1927 Aug. 29d.).

A = -644, B = +486, C = +591; D = +602, E = +799;
 G = -472, H = +355, K = -807.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	3.2	333	0 50	0	1 32	+ 4	—	—
Nagoya	5.0	260	e 1 9	- 8	(2 9)	- 8	2.2	2.8
Sumoto	6.8	257	e 1 48	+ 4	(3 10)	+ 5	3.2	3.3
Irkutsk	31.5	314	—	—	—	—	19.0	—
Tashkent	55.9	300	—	—	—	—	e 29.6	34.0
Ekaterinburg	56.4	321	—	—	—	—	27.6	—
Baku	69.5	307	—	—	—	—	e 41.6	43.8
Tiflis	Z. 72.1	310	—	—	—	—	e 38.6	46.3

Additional readings: Mizusawa SN = +1m.33s. Baku e = +37m.13s. and +38m.31s., MZ = +44.1m., MN = +44.2m. Tiflis eZ? = +40m.36s. ?, ME = +46.0m.

Dec. 28d. 18h. 20m. 18s. Epicentre 54°0'N. 161°0'E.

(as at 8h.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Ootomari	13.7	245	3 26	+ 4	—	—	6.4	9.6
Mizusawa	E. 20.1	230.	3 54	-48	9 6	+41	11.1	—
Nagoya	25.2	231	e 5 53	+13	(10 28)	+21	10.5	13.3
Toyooka	25.9	235	e 6 8	+21	(10 43)	+23	10.7	16.4
Osaka	26.3	233	6 35	+44	10 54	+26	14.8	15.4
Kobe	26.5	234	e 5 58	+ 5	10 55	+23	14.2	16.1
Sumoto	26.9	234	e 6 3	+ 6	11 5	+26	15.1	18.0
Hukuoka	29.7	239	7 59	+94	12 17	+48	15.2	20.4
Nagasaki	30.6	240	e 6 40	+ 6	11 53	+ 9	15.7	18.7

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	33-2	290	6 43	-15	12 2	-25		
Sitka	34-8	60	e 7 22	+11	e 12 35	-17	e 19-2	23-3
Zi-ka-wei	36-2	243	e 7 13	-6	13 14	+1		25-8
Taihoku	E. 41-1	241	14 33	9S	(14 33)	+11	24-8	27-8
Honolulu T.H.	E. 44-9	120	19 46	+74	i 15 22	+8	i 19-0	22-7
	N. 44-9	120	18 42	+10	i 15 6	-8	21-7	22-7
Victoria	E. 45-4	66	8 35	-1	(15 5)	-15	15-1	24-2
Hong Kong	47-2	247	8 45	-3	15 44	0	23-8	31-2
Manila	50-3	234	e 9 15	+6	i 17 17	+54	i 27-3	34-7
Ekaterinburg	51-7	318	19 9	-9	i 16 33	-7		
Phu-Lien	52-6	255	e 9 23	-1	e 17 9	+18	24-7	29-5
Berkeley	52-9	76	e 9 30	+5	e 17 19	+24	e 27-4	30-0
Lick	E. 53-6	76	e 9 38	+8	e 17 26	+22	e 30-9	
	N. 53-6	76	e 9 35	+5	e 17 23	+19	e 29-6	
Tashkent	58-7	300	i 10 0	-3	i 18 1	-6	e 21-7	43-1
Pulkovo	59-6	335	i 10 4	-5	i 18 16	-2	26-7	31-1
Helsingfors	E. 60-6	338	10 18	+2	i 18 32	+1	26-7	33-7
	N. 60-6	338	10 18	+2	i 18 35	+4	27-2	33-7
	Z. 60-6	338	i 10 17	+1				31-7
Kucino	60-8	328	10 17	-1	18 24	-9		45-3
Denver	61-0	62	e 10 52	+33	e 19 16	?PS	29-5	32-6
Calcutta	N. 61-9	272	10 35	+11			33-8	
Simla	E. 61-9	286	10 36	+12	18 48	+1	31-6	36-9
	N. 61-9	286	10 36	+12	18 54	+7	31-4	38-4
Dehra Dun	61-9	284	11 12	+48	18 24	-23	23-4	38-4
Upsala	62-5	340	10 24	-5	18 49	-6	e 30-7	36-4
Tucson	E. 63-4	73	e 10 44	+10	19 24	+18	28-4	34-7
	N. 63-4	73	e 10 39	+5	19 21	+15	26-0	29-3
Amboina	63-8	219	e 10 42	+5	i 19 36	+25	22-7	
Bergen	64-0	348	10 38	0	19 18	+5	e 29-7	
Konigsberg	66-4	337			i 18 56	-46	e 27-7	38-7
Copenhagen	67-3	343	10 57	-3	e 19 50	-4	e 28-7	39-6
Chicago	E. 67-7	50	11 5	+3	e 19 54	-4		
	N. 67-7	50	11 8	+6	i 20 2	+4	32-6	40-0
Dyce	67-9	352	10 44	-19	19 24	-37		
Baku	68-8	311	i 11 6	-4	i 20 20	+8		
Chihuahua	68-8	71	i 11 42	+32	21 18	+66	32-0	
Ann Arbor	69-0	47	e 11 24	+13	i 20 24	+10	i 34-0	37-2
St. Louis	69-1	54	i 11 22	+10	i 20 28	+13	e 31-4	34-4
Edinburgh	69-4	351	e 11 27	+14	20 21	+2	28-7	47-2
Ottawa	69-5	40	i 11 14	0	i 20 20	0	e 31-4	43-2
Toronto	69-6	42	i 11 17	+2	i 20 27	+6	i 36-0	40-4
Hamburg	69-8	342	i 11 13	-3	20 25	+1	e 32-7	41-4
Tiflis	E. 69-9	315	e 11 15	-1	i 20 29	+4	e 33-2	43-8
	N. 69-9	315	e 11 16	0	i 20 28	+3	e 33-2	44-6
	Z. 69-9	315	i 11 14	-2	i 20 27	+2	e 32-1	46-4
Lemberg	70-1	332	e 10 0	-78	e 28 18	?SR ₂	e 34-7	45-2
Potadam	70-4	340	i 11 22	+3	i 20 24	-7	e 34-6	40-4
Cincinnati	N. 71-2	49	i 11 26	+2	i 20 43	+3	e 34-1	39-4
Stonyhurst	71-3	350	e 11 25	0	20 42	0	31-7	45-7
Apia	71-7	153	i 11 48	+20	21 14	[-10]	30-4	43-7
Ithaca	71-8	42	i 11 35	+7	20 50	+2	32-7	
De Bilt	72-0	346	i 11 27	-3	20 44	-6	e 30-7	42-6
Jena	E. 72-0	341	e 11 25	-5	i 20 51	+1	e 34-7	41-2
	N. 72-0	341	e 11 25	-5	e 20 42	-8	e 34-7	42-4
	Z. 72-0	341	i 11 25	-5	e 20 48	-2	e 34-7	42-5
Prague	72-2	339	e 11 31	0	e 20 54	+2	e 32-7	40-2
Cheb	72-7	340	e 11 31	-3	e 20 59	+1	e 35-7	40-2
Oxford	73-2	350	i 11 37	0	i 21 17	+13	e 28-0	44-9
Feldberg	E. 73-3	344	e 11 27	-11	e 20 59	-7	e 36-3	42-3
Kew	73-4	350	e 11 38	0	i 21 7	0	31-3	44-2
Uccle	73-4	347	e 11 37	-6	21 7	0	32-7	43-6
Vienna	73-5	338	e 11 34	-5	21 1	-7	e 28-7	41-7
Budapest	73-5	335	e 17 42?	?PR ₂	21 6	-2	32-7	41-7
Suva	73-6	165	i 11 6	-34	i 21 12	+3	i 38-1	
Bombay	73-8	281	i 11 43	+2	21 13	+1	38-7	41-9
Harvard	E. 73-8	39	e 11 49	+8	i 21 15	+3	e 33-9	
	N. 73-8	39	i 11 45	+4	e 21 18	+6	i 37-0	47-0
Fordham	74-1	41	i 11 54	+11	i 20 27	-48	e 30-0	38-4
Hohenheim	74-5	342	i 11 42	-4	e 20 59	-21	e 35-7	41-9
Cheltenham	74-8	45					e 34-4	
Gras	74-8	338	e 11 44	-4	i 21 23	-1	32-7	42-5
Strasbourg	75-0	344	i 11 42	-7	e 21 21	-5	32-7	42-2
Batavia	75-2	288	i 11 52	+2	i 21 50	[-0]	34-2	46-2

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.
Ravensburg	75.4	342	e 11 42	- 9	e 21 30	0	e 36.2	43.1
Innsbruck	75.5	340	e 11 44	- 8	-	-	e 29.7	42.2
Belgrade	75.6	332	e 11 52	- 1	e 21 32	- 1	e 37.2	-
	75.6	332	e 11 49	- 4	e 21 32	- 1	e 30.5	49.3
Paris	75.6	347	i 11 49	- 4	e 21 30	- 3	33.7	45.7
Zagreb	75.8	337	e 11 53	- 1	e 21 36	+ 1	e 26.7	43.1
Zurich	76.0	341	e 11 52	- 3	i 21 36	- 1	-	-
Chur	76.3	342	e 11 53	- 4	21 40	- 1	-	-
Besançon	76.6	344	e 12 5	+ 6	e 21 30	- 14	30.7	42.7
Kodaikanal	78.0	272	12 0	- 7	-	-	38.6	57.2
Moncalieri	78.4	342	i 12 5	- 4	21 54	- 11	38.0	46.9
Puy de Dôme	78.6	346	-	-	-	-	e 37.7	-
Florence	78.9	340	12 8	- 4	22 20	+ 9	37.7	44.2
Colombo	79.2	269	12 17	+ 3	22 52	?PS	37.0	46.9
Tacubaya	80.0	72	12 14	- 5	22 38	+ 5	38.0	45.3
Ksara	80.3	318	12 20	- 1	22 27	0	38.3	-
Marseilles	80.5	343	e 12 13	- 9	e 22 9	- 20	e 38.7	47.5
Rocca di Papa	80.5	339	i 12 22	0	22 21	- 8	e 39.5	55.0
Bagneres	81.6	348	e 12 29	+ 1	e 23 32	- 10	e 38.7	47.4
Barcelona	82.9	345	12 28	- 7	e 23 19	?E	e 39.2	46.7
Tortosa	83.7	347	e 12 18	- 22	e 22 55	- 11	39.2	48.3
Toledo	85.3	350	i 12 41	- 9	e 22 52	[- 6]	e 36.6	50.2
Helwan	85.6	319	12 45	- 6	i 23 15	- 11	-	51.0
Alicante	86.3	347	10 48	?	e 22 47	[- 17]	e 39.7	-
Algiers	87.3	343	e 12 46	- 15	23 32	- 12	41.7	45.7
Rio Tinto	87.6	350.	13 42?	+ 39	-	-	-	50.7
Granada	87.9	349	i 12 55	- 9	23 35	- 16	43.4	52.3
Almeria	88.0	349	i 12 52	- 13	i 23 37	- 15	41.6	49.6
Riverview	88.3	189	e 13 8	+ 1	e 24 22	+ 27	e 42.0	49.7
Sydney	88.3	189	(13 18)	+ 11	(24 21)	+ 29	(45.7)	(48.7)
Malaga	88.4	350	12 46	- 21	23 14	[- 4]	30.7	55.3
San Fernando	88.9	350	13 5	- 5	i 23 38	[- 17]	47.8	54.2
Adelaide	91.0	199	i 13 19	- 2	i 23 44	[+ 10]	i 39.5	51.3
Perth	94.4	219	16 47	[- 38]	i 24 28	?E	45.4	-
Wellington	96.0	170	-	-	i 21 4	?	e 40.5	42.9
	96.0	170	(i 17 43)	[+ 12]	i 17 43	?[P]	e 38.6	50.5
Entebbe	111.4	304	e 18 28	[+ 2]	e 27 24	- 17	53.9	62.1
La Paz	126.7	65	e 19 19	[+ 9]	i 31 44	?	56.0	69.7
Sucre	130.4	64	e 19 23	[+ 4]	i 32 19	?	55.8	75.9
Pilar	141.2	74	23 36	?PR ₁	-	-	-	-
Rio de Janeiro	144.0	40	e 19 42	[- 5]	-	-	35.7	81.4
La Plata	146.9	72	19 48	[- 3]	-	-	64.1	-
Cape Town	147.0	293	19 58	[+ 5]	-	-	-	81.5

Additional readings: Ootomari MN = +10.6m. Nagoya MN = +13.8m.
 Osaka MN = +15.0m. Kobe MN = +17.8m. Sumoto MZ = +17.4m.
 MN = +17.7m. Nagasaki MN = +19.0m. MZ = +21.8m. Irkutsk
 PR₁ = +7m.41s., PR₂ = +8m.19s. Sitka eN? = +8m.30s., iSN =
 +15m.26s., eE = +17m.22s. Zi-ka-wel MN = +22.4m. Taihoku
 SE = +19m.42s. Honolulu T.H. ePR₁N = +10m.12s., ePR₂E =
 +10m.27s., iSR₁N? = +19m.2s. Victoria LN = +15m.25s. = S + 5s.,
 MN = +20.9m. Hong Kong S? = +15m.50s., MN = +29.4m. Manila
 PSE = +16m.53s., iSR₁E? = +21m.51s., MN = +33.7m. Ekaterinburg
 iPR₁ = +11m.11s., i = +16m.12s.: epicentre 55°7'N. 163°43'E. Phu
 Lien ePR₁ = +11m.31s., ePR₂? = +12m.56s. = PR₂ - 4s., eSR₁? = +20m.52s.
 and +23m.22s. = SR₂ + 12s., MN = +29.8m. Berkeley ePN = +9m.42s.,
 eN = +11m.51s. = SR₂ + 6s., eSZ = +17m.27s. = PS + 8s., eSR₁E? =
 +20m.41s., eSR₂Z? = +20m.51s., eSR₁N? = +21m.7s., eSR₂N? =
 +23m.13s. = SR₂ - 5s., eSR₁E? = +23m.15s. = SR₂ - 3s., eSR₂Z? = +24m.45s.,
 eSR₁E? = +25m.1s. Lick eE = +16m.50s., eSR₁E? = +21m.11s., eSR₂N?
 +23m.34s., eSR₁E? = +23m.26s. Pulkovo PR₁ = +12m.12s., PR₂ =
 +13m.40s., SR₁ = +21m.36s., MN = +32.3m., MZ = +37.7m. Helsingfors
 PR₁E = +12m.30s., PR₁N = +12m.31s., PR₂Z = +12m.32s., PR₂N =
 +13m.51s., PR₁EZ = +13m.55s., SR₁N = +23m.12s., Kucine PR₁ =
 +12m.40s., PR₂ = +14m.17s., SR₁ = +22m.36s., SR₂ = +26m.0s., MZ =
 +44.2m. Denver PR₁N = +13m.19s., PR₂N = +15m.18s., iSE =
 +19m.39s., iE = +19m.42s. = [S] - 20s., iSR₁ = +23m.21s., eSR₁E =
 +26m.7s., eSR₂N = +26m.15s., MN = +33.2m. Upsala PR₁ = +14m.19s.
 Tucson eSR₁N? = +22m.2s., eSR₁E = +23m.32s. Ambotna i =
 +10m.54s. Kongsberg iPR₁E = +13m.8s., PS = +19m.26s., PPS =
 +19m.49s., i = +20m.12s., +21m.24s., +22m.44s., +23m.0s., and
 +23m.24s., e = +20m.56s., Copenhagen ePE = +11m.0s., ePR₁EN =
 iPR₂Z = +13m.32s., PR₂ = +15m.25s., S = +19m.57s., eE = +20m.42s. =
 [S] - 9s., eN = +21m.31s. = E + 3s., eSR₁EZ = +24m.6s., iSR₂N = +24m.24s.,

Continued on next page.

SR₁ = +26m.42s. eLN = +31.7m., MN = +38.6m., MZ = +40.2m. Chicago
SR₁N = +24m.8s., eSR₁E = +24m.34s., SR₁N = +27m.40s. Ann Arbor
ePR₁ = +15m.0s., iSR₁ = +25m.12s., iSR₁ = +28m.30s., MN = +46.2m.;
T₀ = +18h.20m.36s. St. Louis iPCPEN = +12m.3s., iS = +20m.36s.,
PS = +20m.52s., S₀SEN = +21m.54s., SR₁EN = +25m.6s., SR₁EN =
+28m.15s., SR₁E = +29m.33s. Ottawa iSR₁ = +25m.23s., iSR₁ =
+28m.23s., iN = +33m.32s., iE = +33m.47s.; T₀ = 18h.20m.26s. Toronto
iPEN = +11m.20s., SR₁E = +25m.50s., SR₁E = +28m.32s., MN = +44.5m.;
T₀ = 18h.20m.25s. Hamburg PR₁ = +13m.42s., PR₁ = +15m.32s., SR₁
= +25m.6s., SR₁ = +28m.30s., MN = +40.2m., MZ = +47.7m. Tiflis iZ =
+11m.23s., ePR₁N = +13m.49s., PR₁Z = +13m.56s., PR₁Z = +15m.33s.,
eN = +15m.47s., eZ = +21m.29s. = [S] +18s., SR₁Z = +24m.59s., eZ =
+27m.14s., SR₁Z = +28m.33s. Potsdam iPR₁ = +14m.12s. Cincinnati
iPC₁PN = +12m.7s., iPR₁N = +14m.12s., iPR₁N = +15m.50s., iN = +16m.0s.,
iPR₁N = +16m.54s., iPSN = +21m.8s., iPPSN = +21m.26s., iN =
+21m.42s., iS₀SN = +22m.2s., iPPSN = +25m.50s., iPC₁SN =
+27m.0s., iSR₁N = +28m.50s., iSR₁N = +30m.1s., iN = +30m.56s. and
+31m.42s.; T₀ = 18h.20m.34s. Apia PR₁ = +15m.15s., L = +33.9m.;
T₀ = 18h.20m.30s. Ithaca e = +15m.53s., SR₁ = +25m.49s., SR₁ =
+28m.57s. De Bilt PR₁Z = +14m.6s., eLN = +34.7m., MN = +42.4m.,
MZ = +44.2m. Jena P = +11m.52s., ePR₁Z = +14m.27s., ePR₁N =
+15m.51s., ePR₁Z = +15m.58s., eSR₁ = +25m.16s. Prague e = +11m.10s.
PR₁ = +14m.12s., PR₁ = +16m.2s., PS = +21m.32s., SR₁ = +28m.30s.,
SR₁ = +29m.17s. Cheb eP = +11m.39s. Oxford PR₁ = +14m.37s.,
SR₁ = +26m.7s., MN = +44.6m. Feldberg MN = +42.1m. Kew
PR₁ = +14m.25s., PR₁Z = +16m.6s., FSEZ = +21m.40s., SR₁EN =
+26m.0s., LN = +33.7m. Uccle i = +11m.43s., +14m.26s. = PR₁ - 30s.,
and +16m.11s. = PR₁ - 27s., PR₁ = +14m.12s., MN = +42.6m. Vienna
iPZ = +11m.35s., iPE = +11m.45s., iPN = +11m.43s., PR₁ = +14m.27s.,
PR₁ = +16m.18s., iEN = +18m.50s., PS = +21m.37s., SR₁ = +28m.1s.,
MN = +44.4m. Suva iSE = +21m.48s. = [S] +9s., iLN = +37.2m.
Harvard ePR₁N = +16m.15s., eSR₁N = +26m.15s.; T₀ = 18h.20m.31s.;
epicentre 55°N 160°E. Fordham i = +12m.17s., iE = +12m.35s., i =
+17m.27s. = PR₁ - 6s., e = +20m.47s., and +21m.7s., SR₁ = +21m.27s.,
PS = +22m.0s., SR₁ = +26m.22s., e = +27m.32s. Hohenheim iPR₁ =
+14m.35s., iPR₁N = +16m.25s., eSR₁ = +26m.8s., MN = +48.6m.
Cheitnam eN = +39m.0s. Graz P = +14m.39s. and +16m.24s., PS =
+22m.3s., SR₁ = +26m.18s., MN = +41.8m. Strasbourg PR₁ = +14m.36s.
PR₁ = +16m.28s., PR₁ = +17m.32s., PS = +22m.3s., SR₁ = +26m.42s.,
SR₁ = +29m.42s., MZ = +46.2m., MN = +49.0m. Batavia i =
+11m.53s. and +16m.4s., LZ = +27.2m. Ravensburg ePN = +11m.39s.,
ePR₁N = +14m.43s., ePR₁N = +16m.31s., eSR₁N = +26m.23s., MN =
+44.9m. Innsbruck i = +11m.58s. Belgrade eN = +13m.10s.,
Zagreb eLNW = +30.1m. Chur eP = +12m.10s. Moncalieri L =
+31.9m., MN = +47.7m. Florence iPZ = +12m.13s., PR₁Z = +15m.25s.,
PR₁Z = +17m.12s., PR₁Z = +18m.27s., SR₁Z = +27m.52s., SR₁Z =
+31m.27s., SR₁Z = +32m.42s. Ksara PR₁N = +15m.30s., PR₁N =
+17m.28s., PR₁N = +18m.36s., PSN = +23m.8s., PSE = +23m.9s., SR₁E =
+31m.33s., SR₁E = +33m.20s.; T₀ = 18h.20m.37s., epicentre 56°N 163°E.
Marseilles ePR₁ = +15m.17s. Rocca di Papa iPZ = +12m.18s., SN =
+22m.35s., iS = +23m.2s. = PS - 11s. Barcelona MN = +50.1m.
Tortosa, LE = +37.9m., ME = +47.5m. Toledo MNW = +53.2m., MZ =
+56.6m. Granada iP = +12m.57s., PR₁ = +15m.24s., PR₁ = +18m.58s.,
PR₁ = +20m.42s., SZ = +23m.41s., PS = +24m.38s., i = +34m.5s. = SR₁ - 1s.,
and +42m.0s. Almeria PR₁ = +16m.23s., MZ = +55.8m. Riverview
eS₀PC = +23m.48s., ePS = +25m.16s., eSR₁ = +30m.16s., eL = +37.8m.,
and +38.3m., MN = +48.8m. Sydney SR₁ = +30m.54s.; all readings
have been diminished by 7 mins. San Fernando MN = +58.3m.
Adelaide iSR₁ = +30m.47s., eSR₁ = +33m.42s., MN = +54.8m. Perth
SR₁ = +31m.24s., SR₁ = +37m.42s. Wellington iSR₁E = +26m.25s.,
PS + 6s., iSR₁N = +30m.48s. Entebbe iP = +19m.16s. = PR₁ - 12s.,
iS = +28m.20s. La Paz iP = +19m.23s., PR₁ = +24m.9s. = PR₁ - 28s.,
PR₁N = +26m.16s. = [S] +13s., PR₁E = +26m.26s., iPSN = +33m.7s.,
iPPS = +34m.6s., SR₁N = +39m.8s., SR₁N = +43m.12s., SR₁E = +46m.43s.
Sucre PR₁ = +26m.35s. = [S] +13s., iPS = +33m.47s., iPPS = +34m.24s.,
SR₁ = +39m.13s., SR₁ = +43m.40s., SR₁ = +48m.10s.

Dec. 28d. Readings also at 0h. (near Toyooka), 1h. (near Sumoto and near Tacubaya), 3h. (Christchurch, near Tacubaya, and near Toyooka), 5h. (Tashkent), 8h. (Nagasaki), 10h. (Ekaterinburg and Helsingfors), 11h. (Tiflis and near Sumoto), 13h. (Christchurch and near Toyooka (3)), 14h. (near Tacubaya), 17h. (near Toyooka), 18h. (Ekaterinburg and Tashkent), 19h. (La Paz), 21h. (Baku), 23h. (La Paz).

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Dec. 29d. Readings at 1h. (Tiflis), 2h. (Baku, Tiflis, and La Paz), 3h. (Tiflis (2)), 4h. (La Paz), 5h. (Tiflis (2) and near Algiers), 6h. and 7h. (La Paz), 11h. (Suva and near Toyooka), 13h. (Ksara, Mizusawa, Victoria, and near Toyooka (2)), 16h. (Ekaterinburg and Irkutsk), 17h. (Baku, Tashkent, Tiflis, and near Sumoto), 18h. (Tacubaya and near Toyooka), 20h. (near Tacubaya), 21h. (near Sumoto), 23h. (near Sumoto and near Toyooka).

Dec. 30d. 6h. 0m. 42s. Epicentre 4°0S. 129°0E.

A = -0.628, B = +0.775, C = -0.070; D = +0.777, E = +0.629;
G = +0.044, H = -0.054, K = -0.998.

Very rough.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	0.9	290	i 0 42	+28	i 1 12	+47	—	—
Manila	20.2	337	e 4 52	+9	(i 8 53)	+26	i 8.9	—
Batavia	22.2	264	i 5 1	-6	i 9 15	+6	—	—
Riverview	36.2	149	—	—	—	—	e 18.7	21.3
Irkutsk	60.2	345	e 10 12	-1	e 18 19	-7	31.7	—
Tashkent	70.6	318	i 11 25	+4	e 20 36	+3	e 38.6	44.8
Ekaterinburg	81.8	331	i 12 23	-6	e 22 37	-7	37.3	—

Additional readings: Riverview i = +14m.22s. and +15m.14s., MN = +20.4m.
Irkutsk eP = +9m.17s. Tashkent i = +11m.39s.

Dec. 30d. 12h. 31m. 12s. Epicentre 19°0N. 57°0W.

A = +0.515, B = -0.793, C = +0.326; D = -0.839, E = -0.545;
G = +0.177, H = -0.273, K = -0.946.

Very doubtful; see note at end.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Port au Prince	14.5	271	e 3 35	+2	i 6 25	+5	e 8.8	9.0
Fordham	26.2	330	e 6 28	?PR ₁	(e 10 38)	+12	e 10.6	—
Harvard N.	26.2	336	—	—	e 10 59	+33	16.8	—
Ithaca	28.6	329	—	—	e 10 18	-52	—	—
Ottawa N.	30.6	335	e 8 12	?	e 11 52	+8	e 13.8	19.8
Toronto E.	31.0	330	—	—	e 11 41	-10	14.8	21.0
St. Louis	34.8	313	e 7 11	0	e 11 56	-56	14.2	16.0
La Paz	37.2	200	e 8 27	?PR ₁	e 16 36	?SR ₁	21.8	24.2
Sucre	38.9	194	e 8 1	+16	e 15 55	?	21.0	25.3
Granada	49.7	59	e 11 48?	?PR ₂	—	—	e 20.8	30.3
Oxford	54.2	40	—	—	—	—	e 28.8	30.8
Edinburgh	54.4	35	—	—	—	—	e 30.8	—
Kew	54.7	40	—	—	—	—	e 28.8	—
Paris	55.9	45	—	—	—	—	e 30.8	—
Uccle	57.4	41	—	—	—	—	e 27.8	—
De Bilt	58.1	40	—	—	—	—	e 27.8	33.6
Strasbourg	59.3	45	—	—	—	—	e 31.8	—
Cheb	62.4	43	—	—	—	—	e 31.8	44.8
Copenhagen	62.8	37	—	—	—	—	30.8	—
Pulkovo	72.3	31	—	—	—	—	e 37.8	—
Kucino	77.1	36	—	—	—	—	e 42.8	—
Tiflis	85.8	48	—	—	—	—	e 46.1	62.2
Ekaterinburg	88.1	30	—	—	e 24 56	?PS	44.8	—
Tashkent	101.8	39	—	—	—	—	e 50.8	63.9
Irkutsk	106.9	13	—	—	—	—	56.6	—

Additional readings and note: San Juan ($\Delta = 8.7$) gives $IE = 12h.30m.0s.$,
 $ILN = 12h.30m.19s.$ and $iLN = 12h.30m.23s.$ Port au Prince $iP = +5m.32s.$
Harvard $eN = +16m.49s.$ St. Louis $e = +13m.13s. = S + 21s.$ La Paz
 $SR = +20m.4s.$ De Bilt $MN = +33.4m.$ MZ = +34.2m. Tiflis $MZ =$
 $+64.0m.$ Ekaterinburg $e = +35m.39s.$ Tashkent $MN = +58.4m.$
 $MZ = +64.1m.$

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NOTE TO SHOCK OF DEC. 30d. 12h. 31m. 12s.

The above determination is based on the readings of Port au Prince, and the e readings of North American stations supported by the European eL. The La Paz and Sucre observations cannot belong to this shock; they give a consistent T, at 29m.25s., with epicentral distances 60°·2 and 56°·5 respectively, indicating an origin on the opposite side of those stations, i.e., in the South Atlantic ocean.

Dec. 30d. 23h. 24m. 54s. Epicentre 44°·0N. 146°·2E. (as on 1927 July 12d.).

A = -·598, B = +·400, C = +·695; D = +·556, E = +·831;
G = -·577, H = +·386, K = -·719.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ootomari	3·6	319	1 1	+ 5	(1 47)	+ 8	1·8	2·9
Mizusawa	E. 6·2	220	1 45	+10	3 3	+14	—	—
Nagoya	11·4	222	e 2 56	+ 6	—	—	—	—
Irkutsk	28·4	302	e 6 0	-12	e 10 49	-17	13·2	19·0
Ekaterinburg	52·3	318	9 6	-16	i 16 29	-19	22·1	34·6
Tashkent	54·5	298	i 9 30	- 6	i 17 7	- 8	e 24·1	29·1
Pulkovo	63·8	330	e 10 46	+ 9	—	—	e 25·1	—
Baku	67·1	305	i 11 11	+12	i 19 45	- 6	33·6	37·0
Tiflis	E. 69·2	310	—	—	e 20 6	-10	e 36·1	44·9
	N. 69·2	310	e 11 6	- 6	20 9	- 7	e 36·1	40·4
	Z. 69·2	310	i 11 5	- 7	e 20 7	- 9	e 39·1	42·7
Copenhagen	72·9	335	—	—	—	—	29·1	—
Vienna	Z. 77·8	329	e 11 51	-15	—	—	—	—
De Bilt	78·2	337	e 12 13	+ 5	—	—	e 40·1	—
Uccle	79·6	337	—	—	—	—	e 42·1	—
Kew	80·2	340	—	—	—	—	e 40·1	—
Strasbourg	80·6	334	i 12 25	+ 2	—	—	40·1	—
Paris	81·9	338	—	—	—	—	e 48·1	—
St. Louis	82·9	31	i 12 56	+21	i 23 5	+ 9	—	—

Additional readings and notes: Ootomari MN = +2·1m. Irkutsk MZ = +19·2m. Ekaterinburg i = +9m.28s. and +18m.45s. = [S] - 8s., MN = +35·0m. Tashkent i = +9m.34s., iP = +9m.51s., i = +17m.9s., iS = +18m.3s., i = +19m.10s. = [S] - 2s., e = +23m.34s. = SR₁ - 21s., and +27m.18s., i = +28m.3s., MN = +36·1m., MZ = +36·3m. Baku MN = +45·5m., MZ = +45·7m., Tiflis iZ = +11m.27s., eSR₁ N = +27m.38s., eE = +28m.35s. = SR₁ +16s., eZ = +28m.42s. = SR₁ +23s. St. Louis iEN = +12m.24s., eE = iN = +22m.28s. = [S] - 14s.

Dec. 30d. Readings also at 4h. (near Toyooka), 7h. (near Sumoto and Kobe), 10h. (Tashkent), 12h. (La Paz), 13h. (Makeyevka), 14h. (Amboina), 19h. (near Toyooka), 22h. (Ekaterinburg, Irkutsk, Nagoya, and near Mizusawa), 23h. (Pulkovo and Kucino).

Dec. 31d. 4h. 59m. 28s. Epicentre 46°·5N. 13°·0E. (as on 1926 Sept. 28d.).

A = +·671, B = +·155, C = +·725; D = +·225, E = -·974;
G = +·707, H = +·163, K = -·688.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Venice	1·1	204	0 2	-15	0 43	+12	—	—
Innsbruck	1·4	305	0 26	+ 5	—	—	—	—
Zagreb	2·2	108	e 0 49	+15	e 0 59	- 1	(11·6)	1·7
Chur	2·4	278	e 0 37	- 0	i 1 2	- 4	—	—
Ravensburg	2·7	299	1 6	+24	1 22	+ 8	1·5	—
Vienna	2·9	52	—	—	—	—	e 1·9	2·8
Zurich	N. 3·2	288	e 0 48	- 2	e 1 25	- 3	—	—
Hohenheim	3·4	313	e 1 4	+11	e 1 22	-12	e 1·8	2·0
Strasbourg	4·1	302	0 51	-13	1 17	-36	—	—
Neuchatel	N. 4·1	278	e 0 59	- 5	i 1 39	-14	—	—
Jena	E. 4·5	348	—	—	e 1 44	-20	1 2·8	2·9

Additional readings and note: Zagreb gives S as e and L as iS. Chur iP = +38s. Ravensburg PR₁ = +1m.16s. Zurich iP = +44s. Strasbourg SR = +1m.22s., +1m.32s., and +1m.50s. Neuchatel eP = +1m.9s.

Original bulletins of the International Seismological Summary (ISS) have been obtained thanks to funding provided by the US National Science Foundation through grant EAR-9725140 (Villaseñor et al., 1997) and have been scanned and collected by SGA Storia Geofisica Ambiente (Bologna) thanks to funding provided by the Istituto Nazionale di Geofisica e Vulcanologia (Rome), in the frame of the EUROSEISMOS project.

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Dec. 31d. 5h. 50m. 45s. Epicentre 36°·0N. 139°·0E. (as on 1921 Dec. 8d.).

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

Geophys. Mag. Vol. 2, No. 1, gives epicentre 36°·1N. 139°·2E., with focal depth 140 km., and Bulletin Equake. Res. Inst. Tokyo, Vol. VII, part 2, gives 36°7', 139°35'E. The earthquake is here referred to the nearest previously adopted epicentre.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	1·9	243	0 37	+ 8	(0 59)	+ 6	1·0	1·5
Kobe	3·4	248	e 0 55	+ 2	(1 36)	+ 2	1·6	2·8
Mizusawa	3·5	28	0 53	- 2	1 32	- 5	—	—
	N.	3·5	0 54	- 1	1 34	- 3	—	—
Sumoto	3·7	244	e 1 1	+ 3	(1 42)	0	1·7	2·1
Irkutsk	29·3	315	—	—	e 10 48	-34	—	—
Tashkent	53·3	299	—	—	—	—	e 21·2	31·6
Ekaterinburg	54·5	319	1 9 15	-21	1 16 44	-31	23·7	—
Baku	67·1	305	—	—	—	—	e 33·7	—

Additional readings: Kobe MN = +1·8m. Sumoto MN = +2·2m.

Dec. 31d. 19h. 6m. 45s. Epicentre 56°·4N. 136°·0W. (as on Nov. 21d.).

A = -·398, B = -·384, C = +·833; D = -·695, E = +·719;
G = -·599, H = -·579, K = -·553.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Sitka	E.	0·7	29	10 59	+48	i 1 3	+43	i 1·2	1·3
	N.	0·7	29	10 25	+14	—	—	e 0·6	0·8
Victoria	E.	11·1	131	7 33	?	—	—	8·0	8·1
Berkeley	E.	20·7	148	—	—	—	—	7 3	—
Denver	E.	28·2	116	17 1	+70	e 10 42	+14	12·0	13·0
Tucson	N.	29·8	134	—	—	e 15 33	?L	16·9	18·2
	N.	29·8	134	6 37	+11	—	—	16·6	20·2
St. Louis		34·8	103	—	—	—	—	18·7	—
Ann Arbor		35·8	91	—	—	—	—	e 19·4	19·9
Toronto	E.	37·3	87	—	—	e 13 20	- 8	18·7	20·2
Cincinnati		37·4	95	—	—	i 16 30	?SR ₂	i 20·3	—
Ottawa		38·2	82	—	—	e 13 33	- 8	e 17·2	20·4
Ithaca		39·7	86	—	—	e 16 15f	?SR ₄	e 19·8	20·9
Cheltenham	E.	42·0	90	—	—	—	—	e 22·1	—
Fordham		42·2	86	—	—	—	—	i 20·4	—
Harvard	N.	42·7	83	—	—	—	—	e 20·4	—
Irkutsk		60·6	324	—	—	e 18 26	- 5	28·2	34·5
Pulkovo		63·3	9	i 10 37	+ 3	—	—	29·2	42·8
Copenhagen		65·0	20	—	—	23 15?	?	—	—
Oxford		65·6	30	—	—	—	—	e 34·8	—
Ekaterinburg		65·9	352	e 10 50	0	19 34	- 2	27·2	39·6
Kew		66·1	30	—	—	—	—	e 35·2	—
De Bilt		66·9	26	—	—	—	—	e 34·2	—
Kucino		67·7	5	—	—	e 21 58	?Σ	e 43·6	—
Uccle		67·9	28	—	—	—	—	e 33·2	—
Paris		69·3	29	—	—	—	—	e 35·2	—
Feldberg	N.	69·4	25	—	—	—	—	—	41·2
Strasbourg		70·8	26	e 11 15?	- 7	—	—	e 37·2	—
Vienna	Z.	72·8	20	e 11 38	+ 3	—	—	—	—
Granada		76·1	39	—	—	—	—	e 45·2	48·8
Tashkent		80·0	341	e 12 17	- 2	22 18	- 5	e 33·2	42·4
Hong Kong		81·8	286	45 40?	?L	—	—	(45·7?)	50·5
Tiflis		81·9	0	—	—	—	—	e 43·2	54·4
Baku		83·1	356	—	—	—	—	38·2	54·9

Additional readings: Victoria LN = +7·2m., MN = +7·9m. Berkeley eZ = +1m.57s. and +3m.3s. eN = +7m.42s. Denver i = +7m.48s., iN = +11m.11s. -SR₂, 24s., iE = +11m.13s. -SR₄, -22s., MN = +13·2m. St. Louis i = +15m.8s., +16m.33s., +17m.30s., +17m.42s., +13m.3s., and +13m.15s. Ann Arbor e f = +15m.39s., eN = +16m.3s., eE = +16m.39s., and +19m.9s. Toronto iE = +19m.59s. Cincinnati i = +20m.40s., e = +21m.31s. and +22m.16s. Ottawa MN = +20·3m. Cheltenham eN = +22m.1s. Fordham e = +17m.41s. -SR₁, +9s. Harvard eE = +21m.57s., eN = +34m.21s. Ekaterinburg i = +10m.54s. and +11m.37s., e = +23m.39s., MN = +47·6m., MZ = +49·6m. Tashkent e = +29m.15s.?, MN = +47·6m., MZ = +51·3m. Baku MN = +58·6m., MZ = +60·3m.

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Dec. 31d. 21h. 10m. 54s. Epicentre 45°-0N. 11°-0E. (as on 1924 Dec. 22d.).

A = +.694, B = +.135, C = +.707; D = +.191, E = -.982;
G = +.694, H = +.135, K = -.707.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Venice	1.1	65	0 16	- 1	0 18	-13	0.6	—
Chur	2.1	331	e 0 34	+ 1	i 1 0	+ 2	—	—
Zurich	2.9	325	i 0 46	+ 1	e 1 24	+ 4	—	—
Neuchatel	3.5	306	e 0 57	+ 2	i 1 46	+ 9	—	—
Zagreb	3.6	77	e 0 56	0	i 1 38	- 1	—	—
Strasbourg	4.1	330	—	—	—	—	e 2.1	—
Vienna	Z. 4.9	47	e 1 56	?S	(e 1 56)	-18	—	—
Jena	E. 5.9	5	e 1 36	+ 5	(i 2 45)	+ 4	1 2.8	2.9

Additional readings: Venice +1m.2s. Chur P = +36s. Zurich P = +52s.

Dec. 31d. 23h. 13m. 18s. Epicentre 51°-0S. 140°-0E. (as on 1927 June 14d.).

A = -.482, B = +.405, C = -.777; D = +.643, E = +.766;
G = +.595, H = -.500, K = -.629.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Adelaide	16.1	356	13 6	+ 3	17 4	+ 7	17.5	8.8
Riverview	19.0	29	i 4 39	+10	e 8 28	+26	e 9.8	11.7
Sydney	19.0	29	(4 18)	-11	4 18	?P	16.7	21.2
Christchurch	23.2	84	5 30	+11	—	—	10.2	12.2
Wellington	E. 25.7	82	i 5 39	- 6	i 10 5	-11	11.2	14.1
	N. 25.7	82	i 5 39	- 6	i 10 9	- 7	10.2	12.3
Perth	26.1	308	e 5 52	+ 3	i 10 14	- 10	11.6	13.8
Suva	E. 44.7	58	e 6 0	?	i 13 54	?	i 22.3	32.1
Batavia	52.5	318	e 9 12	-11	i 16 59	+ 9	—	—
Hong Kong	76.8	336	—	—	(22 2)	+15	—	22.0
Colombo	77.4	298	21 54	?S	(21 54)	+ 1	—	38.2
Phu-Lien	77.6	328	—	—	21 42?	-14	—	—
Kodaikanal	81.5	298	41 48	?L	—	—	(41.8)	—
Hyderabad	87.0	304	32 40	?L	—	—	(32.7)	56.5
Irkutsk	107.6	337	—	—	e 25 8	[+ 9]	e 44.3	—
Tashkent	116.9	310	—	—	e 25 0	[-14]	e 51.7	62.0
Baku	120.2	297	—	—	—	—	56.7	66.3
Ekaterinburg	125.9	317	e 19 13	[+ 5]	—	—	55.7	71.5
Kucino	135.7	307	—	—	—	—	69.0	—
Pulkovo	141.1	310	e 22 34	?PR ₁	—	—	47.7	84.2
Copenhagen	149.1	299	—	—	—	—	e 75.7	—
Strasbourg	149.6	284	—	—	—	—	e 13.7	—
Granada	150.8	256	—	—	—	—	e 68.7	80.4
San Fernando	151.9	252	—	—	63 12	?	83.5	90.4
De Bilt	152.3	290	—	—	—	—	e 74.7	—
Uccle	152.4	287	—	—	—	—	e 81.7	—
Paris	152.9	282	—	—	—	—	e 88.7	—
Kew	155.4	287	—	—	—	—	e 84.7	—
Ottawa	155.8	89	—	—	e 43 42?	?SR ₁	e 59.7	—

Additional readings: Riverview eSN = +8m.46s., MN = +13.1m. Christchurch SR₁ = +10m.6s. Suva P and S are given as e and i respectively. Tashkent i = +28m.42s. ? = PS - 26s., and +31m.15s., MZ = +60.4m. Ekaterinburg e = +27m.55s., = E + 6s., +32m.24s. = PS + 41s., +35m.15s. = SR₁ + 14s., and +44m.39s., MN = +71.3m., MZ = +73.4m. Copenhagen eN = +55m.42s. ? eLN = +70.7m. San Fernando MN = +84.4m.

Dec. 31d. Readings also at 0h. (Tathokuy), 3h. and 4h. (Apta), 5h. (Graz), 7h. (Akmeria and Granada), 9h. (Riverview), 13h. (Ekaterinburg, Irkutsk, Makoyevka, Tashkent, and Tiflis), 14h. (Baku, Copenhagen, Kucino, and Pulkovo), 15h. (near La Paz and Sucre), 21h. (near Nagasaki and near Reykjavik), 22h. (near Batavia and Malabar).