

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 Stora 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 1928 January, February, March.

FORMERLY THE BULLETIN OF THE
BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.

The present number of the Summary deals with 140 epicentres, 39 being new and 101 repetitions of old epicentres.

Cases of abnormal focus are as follows :

Date, 1928.	Epicentre.	Focal Depth.
d. h. m. s.	° °	
Jan. 5 21 46 0	19·5S. 62·7W.	+0·080
Jan. 6 19 31 33	0·2N. 36·2E.	-0·015
Jan. 10 2 25 18	0·2N. 36·2E.	-0·015
Feb. 18 14 33 30	32·5S. 69·5W.	+0·015
Mar. 13 18 31 44	5·5S. 153·5E.	+0·015
Mar. 20 2 23 28	36·8N. 102·8E.	-0·005
Mar. 21 3 53 24	36·8N. 102·8E.	-0·005
Mar. 29 5 5 58	31·5N. 137·8E.	+0·060

1981 August 13.

University Observatory,
Oxford.

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1928 JANUARY, FEBRUARY, MARCH.

Jan. 1d. 3h. 12m. 36s. (I) } Epicentre 45°·0N. 11°·0E. (as on 1927 Dec. 31d.).
 13h. 14m. 24s. (II) }

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. s.	s.	m. s.	s.	m.
I Venice	1·1	65	0 12	- 5	0 37	+ 6	—
I Chur	2·1	331	i 0 34	+ 1	i 0 59	+ 1	—
II Zurich	2·1	331	e 1 6	+33	i 1 12	+14	—
II Neuchate	2·9	325	i 0 44	- 1	e 1 29	+ 9	—
II Zagreb	2·9	325	e 0 44	- 1	e 1 17	- 3	—
II Strasbourg	3·5	306	e 1 5	+10	(e 1 54)	+17	—
I Strasbourg	3·6	77	—	—	e 1 30	- 9	e 1·6
	4·1	330	—	—	—	—	(2·2)

Additional reading and note : Treviso $\Delta = 1^{\circ} \cdot 0$ gives $iP = 3h.12m.28s.$ Zurich I
 eP = +51s. Neuchatel S has been increased by 1m. Strasbourg reading
 is given as SR₁.

Jan. 1d. 7h. 16m. 55s. Epicentre 36°·5N. 140°·5E. (as on 1925 Jan. 24d.).

A = -·620, B = +·511, C = +·595; D = +·636, E = +·772;
 G = -·459, H = +·378, K = -·804.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	2·6	10	0 59	+18	1 38	+26	—	—
Nagoya	2·6	10	1 0	+19	1 43	+31	—	—
Osaka	3·2	245	e 0 47	- 3	(1 25)	- 3	1·4	1·7
Kobe	4·5	248	1 12	+ 2	(2 11)	+ 7	2·2	3·1
Toyooka	4·7	249	1 16	+ 3	(2 12)	+ 3	2·2	2·6
Sumoto	4·7	260	i 1 12	- 1	(1 2 15)	+ 6	i 2·3	2·8
Hukuoka	5·1	247	e 1 18	- 1	(2 29)	+ 9	2·5	2·7
Nagasaki	8·8	254	2 10	- 3	—	—	4·4	—
Tashkent	9·6	250	e 4 15	?S	(e 4 15)	- 3	—	—
Ekaterinburg	54·1	300	—	—	—	—	e 25·1	32·9
Kucino	54·8	320	19 35	- 3	e 17 14	- 5	27·1	35·2
Pulkovo	66·8	325	(14 29)	?PR ₁	—	—	14·5	—
Baku	67·7	330	(e 10 5?)	-57	—	—	e 10·1	—
Copenhagen	67·7	306	—	—	—	—	13·1	18·8
La Paz	77·7	334	—	—	—	—	42·1	—
	147·7	59	19 50	[- 2]	—	—	—	—

Additional readings : Nagoya P = +50s., MN = +1·9m.
 + 1m.25s., MZ = +2·5m. Toyooka MN = +2·4m.

Kobe P =
 Sumoto MNZ =

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Jan. 1d. 9h. 25m. 36s. Epicentre 16°·5N. 100°·2W. (given by De Bilt).

A = -·170, B = -·944, C = +·284; D = -·984, E = +·177;
G = -·050, H = -·280, K = -·959.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Tacubaya	3·0	17	1 6	+19	—	—	1·8	2·0	
Puebla	3·2	37	2 1	+71	—	—	2·6	2·8	
Vera Cruz	4·8	54	(1 3)	-11	(2 4)	-7	(2·1)	(2·6)	
Guadalajara	5·2	324	1 39	+19	—	—	2·8	3·4	
Mazatlan	8·9	320	—	—	—	—	4·9	—	
Merida	11·0	64	2 30	-14	4 30	-14	4·6	4·7	
Chihuahua	13·3	337	3 0	-17	5 33	-18	5·8	7·3	
Denver	23·6	351	e 5 36	+12	e 9 59	+23	i 19·4	—	
St. Louis	23·8	20	e 5 40	+14	e 9 56	+16	e 13·0	14·6	
Cincinnati	26·5	28	e 5 52	-1	i 10 31	-1	e 13·2	16·2	
Lick	E. 28·2	322	e 6 23	+13	e 11 18	+15	e 15·2	—	
Berkeley	E. 28·9	322	e 6 23	+6	e 11 33	+18	e 14·6	—	
Georgetown	Z. 30·2	39	1 6 26	-4	12 18	+41	—	30·5	
Toronto	E. 32·4	29	i 6 41	-11	e 11 57	-17	i 21·4	—	
	N. 32·4	29	i 6 41	-11	e 11 50	-24	14·4	25·1	
Ithaca		32·9	35	—	12 5	-17	18·4	—	
Ottawa		35·4	31	i 7 6	-11	i 12 44	-17	e 17·4	30·7
Harvard	N. 35·9	39	e 7 3	-18	e 12 53	-16	e 28·4	—	
Victoria		37·1	335	7 31	0	13 31	+6	21·0	21·7
La Paz		45·7	136	8 31	-7	i 14 59	-25	20·4	25·5
Sitka	N. 48·4	336	—	—	—	—	24·9	27·9	
Sucre		49·4	136	e 8 59	-4	i 16 1	-10	24·6	28·9
Edinburgh		80·3	35	—	—	i 22 34	+7	—	—
Stonyhurst		81·2	38	—	—	—	e 51·4	57·9	
Oxford		82·5	39	—	—	i 22 49	-3	—	51·4
Kew		83·2	39	e 12 39	+2	e 23 1	+2	41·4	50·4
San Fernando		83·4	55	—	—	—	—	—	43·2
Malaga		84·7	54	e 12 30	-16	e 23 0	-16	—	—
Granada		85·2	53	i 12 50	+1	i 23 24	+3	e 41·4	45·6
Paris		85·8	40	—	—	e 23 22	-6	47·4	—
De Bilt		86·1	37	12 56	+2	e 23 37	+6	e 39·4	—
Uccle		86·1	39	e 13 0	+6	e 23 23	-8	38·4	—
Almeria		86·2	53	12 47	-7	e 23 49	+17	—	49·8
Copenhagen		88·4	30	13 8	+1	e 23 36	[+18]	44·4	47·2
Feldberg	N. 88·8	37	—	—	e 23 45	-16	e 29·7	70·2	
Lund		88·9	31	—	—	23 42	-20	—	—
Strasbourg		89·0	40	e 13 6	-4	—	—	34·4	—
Moncalieri		90·4	43	(13 3)	-15	(22 38)	?	(33·7)	—
Florence		93·2	43	(13 24?)	-9	—	—	13·4	53·4
Pulkovo		93·9	23	13 33	-4	24 41	-14	48·4	62·0
Rocca di Papa		95·1	44	—	—	(e 32 18)	?SR,	(44·8)	(66·9)
Kucino		99·6	23	—	—	i 24 42	[+20]	50·2	55·0
Ekaterinburg		105·0	10	—	—	25 3	[+16]	48·4	66·4
Makeyevka		105·5	27	e 19 24	?PR,	25 8	[+18]	58·4	70·5
Irkutsk		108·0	345	e 14 50	+2	25 25	[+24]	45·1	69·9
Baku		116·7	24	—	—	—	—	53·4	76·9
Tashkent		121·4	9	—	—	26 9	[+19]	69·6	81·9
Hong Kong		128·6	318	—	—	—	—	—	76·1
Phu-Lien		134·4	322	—	—	—	—	72·4	—
Bombay		143·9	10	e 20 24?	?	—	—	—	—

Additional readings and notes: Vera Cruz readings have all been diminished by 3m. St. Louis IP = +5m.43s., eS = +10m.1s., iS = +10m.6s.; epicentre 14°·3N. 99°·8W. Cincinnati IP = +5m.56s., eSN = +10m.28s. Lick eLN = +15·3m.; readings are all given for 10h. Berkeley ePE = +6m.30s. eN = +11m.40s., eSR, E = +13m.25s. and several e readings. Georgetown PR₁ = +8m.4s. Toronto iSN = +11m.58s., iSE = +12m.0s. Ottawa eSR, N? = +14m.34s. MN = +28·2m.; T₁ = 9h.25m.36s. Harvard eN = +21m.27s., LE = +24·4m. Victoria LN = +19·8m., MN = +22·0m.; T₁ = 9h.25m.33s. Kew iPR, Z = +15m.51s., LZ = +44·4m. De Bilt ePR, Z = +16m.15s., eSR, E = +29m.19s. Uccle SR₁ = +29m.9s. Copenhagen SR₁ = +29m.48s., SR₂ = +33m.24s.?, MZ = +48·0m., MN = +51·9m. Strasbourg e = +15m.35s. Moncalieri readings have been increased by 20m. Pulkovo S₁PR, S = +24m.7s. = [+16s.]. Rocca di Papa readings have been increased by 40m. Kucino PR₁ = +18m.3s. Ekaterinburg PR₁ = +18m.40s., PS = +27m.56s. Makeyevka PPS = +29m.4s. Irkutsk PS = +28m.48s. Baku ePR₁ = +20m.2s., PS = +29m.55s. Tashkent PR₁ = +20m.32s., PS = +30m.38s.

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Jan. 1d. 18h. 43m. 22s. Epicentre 53°-0N. 135°-5E. (as on 1926 Sept. 24d.).

A = -.429, B = +.422, C = +.799; D = +.701, E = +.713;

G = -.570, H = +.560, K = -.602.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Otomari		7.9	141	2 11	+11	2 48	-46	4.0	4.2
Mizusawa	E.	14.4	162	3 27	-5	6 6	-12	—	—
	N.	14.4	162	3 29	-3	6 13	-5	—	—
Nagoya		17.9	176	4 10	-6	—	—	—	—
Osaka		18.3	180	3 55	-26	(6 47)	-60	6.8	9.1
Irkutsk		18.8	280	i 5 29	+62	9 44	?L	(9.7)	15.8
Hong Kong		34.7	216	7 18	+7	12 58	+7	—	16.8
Phu-Lien		39.1	226	e 7 58	+11	—	—	—	—
Manila	E.	40.1	202	e 7 38	-18	(14 35)	+27	14.6	—
Ekaterinburg		41.0	306	i 8 9	+6	14 33	+12	—	23.6
Tashkent		44.8	283	i 8 51	+19	i 15 48	+36	—	33.0
Kucino		52.0	316	e 10 2	+42	—	—	24.3	—
Pulkovo		52.4	322	i 9 14	-8	16 41	-8	23.6	26.7
Baku		56.5	295	i 9 59	+10	e 17 59	+19	25.4	27.0
Hyderabad		56.5	255	12 11	?PR ₁	17 47	+7	—	33.2
Upsala		56.7	329	e 9 37	-13	—	—	—	20.5
Makeyevka		57.2	310	9 58	+5	e 18 3	+14	27.6	35.9
Bombay		58.6	261	e 10 38?	+35	—	—	—	—
Lund		61.4	328	—	—	18 20	-21	—	—
Copenhagen		61.6	329	10 9	-14	e 18 21	-22	—	—
Kodaikanal		62.9	250	24 26	?SR ₁	—	—	—	—
Hamburg		64.2	329	e 10 32	-7	i 22 6	?	—	—
Jena	E.	65.9	325	e 10 38	-12	e 22 31	?	—	—
Budapest		66.0	320	10 41	-10	e 22 38?	?	28.6	—
Vienna	Z.	66.4	321	10 43	-11	—	—	—	—
De Bilt		67.0	330	10 38	-20	e 19 22	-28	—	—
Feldberg	N.	67.6	327	—	—	e 18 44	-73	—	23.9
Uccle		68.3	330	e 10 47	-19	—	—	—	—
Zagreb		68.5	320	e 10 57	-11	e 19 52	-16	e 36.6	—
Ksara		68.8	300	11 16	+6	20 24	+12	30.6	—
Innsbruck		69.0	324	i 10 56	-15	—	—	—	—
Kew		69.1	333	i 11 15	+3	e 19 38?	-37	28.6	—
Strasbourg		69.2	326	i 9 53	?	—	—	26.6	—
Zurich		69.9	325	i 10 59	-17	—	—	—	—
Chur		70.1	325	e 11 3	-15	—	—	—	—
Neuchatel		70.8	325	e 11 3	-19	—	—	—	—
Florence		72.0	320	i 11 14	-16	—	—	—	—
Moncalieri		72.3	325	e 11 20	-12	(20 46)	-8	20.8	—
Rocca di Papa		73.3	319	11 23	-15	—	—	—	—
Tucson		77.2	53	12 10	+8	18 43	?PR ₁	—	—
Ottawa		78.2	22	e 12 38?	+30	e 22 42	?PS	41.6	—
Toronto	N.	78.8	26	—	—	e 22 43	?PS	27.5	—
Granada		83.1	329	e 14 38?	?	—	—	—	32.6
San Fernando	E.	84.6	330	—	—	—	—	—	25.8
La Paz		139.1	36	18 25	[-73]	—	—	—	—
Sucre		142.4	34	e 18 33	[-71]	26 46	?PR ₁	36.0	40.0

Additional readings: Otomari MN = +4.0m. Osaka MN = +8.9m.
 Irkutsk i = +6m.49s., iL = +12.5m. Phu-Lien ePR₁? = +9m.39s. Kucino
 e = +11m.32s. = PR₁-4s. and +12m.20s. = PR₂-8s., i = 20m.14s. Copen-
 hagen eNZ = +12m.45s. = PR₁-27s., eN = +16m.57s., eN = +21m.20s.,
 eN = iE = +21m.35s., e = +22m.50s., eN = +22m.58s., eNZ = +25m.38s.?
 De Bilt iZ = +13m.17s. and +15m.55s. = PR₁-11s., eN = +22m.35s.
 Uccle e = +17m.53s. and +22m.43s. Zagreb e = +23m.7s. Stras-
 bourg ePR₁ = +12m.38s., e = +15m.16s., and +17m.1s. Zurich i =
 +11m.1s. Chur iP = +11m.5s. Moncalieri S? = +16m.4s. Toronto
 eN = +20m.7s. Ottawa i = +19m.30s. San Fernando MN = +26.6m.
 La Paz PR₁ = +21m.48s. Sucre i = +24m.3s.

Jan. 1d. Readings also at 0h. (Hong Kong), 1h. (Makeyevka), 3h. (Rocca di Papa), 4h. (near Almeria and Granada and near Nagasaki), 6h. (near Nagasaki), 7h. (Ekaterinburg, Tashkent, and Rocca di Papa), 9h. (near Manila and near Merida), 10h. (La Paz), 12h. (Ekaterinburg, Pulkovo, and near Tashkent), 13h. (Moncalieri), 15h. (Ekaterinburg, Makeyevka, and Tashkent), 17h. (near Granada and near Sumoto), 20h. (Rocca di Papa).

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Jan. 2d. Readings at 10h. (Moncalieri), 11h. (La Paz), 15h. (Georgetown, La Plata, La Paz, and Sucre), 16h. (Florence and near Malabar), 19h. (La Paz and near Toyooka), 20h. (Rocca di Papa), 21h. (Suva).

Jan. 3d. 6h. 21m. 54s. Epicentre 39°0N. 67°0E.

A = +.304, B = +.715, C = +.629; D = +.921, E = -.391;
G = +.246, H = +.579, K = -.777.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	2.9	37	i 0 44	- 1	i 1 20	0	—	1.9
Baku	13.2	283	—	—	—	—	10.7	11.2
Ekaterinburg	18.3	349	i 4 21	0	e 7 50	+ 3	10.1	11.6
Bombay	20.7	164	e 5 6?	+17	—	—	—	—
Hyderabad	23.8	152	—	—	—	—	—	13.2
Kucino	25.5	321	—	—	—	—	—	15.3
Irkutsk	28.9	50	—	—	—	—	e 13.1	—
Copenhagen	39.3	314	—	—	—	—	—	23.1
De Bilt	E. 43.8	309	—	—	—	—	e 29.1	—
Tucson	E. 108.7	358	—	—	c 27 17	+ 1	—	—

Additional readings: Baku e = +6m.48s., i = +7m.26s., and +8m.48s. De Bilt eLN = +26.1m.

Jan. 3d. Readings also at 0h. (Wellington), 1h. (Apia), 3h. (Rocca di Papa), 5h. (La Paz and Sucre), 6h. (near Tacubaya and Vera Cruz), 7h. (Nagoya and near Toyooka (2)), 11h. (La Paz), 14h. (Copenhagen, De Bilt, Uccle, and near Toyooka), 15h. (Strasbourg), 16h. (Kew), 18h. (Rio Tinto), 22h. (Riverview, Suva, and Wellington), 23h. (Adelaide, Sydney, Apia, Ottawa, St. Louis, Tashkent, Ekaterinburg, and Irkutsk).

Jan. 4d. 21h. 25m. 20s. Epicentre 3°5S. 146°5E. (as on 1925 Feb. 25d.).

A = -.832, B = +.551, C = -.061; D = +.552, E = +.834;
G = +.050, H = -.034, K = -.998.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	18.2	269	i 5 23	+69	i 9 26	—	11.9	—
Riverview	30.6	172	i 5 31	-63	e 11 3	-41	e 14.1	18.9
Sydney	30.6	172	e 6 53	+24	i 11 28	-16	18.3	19.3
Manila	N. 31.2	308	e 6 34	-6	i 11 24	-30	i 14.2	19.4
Adelaide	32.3	191	i 6 36	-15	i 12 0	-13	i 15.2	25.1
Batavia	39.6	265	i 7 53	+ 2	—	—	25.3	—
Perth	40.4	221	e 8 5	+ 7	i 14 15	+ 2	21.5	24.1
Hong Kong	40.8	311	e 7 53	- 8	14 12	- 6	17.6	18.5
Zi-ka-wei	42.1	323	e 7 58	-14	e 14 23	-13	—	22.8
Mizusawa	N. 42.9	355	14 8	?S	(14 8)	-39	22.0	—
Wellington	N. 45.5	150	i 8 45	+ 8	i 14 26	-55	—	—
Phu-Lien	46.0	304	8 40	0	e 15 32	+ 4	22.7	—
Christchurch	46.3	154	—	—	—	—	27.0	36.0
Irkutsk	66.2	334	i 10 56	+ 3	i 19 46	+ 6	30.7	36.9
Colombo	67.3	279	i 11 11	+11	20 51	[0]	36.7	41.8
Kodaikanal	70.1	282	34 34	?L	—	—	(34.6)	—
Hyderabad	70.2	290	i 11 35	+17	20 48	+20	36.3	47.2
Bombay	75.7	290	i 12 45	+52	21 52	[- 2]	37.4	41.8
Tashkent	82.8	312	i 12 27	- 8	22 58	+ 3	37.7	44.3
Ekaterinburg	90.6	326	13 1	-18	i 23 37	[+ 5]	42.2	52.5
Victoria	N. 92.7	41	24 11	?S	(24 11)	-31	37.5	37.9
Baku	97.3	311	e 14 41	+45	e 24 11	[+ 2]	45.7	58.5
Tananarive	E. 97.3	250	—	—	—	—	48.7	55.7
Kucino	103.2	326	—	—	24 51	[+12]	45.5	58.8
Makeyevka	104.9	319	—	—	e 24 38	[- 9]	—	62.0
Pulkovo	106.0	333	e 14 29	-10	25 1	[+ 9]	48.7	60.0
Ksara	109.0	304	e 17 4	[-65]	28 37	?PS	—	—
Upsala	N. 111.6	335	—	—	—	—	e 60.7	70.6
Lund	115.9	334	—	—	29 40	?PS	—	—
Copenhagen	116.2	332	—	—	29 46	?PS	56.7	66.6
Budapest	117.1	322	20 6	?PR ₁	—	—	e 59.7	73.2
St. Louis	117.8	47	—	—	e 25 22	[-16]	e 47.7	68.7
Potsdam	117.9	329	—	—	—	—	61.7	—

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.
Vienna	118.3	324	e 20 14	?PR ₁	—	—	e 60.7	70.7
Chicago	E. 118.5	42	—	—	—	—	e 57.7	63.1
Hamburg	118.6	332	—	—	—	—	e 60.7	71.7
Graz	119.4	323	e 20 45	?PR ₁	e 30 14	?PS	e 58.7	70.0
Jena	119.4	330	—	—	—	—	e 64.7	71.2
Zagreb	119.7	321	e 20 40?	?PR ₁	—	—	e 65.7	—
Feldberg	N. 121.5	330	—	—	e 32 22	?	e 71.0	73.0
De Bilt	121.8	332	e 32 40?	?	—	—	e 59.7	68.4
Ravensburg	122.3	325	—	—	—	—	e 73.7	—
Edinburgh	122.3	339	—	—	—	—	64.7	—
Strasbourg	122.8	328	e 20 40?	?PR ₁	e 42 40?	?SR ₂	61.7	62.3
Uccle	123.0	332	—	—	e 37 28	?SR ₁	e 60.7	74.9
Toronto	N. 123.0	38	—	—	e 38 44	?	55.9	—
Florence	123.6	322	e 20 10	?PR ₁	—	—	—	64.7
Stonyhurst	123.6	337	—	—	—	—	e 68.7	75.2
Rocca di Papa	123.8	320	e 18 55	[- 8]	e 27 44	?Σ	e 72.7	80.7
Ottawa	124.2	34	—	—	e 28 40?	-40	e 50.2	—
Kew	124.6	334	—	—	—	—	e 61.7	74.5
Oxford	124.8	335	—	—	—	—	e 54.4	77.3
Paris	125.3	331	—	—	—	—	e 62.7	74.7
Georgetown	Z. 127.0	41	—	—	—	—	e 64.3	70.0
Tortosa	N. 131.7	325	—	—	—	—	e 69.7	79.2
Algiers	132.7	319	e 22 52	?PR ₁	—	—	71.7	77.7
Granada	N.W. 134.9	328	—	—	—	—	e 62.4	80.9
Rio Tinto	136.6	323	e 23 3	?PR ₁	—	—	72.7	78.3
San Fernando	137.8	327	51 40?	?	—	—	—	78.7
La Paz	140.4	124	e 19 30	[-10]	1 76 49	?L	(1 76.8)	88.0
Sucre	141.5	128	e 19 23	[-19]	—	—	74.7	—
							73.7	95.1

Additional readings: Amboina $i = +5m.34s.$, $iP = +5m.39s.$ Riverview
 $eP = +6m.26s.$, $MZ = +20.7m.$, $MN = +22.2m.$ Adelaide $i = +14m.7s.$ =
 $SR_1 + 10s.$ Batavia $i = +9m.35s.$ = $PR_1 + 17s.$, $eL = +28.3m.$ Mizusawa
gives S as P, also SN = +18m.19s. Wellington $eLE = +17.0m.$, ME =
+21.7m. Phu-Lien $eSR_1 = +19m.0s.$, $eSR_2 = +20m.45s.$ = $SR_1 + 17s.$
Victoria gives S as P, also S = +30m.8s. Baku $e = +27m.28s.$ Kucino
 $PS = +27m.31s.$, PPS = +28m.22s. Makeyevka $e = +28m.6s.$ = PS + 6s.
Pulkovo $PS = +27m.57s.$ Upsala $eLE = +58.7m.$ Copenhagen $e =$
+30m.46s., +36m.27s. = $SR_1 + 27s.$, and +39m.28s., $eEN = +45m.40s.$ = ?
 $SR_1 + 28s.$, $MN = +65.0m.$, $MZ = +65.3m.$ Budapest $MN = +63.7m.$
St. Louis $e = +26m.52s.$ = $Z - 9s.$, $eE = +32m.52s.$, $eN = +34m.34s.$, $e =$
+39m.52s., $eN = +42m.52s.$, and +45m.24s. = $SR_1 - 16s.$, $eLN = +48.7m.$
Chicago $eN = +64m.40s.$ Jena $MN = +70.2m.$ Zagreb $eLNW =$
+58.7m. Feldberg $e = +41m.51s.$ De Bilt $MN = +71.5m.$, $MZ =$
+72.5m. Uccle $MN = +74.4m.$ Rocca di Papa $ePE = +19m.8s.$ =
[P] + 5s. Ottawa $e = +37m.10s.$ = $SR_1 - 28s.$ Kew $MN = +75.3m.$
Oxford $MN = +74.7m.$ Georgetown $eZ = +58m.16s.$ Toledo $MNE =$
+80.0m. La Paz $P = +19m.32s.$ = [P] - 8s.

Jan. 4d. Readings also at 0h. (Kucino, Baku, Copenhagen, De Bilt, Uccle, Paris, Kew, Strasbourg, and near Tananarive), 2h. (La Paz and Sucre), 3h. (La Paz and La Plata), 6h. (near Nagasaki), 8h. (near Tashkent), 9h. (near Toyooka), 11h. (Alicante), 15h. (Suva), 18h. (Baku, Copenhagen, Ekaterinburg, Makeyevka, Tashkent, and near Ksara), 19h. (La Paz), 20h. (Entebbe), 22h. (Kobe).

Jan. 5d. 13h. 57m. 18s. Epicentre 9°-8N. 126°-2E. (as on 1927 Nov. 18d.).

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 2	+16	—	—	14.2	—
Hong Kong	17.0	319	4 5	0	—	—	—	9.0
Phu-Lien	21.8	302	3 42?	-81	—	—	—	—
Batavia	25.0	231	15 39	+1	19 51	-12	—	—
Tashkent	58.9	314	—	—	—	—	e 31.7	37.5
Ekaterinburg	68.6	328	—	—	—	—	37.2	—
Makeyevka	81.6	319	—	—	—	—	49.7	—

Manila gives also $iLN = +4.4m.$

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Jan. 5d. 14h. 9m. 12s. Epicentre 43°·5N. 79°·0E. as on 1926 Nov. 26d. .

A = +·138, B = +·712, C = +·688 ; D = +·982, E = -·191 ;
G = +·131, H = +·676, K = -·725.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	7·5	255	i 1 53	- 1	i 3 40	+16	—	4·8
Ekaterinburg	17·7	326	4 11	- 2	i 7 34	+ 1	i 9·2	10·7
Irkutsk	18·9	53	i 4 30	+ 2	e 8 14	+14	13·8	15·9
Baku	21·8	272	e 4 29	-34	e 8 53	- 8	12·3	—
Bombay	25·1	194	5 26	-13	9 56	- 9	e 13·4	15·8
Hyderabad	26·0	181	—	—	—	—	—	14·7
Makeyevka	28·6	294	—	—	e 11 0	-10	14·8	16·1
Kucino	28·8	310	—	—	e 11 18	+ 5	e 17·1	—
Pulkovo	33·3	317	6 39	-20	—	—	16·8	20·6
Hamburg	44·9	308	—	—	—	—	e 21·8	27·8
Strasbourg	47·9	302	—	—	—	—	26·8	—
De Bilt	48·2	308	—	—	—	—	e 25·8	30·6
Kew	51·5	309	—	—	—	—	e 24·8	—
Granada	60·6	295	—	—	—	—	e 30·8	42·8

Additional reading and note : Bombay readings are given for 12h. Makeyevka e = +13m.13s.

Jan. 5d. 21h. 46m. 0s. Epicentre 19°·5S. 62°·7W.

A = +·432, B = -·838, C = -·334 ; D = -·889, E = -·459 ;
G = -·153, H = +·297, K = -·943.

A correction for focal depth 0·080 has been applied.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Sucre	+2·4	2·4	281	i 1 20	+ 6	i 2 16	+ 5	—	—
La Paz	+0·6	6·0	300	i 1 44	+ 3	i 2 58	- 2	—	3·1
Santiago	-2·1	15·6	205	e 3 32	+12	4 24	-92	6·1	—
La Plata	-2·2	16·0	165	i 3 37	+14	6 20	+17	7·4?	—
Rio de Janeiro	N. -2·9	18·5	104	e 4 8	+21	—	—	—	—
Georgetown	Z. -7·9	59·9	349	i 9 20	0	i 16 44	0	e 24·4	—
Cincinnati	-8·0	62·1	343	e 9 28	- 6	i 17 2	- 8	—	—
St. Louis	-8·0	63·7	339	e 9 28	-16	i 17 1	-29	—	—
Toronto	-8·1	65·0	349	i 9 51	0	i 17 34	-11	—	—
Ottawa	N. -8·2	66·0	352	i 9 58	0	i 17 56	0	e 21·4	—
Tucson	-8·4	69·3	319	10 18	0	—	—	—	—
San Fernando	-9·0	77·3	44	—	—	21 39	+93	—	44·6
Malaga	-9·1	78·6	45	i 11 13	- 1	20 32	+12	—	—
Granada	-9·1	79·4	45	i 11 26	+ 7	i 20 48	+18	e 34·0	—
Almeria	-9·2	80·1	45	i 11 21	- 1	e 20 46	+ 9	—	44·5
Toledo	-9·2	80·7	42	i 11 28	+ 1	e 20 51	+ 7	e 32·3	—
Alicante	-9·3	82·1	45	e 11 28	- 7	—	—	—	—
Algiers	-9·3	83·7	48	i 11 47	+ 2	21 25	+ 6	e 38·0	—
Tortosa	N. -9·3	83·9	43	i 11 47	+ 1	21 26	+ 5	—	—
Zurich	-9·7	92·3	42	e 12 25	- 9	e 22 42	-11	—	—
Florence	-9·7	92·5	46	e 14 30	?	—	—	—	—
Chur	-9·8	92·7	40	i 12 27	- 8	e 22 4	-52	—	—
Zagreb	-9·8	96·4	44	e 13 0?	+ 3	e 22 24	-73	—	—
Suva	K. —	109·3	242	—	—	—	—	69·6	—
Baku	—	119·5	53	e 19 34	?	e 24 12	?	—	—
Ekaterinburg	—	124·3	33	i 18 9	[-55]	i 25 58	[+ 1]	—	—
Tashkent	—	134·0	50	e 18 40	[-48]	i 21 14	?PR ₁	—	—
Irkutsk	—	145·7	13	i 18 49	[-60]	e 25 14	?	—	—

Additional readings and notes : La Paz i = +1m.54s. and +2m.10s. ; epicentre 23°S. 67°·5W. Rio de Janeiro eE = +4m.10s. Cincinnati iPN = +9m.30s., iN = +9m.36s., iEN = +18m.20s. St. Louis iPN = +9m.29s., iPCPR = +9m.36s., iPPN = +9m.37s., iEN = +18m.20s., iE = +20m.20s. Toronto iN = +18m.42s. Tucson gives its readings as for a local shock, iN = +10m.47s., iE = +13·4m. San Fernando iN = +44·5m. Granada PR₁ = +13m.35s., SPS = +14m.28s. = PR₁ -1s. Suva eLN = +70·1m. Ekaterinburg i = +24m.16s. = PR₁ -3s. Irkutsk e = +28m.13s.

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NOTE TO THE SHOCK OF JAN. 5D. 21H.

The evidence for this exceptional depth of focus is as follows: Adopt the time at origin and epicentre above and form the residuals, observed distances minus calculated, in degrees of Δ for each observing station. Forming these into groups according to the position of the station we have this table:—

Group	No. of Stations.	Mean Az.	Mean (1)	Residuals. (2)
La Paz and Sucre	2	290	+1.6	+0.1
La Plata and Santiago	2	185	-2.1	+0.8
North America	6	342	-8.6	-0.5
European	10	44	-9.1	-0.2

Column 4 gives the simple differences between Δ s obtained from the tables of P and S, and those calculated from the position of the epicentre. In column 5 these have been corrected for focal depth 0.080 as in the text: and it is evident that no determination can be made which will fit the various groups of stations unless this correction for focus be applied.

Jan. 5d. Readings also at 0h. (Irkutsk and Tashkent), 2h. (near Toyooka), 5h. (Sucre and near Toyooka), 10h. (near Toyooka), 11h. (Alicante), 23h. (near Tashkent).

Jan. 6d. 4h. 7m. 38s. Epicentre 7°-0N. 126°-0E. (as on 1927 Nov. 17d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	E. 9.0	327	e 2 36	+20	—	—	14.6	5.4
	N. 9.0	327	e 2 39	+23	—	—	14.6	4.7
Hong Kong	19.1	325	e 4 35	+5	8 15	+11	9.5	12.4
Phu-Lien	23.2	308	e 5 22	+3	e 9 33	+4	—	—
Batavia	23.2	236	e 15 5	-14	19 35	+6	—	—
Zi-ka-wei	24.6	350	e 5 30	-4	9 52	-3	13.8	15.0
Irkutsk	48.6	343	e 8 54	-4	e 15 52	-9	28.0	31.8
Tashkent	60.7	316	(e 10 30)	+13	(e 19 59)	[- 1]	(30.4)	(38.8)
Ekaterinburg	70.8	329	e 11 37	+15	20 35	-1	34.9	—
Makeyevka	83.4	320	—	—	—	—	47.4	53.2
Rio Tinto	117.2	320	64 22?	?L	—	—	(64.4)	75.4

Additional readings: Tashkent, one minute has been added to all readings. e = (+23m.22s.)=SR₁+2s. Makeyevka e=4h.4m.21s.

Jan. 6d. 19h. 31m. 33s. Epicentre 0°-2N. 36°-2E.

A = + .807, B = + .591, C = + .003; D = + .591, E = - .807;
G = + .003, H = + .002, K = - .1000.

A height of focus 0.015 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	s.	m.	m.
Entebbe	-0.1	3.8	268	1 9	+11	—	—	—	—
Tananarive	+0.7	22.1	150	15 20	+5	19 32	+11	—	15.4
	+0.7	22.1	150	15 21	+6	19 33	+12	e 11.4	13.7
Helwan	+1.0	30.1	352	6 30	-9	11 49	-4	—	18.6
Kara	+1.1	33.7	0	7 3	-8	12 41	-11	—	—
Cape Town	+1.3	37.9	205	7 44	-8	13 42	-12	16.2	20.8
Ramsay	+1.3	40.5	61	8 11	+2	14 18	-14	20.4	25.3
Kodjalumal	+1.3	42.2	76	8 57	+35	(14 51)	-4	14.8	28.2
Columbo	+1.4	44.0	82	18 32	-4	e 14 58	-22	—	24.4
Hyderabad	+1.4	44.2	66	8 39	+2	15 27	+5	22.0	30.8
Naples	+1.4	45.3	339	e 8 30	-15	e 20 10	+SR ₁	43.4	—

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.		
Rocca di Papa	+1.4	46.7	338	8	50	-	5	e 15	33	-	22	e 22.2	32.6
	+1.4	46.7	338	8	52	-	3	i 16	4	+	9	e 25.7	—
Belgrade	E. +1.4	46.8	347	e 8	52	-	3	e 15	57	+	1	e 27.6	31.5
Algiers	+1.5	47.8	325	e 8	55	-	7	e 16	1	-	9	e 22.4	26.4
Makeyevka	+1.5	47.9	3	e 9	0	-	3	e 15	59	-	12	e 24.4	28.4
Florence	+1.5	49.0	338	i 9	6	-	4	e 16	57	?	PS	e 24.1	30.4
Zagreb	+1.5	49.0	342	i 9	8	-	2	e 16	12	-	13	e 20.2	35.2
Budapest	+1.5	49.6	346	i 9	12	-	2	e 16	23	-	9	e 28.4	33.0
Simla	E. +1.5	49.6	48	e 9	15	+	1	e 16	33	+	1	e 23.6	26.4
	+1.5	49.6	48	e 9	33	+	19	e 16	33	+	1	e 23.7	27.2
Laibach	N. +1.5	49.7	342	e 9	15	+	1	e 16	28	-	6	—	33.4
Dehra Dun	+1.5	49.8	50	7	51	-	84	14	51	-	104	e 22.8	24.8
Venice	+1.5	50.1	340	e 9	24	+	7	i 17	1?	+	22	e 30.9	34.4
Graz	+1.5	50.3	344	i 9	15	-	4	i 16	40	-	1	e 22.4	34.4
Lemberg	E. +1.5	50.7	352	e 9	27	+	6	e 18	15	+	89	e 32.2	36.0
	+1.5	50.7	352	e 9	21	0	0	e 18	15	+	89	e 32.0	34.6
Tashkent	+1.5	50.8	33	i 9	23	+	1	i 16	46	-	2	e 23.2	32.4
Alicante	+1.5	50.9	324	e 8	52	-	30	i 16	16	-	33	e 24.0	33.0
Vienna	+1.5	51.0	345	e 9	20	-	3	i 16	49	-	1	—	36.0
Moncalieri	+1.6	51.4	335	i 9	25	-	1	i 16	52	-	4	e 24.4	34.6
Barcelona	+1.6	51.5	329	e 9	23	-	4	e 16	38	-	19	e 23.2	34.0
Innsbruck	+1.6	51.9	340	e 14	39	?	?	—	—	—	—	e 28.0	39.4
Almeria	+1.6	51.9	320	i 9	25	-	5	e 16	55	-	8	e 25.0	29.5
Tortosa	+1.6	52.0	327	e 9	30	0	0	i 17	4	0	0	e 22.6	37.8
Granada	+1.6	52.1	320	i 9	35	+	4	i 17	8	+	3	e 23.8	30.6
Chur	+1.6	52.2	338	e 9	32	0	0	e 17	12	+	6	—	—
Grenoble	+1.6	52.5	333	e 9	34	0	0	—	—	—	—	e 22.4	35.8
Malaga	+1.6	52.7	320	e 9	29	-	6	e 17	9	-	4	e 23.4	35.8
Ravensburg	+1.6	53.0	339	e 9	36	-	1	e 16	49	-	27	e 29.4	36.6
Zurich	+1.6	53.0	338	e 9	39	+	2	e 17	8	-	8	—	—
Neuchatel	+1.6	53.3	338	e 9	37	-	1	e 17	16	-	4	—	—
San Fernando	+1.6	53.5	318	e 9	43	+	3	e 17	25	+	3	e 26.1	37.1
Bagnères	+1.6	53.6	329	e 9	44	+	4	e 17	19	-	5	e 24.4	35.9
Besançon	+1.7	53.9	336	e 9	44	+	1	e 17	28	-	1	e 25.4	35.4
Hohenheim	+1.7	53.9	340	i 9	45	+	2	e 17	5	-	24	e 27.4	37.9
Toledo	+1.7	54.0	323	e 9	44	0	0	e 17	24	-	6	e 23.4	29.4
Puy de Dôme	+1.7	54.1	333	i 9	20	-	25	e 17	14	-	17	e 23.4	33.4
Strasbourg	+1.7	54.3	339	i 9	45	-	1	e 17	28	-	6	e 28.4	35.7
Rio Tinto	+1.7	54.7	320	6	27?	?	?	—	—	—	—	—	35.4
Jena	E. +1.7	54.8	342	i 9	51	+	2	—	—	—	—	e 30.4	38.4
	N. +1.7	54.8	342	i 9	57	+	8	—	—	—	—	e 29.4	38.0
	Z. +1.7	54.8	342	e 9	48	-	1	—	—	—	—	e 32.4	40.0
Feldberg	E. +1.7	55.3	340	e 9	53	+	1	—	—	—	—	—	39.0
Potsdam	+1.7	55.3	345	e 9	59	+	7	e 17	40	-	6	e 29.0	39.4
Calcutta	N. +1.7	55.4	63	10	15	+	22	e 18	4	+	17	e 25.2	—
Kucino	+1.7	55.6	2	9	58	+	4	e 17	54	+	4	e 26.6	35.4
Konigsberg	E. +1.7	56.1	350	e 9	17	-	41	e 17	59	+	3	e 25.6	38.4
Paris	+1.7	56.6	335	i 10	4	+	3	i 18	8	+	5	e 25.4	26.4
Uccle	+1.7	57.4	338	e 10	8	+	2	i 18	17	+	5	e 24.4	39.2
Hamburg	+1.7	57.7	344	e 10	9	+	1	—	—	—	—	e 31.4	40.2
De Bilt	+1.7	58.0	340	10	16	+	6	—	—	—	—	e 27.4	40.9
Lund	+1.7	58.6	345	10	19	+	5	e 18	13	-	14	e 22.6	—
Copenhagen	+1.8	58.8	347	10	20	+	4	e 18	19	-	12	e 27.4	35.4
Kew	+1.8	59.8	335	e 10	28	+	5	i 18	51	+	8	e 27.4	38.6
Pulkovo	+1.8	59.8	358	e 10	24	+	1	e 18	34	-	9	e 29.4	40.8
Ekaterinburg	+1.8	60.0	15	i 10	27	+	3	i 18	37	-	9	e 25.4	35.4
Oxford	+1.8	60.5	335	i 10	34	+	7	i 18	54	+	2	e 25.4	37.2
Heisingfors	+1.8	60.6	355	i 10	33	+	5	e 18	46	-	7	e 28.4	—
Upsala	+1.8	61.4	351	e 10	36	+	3	e 18	58	-	5	e 29.4	42.2
Stonyhurst	+1.8	62.4	336	e 10	51	+	12	e 19	21	+	6	e 27.4	38.4
Edinburgh	+1.9	64.2	339	—	—	—	—	i 19	45	+	7	e 29.4	44.0
Dyce	+1.9	64.7	340	11	0	+	5	i 19	37	-	8	e 25.0	45.1
Bergen	+1.9	64.8	346	10	59	+	3	—	—	—	—	e 40.4	—
Batavia	+2.0	70.7	97	i 11	38	+	4	e 20	42	-	16	e 29.4	—
Phu-Lien	+2.0	71.6	70	i 11	44	+	4	e 21	11	+	2	e 33.4	45.1
Irukak	+2.0	76.7	36	i 12	13	+	2	e 22	7	-	1	e 26.6	44.6
Hong Kong	+2.1	78.8	69	e 12	29	+	5	e 22	46	+	12	e 38.6	41.0
Rio de Janeiro	N. +2.1	80.4	247	e 12	27	-	6	—	—	—	—	—	41.0
Perth	+2.1	81.3	123	e 13	42	+	64	e 23	2	+	1	e 35.9	—
Manila	E. +2.1	84.9	75	e 12	59	0	0	i 23	35	-	6	e 46.1	48.4
	N. +2.1	84.9	75	e 13	2	+	3	i 23	35	-	6	e 46.4	50.3
Zi-ka-wei	+2.1	85.8	59	e 13	5	+	1	i 23	53	+	2	e 47.8	53.9
La Plata	+2.2	93.5	235	e 24	37	?	?	31	17	?	?	e 40.4	—
Sumoto	+2.2	97.0	56	e 32	10	?	?	—	—	—	—	i 52.8	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	m. s.	m. s.	m. s.	m. s.	m. s.	m. s.	
Osaka	+2.2	97.6	55	e 15	9	+59	27 8	+74	52.1	61.8
Adelaide	+2.2	100.2	125	—	—	—	i 29 37	+198	e 45.7	59.3
Sucre	+2.2	100.9	251	e 14	22	-4	i 26 11	-14	45.4	57.3
La Paz	—	103.8	253	e 18	1	[+1]	i 28 5	2PS	49.6	60.6
Ottawa	—	105.1	317	i 18	49	[+44]	—	—	i 43.9	60.4
Ithaca	—	106.4	315	—	—	—	—	—	52.4	—
Georgetown	Z.	107.8	310	e 14	49	+2	27 49	+4	e 50.7	67.0
Toronto	—	108.1	316	—	—	—	25 39	[+37]	e 46.6	55.0
Riverview	—	110.6	127	e 19	9	[+45]	—	—	e 52.6	60.5
Cincinnati	—	113.2	314	e 19	15	[+43]	—	—	e 46.4	53.4
Chicago	—	114.4	316	e 20	12	2PR ₁	—	—	e 49.0	55.4
St. Louis	E.	117.5	314	e 15	59	+27	—	—	e 46.6	53.4
	N.	117.5	314	e 15	59	+27	—	—	e 46.8	54.4
Wellington	E.	124.4	142	—	—	—	i 26 35	[+37]	e 38.9	62.8
	N.	124.4	142	e 21	17	2PR ₁	e 26 34	[+36]	e 53.6	68.9
Denver	E.	126.7	322	—	—	—	—	—	e 61.4	74.3
Victoria	N.	128.3	342	21	47	2PR	33 37	?	59.1	80.1
Tucson	—	135.1	319	19	57	[+27]	—	—	67.3	—
Berkeley	—	137.1	334	e 22	34	2PR ₁	—	—	e 65.5	—
Honolulu T.H. E.	—	154.5	32	e 74	17	2L	—	—	78.1	—

Additional readings : Tananarive PR₁ = +5m.41s., PR₂ = +5m.53s., i = +7m.59s., e = +8m.32s., SR₁ = +10m.29s. Ksara PR₁N = +8m.23s., SR₁N = +16m.5s.; T₀ = 19h.31m.15s. Colombo iS = +14m.21s. Rocca di Papa iP = +8m.51s. Belgrade PR₁E = +10m.58s. Algiers PR₁ = +10m.48s. Florence PR₁ = +11m.22s., PR₂ = +11m.57s., PR₃ = +13m.2s., PS = +17m.17s., SR₁ = +21m.57s. = SR₂ + 15s., SR₂ = +23m.27s. Zagreb iPR₁ = +11m.3s. Budapest MN = +38.4m. Graz iP = +11m.25s. = PR₁ - 9s., and +12m.34s. = PR₂ + 9s., MN = +36.3m. Alicante MZ = +33.1m. Vienna PR₁? = +13m.42s. = PR₂ + 44s., S = +19m.43s. (true S is given as iE), PPS = +21m.5s., SR₁ = +25m.42s., MNZ = +37.0m. Moncalieri MN = +33.4m. Barcelona MN = +32.0m. Almeria PR₁ = +11m.30s., MNZ = +33.0m.; epicentre 0°5'S. 36°5'E. Tortosa MN = +36.0m. Granada P₂P = +10m.48s., PR₁ = +11m.45s., i = +12m.11s., PR₂ = +13m.13s., PS = +17m.17s., MZ = +29.7m., MN = +30.2m. Malaga MZ = +34.0m., MN = +36.2m. San Fernando SR₁ = +21m.44s. Hohenheim PR₁ = +11m.57s., PR₂ = +12m.41s., SR₁ = +21m.7s., MN = +39.5m. Toledo iPNW = +9m.47s. iSNE = +17m.31s., MNW = +33.8m., MZ = +35.1m.; epicentre 0°5'S. 36°5'E. Puy de Dôme MN = +38.5m. Strasbourg MN = +38.4m., MZ = +40.0m. Jena iPZ = +9m.52s., iPE = +10m.0s., eE = +11m.51s. = PR₁ - 30s., eZ = +11m.55s. = PR₁ - 26s., eN = +11m.56s. = PR₁ - 25s., eN = +14m.48s., eE = +15m.3s., eN = +17m.1s., eEN = +26m.27s. Potsdam MN = +40.4m. Königsberg iP₂P₁E = +10m.5s., ePR₁iE = +12m.11s., iE = +19m.21s. = [S] - 3s. Paris MN = +32.4m. Ucele i = +10m.11s., PR₁ = +12m.17s., SR₁ = +22m.45s., MN = +37.9m. Hamburg MZ = +41.6m., MN = +46.0m. De Bilt PR₁Z = +12m.29s., MNZ = +40.7m.; epicentre 0°2'N. 36°2'E. Copenhagen PR₁ = +12m.35s., PR₂ = +13m.55s., PS = +19m.3s., eEN = +20m.16s. = E - 1s., SR₁ = +24m.27s. ?, MN = +33.6m. Kew eZ = +11m.11s., ePR₁Z = +12m.36s., eN = +18m.40s. = PS - 11s., SR₁EN = +23m.27s. ?, LZ = +33.4m., MN = +40.0m., MZ = +40.3m. Upsala MN = +43.4m. Dyce PR₁ = +13m.30s. Batavia iE = +11m.42s. and +12m.25s., i = +22m.48s. Phu-Lien eSR₁ = +29m.15s., MN = +41.2m. Hong Kong PR₁ = +15m.32s., SR₁ = +28m.35s. Rio de Janeiro ePE = +12m.37s., ME = +42.3m. Manila iPR₁N = +16m.0s., ePR₁E = +16m.10s. Zi-ka-wei PR₁ = +16m.40s. Sucre i = +18m.10s. = PE₁ - 24s., +29m.56s., and +38m.33s. = SR₂ + 17s., SR₂ = +36m.34s. La Paz P = +18m.38s. = PR₁ + 0s., PR₁ = +20m.50s., iPS = +29m.9s., SR₁ = +33m.50s., SR₂ = +38m.1s., LN = +50.0m., MN = +56.3m. Ottawa i = +25m.17s., iN = +26m.42s., iE = +28m.17s. = PS + 15s., e = +33m.57s. = SR₁ + 16s., MN = +53.2m. Georgetown iPR₁Z = +19m.15s. Riverview ePS₁? = +29m.21s., eSR₁? = +35m.30s., and +35m.55s., e = +45m.51s., MN = +61.6m. Cincinnati eN₁? = +20m.6s., eE = +25m.34s. = [S] + 11s., iE = +26m.0s., e = +26m.26s., i = +26m.45s. = E + 12s., and +29m.30s. = PS - 3s., eI = +30m.26s., iE = +30m.44s., e = +30m.57s., and +31m.34s. Chicago iN = +28m.0s. = S - 5s., iE = +29m.39s. = PS - 7s., eN = +35m.17s. = SR₁ - 21s., and +43m.9s., eE = +35m.57s. = SR₁ + 19s., LN = +49.4m. St. Louis iE = +16m.51s., e = +19m.21s., and +22m.49s., eE = +24m.21s., eN = +25m.6s. = [S] - 31s., e = +26m.40s. = E - 10s., eN = +27m.19s., e = +31m.54s., +33m.26s., +36m.56s., and +42m.30s., eN₁? = +41m.5s. Wellington iN = +38m.16s. = SR₁ + 34s. Tucson PR₁ = +23m.20s., PS = +31m.21s., LN = +56.2m., Honolulu T.H. LN₁? = +78.4m.

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Jan. 6d. Readings also at 2h. (Tashkent and near Lick), 6h. (Ekaterinburg, Irkutsk, and Tashkent), 19h. (near Tacubaya, Oaxaca, Vera Cruz, Guadalajara, Merida, and Puebla), 20h. (Ootomari), 21h. (near Zagreb), 23h. (Suva).

Jan. 7d. After-shocks from the earthquake of Jan. 6d.19h. were recorded at Entebbe at the following times:—

h.	m.	s.	h.	m.	s.	h.	m.	s.
7	55	20	11	50	40	19	43	20
8	27	52	13	43	20	20	16	55
9	31	29	13	53	35	22	52	50
10	18	22	18	11	0	23	52	50
11	11	52	18	34	43	23	58	52

Jan. 7d. Readings also at 0h. (Wellington), 1h. (near Manila), 2h. (Ekaterinburg and Tashkent), 5h. (near Amboina), 6h. 7h., and 12h. (Rocca di Papa), 16h. (Manila), 17h. (La Paz and Sucre), 18h. (Adelaide, Riverview, and near Toyooka), 19h. (Ekaterinburg and Tashkent (2)).

Jan. 8d. Continuation of the list of after-shocks from the epicentre of Jan. 6d. 19h., recorded at Entebbe:—

h.	m.	s.	h.	m.	s.	h.	m.	s.
14	31	40?	22	10	0	22	35	5
21	5	0	22	12	20	23	0	0

Jan. 8d. Readings also 0h. (Sucre and La Plata), 2h. (Ekaterinburg, Tashkent, Hong Kong, Phu-Lien, near Manila, near Mizusawa, near Tacubaya, near Berkeley, and Lick), 3h. (near Manila), 6h. (Ekaterinburg and Tashkent), 7h. (Santiago), 8h. (Zagreb), 9h. (Rocca di Papa and near Zagreb), 10h. (Rocca di Papa, Nagoya, near Mizusawa, and Toyooka), 15h. (near Granada and near Nagasaki), 18h. (near Toyooka), 20h. (Mostar, Zagreb, and near Port au Prince), 21h. (Suva).

Jan. 9d. 5h. 51m. 38s. Epicentre 34° 0N. 134° 8E. (as on 1927 Sept. 4d.).

$$A = -584, B = +588, C = +559.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sumoto	0.4	11	10 6	0	(10 11)	0	10.2	0.2
Kobe	0.7	25	0 11	0	(0 20)	0	0.3	0.3
Osaka	0.9	38	0 23	+ 9	—	—	0.6	1.4
Toyooka	1.6	0	10 27	+ 3	(10 46)	+ 1	10.8	0.8
Nagoya	2.1	57	0 35	+ 2	(0 58)	0	1.0	1.0

Osaka gives also MN = +1.5m.

Jan. 9d. Continuation of the list of after-shocks from the epicentre of Jan. 6d.19h. recorded at Entebbe.

3h.20m.22s. 6h.20m.52s. 8h.45m.20s.

Jan. 9d. Readings also at 1h. (near Tacubaya), 2h. (Cape Town and near Lick and Berkeley), 3h. (La Paz), 6h. and 8h. (near Toyooka), 13h. (Georgetown, Ottawa, St. Louis, Toronto, and Victoria), 14h. (Ekaterinburg and Irkutsk), 16h. (near Almeria and Granada), 17h. (Phu-Lien), 21h. (Ekaterinburg and Tashkent).

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Jan. 10d. 2h. 25m. 18s. Epicentre 0°·2N. 36°·2E. (as on Jan. 6d.).

A = +·807, B = +·591, C = +·003; D = +·591, E = -·807;
G = +·003, H = +·002, K = -1·000.

The height of focus 0·015 has been retained in the present shock.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m.	m.
Entebbe	-0·1	3·8	268	1 12	+14	—	—	—	—
Tananarive	+0·7	22·1	150	e 5 22	+ 7	e 9 32	+11	e 11·4	14·7
Helwan	+1·0	30·1	352	e 6 27	-12	11 25	-28	—	17·3
Bombay	+1·3	40·5	61	9 57	?PR ₁	14 17	-15	17·0	24·5
Kodaikanal	+1·3	42·2	76	14 42	?S	(14 42)	-13	23·6	27·7
Colombo	+1·4	44·0	82	4 15	?	14 31	-49	20·5	29·3
Rocca di Papa	+1·4	46·7	338	e 7 51	-64	e 15 44	-11	e 28·2	33·5
Algiers	+1·5	47·8	325	e 25 11	?L	27 31	?	28·0	28·7
Makeyevka	+1·5	47·9	3	—	—	e 15 56	-15	24·7	28·2
Florence	+1·5	49·0	338	e 16 24	?S	(e 16 24)	- 1	27·2	29·7
Zagreb	+1·5	49·0	342	e 8 59	-11	—	—	e 27·4	—
Budapest	+1·5	49·6	346	—	—	—	—	e 28·7	—
Graz	+1·5	50·3	344	—	—	—	—	e 27·7	30·5
Tashkent	+1·5	50·8	33	e 8 14	-68	i 16 41	- 7	24·7	30·7
Alicante	N. +1·5	50·9	324	—	—	—	—	e 27·9	—
Vienna	+1·5	51·0	345	e 9 16	- 7	—	—	—	33·7
Moncalieri	+1·6	51·4	335	7 57	-89	16 52	- 4	26·0	30·7
Barcelona	+1·6	51·5	329	—	—	e 26 58	?L	e 29·6	31·6
Almeria	+1·6	51·9	320	e 26 43	?L	—	—	(e 26·7)	32·7
Tortosa	E. +1·6	52·0	327	—	—	—	—	e 30·7	36·6
Granada	+1·6	52·1	320	(e 9 42?)	+11	—	—	e 26·1	33·7
Malaga	+1·6	52·7	320	e 16 46	?S	(e 16 46)	-27	30·5	34·0
San Fernando	+1·6	53·5	318	26 39	?L	28 44	?	30·7	35·3
Besançon	+1·7	53·9	336	—	—	—	—	30·7	—
Toledo	+1·7	54·0	323	e 9 39	- 5	e 17 23	- 7	e 27·3	30·6
Strasbourg	+1·7	54·3	339	—	—	—	—	27·7	—
Rio Tinto	+1·7	54·7	320	11 42?	?PR ₁	—	—	—	35·7
Jena	N. +1·7	54·8	342	—	—	—	—	e 30·7	—
Kucino	+1·7	55·6	2	—	—	—	—	24·7	—
Konigsberg	+1·7	56·1	350	—	—	—	—	e 34·7	35·7
Paris	+1·7	56·6	335	—	—	—	—	e 30·7	32·7
Uccle	+1·7	57·4	338	—	—	e 21 54	?	e 30·7	33·8
Hamburg	+1·7	57·7	344	—	—	—	—	e 33·7	—
De Bilt	+1·7	58·0	340	—	—	—	—	e 27·7	40·0
Copenhagen	+1·8	58·8	347	—	—	—	—	24·7	—
Kew	+1·8	59·8	335	—	—	—	—	e 27·7	39·0
Pulkovo	+1·8	59·8	358	e 10 27	+ 4	—	—	27·7	46·2
Ekaterinburg	+1·8	60·0	15	10 20	- 4	18 35	-11	26·7	36·3
Oxford	+1·8	60·5	335	—	—	—	—	—	40·7
Upsala	+1·8	61·4	351	—	—	—	—	e 35·7	44·6
Stonyhurst	+1·8	62·4	336	—	—	—	—	e 33·0	41·4
Irkutsk	+2·0	76·7	36	12 11	0	21 57	-11	34·7	49·4
La Plata	+2·2	93·5	235	—	—	—	—	46·0	—
Sucre	+2·2	100·9	251	—	—	—	—	47·7	60·5
La Paz	+2·2	103·8	253	—	—	—	—	55·8	58·6
Ottawa	—	105·1	317	—	—	e 28 6	?PS	e 47·7	—
Georgetown	Z. —	107·8	310	—	—	i 29 3	?PS	e 62·1	65·8
Toronto	N. —	108·1	316	—	—	—	—	53·4	—
St. Louis	E. —	117·5	314	—	—	—	—	e 36·7	61·7
Victoria	N. —	128·3	342	—	—	—	—	48·7	81·7

Additional readings: Tananarive MN = +12·7m. Rocca di Papa eP = +7m.11s., ePN = +7m.44s., iL = +31·5m. Algiers MN = +31·2m.
Florence S? = +20m.42s. = SR, +26s. Tashkent iPR₁ = +11m.7s.
Alicante eZ = +33m.16s. Barcelona MN = +33·1m. Almeria MN = +33·3m.
Tortosa eLN = +31·7m. Granada i = +28m.43s. and +29m.35s., P is given as an independent eL. Malaga S = +28m.43s.
Toledo MNWZ = +34·9m. Paris MN = +36·5m. Uccle MN = +37·6m.
De Bilt MNZ = +40·7m. Kew eLZ = +32·7m., MN = +40·0m., MZ = +40·2m.
Ottawa e = +37m.0s. Georgetown eZ? = +23m.59s. = [S] - 61s., eZ = +30m.41s. St. Louis MN = +57·7m.

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Jan. 10d. 3h. 32m. 22s. Epicentre 35°·7N. 134°·8E. (as on 1927 Nov. 11d.).

A = -·572, B = +·576, C = +·584.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Toyooka	0·2	175	i 0 4	0	(i 0 7)	+ 1	i 0·1	—
Kobe	1·1	163	0 15	- 2	(0 26)	- 5	0·4	0·5
Osaka	1·2	154	0 26	+ 8	(0 37)	+ 4	0·6	1·4
Sumoto	1·4	177	0 20	- 1	(0 34)	- 5	0·6	0·6
Nagoya	1·8	107	i 0 26	- 2	(0 48)	- 3	0·8	0·8
Hukuoka	4·3	240	e 1 17	+10	—	—	2·3	—

Osaka gives also MN = +1·5m.

Jan. 10d. 5h. 9m. 30s. Epicentre 22°·0S. 179°·0E. (as on 1924 May 4d.).

A = -·927, B = +·016, C = -·375; D = +·017, E = +1·000;
G = +·375, H = -·007, K = -·927.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	E. 3·9	349	i 1 0	- 1	i 1 54	+ 7	—	—
	N. 3·9	349	i 1 12	+11	i 2 0	+13	—	—
Apia	12·0	49	—	—	—	—	e 6·5	8·5
Riverview	27·2	238	e 7 36	?	—	—	e 13·0	15·0
Sydney	27·2	238	—	—	10 42	- 3	14·3	15·8
Adelaide	37·5	241	8 42?	+68	e 13 12	-19	e 15·7	21·9
Perth	56·4	246	e 17 40	?S	(e 17 40)	+ 1	—	28·7
Batavia	71·2	272	e 12 30?	+66	i 20 27	-13	—	—
Irkutsk	98·4	324	—	—	—	—	47·5	—
Toronto	N. 113·2	51	—	—	—	—	62·5	—
Georgetown	Z. 114·1	55	—	—	—	—	e 56·8	—
Ottawa	116·0	48	—	—	—	—	e 52·5	—
Tashkent	118·8	306	e 20 0	?PR ₁	—	—	—	63·6
Ekaterinburg	123·7	325	—	—	—	—	60·5	—
San Fernando	E. 164·9	16	—	—	—	—	—	98·5

Additional readings: Riverview MN = +14·6m. Adelaide MN = +21·6m.
Georgetown eLZ = +62·5m.

Jan. 10d. Readings also at 0h. (Suva), 2h. (Suva and near Tacubaya), 3h. and 4h. (Suva), 5h. (Suva (2) and near Merida), 6h. and 7h. (2) (Suva), 8h. (Toyooka), 9h. (Suva), 16h. (San Juan), 17h. (Georgetown, Ottawa, and Toronto), 19h. (La Plata and near Toyooka), 20h. (Suva).

Jan. 11d. Continuation of the list of after-shocks from the epicentre of Jan. 6d. 19h. recorded at Entebbe:—

h. m. s.	h. m. s.
9 43 20	21 6 40

Jan. 11d. Readings also at 1h. (La Paz), 7h. and 8h. (3) (Bombay), 9h. (Tananarive and Tucson), 12h. (Tananarive), 13h. (near Mizusawa), 15h. (near Hukuoka and Nagasaki), 16h. (near Sumoto), 19h. (Suva), 22h. (Tananarive), 23h. (Riverview).

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Jan. 12d. 13h. 6m. 39s. Epicentre 29°-5S. 71°-0W. (as on 1926 Dec. 9d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago	4.0	176	1 1	- 1	1 47	- 3	2.0	—
Sucre	11.7	28	13 1	+ 6	15 9	- 3	6.4	7.8
La Plata	12.3	119	13 2	- 1	5 25	- 1	6.8	—
La Paz	E. 13.3	12	—	—	15 52	+ 1	7.5	8.6
	N. 13.3	12	13 18	+ 1	15 50	- 1	7.6	8.8
Rio de Janeiro	E. 25.8	82	e 5 39	- 7	10 13	- 5	12.8	17.0
	N. 25.8	82	e 5 34	- 12	10 14	- 4	13.0	16.8
Georgetown	Z. 68.6	356	i 11 5	- 3	20 9	0	e 30.7	44.5
St. Louis	70.4	346	i 11 20	+ 1	20 28	- 3	e 37.4	40.4
Tucson	72.4	326	11 25	- 7	20 43	- 12	37.8	—
Toronto	N. 73.5	355	—	—	i 21 0	- 8	46.4	—
Ottawa	74.9	358	—	—	i 21 17	- 8	e 30.4	—
Wellington	E. 86.7	224	—	—	e 23 8	[+ 1]	e 40.0	—
	N. 86.7	224	—	—	e 23 12	[+ 5]	e 40.9	—
San Fernando	E. 89.6	47	—	—	—	—	—	59.0
Rio Tinto	90.2	46	24 21?	?S	(24 21?)	+ 5	—	51.4
Victoria	N. 90.9	330	—	—	—	—	46.9	48.5
Granada	91.8	48	—	—	—	—	47.4	60.8
Almeria	92.4	48	—	—	—	—	48.4	54.2
Toledo	N.E. 93.1	46	—	—	—	—	e 52.7	55.4
	N.W. 93.1	46	—	—	—	—	e 44.2	56.3
Algiers	96.0	51	—	—	—	—	e 52.4	57.4
Tortosa	N. 96.5	47	—	—	—	—	e 49.4	60.4
Oxford	101.5	38	—	—	—	—	e 51.7	60.6
Entebbe	101.7	96	—	—	24 46	[+ 14]	—	61.4
Kew	101.9	38	—	—	—	—	e 52.4	61.2
Paris	102.0	41	—	—	—	—	e 54.4	57.4
Stonyhurst	102.1	35	—	—	—	—	e 54.4	61.4
Edinburgh	102.9	33	—	—	—	—	e 56.4	65.4
Moncalieri	103.2	46	e 21 53	?PR ₂	33 18	?SR ₁	46.5	62.4
Tananarive	E. 103.5	123	—	—	e 43 21?	[+ 1?]	e 52.4	58.4
Uccle	103.8	40	—	—	e 24 59	[+ 17]	e 46.4	61.2
Melbourne	104.8	210	—	—	i 24 46	[0]	48.8	53.8
Strasbourg	104.9	43	—	—	—	—	e 49.4	61.4
Rocca di Papa	104.9	51	—	—	—	—	e 51.2	64.8
Florence	104.9	49	e 27 51	?PS	—	—	48.4	59.0
De Bilt	105.1	39	—	—	—	—	e 52.4	60.6
Ravensburg	105.6	43	—	—	—	—	62.4	—
Feldberg	N. 106.1	41	—	—	e 32 21	?	e 57.2	61.4
Hamburg	108.4	38	—	—	—	—	e 60.4	65.4
Zagreb	108.8	48	—	—	—	—	e 59.0	—
Graz	109.0	45	—	—	—	—	e 58.4	64.7
Potsdam	109.5	40	—	—	—	—	61.4	—
Vienna	109.9	45	e 19 3	?PR ₁	—	—	—	67.8
Copenhagen	E. 110.5	36	—	—	e 26 21?	?S	e 56.4	65.5
Lund	110.9	37	—	—	29 3	?PS	—	—
Budapest	111.3	46	—	—	—	—	e 60.4	65.8
Helwan	114.0	70	—	—	—	—	—	70.5
Upsala	E. 114.5	34	—	—	—	—	e 63.4	71.6
Konigsberg	E. 114.6	40	—	—	—	—	e 66.0	66.4
Ksara	N. 119.0	65	—	—	—	—	e 68.4	—
Pulkovo	120.7	35	e 18 53	[- 1]	—	—	53.4	68.4
Makeyevka	123.8	50	—	—	e 30 50	?PS	60.4	—
Kucino	124.5	40	—	—	e 37 9	?SR ₁	53.4	—
Ekaterinburg	136.8	37	i 19 26	[- 8]	—	—	61.4	84.4
Colombo	144.5	124	19 40	[- 7]	—	—	—	81.2
Kodalkanal	144.9	117	78 9	?L	—	—	(78.2)	—
Bombay	145.6	98	—	—	—	—	e 73.4	—
Hyderabad	149.6	105	—	—	—	—	—	78.2
Irkutsk	156.9	8	i 20 0	[- 5]	—	—	—	98.6

Additional readings: Santiago PR₁ = +1m.21s. Georgetown SR₁Z = +25m.31s. St. Louis iN = +11m.21s., iEN = +11m.35s., eN = +20m.36s. eSR₁ = +25m.26s., eSR₂N = +28m.42s. Tucson LN = +37.2m. Toronto LE = +53.4m. Algiers MN = +54.8m. Kew MN = +61.5m. Paris MN = +60.4m. Tananarive eN = +53m.21s., MN = +57.4m. Uccle MN = +63.2m. Florence S? = +33m.41s. = SR₁ + 2s. De Bilt MZ = +60.9m., MN = +61.8m. Hamburg MN = +63.4m. Copenhagen eN = +28m.33s., ePSZ = +29m.3s., eSR₂N = +35m.21s.?, eLNZ = +58.4m., MN = +67.8m. Budapest MN = +73.1m. Upsala MN = +69.6m. Pulkovo e = +30m.9s. and +36m.28s. = SR₁ - 27s. Ekaterinburg iPR₁ = +22m.8s., eS₁P₁C₁S = +29m.11s. = +17s. Irkutsk i = +24m.7s. = PR₁ - 12s., e = +29m.56s.

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Jan. 12d. Readings also at 2h. (near Toyooka), 9h. (Sucre and near La Paz), 10h. (Alicante), 11h. (Tucson), 12h. (near Bombay), 13h. (Entebbe), 18h. (Rocca di Papa and near Mizusawa), 19h. (Sucre and near La Paz), 20h. (Entebbe), 23h. (Bombay and Hyderabad).

Jan. 13d. Readings at 1h. (Rocca di Papa), 5h. (near Zagreb), 7h. (near Lick and near La Paz), 8h. (La Plata, Sucre, and near Santiago), 11h. (Alicante), 13h. (near Sumoto), 15h. (near Kobe and Sumoto), 20h. (near Toyooka), 23h. (Suva).

Jan. 14d. 0h. 17m. 6s. Epicentre 51°0N. 6°0E. (as on 1926 Jan. 5d.).

A = +.626, B = +.066, C = +.777; D = +.105, E = -.995;
G = +.773, H = +.081, K = -.629.

This origin lies in the west of Germany, on the borders of the Belgian state of Limberg, as given by the macro-seismic evidence quoted by De Bilt.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Uccle	1.1	259	1 0 48	+31	0 58	+27	—	—
De Bilt	1.2	336	—	—	—	—	e 1.5	—
Strasbourg	2.7	155	0 37	-5	1 10	-4	—	—
Paris	3.1	226	e 0 31	-18	e 1 29	+3	2.0	—
Jena	E. 3.5	90	—	—	e 1 42	+5	i 2.4	2.5
Besançon	3.8	179	—	—	—	—	e 2.2	—
Zurich	N. 4.0	155	e 1 27	+25	e 2 21	+31	—	—
Neuchatel	N. 4.0	171	e 1 19	+17	e 2 6	+16	—	—
Kew	N. 4.0	279	—	—	—	—	e 2.1	—
Chur	4.8	150	—	—	—	—	e 2.9	—

Additional readings: Strasbourg P = +45s., PR₁ = +48s., PR₂ = +56s., and +1m.0s. Jena eE = +2m.17s. Neuchatel eP = +1m.30s., eS = +2m.21s. Kew eE = +2m.36s.

Jan. 14d. 12h. 58m. 16s. Epicentre 29°0S. 71°0W. (as on 1927 Feb. 28d.).

A = +.285, B = -.827, C = -.485; D = -.946, E = -.326;
G = -.158, H = +.458, K = -.875.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago	4.5	177	1 16	+6	2 28	+24	2.8	—
Sucre	11.3	29	i 2 44	-5	i 4 42	-20	5.4	6.6
La Plata	12.6	121	i 3 11	+4	5 30	-4	6.2	—
La Paz	12.8	13	i 3 6	-4	i 5 43	+4	6.4	7.4

La Paz gives also LN = +6.7m.

Jan. 14d. Readings also at 1h. (Suva and near Nagasaki), 3h. (near Tashkent), 4h. (Kew), 10h. (near Granada), 13h. (Ekaterinburg), 18h. (near Mizusawa), 19h. (near Tacubaya), 21h. (Bombay and Santiago).

Jan. 15d. 2h. 55m. 18s. Epicentre 4°8N. 96°8E. (as on 1925 Mar. 19d.).

A = -.118, B = +.989, C = +.084; D = +.993, E = +.118;
G = -.010, H = +.083, K = -.996.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	14.9	138	3 23	-15	e 5 55	-35	—	—
Phu-Lien	18.6	30	4 30	+6	e 8 2	+9	—	—
Hyderabad	22.0	306	5 7	+2	9 7	+2	—	—
Hong Kong	24.3	42	5 24	-7	—	—	—	10.6
Bombay	27.3	303	6 34	+33	10 34	-12	12.7	12.8
Tashkent	44.1	330	i 8 13	-14	i 14 42	-21	—	26.5
Ekaterinburg	59.3	339	i 10 9	+2	i 18 11	-4	e 24.7	—
Kucino	68.9	330	—	—	—	—	e 28.3	—
Zagreb	80.1	316	e 12 25	+5	—	—	—	—
La Paz	161.2	231	e 20 9	[0]	—	—	—	—

No additional readings.

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Jan. 15d. Readings also at 0h. (near Sumoto and near Wellington), 6h. (La Paz), 8h. (near Tashkent), 11h. (La Plata and near Tacubaya), 13h. (near Toyooka), 14h. (La Paz), 17h. (near Tacubaya), 20h. (Barcelona and near Tacubaya), 22h. (near Berkeley).

Jan. 16d. 4h. 8m. 12s. Epicentre $36^{\circ}5N$, $140^{\circ}5E$. (as on 1928 Jan. 1d.).

A = -0.620, B = +0.511, C = +0.595; D = +0.636, E = +0.772;
G = -0.459, H = +0.378, K = -0.804.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	2.6	10	0 46	+ 5	1 19	+ 7	—	—
Nagoya		3.2	245	e 0 39	-11	(1 14)	-14	1.2	1.6
Osaka		4.5	248	1 30	+20	—	—	2.4	3.1
Kobe		4.7	249	1 14	+1	(2 5)	- 4	2.1	2.2
Sumoto		5.1	246	e 1 41	+22	(2 15)	- 5	2.2	2.5
Irkutsk		29.8	313	—	—	—	—	e 27.8	—
Tashkent		54.1	299	—	—	—	—	e 41.8	52.0
Makeyevka		71.0	316	—	—	—	—	39.8	—

Additional readings: Mizusawa SN = +1m.30s. = S + 18s. Osaka MN = +2.9m. Tashkent e = 4h.2m.31s., i = 4h.3m.13s.

Jan. 16d. Readings also at 0h., 1h., and 2h. (near Nagasaki), 3h. (La Paz, Sucre, and Tacubaya), 4h. (La Plata, near La Paz, and near Tashkent), 5h. (Bagnères, Toledo, and near Tortosa), 10h. (La Paz, La Plata, and near Santiago), 12h. (La Paz), 20h. (Almeria and La Plata), 21h. (near Suva and near Tashkent).

Jan. 17d. 0h. 47m. 45s. Epicentre $1^{\circ}5S$, $93^{\circ}5E$. (as on 1925 Sept. 20d.).

A = -0.061, B = +0.998, C = -0.026; D = +0.998, E = +0.061;
G = +0.002, H = -0.026, K = -1.000.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien		25.7	29	2 15?	?	—	—	—	—
Hong Kong		31.2	41	—	—	—	—	—	19.1
Tashkent		48.1	337	i 8 54	- 1	i 15 51	- 4	27.2	37.6
Irkutsk		54.5	10	—	—	—	—	27.2	—
Baku		57.7	323	—	—	—	—	e 36.2	—
Ekaterinburg		64.0	343	e 10 42	+ 4	—	—	34.8	—

Ekaterinburg gives also e = +10m.50s.

Jan. 17d. Readings also at 2h. (near Tacubaya, Manzanillo, and Guadalajara), 3h. (near Tacubaya), 8h. (Baku, Ekaterinburg, Makeyevka, Tashkent, Uccle, Kew, and San Fernando), 13h. (La Paz), 17h. (Mizusawa and near Malabar), 18h. (near Sumoto), 20h. (Suva), 21h. (Sucre and near La Paz), 23h. (Sydney).

Jan. 18d. 12h. 22m. 12s. Epicentre $14^{\circ}0S$, $77^{\circ}0W$.

A = +0.218, B = -0.945, C = -0.242; D = -0.974, E = -0.225;
G = -0.054, H = +0.236, K = -0.970.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	E.	8.9	107	i 2 24	+ 9	i 4 17	+16	5.1	6.0
	N.	8.9	107	i 2 23	+ 8	i 4 14	+13	5.1	6.2
Sucre		12.3	115	e 3 0	- 3	i 5 53	+32	7.1	8.4
La Plata		27.1	144	5 57	- 2	10 31	-12	13.5	—
St. Louis		54.0	348	e 9 31	- 2	i 17 4	- 5	e 28.8	36.0
Tucson	E.	56.5	328	10 16	+27	17 48	+ 8	29.5	—
	N.	56.5	328	10 16	+27	17 38	- 2	29.6	—
Toronto	N.	57.7	358	—	—	—	—	e 29.8	—
Ottawa		59.4	1	—	—	e 18 0	-16	e 25.8	—
Victoria	N.	74.7	330	21 20	i 8	(21 20)	- 2	40.1	40.8
Granada		85.7	50	—	—	—	—	e 47.8	53.8

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.	min.
Toledo	86.4	47	—	—	—	—	e 42.5	49.7
Stonyhurst	92.5	36	—	—	—	—	e 48.8	—
Edinburgh	92.8	32	—	—	—	—	e 49.8	—
Kew	92.9	38	—	—	—	—	e 46.8	—
Almeria	93.5	50	—	—	—	—	—	48.8
Wellington	E. 93.9	226	—	—	—	—	i 45.7	—
Uccle	95.5	40	—	—	e 25 25	+14	e 48.8	—
De Bilt	E. 96.3	39	—	—	—	—	e 48.8	52.2
Strasbourg	97.0	42	—	—	—	—	e 45.8	—
Feldberg	N. 97.9	40	—	—	—	—	e 55.8	—
Florence	98.4	47	—	—	e 23 18	[-57]	48.8	51.8
Copenhagen	101.3	35	—	—	—	—	37.8	—
Entebbe	108.9	92	—	—	—	—	—	61.8
Pulkovo	110.8	30	—	—	e 29 12	?PS	56.8	—
Kucino	115.5	34	—	—	e 29 42	?PS	59.1	—
Makeyevka	117.0	41	—	—	—	—	e 58.8	—
Ekaterinburg	126.5	26	—	—	i 21 18	?PR ₁	55.8	71.5
Baku	126.9	48	—	—	—	—	57.3	—
Tashkent	140.0	40	e 19 37	[- 2]	—	—	e 62.8	80.7

Additional readings: La Paz iN = +4m.48s. and +5m.18s. St. Louis
 iPSE = +17m.14s., iPSN = +17m.15s., i = +17m.57s., +19m.12s. = [S]
 +4s. and +19m.21s.; readings have all been diminished by 1h. Toronto
 LN = +34.8m. De Bilt eLN = +40.8m., MZ = +52.0m. Kucino e =
 +35m.48s. = SR₁ -3s., and +41m.6s. = SR₁ -9s. Ekaterinburg e =
 +38m.0s. = SR₁ -2s. Tashkent i = +22m.32s. = PR₁ -2s., e =
 +35m.24s., and +58m.36s.

Jan. 18d. Readings also at 0h. (Florence, Batavia, and Suva), 2h. (Baku, Ekaterinburg, and La Paz (2)), 3h. (Honolulu, T.H.), 5h. (near Ksara), 6h. (Zi-ka-wei), 7h. (near Manila), 9h. (La Plata and near Malabar), 11h. (near Granada, San Fernando, and near Tacubaya), 13h. (La Paz, Mizusawa and Nagoya), 17h. (Wellington), 18h. (near Suva), 20h. (Suva and near Sumoto), 21h. (Suva), 23h. (Tashkent).

Jan. 19d. 22h. 45m. 54s. Epicentre 22°5S. 173°5W. (as on 1927 May 21d.).

A = -.918, B = -.104, C = -.383; D = -.113, E = +.994;
 G = +.381, H = +.043, K = -.924.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	min.
Suva	E. 8.8	299	i 2 24	+11	—	—	—	4.1
	N. 8.8	299	e 2 12	-1	—	—	—	3.1
Apia	8.9	11	5 48	?L	—	—	6.9	7.3
Wellington	E. 21.2	205	14 51	-4	18 44	-4	i 10.3	12.2
	N. 21.2	205	14 52	-3	18 34	-14	i 10.0	13.8
Christchurch	23.9	205	—	—	10 52	+70	e 43.7	—
Riverview	33.0	242	e 9 12	?	e 12 30	+6	e 13.5	17.6
Melbourne	38.6	237	18 6	+23	1 12 41	-65	e 18.4	24.1
Adelaide	43.4	242	—	—	1 16 51	?SR ₁	19.9	27.8
Honolulu T.H.	46.4	20	—	—	—	—	e 23.1	23.4
Perth	62.5	244	18 11?	?S	(18 11?)	-44	e 29.1	32.6
La Plata	96.2	132	—	—	—	—	—	47.9
Irkutsk	103.1	322	—	—	—	—	52.6	91.4
Ottawa	N. 111.1	48	—	—	—	—	e 49.1	—
Tashkent	124.8	306	e 20 48	?PR ₁	—	—	60.8	69.1
Ekaterinburg	128.0	326	—	—	e 34 15	?	53.1	86.9
Pulkovo	139.2	342	—	—	e 44 18	?SR ₁	69.1	—
Baku	139.4	307	e 23 59	?	—	—	63.1	86.0
Makeyevka	144.2	323	—	—	—	—	e 79.1	102.3
Copenhagen	146.5	355	—	—	—	—	75.1	—
De Bilt	N. 150.4	1	—	—	—	—	e 73.1	—
Kew	150.6	9	—	—	—	—	e 74.1	—
Uccle	151.7	3	—	—	—	—	e 74.1	—
San Fernando	162.2	35	82 41	?L	—	—	(82.7)	91.6

Additional readings: Christchurch SR₁? = +12m.16s. Riverview MN =
 +17.3m. Melbourne i = +15m.41s. = SR₁ -35s. (time marks were missing)
 Adelaide MN = +22.9m. Honolulu T.H. MN = +25.1m. Perth eS =
 +24m.56s. Tashkent e = +26m.6s. = [S] +8s., +30m.6s., and +40m.6s.
 Ekaterinburg e = +38m.48s. = SR₁ +22s. Baku e = +33m.49s. and
 +41m.54s. Makeyevka L = +84.1m. De Bilt eLE = +89.1m. Uccle
 eL = +88.1m.

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Jan. 19d. Readings also at 3h. (Wellington), 5h. (near Tashkent), 6h. (Ksara), 11h. (Manila), 13h. (Suva and near Toyooka), 18h. (Ksara), 19h. (La Paz), 21h. (Rocca di Papa and near Nagasaki), 22h. (Suva).

Jan. 20d. 4h. 10m. 36s. Epicentre 29°·0N. 115°·0W. (as on 1927 Jan. 1d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tucson	N.	4·9	46	e 1 18	+ 2	12 6	- 8	i 2·4
Chihuahua		7·8	90	3 24	±S	(3 24)	- 7	4·7
Berkeley	E.	10·8	327	—	—	—	—	e 6·2
Tacubaya		17·3	120	4 2	- 7	(7 38)	+13	7·6
Victoria	N.	20·4	344	—	—	—	—	12·1
St. Louis	N.	22·6	58	i 5 9	- 3	i 9 11	- 6	i 11·5
Chicago	E.	25·6	53	—	—	—	—	i 12·9
Cincinnati		27·0	60	—	—	—	—	e 14·1
Toronto	N.	31·9	53	—	—	—	—	i 16·6
Ithaca		33·6	56	—	—	—	—	e 17·2
Ottawa		34·9	51	—	—	—	—	e 16·6
Harvard	N.	37·6	58	—	—	—	—	i 19·4
Copenhagen		84·2	27	—	—	—	—	47·4

Additional readings: Tucson iP = +1m.23s., i = +1m.27s., iN = +1m.42s.
Berkeley eNZ = +6m.19s. Chicago iE = +13m.41s. Cincinnati eN = +13m.14s., iEN = +13m.46s. Toronto ME = +18·0m. Ottawa MN = +19·2m. Harvard iN = +20m.12s., ME = +23·4m.

Jan. 20d. Readings also at 5h. (near Tucson), 6h. (Phu-Lien, Hong-Kong, Mizusawa, Manila, Ekaterinburg, and Tashkent), 7h. (Pulkovo, Irkutsk, and near Wellington), 10h. (Apia, Manila, Melbourne, Riverview, Suva, Wellington, San Fernando, near Nagasaki, and Hukuoka), 12h. (Baku, Ekaterinburg, Tashkent, Riverview, Suva, and Wellington), 13h. (Ksara and near Tucson), 14h. (near Tacubaya), 16h. (near Mizusawa), 18h. (La Paz, near Algiers, and near Manila), 19h. (near Sumoto), 21h. (Perth), 22h. (near Toyooka), 23h. (Baku and Ekaterinburg).

Jan. 21d. 1h. 23m. 42s. Epicentre 43°·9N. 9°·5E. (as on 1927 Nov. 20d.).

A = +·711, B = +·119, C = +·693.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Florence		1·3	95	0 18	- 2	—	—	1·0
Moncalieri		1·7	311	(0 29)	+ 3	(0 47)	- 1	—
Chur		2·9	0	(e 1 5)	+20	—	—	—
Zurich		3·6	350	e 0 55	- 1	i 1 45	+ 6	—
Neuchatel	N.	3·6	331	e 0 48	- 8	e 1 28	-11	—
Zagreb		5·0	65	—	—	e 2 33	+16	e 2·8

Additional readings and notes: Moncalieri readings have been increased by 1h. Chur reading has been increased by 8m. Neuchatel eP = +59s. = P + 3s. Zagreb e = +2m.58s.; all readings are given as e simply.

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Jan. 21d. 15h. 4m. 50s. Epicentre 36°·5N. 70°·5E. (as on 1927 April 24d.).

A = +·263, B = +·758, C = +·595; D = +·943, E = -·334;
G = +·199, H = +·561, K = -·804.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	4·9	350	i 1 28	+12	i 2 4	-10	—	—
Simla	7·7	132	2 4	+ 7	(3 10)	-19	3·2	—
Baku	16·6	290	e 4 4	+ 4	i 7 32	+23	—	—
Bombay	17·7	173	(4 15)	+ 2	(7 39)	+ 6	7·6	—
Calcutta	20·8	127	5 18	+27	8 38	- 2	—	—
Ekaterinburg N.	21·4	345	i 5 0	+ 2	8 52	- 1	—	—
Vienna Z.	40·8	307	e 8 15	+14	—	—	—	—
Zagreb	41·3	301	e 9 22	?PR ₁	—	—	—	—
Florence	44·9	299	e 7 25	-67	—	—	—	—

Additional readings and note: Simla PN = +1m.58s. Bombay gives P as S and S as L, also P = 15h.4m.21s.

Jan. 21d. Readings also at 0h. (Florence and Moncalieri (2)), 4h. (Suva, Zagreb, and near Lick), 7h. (near Merida), 9h. (Wellington and near Sumoto), 10h. (Tashkent), 15h. (Ksara and Tashkent), 16h. (Entebbe and Irkutsk), 23h. (Hohenheim).

Jan. 22d. 0h. 18m. 15s. Epicentre 38°·5N. 22°·5E. (as on 1927 Feb. 17d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Trente	4·8	281	1 35	+21	3 25	?L	(3·4)	—
Belgrade E.	6·4	348	e 0 28	-70	e 2 3	-52	—	—
N.	6·4	348	e 0 38	-60	e 2 2	-53	—	—
Pompeii	6·5	293	e 2 28	?S	(e 2 28)	-29	—	4·5
Naples	6·8	293	e 1 46	+ 2	—	—	—	—
Rocca di Papa	8·1	296	i 2 6	+ 3	e 3 48	+ 8	e 5·0	5·8
Zagreb	8·7	329	e 2 15	+ 3	e 3 57	+ 1	e 5·0	6·0
Budapest	9·3	346	e 3 5	+45	5 45?	?L	(5·8)	9·4
Florence	9·9	306	e 5 27	?L	6 34	?	(e 5·4)	7·5
Graz	10·0	331	i 2 30	0	i 5 40	?L	(i 5·7)	6·5
Venice	10·2	316	5 19	?L	—	—	(5·3)	8·2
Vienna	10·7	338	e 2 29	-11	6 5	?L	(6·1)	7·8
Ksara	11·8	109	e 3 0	+ 4	e 5 0	-14	—	—
Chur	12·6	315	e 3 10	+ 3	6 41	?L	(6·7)	—
Moncalieri	12·8	305	i 2 32	-38	5 22	-17	8·3	9·7
Zurich	12·8	305	e 2 18	-52	4 7	?	7·2	9·8
Neuchatel	13·4	316	e 3 21	+ 3	i 5 59	+ 6	—	—
Jena	14·1	312	e 3 28	+ 1	e 6 6	- 4	—	—
Strasbourg	14·5	332	—	—	—	—	e 7·8	8·4
N.	14·6	318	e 3 24	-10	e 6 28	+ 6	e 7·8	—
Feldberg	15·3	324	—	—	—	—	—	40·4
Uccle	17·7	320	—	—	—	—	e 9·8	12·1
De Bilt	18·1	324	—	—	—	—	e 9·8	12·5
Copenhagen	18·4	342	—	—	—	—	—	9·7
Kucino	20·1	36	—	—	—	—	e 10·0	—
Pulkovo	21·8	9	4 58	- 5	e 8 59	- 2	11·8	14·2
Ekaterinburg	30·9	41	—	—	—	—	11·8	19·2

Additional readings and note: Belgrade eE = +50s., eN = +54s., ePR.E = +1m.4s., ISR₁N = +2m.46s., iE = +2m.50s. Rocca di Papa PE = +2m.9s., PN = +2m.14s. Zagreb eNE = +2m.59s., eNW = +3m.7s., iNE = +4m.1s., +4m.32s., and +4m.53s., eNE = +5m.8s., eNW = +5m.27s., Budapest MN = +6·8m. Florence reading entered as P ?L is given as e simply. Vienna iZ = +3m.59s. Jena MZ = +8·2m., MN = +9·8m. Strasbourg e = +3m.57s., +7m.0s., and +7m.20s. De Bilt MZ = +12·3m.

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Jan. 22d. Readings also at 2h. (La Plata and near Santiago), 5h. (near Santiago), 7h. (near Entebbe), 14h. (Entebbe), 15h. (La Paz), 17h. (Georgetown and St. Louis), 21h. (near La Paz and near Sumoto).

Jan. 23d. Readings at 0h. (near Mostar), 2h. (Rocca di Papa and Zagreb), 3h. (Helwan and Ksara), 6h. (Suva, Sucre, and near La Paz), 8h. (Zagreb), 9h. (Hong Kong), 10h. (Bombay, Ekaterinburg, and Phu-Lien), 11h. (Kodalkanal and Kucino), 14h. (Vienna (2)), 16h. (La Paz), 17h. (Azores and near Mostar), 20h. (Manila (2)), 22h. (Riverview).

Jan. 24d. 7h. 36m. 0s. Epicentre 41°-0N. 31°-0E. (as on 1925 June 24d.).

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

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara	N.	8.1	150	2 11	+ 8	4 12	+32	4.9	—
Belgrade	E.	8.6	300	—	—	i 4 24	+31	(i 4.4)	5.3
	N.	8.6	300	e 1 44	-26	i 4 13	+20	(i 4.2)	4.8
Makeyevka		8.6	33	e 2 15	+ 5	i 3 43	-10	5.0	9.1
Lemberg		10.1	333	e 1 54	-37	—	—	—	7.5
Budapest		10.7	311	e 5 50	?L	—	—	7.3	8.5
Zagreb		11.9	299	e 3 30	+32	—	—	e 6.5	—
Pompeii		12.4	274	e 6 56	?L	—	—	(e 6.9)	9.3
Graz		12.7	304	—	—	—	—	e 7.0	8.9
Laibach		13.0	299	e 3 15	+ 2	—	—	e 7.0	9.0
Rocca di Papa		13.8	279	e 3 18	- 5	—	—	e 8.2	9.8
Baku		14.3	86	i 3 33	+ 3	i 6 19	+ 4	7.7	10.0
Venice		14.3	294	8 20?	?L	—	—	(8.3?)	—
Florence		14.8	288	e 3 53	+17	—	—	—	7.4
Kucino		15.5	15	—	—	e 6 33	-11	e 7.8	11.9
Chur		16.5	298	4 3	+ 4	—	—	—	—
Jena		16.6	313	e 4 0	0	—	—	e 10.0	12.3
Zurich		17.2	299	i 4 18	+11	—	—	—	—
Moncalieri		17.4	291	(4 34)	+24	4 34	?P	10.3	—
Strasbourg		18.1	303	e 4 14	- 4	—	—	e 11.0	—
Feldberg	N.	18.2	308	—	—	—	—	—	11.9
Neuchatel		18.3	297	e 4 26	+ 5	—	—	—	—
Pulkovo		18.8	359	4 33	+ 6	e 7 39	-19	11.0	13.1
Besançon		18.9	297	e 4 37	+ 9	—	—	—	—
Hamburg		18.9	319	e 4 34	+ 6	—	—	—	13.0
Copenhagen		19.1	327	—	—	—	—	9.0	14.2
Upsala		20.6	341	—	—	e 8 25	-11	—	15.8
De Bilt		20.8	311	—	—	—	—	e 12.0	15.2
Uccle		20.8	307	—	—	—	—	e 12.0	—
Paris		21.5	301	e 5 0?	+ 1	—	—	—	—
Kew		23.8	307	—	—	e 9 0?	-40	—	—
Ekaterinburg		24.8	40	5 30	- 6	e 9 48	-11	13.0	18.2
Tashkent		28.6	76	e 6 15	+ 1	i 11 25	+15	e 11.6	18.6
San Fernando N.		29.2	273	—	—	—	—	—	17.7
Irkutsk		49.3	51	—	—	—	—	e 29.8	—

Additional readings and notes: Belgrade eN = +2m.6s., iN = +4m.2s. Budapest MN = +9.0m. Zagreb eNW = +6m.50s. Rocca di Papa ePE = +3m.31s. Chur iP = +4m.5s. Jena iPE = +4m.9s., eLZ = +11.7m., MN = +11.8m.: all readings are given for 8h. Zurich e = +4m.28s. and +4m.37s. Moncalieri PZ = +1m.15s., eP? = +1m.26s., S? = +4m.39s., the S entered is given as S?Z. Strasbourg e = +5m.17s.

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Jan. 24d. 21h. 35m. 45s. Epicentre 35°·0N. 142°·0E. (as on 1927 Aug. 24d.).

$$A = -\cdot646, B = +\cdot504, C = +\cdot574; \quad D = +\cdot616, E = +\cdot788;$$

$$G = -\cdot452, H = +\cdot353, K = -\cdot819.$$

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	4·2	351	1 1	- 4	1 47	- 8	—	—
Nagoya		4·2	274	1 1	- 4	(1 45)	-10	1·8	2·4
Osaka		5·4	268	1 25	+ 2	—	—	2·5	3·4
Kobe		5·7	268	e 1 49	+21	(2 43)	+ 7	2·7	3·0
Toyooka		5·9	283	i 1 39	+ 8	(e 2 43)	+ 2	e 2·7	2·8
Tashkent		55·9	301	—	—	—	—	e 29·2	36·6
Baku		69·6	308	—	—	—	—	e 41·2	—

Additional readings: Mizusawa SN = +1m.45s. Nagoya MN = +2·3m.
Osaka MN = +3·6m. Tashkent L = +34·2m.

Jan. 24d. Readings also at 0h. (Azores), 3h. (La Paz and near Toyooka), 5h. (near Manzanillo), 10h. (near Batavia and near Mizusawa), 13h. (near Toyooka), 16h. (Azores), 17h. (near Victoria), 19h. (Baku and Tashkent), 22h. and 23h. (near Toyooka).

Jan. 25d. 21h. 6m. 40s. Epicentre 16°·0N. 96°·0W. (as on 1927 May 2d.).

$$A = -\cdot100, B = -\cdot956, C = +\cdot276; \quad D = -\cdot995, E = +\cdot105;$$

$$G = -\cdot029, H = -\cdot274, K = -\cdot961.$$

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Vera Cruz		3·2	358	(0 51)	+ 1	—	—	(1·6)	(2·3)
Puebla		3·7	327	(0 44)	-14	(1 14)	-28	(1·2)	(1·5)
Tacubaya		4·6	318	1 28	+17	(2 12)	+ 6	2·2	2·3
Merida		7·8	50	1 36	-22	(2 57)	-34	3·0	3·2
Guadalajara		8·5	304	2 14	+ 5	(3 55)	+ 5	3·9	4·3
Chihuahua		15·7	325	(3 47)	- 1	(6 40)	- 8	(7·1)	(9·0)
Tucson		21·0	323	5 1	+ 8	8 48	+ 4	11·1	11·9
St. Louis		23·2	12	i 5 16	- 3	9 26	- 3	12·4	—
Cincinnati		25·2	21	i 5 40	0	i 10 3	- 4	—	—
Georgetown	Z.	28·2	33	(e 6 52)	+42	—	—	e 6·9	—
Ottawa		33·9	26	—	—	i 12 20	-19	e 17·3	—
Victoria	E.	39·4	331	—	—	—	—	21·6	22·1
La Paz		42·6	138	8 30	+15	—	—	20·3	—
Sucre		46·3	138	8 47	+ 5	—	—	—	—
San Fernando	N.	80·3	55	—	—	—	—	—	46·3
Ekaterinburg		104·6	12	—	—	—	—	53·3	—
Baku		115·3	28	—	—	—	—	e 56·3	—

Additional readings and notes: Vera Cruz readings have been diminished by 1m. Puebla readings have been diminished by 2m. Chihuahua readings have been increased by 1m. Tucson PR₁E = +5m.27s., PR₁N = +5m.35s., LN = +10·7m., MN = +11·6m. St. Louis iPR₁ = +5m.43s., iSR₁E = +10m.23s., Cincinnati iPR₁ = +5m.58s., iSR₁ = +10m.56s. Georgetown iZ = 21h.6m.30s. and 21h.10m.58s.

Jan. 25d. Readings also at 1h. (Victoria), 2h. (St. Louis and Victoria), 8h. (Riverview and near Batavia), 9h. (near Kobe, Sumoto, and Toyooka), 10h. (near Batavia), 11h. (near Toyooka), 14h. (Georgetown and La Paz), 16h. (Zagreb), 20h. (Graz, Jena, Zagreb, and Vienna), 22h. (Florence, Rocca di Papa, and Zagreb).

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Jan. 26d. 18h. 50m. 35s. Epicentre 28°·5N. 141°·5E. (as on 1923 June 29d.).

A = -·688, B = +·547, C = +·477; D = +·622, E = +·783;
G = -·373, H = +·297, K = -·879.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Nagoya	7·7	331	e 2 0	+ 3	—	—	—	—
Osaka	8·1	321	1 57	- 6	5 4	+84	7·5	13·2
Sumoto	8·1	318	e 2 4	+ 1	e 4 0	+20	6·1	—
Kobe	8·2	320	e 2 6	+ 2	—	—	e 5·0	7·4
Toyooka	9·1	323	e 2 16	- 2	—	—	e 5·3	6·5
Mizusawa	E. 10·6	358	2 53	+15	4 6	-39	—	—
Hukuoka	10·8	301	2 46	+ 5	4 59	+ 9	6·6	10·9
Nagasaki	10·9	296	e 2 17	-26	6 8	?L	(6·1)	6·8
Zi-ka-wei	Z. 17·6	284	4 21	+ 9	e 7 44	+13	—	—
Manila	23·6	238	e 5 27	+ 3	—	—	e 15·1	—
Hong Kong	25·4	262	5 36	- 6	(10 15)	+ 4	10·2	10·8
Phu-Lien	32·5	266	e 6 44	- 9	—	—	14·4	—
Irkutsk	36·4	322	7 9	-16	12 54	-22	19·3	23·6
Tashkent	58·9	305	10 4	0	i 18 8	- 2	30·4	36·5
Ekaterinburg	61·6	324	i 10 22	- 1	i 18 43	0	26·4	36·6
Melbourne	66·4	178	—	—	i 19 51	+ 9	—	39·2
Baku	73·1	309	i 11 41	+ 4	i 21 12	+ 9	37·4	56·2
Kucino	73·9	327	—	—	e 20 58	-15	37·8	42·0
Pulkovo	75·4	332	—	—	—	—	e 39·4	44·0
Makeyevka	77·4	320	—	—	—	—	36·4	45·0
Ksara	86·1	309	e 13 12	+18	e 23 12	-19	e 55·4	—
Ottawa	98·7	26	—	—	—	—	e 46·4	—
Rio Tinto	107·4	335	56 25?	?L	—	—	(56·4)	64·4
La Paz	150·2	73	19 48	[- 8]	—	—	—	—

Additional readings: Osaka MN = +7·9m. Toyooka MN = +6·0m. Mizusawa PN = +3m.1s. Kucino e = +29m.12s.

Jan. 26d. 21h. 51m. 30s. Epicentre 4°·0S. 97°·0E.

A = -·122, B = +·990, C = -·070; D = +·993, E = +·122;
G = +·008, H = -·069, K = -·998.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Batavia	10·0	103	i 2 37	+ 7	i 4 35	+ 6	7·3	—
Malabar	11·0	107	2 52	+ 8	i 5 0	+ 6	5·9	7·7
Colombo	20·3	302	4 31	-14	(8 11)	-18	8·2	10·8
Kodalkanal	24·2	307	4 36	-54	(9 0)	-48	9·0	12·6
Phu-Lien	26·5	20	5 50	- 3	10 29	- 3	12·5	15·8
Calcutta	N. 27·9	343	5 55	-12	(11 26)	+29	11·4	—
Hyderabad	28·2	320	5 47	-23	10 29	-34	13·9	20·6
Manila	30·2	51	e 6 30	0	—	—	e 13·7	—
Hong Kong	31·2	32	e 6 35	- 5	11 50	- 4	—	18·3
Perth	33·0	150	e 6 35	-21	i 11 50	-34	i 14·2	19·2
Bombay	33·0	316	6 40	-16	11 58	-26	16·7	19·0
Simla	39·3	333	9 12	?PR ₁	13 48	- 8	—	—
Zi-ka-wei	42·2	32	i 8 4	- 8	14 38	0	—	27·6
Nagasaki	48·1	39	e 16 1	?S	(e 16 1)	+ 6	(20·3)	—
Adelaide	49·3	135	e 8 55	- 7	i 15 58	-12	22·6	28·2
Tananarive	50·5	249	e 8 51	-19	15 54	-31	e 23·2	25·6
Tashkent	51·9	335	19 19	0	i 16 32	-11	24·0	32·5
Osaka	52·9	40	8 27	-58	(17 3)	+ 8	17·1	19·6
Melbourne	55·2	135	19 30	-10	i 17 22	- 2	27·9	35·5
Irkutsk	56·6	5	9 51	+ 1	17 48	+ 7	27·4	33·8
Riverview	58·4	129	e 10 37	+36	e 18 10	+ 6	e 26·8	34·2
Sydney	58·4	129	18 0	?S	(18 0)	+ 4	33·1	35·0
Baku	61·9	322	e 10 28	+ 4	18 41	- 6	33·5	42·1
Ekaterinburg	67·6	340	i 10 59	- 3	i 19 55	- 2	32·5	44·1
Ksara	68·8	309	11 12	+ 2	20 7	- 5	31·5	—
Helwan	71·3	304	e 11 25	0	e 20 25	-17	—	42·7
Makeyevka	73·0	324	e 11 40	+ 4	e 20 55	- 7	29·5	43·6
Kucino	76·7	330	11 45	-14	21 21	-24	37·0	46·9
Wellington	E. 78·2	132	—	—	i 22 46	?PS	—	53·2
Pulkovo	82·1	333	12 32	+ 1	22 41	- 6	38·5	54·3
Zagreb	86·7	317	e 12 51	- 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.
Vienna	z.	86.8	320	e 12 44	-14	23 35	- 4	—	—
Upsala	N.	88.2	331	—	—	—	—	e 48.5	52.9
Rocca di Papa	E.	88.5	313	13 5	- 3	(23 35)	-23	23.6	—
Copenhagen		90.3	326	—	—	24 30?	+13	51.5	—
De Bilt	N.	94.3	323	—	—	—	—	e 42.5	54.0
Kew		97.7	322	—	—	—	—	e 48.5	—
Granada		100.9	307	—	—	—	—	e 48.5	60.5
San Fernando	N.	103.0	307	—	—	—	—	—	67.5
La Plata		134.5	210	—	—	—	—	63.5	—
Ottawa		138.1	352	—	—	1 40 51	?SR ₁	e 58.5	—
Toronto	N.	140.3	355	—	—	e 41 30?	?SR ₁	78.5	—
St. Louis	N.	144.8	9	—	—	e 41 48	?SR ₁	e 64.5	71.5
Sucre		151.1	217	e 19 55	[- 2]	—	—	74.5	78.7
La Paz		154.8	215	20 12	[+10]	—	—	78.0	82.8

Additional readings and notes: Batavia iZ = +2m.35s., iP = +2m.38s., iE = +3m.16s., iN = +4m.32s.; epicentre 4°.9N. 95°.1E; T₁ = 21h.51m.11s. Malabar iP = +2m.56s., i = +4m.48s. Phu-Lien MN = +16.3m. Perth ePR = +7m.37s. and +7m.55s. Simla eSN = +13m.36s. Nagasaki gives S as P and L as S. Adelaide MN = +25.5m. Tananarive eE = +11m.2s., PR₁ = +11m.9s., PR₂ = +11m.21s., PR₃ = +11m.57s., SR₁ = +19m.34s., SR₂ = +21m.33s. Osaka MN = +21.1m. Riverview MN = +30.7m. Wellington iN = +21m.48s., MN = +42.6m. Vienna iPZ = +12m.52s. Rocca di Papa PZ = +12m.58s., PN = +13m.4s., LN = +23m.47s. De Bilt eLE = +48.5m., ME = +61.0m. Ottawa eN = +46m.24s. = SR₂ + 0s. St. Louis ME = +78.5m. La Paz PR₁ = +24m.50s.

Jan. 26d. Readings also at 2h. (Florence), 4h. (Manila, near Amboina, and near Ksara), 5h. (Tucson and Florence), 11h. (near Batavia), 13h. (Suva), 17h. (La Paz), 18h. (Mizusawa and Santiago), 20h. (La Paz).

Jan. 27d. 22h. 22m. 28s. Epicentre 22°.0N. 122°.0E.

A = - .491, B = + .786, C = + .375; D = + .848, E = + .530;
G = - .199, H = + .318, K = - .927.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku		3.0	352	0 59	+12	—	—	1.6	—
Hong Kong		7.2	272	1 55	+ 6	3 12	- 3	4.2	4.8
Manila		7.5	188	e 2 43	+49	—	—	1 6.3	—
Zi-ka-wei		9.2	357	e 2 18	- 1	e 4 12	+ 4	—	5.4
Phu-Lien		14.4	288	e 3 32	0	(6 32?)	+14	6.5	—
Irkutsk		33.2	340	6 42	-16	12 13	-14	19.4	20.7
Kodalkanal		44.2	265	30 8	?L	—	—	(30.1)	—
Bombay		45.9	278	—	—	e 15 32?	+ 5	—	—
Tashkent		48.0	308	i 8 47	- 7	i 15 44	-10	29.4	32.5
Ekaterinburg		56.1	325	i 9 48	+ 1	e 17 35	0	27.5	36.2
Baku		62.6	307	e 10 36	+ 7	e 19 5	+ 9	e 34.5	—
Kucino		68.7	323	—	—	—	—	e 37.2	—
Pulkovo		71.9	330	11 31	+ 2	—	—	37.5	44.9
Copenhagen		82.2	329	—	—	—	—	—	44.5
Vienna	z.	83.5	321	i 12 38	- 1	—	—	—	—
De Bilt		87.8	326	—	—	—	—	e 47.5	55.8
Florence		88.7	317	e 12 41	-28	—	—	—	—
Uccle		88.9	326	—	—	—	—	e 47.5	—
Kew		90.8	330	—	—	—	—	e 47.5	—

De Bilt gives also MZ = +55.9m.

Jan. 27d. Readings also at 2h. (Florence (2) and Zagreb), 3h. (Strasbourg, near Neuchatel, Zurich, and near Batavia), 5h. (Florence), 7h. (La Plata and near Santiago), 8h. (Christchurch and Wellington), 9h. (near Tacubaya), 10h. (Wellington), 14h. (near Malabar), 15h. (near Mizusawa), 19h. (Baku, Bombay, Ksara, and Tashkent), 20h. (Ekaterinburg and Suva), 22h. (near Nagasaki), 23h. (Hong Kong, Manila, and Phu-Lien).

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Jan. 28d. 22h. 20m. 16s. Epicentre 35°·2N. 136°·3E. (as on 1926 Nov. 23d.)

A = -·591, B = +·565, C = +·576.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	0·5	93	0 8	0	(0 14)	0	0·2	0·2
Kobe	1·1	240	0 45	1L	—	—	(e 0·8)	—
Toyooka	1·2	291	i 0 30	+12	—	—	i 0·8	0·9
Sumoto	1·4	234	e 0 19	- 2	—	—	1·0	1·2

Nagoya gives also MN = +0·3m.

Jan. 28d. 23h. 59m. 0s. Epicentre 47°·4N. 176°·7E. (given by De Bilt and Makeyevka).

A = -·676, B = +·039, C = +·736 ; D = +·058, E = +·998 ;

G = -·735, H = +·042, K = -·677.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Honolulu T.H.	E. 33·2	134	—	—	—	—	—	17·5
Victoria	E. 39·2	66	13 2	1S (13 2)	-52	—	22·7	28·9
Irkutsk	45·0	305	e 8 31	- 2	e 15 15	0	19·9	28·2
Scoresby Sund	61·4	8	—	—	—	—	31·0	—
Ekaterinburg	63·0	328	i 10 34	+ 2	19 1	0	30·0	41·6
Ottawa	67·7	46	—	—	—	—	e 31·0	—
Pulkovo	69·4	344	e 11 13	0	—	—	34·0	44·2
Tashkent	70·6	311	e 11 36	+15	e 20 30	- 3	34·0	45·2
Kucino	71·2	336	—	—	—	—	36·0	44·8
Copenhagen	76·0	351	—	—	—	—	42·0	—
Makeyevka	78·0	333	—	—	—	—	42·0	46·6
De Bilt	80·3	355	—	—	—	—	e 46·0	—
Baku	80·4	322	12 24	+ 3	22 35	+ 7	40·5	51·5
Kew	81·1	359	—	—	—	—	e 50·0	—
Bombay	85·1	293	—	—	—	—	e 39·0	—
San Fernando	N. 96·1	3	—	—	—	—	—	58·7
Entebbe	123·3	316	—	—	—	—	42·6	—

Additional readings and note : Honolulu T.H. MN = +18·5m. Tashkent i = +21m.39s. = [S] +23s., P and S are given only as e.

Jan. 28d. Readings also at 2h. (near Nagasaki), 4h. (Baku and near Ksara), 5h. (Florence), 6h. (San Fernando), 9h. (near Toyooka), 10h. (Apia, Suva, and Riverview), 15h. (Florence).

Jan. 29d. Readings at 1h. (Apia), 2h. (Ekaterinburg, Tashkent, and near Tananarive), 5h. (near Toyooka), 7h. (San Fernando), 10h. (Bombay), 13h. (Wellington), 14h. (near Hong Kong), 19h. (near Toyooka). 22h. (near La Paz, and near Toyooka).

Jan. 30d. 3h. 15m. 12s. Epicentre 34°·0S. 57°·0E.

(as on 1927 Dec. 17d.).

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	14 22	+13	e 7 26	+ 1	19·0	10·6
Johannesburg	26·1	280	5 30	-19	—	—	—	—
Cape Town	31·7	262	6 48	+ 4	12 1	- 2	—	20·8
Entebbe	41·1	321	8 3	- 1	14 27	+ 5	21·8	24·3
Colombo	46·3	32	8 5	-37	—	—	20·9	22·0
Kodalkanal	48·3	26	—	—	—	—	19·4	22·5
Perth	48·8	105	e 7 48	-71	e 15 48	-16	21·8	—
Batavia	53·7	70	19 30	- 1	1 16 57	- 8	—	—
Bombay	55·0	19	9 39	0	17 23	+ 2	28·3	42·4

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hyderabad	55.4	25	9 41	- 1	17 13	- 13	23.9	29.8
Simla	N. 67.9	19	—	—	—	—	e 31.8	—
Helwan	68.3	337	11 14	+ 8	20 25	+ 19	—	44.6
Melbourne	68.6	122	—	—	(1 20 13)	+ 4	32.7	35.4
Ksara	70.6	341	11 48?	+ 27	—	—	—	—
Phu-Lien	72.3	49	e 11 32	0	e 20 50	- 4	34.8	—
Baku	74.7	355	i 11 53	+ 6	i 21 30	+ 8	e 35.8	48.1
Riverview	74.9	121	i 11 53	+ 5	e 21 25	0	e 35.9	39.1
Sydney	74.9	121	21 18	?S	(21 18)	- 7	37.8	39.8
Tashkent	76.1	10	i 11 58	+ 2	i 21 39	+ 1	e 32.8	44.9
Manila	77.8	64	e 11 40	- 26	(22 10)	[+ 1]	—	22.2
Hong Kong	78.3	53	12 8	- 1	(21 58)	- 6	26.1	—
Makeyevka	83.8	349	12 41	0	23 1	- 6	36.8	49.7
Pompeii	84.4	330	e 12 48	+ 4	—	—	—	—
Wellington	E. 85.5	139	i 12 48	- 3	i 23 11	- 14	e 39.3	46.5
	N. 85.5	139	i 12 50	- 1	i 23 9	- 16	39.8	43.8
Rocca di Papa	N. 85.9	329	e 12 54	+ 1	—	—	—	—
Algiers	86.8	320	e 13 1	+ 3	23 26	- 13	45.8	56.3
La Plata	88.0	229	—	—	—	—	36.8	—
Zagreb	88.0	334	e 13 3	- 2	e 23 30	- 22	e 50.3	—
Budapest	88.2	337	13 6	0	—	—	e 52.8	—
Florence	88.2	330	e 13 3	- 3	—	—	53.3	58.8
Venice	89.0	331	12 48?	- 22	—	—	—	—
Alicante	89.8	320	—	—	—	—	e 55.2	—
Almeria	89.8	318	i 13 3	- 12	—	—	—	52.9
Vienna	Z. 89.8	335	e 13 7	- 8	—	—	—	—
Moncalieri	90.7	328	13 19	- 1	29 35	?SR ₁	51.1	—
Granada	90.8	317	e 13 26	+ 6	21 43	?	44.8	54.3
Ekaterinburg	90.9	3	i 13 14	- 7	i 24 8	- 15	40.8	55.4
Malaga	90.9	317	12 58	- 23	e 20 50	?PR ₂	—	—
Innsbruck	N.W. 91.0	331	e 13 24	+ 3	—	—	—	—
Tortosa	N. 91.1	321	—	—	—	—	e 49.8	52.3
Chur	91.4	330	i 13 20	- 3	—	—	—	—
San Fernando	91.8	315	37 58	?SR ₂	46 23	?L	56.7	59.0
Zurich	92.2	330	e 13 23	- 5	e 16 52	?PR ₁	—	—
Neuchatel	92.6	329	e 13 24	- 6	—	—	—	—
Toledo	N.E. 92.8	319	e 20 43	?PR ₂	—	—	—	61.8
Rio Tinto	92.9	316	50 48?	?L	—	—	(50.8)	62.8
Strasbourg	93.5	330	—	—	—	—	e 54.8	—
Irkutsk	95.6	27	i 13 34	- 13	24 10	[+ 10]	41.8	54.8
Paris	95.9	329	—	—	—	—	e 55.8	64.8
Pulkovo	96.3	348	i 13 40	- 11	24 22	[+ 18]	44.8	57.4
Hamburg	96.5	335	e 13 41	- 11	—	—	60.8	—
Uccle	96.6	330	—	—	—	—	e 47.8	—
De Bilt	97.3	332	—	—	—	—	e 47.8	61.2
Copenhagen	97.4	338	e 13 18	- 38	e 23 48?	[- 22]	49.8	60.1
Kew	99.1	328	—	—	—	—	e 49.8	60.8
Upsala	99.3	343	—	—	—	—	—	58.8
Stonyhurst	101.7	329	—	—	—	—	e 59.3	67.5
Sucre	103.6	235	e 17 54	[- 6]	28 50	?	52.8	59.3
La Paz	107.4	235	e 17 48	[- 25]	i 28 38	?PS	51.8	58.9
Scoresby Sund	118.3	338	—	—	e 30 6	?PS	65.8	—
Ottawa	142.5	302	e 22 48?	?PR ₁	—	—	e 61.8	—
Georgetown	Z. 143.1	291	i 19 43	[- 2]	—	—	e 74.9	82.2
Toronto	E. 145.1	299	—	—	—	—	75.8	—
St. Louis	E. 153.3	289	e 20 29	[+ 29]	e 38 48?	?	e 70.8	78.8
	N. 153.3	289	e 20 26	[+ 26]	—	—	—	87.8
Victoria	E. 165.6	1	20 14	[+ 2]	—	—	77.0	97.6
Tucson	N. 169.7	264	—	—	—	—	96.0	—

Additional readings and notes : Tananarive PR₁ = +4m.33s., PR₂ = +4m.40s., SR₁ = +7m.49s., iN = +7m.52s., MN = +10.4m. Simla eE = +27m.48s., =SR₂ - 5s. Melbourne iS = +24m.48s. =SR₁ - 40s., SR₂ = +27m.58s. =SR₁ - 8s.; true S is given as iPR₂. Riverview eLN = +33.3m., MN = +40.9m. Manila iLN = +12.8m.; true S is given as an independent M reading. Hong Kong S? = +18m.58s. =PR₂ + 35s.; true S is given as SR₁?. Rocca di Papa PE = +12m.58s. Algiers MN = +50.3m. Zagreb eE = +13m.32s. and +23m.3s. = [S] - 12s. Almeria MZ = +56.3m. Vienna iPZ = +13m.10s. Toledo MNW = +61.6m. Irkutsk PS = +26m.7s. Pulkovo PS = +26m.20s. Hamburg iZ = +17m.43s. =PR₁ - 8s. De Bilt MN = +66.7m. Copenhagen eE = +25m.48s. ? = S + 13s., and +41m.48s.?, MZ = +58.6m., MN = +65.4m. Kew eLZ = +56.8m. La Paz i = +19m.12s. =PR₁ + 10s. Scoresby Sund eE = +38m.48s. ? Ottawa eN = +32m.48s. ? and +40m.48s. ? Georgetown PR₂ Z = +23m.3s. =PR₁ + 9s. Tucson LE = +107.4m.

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Jan. 30d. Readings also at 5h. (De Bilt, Copenhagen and Scoresby Sund), 6h. (Bergen and Tashkent), 8h. and 9h. (near Toyooka), 11h. (Mizusawa), 15h. (near Tashkent), 17h., 18h., and 20h. (near Toyooka), 21h. (Suva), 22h. (near Batavia and Malabar).

Jan. 31d. Readings at 0h. (Sydney), 1h. (La Paz), 3h. (near Zagreb), 15h. (Suva), 16h. (Florence), 17h. (Rocca di Papa), 21h. (Graz and Vienna), 22h. (Wellington), 23h. (Apia, Suva, Wellington, and St. Louis).

Feb. 1d. Readings at 0h. (Georgetown, Ottawa, Stonyhurst, and near Sitka), 1h. (Tucson), 2h. (Suva (2), near Apia, near La Paz, and Sucre), 3h. (Melbourne, Stonyhurst, and Wellington), 9h. (Kodaikanal, Kobe, Osaka, and Sumoto (2)), 10h. (Entebbe and Tucson), 11h. (Georgetown, Tucson, Toronto, and Ottawa), 15h. (Tucson), 20h. (Suva).

Feb. 2d. Readings at 0h. (Georgetown, Toronto, Ottawa, St. Louis, and near Victoria), 2h. (near Sumoto and Toyooka), 1h. (near Kobe), 7h. (near Tananarive), 8h. (Bombay and near Malabar), 9h. (Simla and Wellington), 10h. (near Malabar), 12h. (near Victoria), 14h. (near Batavia and Malabar), 16h. (near Ksara), 21h. (Suva), 22h. (Suva, Nagoya, and near Mizusawa).

Feb. 3d. 13h. 47m. 28s. Epicentre 70° 0N. 128° 0E.

(as on 1927 Nov. 15d.).

A = - .211, B = + .270, C = + .940; D = + .738, E = + .616;
G = - .579, H = + .740, K = - .342.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	m. s.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	20.8	224	4 55	+ 4	8 32	- 8	—	13.3
Otomari	24.4	151	5 39	+ 7	10 9	+ 17	e 13.0	16.3
Ekaterinburg	30.8	280	1 6 26	- 10	1 11 25	- 23	i 14.0	20.8
Toyooka	34.6	189	1 7 7	- 3	—	—	e 18.4	21.7
Nagoya	35.1	187	e 7 0	- 14	—	—	—	—
Osaka	35.5	189	7 21	+ 3	13 5	+ 2	21.8	25.7
Kobe	35.5	170	7 9	- 9	—	—	—	22.0
Sumoto	35.9	170	e 7 13	- 8	—	—	e 18.7	—
Hukonaka	36.4	176	e 15 52	?	—	—	22.0	—
Pulkovo	38.0	305	1 7 26	- 12	13 14	- 24	18.5	23.9
Scoresby Sund	38.2	345	7 28	- 12	—	—	19.5	27.3
Zi-ka-wel	39.0	188	7 41	- 5	13 38	- 14	—	26.4
Kucino	39.1	295	e 7 37	- 10	13 34	- 9	15.6	26.2
Helsingfors	39.1	309	e 7 34	- 13	13 41	- 12	22.5	—
Tashkent	41.0	259	1 7 55	- 8	1 14 4	- 17	—	22.9
Upsala	41.2	314	1 7 52	- 13	e 14 3	- 21	—	23.3
Bergen	43.5	322	—	—	—	—	e 27.5	—
Konigsberg	44.9	309	1 8 24	- 8	—	—	e 20.1	25.5
Taihoku	45.1	188	—	—	—	—	e 23.7	—
Makeyevka	45.7	290	1 8 31	- 7	15 15	- 9	20.5	29.0
Lund	46.0	315	8 31	- 9	15 14	- 14	—	—
Copenhagen	46.1	315	e 8 33	- 8	15 21	- 8	23.5	27.2
Simla	47.9	243	15 44	?	(15 44)	- 9	25.4	—
Dehra Dun	48.4	240	11 40	?P _R	17 16	+ 77	20.6	22.8
Hong Kong	48.4	196	8 52	- 4	15 50	- 9	23.9	31.9
Lemberg	48.4	302	e 8 56	—	—	—	—	28.4
Baku	48.6	275	1 8 55	- 3	1 16 0	- 1	28.5	—
Hamburg	48.7	315	1 8 54	- 4	—	—	—	28.5
Potsdam	49.0	315	1 8 56	- 4	—	—	—	—
Edinburgh	49.4	325	—	—	—	—	—	34.5
Jena	50.7	314	1 9 9	- 2	—	—	e 26.5	30.8
	N.	50.7	1 9 11	0	—	—	e 24.5	35.0
	Z.	50.7	1 9 8	- 3	—	—	—	—
Phu-Lien	50.8	205	9 11	- 1	16 32?	+ 3	—	33.0
Victoria	51.0	55	10 10	+ 67	16 28	- 3	23.1	34.8

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.
Stonyhurst	51.1	323	—	—	—	—	—	36.5
De Bilt	51.2	317	19 12	- 2	e 16 31	- 3	e 23.5	29.9
Vienna	51.9	308	19 18	- 1	i 16 39	- 4	—	—
Budapest	51.9	305	9 22	+ 3	20 30	?SR ₁	26.5	34.0
Feldberg	N. 52.2	315	e 9 20	- 1	e 16 39	- 7	e 27.6	31.0
Uccle	52.5	319	19 22	- 1	e 16 50	0	e 24.5	—
Calcutta	N. 52.9	228	9 32	+ 7	16 57	+ 2	—	—
Oxford	52.9	322	—	—	—	—	—	38.1
Kew	53.0	321	19 24	- 2	e 16 49	- 7	17.5	31.3
Graz	53.2	309	19 18	- 9	i 17 1	+ 2	25.5	30.4
Hohenheim	53.3	314	—	—	—	—	—	32.4
Strasbourg	53.9	315	19 32	0	17 3	- 5	25.5	38.5
Belgrade	54.0	303	e 8 32	-61	—	—	e 29.8	—
Zagreb	54.3	307	e 9 32?	- 3	e 17 14	+ 1	e 26.5	—
Laibach	54.5	308	e 9 34	- 2	—	—	e 26.3	31.1
Paris	54.8	319	19 38	0	—	—	30.5	31.5
Zurich	54.8	313	19 39	+ 1	i 17 20	+ 1	—	—
Chur	55.0	313	e 9 42	+ 3	—	—	—	—
Neuchatel	55.5	313	19 44	+ 1	—	—	—	—
Besacon	55.6	315	9 44	+ 1	—	—	28.5	—
Venice	55.6	309	e 9 41	- 3	23 44?	?SR ₂	—	24.3?
Manila	55.6	188	e 10 2	+39	—	—	e 31.8	34.3
Moncalieri	57.2	313	9 42	-11	17 47	- 2	25.7	38.0
	57.2	313	19 52	- 1	18 3	+14	29.3	35.2
Florence	57.4	308	19 57	+ 2	18 17	+26	26.3	31.8
Rocca di Papa	58.9	307	10 8	+ 4	e 16 59	+?	e 32.7	41.3
Ksara	N. 59.2	284	5 10	?	—	—	39.5	—
Bombay	60.7	242	10 26	+ 9	18 37	+ 5	31.4	38.0
Ottawa	63.4	17	—	—	—	—	e 32.5	38.5
Toronto	N. 64.6	21	—	—	e 27 44	?SR ₃	37.5	41.9
Toledo	N.W. 64.8	320	—	—	—	—	e 33.2	38.1
Alicante	65.4	317	—	—	—	—	e 35.5	—
Algiers	66.1	314	i 10 54	+ 2	19 42	+ 4	34.5	40.5
Almeria	67.3	319	e 11 0	0	—	—	—	43.5
Granada	67.3	320	i 11 4	+ 4	20 3	+ 9	38.5	47.1
Kodaikanal	67.6	235	6 26	?	—	—	36.1	37.4
Malaga	67.9	320	i 11 5	+ 2	20 1	0	—	—
St. Louis	67.9	30	i 11 5	+ 2	e 19 58	- 3	e 31.4	36.0
Cincinnati	68.3	26	i 11 12	+ 6	i 20 11	+ 5	e 32.5	41.5
San Fernando	68.6	321	35 11	?L	41 29	?	44.8	50.5
Georgetown	z. 69.6	20	i 11 17	+ 2	—	—	e 38.0	50.3
Colombo	70.1	233	2 32?	?	—	—	—	40.0
Batavia	N. 77.5	201	i 12 12	+ 8	—	—	51.5	—
La Paz	125.6	20	19 14	[+ 7]	—	—	70.5	—
La Plata	144.8	8	(19 20)	[- 28]	—	—	126.5	—

Additional readings: Toyooka eLN = +20.1m. Osaka MN = +25.3m.
 Kobe MN = +22.7m. Scoresby Sund PR₁ = +8m.54s., SR₁ = +16m.38s.,
 MN = +21.9m. Zi-ka-wei PR₁ = +9m.28s., SR₁ = +16m.49s. Upsala
 PR₁ = +9m.26s., MN = +26.2m. Kongsberg i = +9m.25s., +12m.7s.,
 +13m.52s., +13m.44s. and +15m.38s. PR₁Z = +10m.14s., SR₁Z =
 +17m.37s., eN = +18m.8s. = SR₁ - 20s., SR₁Z = +18m.49s. and +19m.30s.
 = SR₁ - 4s., MZ = +21.5m., MN = +26.5m. Lund +10m.21s. = PR₁ - 13s.
 and +18m.48s. = SR₁ - 2s. Copenhagen eE = +8m.42s., PR₁ = +10m.25s.,
 SR₁ = +18m.52s., SR₁ = +20m.32s.? MN = +27.0m., MZ = +34.5m. Simla
 LN = +24.0m. Hong Kong PR₁? = +10m.36s., SR₁? = +19m.42s.
 Lemberg MN = +28.1m. Hamburg eSR₁E = +19m.42s., eSR₁N =
 +19m.47s., iSR₁N = +20m.36s., iSR₁N = +21m.53s., MZ = +28.2m., MN =
 +29.0m. Jena eSR₁N = +20m.24s. Victoria SN = +16m.30s. De
 Bilt LN = +25.5m., Vienna iZ = +10m.25s., PR₁ = +11m.19s. = PR₁ - 16s.
 S = +15m.41s., SR₁ = +17m.52s., iN = +21m.24s., iE = +21m.33s., true S
 is given as iE. Feldberg iN = +20m.38s. = SR₁ - 10s. Kew LZ =
 +31.5m., MN = +35.9m., MZ = +37.9m. Hohenheim MN = +30.7m.
 Strasbourg MN = +37.5m. Zagreb eNE = +12m.0s. = PR₁ + 1s., iNE =
 +12m.52s. = PR₁ - 2s., eNW = +13m.56s., eNE = +14m.52s. Paris MN =
 +34.5m. Manila eLN = +32.6m. Moncalieri (second line) MN =
 +37.9m. Rocca di Papa PN = +10m.11s., eL = +33.8m. Ottawa
 eE = +27m.32s.? = SR₁ + 6s., eN = +31m.53s., MN = +40.5m. Toledo
 MNE = +37.5m. St. Louis iN = +11m.10s., eN? = +13m.33s., eE? =
 +13m.46s., iPR₁N = +13m.51s., iPR₁ = +15m.15s., iSE = +20m.0s., iSN =
 +20m.1s., MN = +41.4m. Cincinnati ePE = +11m.14s., iPR₁N =
 +13m.58s. Georgetown PR₁Z = +13m.58s. Batavia iN = +15m.7s. =
 PR₁ - 21s., eE = +42m.32s.? La Paz P = +21m.35s. = PR₁ + 33s. La
 Plata gives its two readings as L of separate shocks.

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Feb. 3d. 18h. 49m. 4s. Epicentre 37°·5N. 142°·5E. (as on 1926 Nov. 5d.).

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

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	N.	2·0	327	0 38	+ 7	0 58	+ 3	—	—
Nagoya		5·1	244	e 1 14	- 5	(2 6)	-14	2·1	2·9
Osaka		6·3	248	1 40	+ 4	(2 56)	+ 4	2·9	3·3
Toyoooka		6·4	255	i 1 36	- 2	(i 3 8)	+13	i 3·1	3·4
Kobe		6·6	247	1 37	- 4	(3 2)	+ 2	3·0	3·5
Sumoto		6·9	245	e 1 43	- 2	(3 10)	+ 3	3·2	3·7
Nagasaki		11·4	249	(3 12)	+22	—	—	(5·4)	—
Irkutsk		30·4	312	—	—	e 11 1	-40	—	—
Tashkent		55·0	300	9 33	- 6	i 17 14	- 7	e 29·2	36·9
Ekaterinburg		55·2	319	i 9 19	-21	e 17 19	- 5	25·9	37·0
Baku		68·5	306	—	—	—	—	36·7	—
Makeyevka		71·4	318	—	—	—	—	30·9	—
Feldberg	N.	83·4	332	—	—	—	—	e 44·8	55·0

Additional readings and notes : Nagoya MN = +2·7m. Osaka MN = +3·9m.
Toyoooka iS = +2m.43s., MN = +3·6m. Kobe MN = +3·4m. Sumoto
S = +2m.25s. Nagasaki readings have been increased by 3m. Irkutsk
reading is given simply as e.

Feb. 3d. Readings also at 2h. (Wellington), 3h. (Malaga, near Granada, and near Tucson), 4h. and 5h. (Tucson), 6h. (Suva, Taihoku, Makeyevka, Tashkent, and Tucson), 10h. (near Amboina), 11h. (La Paz), 12h. (Taihoku and near Tacubaya), 13h. (Baku, Tashkent, and near Toyoooka), 14h. (Nagasaki and Ravensburg), 15h. (Alicante), 22h. (near Mizusawa), 23h. (Taihoku).

Feb. 4d. 6h. 7m. 54s. Epicentre 0°·5S. 152°·0E. (as on 1925 Aug. 6d.).

A = -·883, B = +·470, C = -·009; D = +·470, E = +·883;
G = +·008, H = -·004, K = -1·000.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	N.	31·3	128	—	—	e 11 36	-20	i 16·8	19·8
Riverview		33·3	181	e 7 25	+26	e 11 53	-36	e 15·4	18·3
Sydney		33·3	181	11 42	?S	(11 42)	-47	17·8	19·1
Manila		34·1	298	e 6 58	- 8	—	—	i 14·9	17·6
Melbourne		37·9	190	—	—	i 12 48	-49	i 21·6	—
Taihoku	N.	39·0	314	—	—	e 13 44	- 8	—	—
Zi-ka-wei		43·0	323	e 8 23	+ 5	—	—	—	—
Hong Kong		43·3	307	—	—	—	—	—	19·5
Batavia		45·4	262	19 41	+65	—	—	—	—
Wellington	E.	45·7	155	9 1	+23	i 15 33	+ 9	21·4	27·4
Perth	N.	45·7	155	i 8 56	+18	15 31	+ 7	e 21·6	30·1
Phu-Lien		46·4	225	i 14 17	?S	(i 14 17)	-76	i 22·8	23·8
Honolulu T.H.		49·2	299	e 8 58	- 3	—	—	—	—
Irkutsk		53·4	61	—	—	—	—	e 29·1	—
Bombay		66·1	330	e 11 29	+37	e 20 13	+35	—	40·9
Tashkent		79·9	290	—	—	e 22 6?	-16	—	—
Victoria		84·9	313	112 58	+11	123 17	- 1	e 40·1	47·9
Ekaterinburg	E.	86·9	42	26 25	?	—	—	44·0	50·6
Baku		91·1	327	13 40	+18	e 24 33	+ 8	41·1	53·7
Tananarive	E.	99·4	311	e 19 51	?	e 26 59	?PS	48·1	54·6
Kucino		103·4	250	(21 6?)	?PR ₂	—	—	21·1	—
Pulkovo		103·7	328	—	—	—	—	51·6	58·5
Makeyevka		105·8	334	e 20 51	?	25 29	[+38]	50·1	64·8
Upsala		106·1	320	—	—	e 25 8	[+16]	51·1	60·6
St. Louis	E.	111·0	337	—	—	—	—	e 64·1	68·5
Konigsberg		111·7	47	—	—	e 40 43	?SR ₂	—	55·2
Copenhagen		112·9	331	—	—	—	—	e 63·7	69·1
Toronto	N.	115·9	335	—	—	38 6?	?SR ₁	57·1	70·9
Potsdam		117·3	38	—	—	—	—	64·5	—
Hamburg		117·8	332	—	—	—	—	67·1	—
Ottawa		118·3	335	—	—	—	—	e 58·1	72·1
Graz		118·6	37	—	—	—	—	e 64·1	—
		120·0	327	—	—	—	—	e 61·1	—

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.
Zagreb	120.5	325	20 36	?PR ₁	—	—	e 67.1	—
Georgetown	z. 121.0	42	—	—	—	—	72.6	—
Edinburgh	121.1	343	—	—	—	—	—	71.1
De Bilt	121.4	337	—	—	e 47 6?	?SR ₃	e 58.1	74.7
Stonyhurst	122.6	341	—	—	—	—	e 69.1	74.1
Strasbourg	122.9	333	—	—	—	—	e 61.1	75.1
Kew	123.9	339	—	—	—	—	e 57.1	73.1
Oxford	124.0	340	—	—	—	—	—	76.1
Paris	125.0	335	—	—	—	—	e 69.1	76.1
Moncalieri	125.5	329	—	—	—	—	59.3	—
La Paz	136.9	116	e 23 20	—	—	—	74.1	—
Granada	137.0	331	—	—	—	—	e 72.1	76.1
Rio Tinto	137.9	336	44 6?	?	—	—	—	87.1
San Fernando	138.8	333	—	—	—	—	85.6	88.6

Additional readings: Riverview MN = +19.4m. Manila iLN = +14.7m., MN = +17.4m. Batavia iZ = +9m.48s., i = +9m.50s.; all readings are given as i only. Wellington iPR,E = +11m.21s., iPR,N = +11m.23s.; T,N = 6h.8m.26s. and T,E = 6h.8m.35s. Pulkovo e = +28m.24s. = PS +13s. Makeyevka e = +32m.6s.? Copenhagen MNZ = +11.2m. De Bilt eLN = +59.1m., MNZ = +75.8m.; epicentre 0°0 150°0E. Kew LZ = +64.1m. La Paz e = +20m.11s. = [P] +37s.

Feb. 4d. Readings also at 1h. (La Paz and Sucre), 3h. (Amboina, Suva, and Zagreb), 7h. (La Paz and Nagasaki), 9h. (near Apia), 10h. (Suva), 11h. (Suva, Wellington, and near Apia), 17h. (Entebbe), 22h. (Bombay, La Paz (2), and Sucre), 23h. (Wellington).

Feb. 5d. 22h. 45m. 20s. Epicentre 10°0S. 176°0E. (as on 1926 June 1d.).

A = -0.982; B = +0.069, C = -0.174; D = +0.070, E = +0.998;
G = +0.173, H = -0.015, K = -0.985.

Very uncertain.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	E. 8.4	164	i 2 4	- 3	i 4 4	+17	i 5.0	7.9
N.	8.4	164	i 1 58	- 9	i 3 58	+11	i 4.9	7.0
Wellington	E. 31.3	182	i 6 36	- 5	—	—	i 8.6	11.7
Riverview	32.9	220	e 7 10	+14	(e 13 4)	+42	e 13.1	16.0
Sydney	32.9	220	e 6 52	- 4	i 11 34	-48	15.0	16.7
Melbourne	39.3	220	i 7 55	+ 6	i 12 35	-81	—	21.9
Adelaide	42.2	229	e 12 12?	?	e 16 40	?SR ₁	19.2	27.2
Perth	59.5	239	—	—	—	—	24.7	—
Tucson	81.5	55	—	—	—	—	e 41.9	—
St. Louis	E. 99.2	54	—	—	—	—	e 51.3	—
Chicago	E. 101.4	48	—	—	—	—	e 53.3	56.9
Toronto	E. 107.5	47	—	—	—	—	e 59.2	60.3
Tashkent	109.1	310	i 18 20	[+ 1]	—	—	—	70.0
Georgetown	z. 109.5	51	—	—	—	—	e 55.1	—
Ottawa	109.9	45	—	—	—	—	e 56.7	—
La Paz	111.3	112	e 17 31	[-55]	e 27 54	+14	48.4	55.5
Ekaterinburg	112.1	327	e 21 48	?	—	—	53.7	70.7
Sucre	113.0	116	e 17 5	[-86]	—	—	58.4	68.0
Baku	123.7	312	—	—	—	—	71.7	80.2
Kuoino	123.8	333	—	—	—	—	77.2	—
Pulkovo	124.1	340	—	—	—	—	e 71.7	—
Makeyevka	128.2	325	—	—	—	—	78.7	83.6
Copenhagen	132.5	348	—	—	—	—	86.7	—
De Bilt	137.3	351	—	—	—	—	e 85.7	—
Rio Tinto	152.2	4	71 40?	?L	—	—	(71.7)	97.7
Granada	152.9	359	—	—	—	—	e 88.7	92.6
Aimeria	153.1	357	—	—	—	—	90.0	92.6
San Fernando	153.5	4	80 0	?L	85 32	?	89.5	92.4

Additional readings: Wellington eLN = +8.0m., MN = +12.3m. Riverview MN = +15.8m. Melbourne i = +6m.25s. Adelaide MN = +20.7m. St. Louis eLN = +52.3m. Toronto LE = +59.8m. Tashkent i = +20m.4s., e = +30m.9s. and +42m.5s. Georgetown LZ = +61.8m. Ekaterinburg e = +38m.0s. and +42m.42s. San Fernando MN = +91.6m.

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Feb. 5d. Readings also at 1h. (Florence), 3h. (Kodaikanal and near Sumoto), 4h. (Apia, Suva, Wellington, Sydney, Riverview, La Plata, and La Paz), 5h. (near Mizusawa), 11h. (near Ksara), 12h. (La Plata, La Paz, near Santiago, and near Sumoto), 16h. (Barcelona), 18h. (Tucson), 20h. (near Batavia and Malabar), 21h. (Phu-Lien, Ekaterinburg, and Tashkent), 22h. (Hong Kong, Wellington, Zi-ka-wei, and Irkutsk).

Feb. 6d. 0h. 23m. 12s. Epicentre 28°-0N. 91°-0E.

A = -015, B = +383, C = +469; D = +1000, E = +017;
G = -008, H = +469, K = -883.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	N.	6.0	204	1 35	+ 3	(2 54)	+10	2.9	—
Phu-Lien		15.9	113	—	—	6 48	- 5	—	—
Bombay		18.9	245	8 16	?S	(8 16)	+16	10.8	10.9
Tashkent		22.2	313	15 6	- 1	i 9 2	- 7	e 12.1	—
Irkutsk		26.3	19	—	—	—	—	e 14.3	—
Ekaterinburg		35.9	332	e 7 3	-18	—	—	—	—

Bombay gives also S = +10m.6s.

Feb. 6d. 3h. 52m. 6s. Epicentre 7°-0N. 126°-0E. (as on 1928 Jan. 6d.).

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

There is no evidence of depth of focus as in the previous shocks from this origin.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	E.	9.0	327	e 2 28	+12	16 11	+128	17.6	9.5
	N.	9.0	327	e 2 28	+12	16 16	+133	17.8	9.4
Amboina		10.9	169	12 45	+ 2	14 57	+ 5	17.9	—
Taihoku	E.	18.5	347	e 4 11	-12	(7 38)	-13	7.6	—
Hong Kong		19.1	325	4 34	+ 4	(8 4)	0	8.1	12.1
Phu-Lien		23.2	308	e 5 21	+ 2	9 30	+ 1	11.4	18.4
Batavia		23.2	236	15 22	+ 3	19 38	+ 9	16.9	—
Malabar		23.2	232	15 23	+ 4	19 45	+16	14.9	—
Zi-ka-wei		24.6	350	e 5 15	-19	e 9 50	- 5	—	—
Nagasaki		26.0	8	5 44	- 4	10 18	- 4	12.9	—
Hukuoka		26.9	8	e 7 20	?PR,	(e 11 35)	+56	e 11.6	—
Sumoto		28.5	15	e 5 51	-22	9 31	-97	13.3	—
Osaka		29.0	16	7 0	+42	(12 16)	+59	12.3	15.8
Nagoya		29.9	18	e 6 32	+ 5	—	—	—	—
Perth		40.1	194	—	—	13 59	- 9	—	—
Adelaide		43.6	166	i 8 23	0	e 14 52	- 4	16.5	21.0
Colombo		45.8	273	8 28	-11	15 28	+ 3	27.2	29.4
Riverview		47.3	152	e 8 54	+ 5	—	—	—	31.1
Hyderabad		47.5	288	8 51	0	15 51	+ 3	24.7	37.4
Kodaikanal		48.1	278	16 0	?S	(16 0)	+ 5	30.4	37.6
Melbourne		48.2	160	—	—	i 15 59	+ 3	i 19.6	19.7
Irkutsk		48.6	343	8 52	- 6	15 49	-12	21.9	32.3
Bombay		52.9	289	9 47	+22	16 57	+ 2	26.6	38.9
Tashkent		60.7	316	i 10 21	+ 4	i 18 36	+ 4	30.9	35.5
Wellington		65.8	143	—	—	i 19 39	+ 4	e 30.5	—
Ekaterinburg		70.8	329	i 11 26	+ 4	i 20 38	+ 2	31.9	38.1
Baku		74.9	311	i 11 57	+ 9	i 21 41	+16	38.9	42.1
Kucino		83.1	325	e 13 12	+35	e 23 6	+ 8	38.4	45.7
Makeyevka		83.4	320	e 12 54?	+16	e 23 54?	?PS	36.9	45.5
Ksara	N.	86.2	305	e 13 1	+ 7	24 22	?PS	44.9	—
Pulkovo		86.8	330	12 51	- 7	e 23 32	- 7	40.9	45.9
Upsala		93.0	332	—	—	—	—	e 43.9	51.2
Copenhagen		97.1	330	—	—	—	—	45.9	52.5
Victoria	F.	98.1	40	—	—	—	—	45.7	—
Graz		98.5	32	—	—	—	—	e 49.9	56.2
Hamburg		99.2	327	—	—	—	—	e 47.9	52.9
Feldberg	N.	101.6	324	—	—	—	—	e 48.2	50.9
Florence		102.4	317	—	—	24 54?	[+18]	—	53.9
De Bilt		102.5	327	—	—	e 42 54?	?	e 51.9	54.7

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Strasbourg	102.7	324	—	—	—	—	e 54.9	—
Uccle	103.6	325	—	—	e 43 54?	?	e 50.9	55.8
Moncalieri	104.2	320	e 14 1	-30	33 36	?SR ₁	49.6	59.1
Stonyhurst	105.4	331	—	—	—	—	e 52.9	58.9
Paris	105.6	324	—	—	—	—	e 52.9	56.9
Kew	105.7	330	—	—	—	—	e 49.9	58.4
Bidston	106.0	331	—	—	—	—	50.9	57.9
Alicante	112.8	317	—	—	—	—	e 52.9	—
Toledo	114.3	320	—	—	—	—	e 55.9	66.7
Granada	115.5	316	—	—	—	—	e 65.9	71.9
Rio Tinto	117.2	320	10 54?	?	—	—	76.0	83.9
San Fernando	117.6	317	66 13	?L	71 58	?	e 63.9	79.1
Ottawa	124.1	17	—	—	e 38 18	?SR ₁	—	79.4
Toronto	N. 124.4	21	—	—	—	—	—	—
La Paz	163.3	126	20 24	[+14]	—	—	79.9	101.4

Additional readings: Manila iSR₁E = +6m.26s., iSR₁N = +6m.31s. Amboina i = +3m.7s. Batavia iP = +5m.23s., i = +5m.57s. Malabar iE = +5m.32s. = PR₁-6s., i = +10m.10s. = SR₁-8s. Osaka MN = +17.7m. Adelaide eS = +13m.41s., true S is given as i simply. MN = +18.3m. River-view MN = +30.4m. Melbourne i = +14m.19s. Wellington iE = +20m.5s. = PS-4s. Pulkovo S_cP_cS = +23m.19s. = [S] + 11s. Hamburg MZ = +62.9m. De Bilt eLN = +48.9m., MN = +55.6m., MZ = +66.0m.

Feb. 6d. 17h. 10m. 18s. Epicentre 39°5N. 15°0E. (as on 1913 June 28d.).

A = +.745, B = +.200, C = +.636; D = +.259, E = -.966;

G = +.614, H = +.165, K = -.772.

Very uncertain.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Pompeii	1.3	343	e 5 15	?	—	—
Rocca di Papa	2.9	322	e 0 46	+ 1	e 0 59	-21
Chur	8.3	332	e 2 12	+ 6	3 56	+11
Zurich	9.1	332	e 2 16	- 2	e 4 1	-5
Neuchatel	9.5	324	e 2 19	- 4	e 4 11	- 5

Rocca di Papa gives ePN = +47s.

Feb. 6d. Readings also at 0h. (near Hukuoka, near Toyooka, and near Zagreb), 8h. (La Paz), 10h. (Phu-Lien, Hong Kong, and near Taihoku), 11h. (Phu-Lien), 13h. (Azores), 18h. (near Amboina), 19h. (near Batavia and Malabar), 20h. (Ekaterinburg, Tashkent, and near Amboina), 22h. (Entebbe, Hong Kong, Phu-Lien, near Manila, and near Taihoku), 23h. (Florence and Ravensburg, Ekaterinburg, and Irkutsk).

Feb. 7d. 0h. 1m. 35s. Epicentre 1°5S. 88°5E.

(as on 1928 May 20d.).

A = +.026, B = +.999, C = -.026; D = +1.000, E = -.026;

G = -.001, H = -.026, K = -1.000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	12.0	314	3 5	+ 6	(5 17)	- 2	5.3	6.1
Kodalkanal	16.1	317	3 49	- 4	(6 55)	- 2	6.9	9.5
Batavia	18.9	105	14 23	- 5	17 51	- 9	i 7.9	—
Malabar	19.9	107	14 33	- 7	18 10	- 11	11.2	—
Hyderabad	21.4	333	5 7	+ 9	9 4	+ 11	11.9	15.2
Calcutta	N. 24.0	0	4 9	- 19	9 39	- 5	14.4	18.5
Bombay	25.5	324	5 49	+ 6	10 26	+ 13	13.5	15.6
Phu-Lien	28.5	37	16 9	- 4	e 11 2	- 6	13.4	17.0
Dehra Dun	33.4	344	4 57	- 123	10 27	- 123	15.8	20.8

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Simla	E.	34.3	342	7 19	+12	12 49	+ 5	—	25.9
	N.	34.3	342	7 7	0	12 37	- 7	19.8	22.7
Hong Kong	E.	34.6	46	5 5	-125	(12 31)	-18	12.5	21.2
Manila	E.	35.9	62	e 7 12	- 9	—	—	i 15.3	16.0
Amboina		39.7	93	i 3 3	?	—	—	17.4	—
Perth		39.9	143	e 7 32	-22	i 14 25	+20	i 17.0	22.9
Taihoku	E.	41.5	49	e 8 22	+15	14 28	0	22.2	28.2
Tananarive		43.7	244	18 8	-16	e 14 35	-23	i 20.5	23.0
Zi-ka-wei		45.2	40	18 31	- 3	15 17	- 1	25.0	26.0
Tashkent		46.2	340	18 39	- 2	i 15 31	0	—	27.4
Nagasaki		51.9	46	e 9 26	+ 7	21 2	?SR ₁	29.3	29.7
Hukuoka		52.7	45	e 16 58	?S	(e 16 58)	+ 6	21.6	32.4
Baku		54.7	325	i 9 41	+ 4	i 17 31	+14	27.3	31.3
Irkutsk		55.4	11	e 9 41	—	i 17 35	+ 9	—	30.5
Sumoto		56.3	47	e 29 21	?L	30 25	?	e 31.5	—
Kobe		56.6	46	9 55	+ 5	—	—	e 29.2	32.5
Osaka		56.9	46	11 21	+90	17 41	- 4	31.0	34.4
Toyooka		56.9	46	e 17 56	?S	(e 17 56)	+11	e 30.3	33.0
Adelalde		57.3	132	e 9 25	-29	i 17 33	-17	25.5	32.8
Ksara		60.7	312	i 11 44	+87	i 19 49	+77	26.6	—
Ekaterinburg		62.5	344	i 10 34	+ 5	i 19 2	+ 7	30.4	42.3
Helwan		62.8	306	10 42	+11	24 5	?SR ₁	—	39.4
Melbourne		63.1	133	i 10 25	- 8	i 18 55	- 7	i 29.9	31.9
Makeyevka		66.0	326	e 10 57	+ 6	i 19 47	+10	31.4	44.7
Riverview		66.7	128	e 10 53	- 3	e 19 39	- 7	e 27.0	38.4
Sydney		66.7	128	12 43	?	(19 55)	+ 9	19.9	20.9
Kucino		70.4	333	11 27	+ 8	20 36	+ 5	33.5	47.7
Cape Town		72.7	235	i 20 56	?S	(i 20 56)	- 2	—	56.9
Belgrade	N.	75.7	318	e 10 12	-101	e 19 47	?	e 39.7	—
Pulkovo		75.9	335	e 11 57	+22	21 40	+ 4	e 35.4	50.2
Budapest		77.4	320	12 25?	+22	21 56	+ 3	e 30.9	51.4
Helsingfors		78.5	334	e 11 23	-47	22 10	+ 4	46.9	—
Konigsberg		78.7	327	—	—	—	—	36.7	50.4
Pompeii		78.9	313	e 12 25	+13	e 22 25	+14	—	—
Zagreb		79.0	318	e 12 22	+ 9	e 22 10	- 2	e 32.9	59.0
Vienna		79.3	321	e 12 11	- 4	e 22 19	+ 4	e 42.4	55.4
Graz		79.6	321	i 12 26	+ 9	i 22 22	+ 3	31.4	44.6
Laibach		80.0	319	e 12 24	+ 5	e 23 11	?PS	43.4	—
Rocca di Papa		80.5	314	e 12 12	-10	e 22 25	- 4	e 40.7	—
Upsala		81.8	331	e 12.36	+ 7	e 22 40	+ 4	e 40.4	53.6
Florence		81.9	315	e 12 1	-29	e 22 45	0	e 34.4	44.4
Jena	E.	82.9	322	e 12 41	+ 6	e 22 52	- 4	e 48.4	56.1
	Z.	82.9	322	e 12 42	+ 7	e 22 55	- 2	—	—
Lund		83.0	327	—	—	22 55	- 1	—	—
Copenhagen		83.4	327	—	—	i 23 4	+ 3	46.4	53.8
Chur		83.6	318	e 12 40	0	i 23 9	+ 4	—	—
Zurich		84.3	318	e 12 42	- 2	i 23 3	- 8	—	—
Hamburg		84.4	325	e 12 57	+13	e 23 7	- 5	e 38.4	54.3
Moncalleri		84.6	316	12 40	- 6	e 23 4	-11	e 35.4	48.9
Feldberg	N.	84.8	321	—	—	e 23 8	- 9	e 46.7	56.6
Strasbourg		85.0	320	e 12 38	-10	e 23 5	-14	38.4	57.2
Neuchatel		85.3	318	e 12 47	- 3	i 23 20	- 2	—	—
Grenoble		86.0	316	e 13 5	+12	—	—	e 38.4	—
Besançon		86.0	318	e 13 38	+45	23 27	- 3	50.4	—
Wellington	E.	86.2	132	i 13 53	+59	i 23 2	[- 1]	e 35.4	49.1
	N.	86.2	132	i 14 0	+66	i 23 2	[- 1]	e 35.0	36.4
De Bilt		87.1	323	—	—	e 23 39	- 3	e 39.4	56.9
Algiers		87.2	308	e 12 58	?	23 40	- 3	43.4	56.9
Uccle		87.4	321	e 13 7	+ 6	e 23 34	-11	e 36.4	—
Paris		88.5	319	—	—	e 23 25	[+ 7]	50.4	64.4
Tortosa	N.	89.4	311	e 13 3	- 9	e 24 2	- 5	—	—
Alicante		90.1	310	e 22 23	?	—	—	e 28.5	—
Kew		90.4	322	e 13 25?	+ 7	e 24 8	-10	46.4	63.4
Oxford		91.1	322	—	—	—	—	53.4	59.1
Almeria		91.6	308	e 13 41	+16	24 28	- 3	e 50.3	54.0
Stonyhurst		91.8	323	—	—	—	—	e 45.4	62.9
Bidston		92.2	323	36 54	?	—	—	—	56.7
Edinburgh		92.2	325	—	—	—	—	e 54.4	—
Granada		92.6	308	e 13 25?	- 5	—	—	31.4	46.4
Toledo		92.9	310	—	—	24 34	-10	—	40.3
San Fernando		94.7	307	(13 38)	- 4	(25 38)	+35	(48.1)	(58.1)
Rio Tinto		95.0	308	16 25?	?	—	—	—	74.4
Scorsby Sund		98.1	342	—	—	e 32 25?	?SR ₁	54.4	68.0
Victoria	E.	125.0	25	—	—	—	—	52.6	67.7

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata	131.9	217	21 44	?PR ₁	—	—	59.4	—
Ottawa	N. 134.0	345	—	—	e 29 7	? E	e 66.4	76.4
Toronto	N. 136.5	348	—	—	e 40 55	?	52.7	80.7
Ithaca	136.9	343	—	—	—	—	63.4	—
Chicago	139.6	355	—	—	e 54 16	?	e 64.7	68.1
Georgetown	Z. 140.3	341	22 4	?PR ₁	—	—	86.7	39.7
St. Louis	142.9	356	e 19 42	[- 3]	—	—	e 65.6	93.1
Tucson	N. 144.2	28	e 19 47	[0]	—	—	65.0	—
Sucre	147.1	230	i 19 51	[0]	27 44	?	61.0	78.6
La Paz	150.8	231	e 20 2	[+ 5]	27 22	?	73.4	80.3

Additional readings and notes: Batavia iZ = +4m.21s., i = +4m.25s., iN = +7m.42s.; epicentre 2°-0S. 87°-9E. Malabar iN = +4m.40s. Phu-Lien MN = +20.0m. Manila iLN = +14.8m., MN = +17.6m. Perth ePR₁ = +9m.2s. Tananarive PcP = +9m.45s., PR₁ = +9m.54s., PR₂ = +10m.27s., PR₃ = +10m.42s., PcS = +13m.42s., PPPS = +14m.42s., SR₁ = +17m.42s., ScS = +18m.30s., SR₂ = +18m.46s., SR₃ = +19m.12s., MN = +21.2m. Zi-ka-wei PR₁ = +10m.27s., SR₁ = +19m.4s., MZ = +23.1m. Nagasaki MN = +30.1m. Osaka MN = +32.2m. Adelaide ePR₁ = +11m.49s., eSR₁ = +21m.38s. Riverview MN = +30.1m. Budapest MN = +47.9m. Helsingfors LN = +43.7m. Zagreb e = +30m.8s. Vienna iPZ = +12m.24s., PR₁ = +15m.40s., PR₂ = +16m.44s., PS = +23m.16s., SR₁ = +27m.55s. Graz i = +23m.10s. = PS-9s. Rocca di Papa ePE = +12m.22s. Upsala MN = +52.4m. Jena iPZ = +22m.57s., eE = +12m.43s., eZ = +15m.59s., eE = +16m.1s. = PR₁-12s., eSE = +22m.57s., eE = +28m.37s. = SR₁-18s., eLN = +43.4m., MN = +50.3m. Lund +28m.13s. = SR₁-43s. Copenhagen SR₁ = +28m.46s., eLN = +35.4m., MN = +49.2m., MZ = +53.5m. Hamburg eE = +28m.55s. = SR₁-21s., eL = +48.4m., MZ = +51.4m., MN = +52.8m. = SR₁-1s., +35m.54s. and +45m.31s. Strasbourg MZ = +58.2m. Wellington eSR₁E = +28m.41s. De Bilt eSR₁ = +29m.43s., eLN = +36.4m., MZ = +58.0m., MN = +61.0m.; epicentre 2°23'S. 86°59'E. Algiers iP = +13m.6s., PR₁ = +16m.31s. Uccle iSR₁ = +29m.45s. Tortosa eSE = +24m.0s. Kew ScP₁SE = +23m.47s. = [S] +17s., iPS = +25m.22s., iSR₁ = +30m.29s., eEN = +39m.13s., LZ = +50.4m., MN = +57.4m., MZ = +59.9m.; epicentre 0°-5S. 87°-5E. Almeria PR₁ = +17m.5s. Toledo MNW = +31.4m. San Fernando readings have been diminished by 11m. Victoria LN = +53.7m., MN = +64.7m. Ottawa e = +40m.25s. and +45m.25s. = SR₂-7s., eN = +47m.55s., eE = +54m.49s., eLE? = +63.4m., ME = +85.4m. Toronto ME = +79.8m. Chicago eE = +58m.37s., eN = +69m.57s. Georgetown PR₁Z = +25m.30s., iZ = +43m.48s. St. Louis i = +19m.53s., iN = +19m.57s. and +23m.53s., eN = +23m.0s., eE = +35m.24s., +41m.18s. = SR₁-9s., +47m.6s. = SR₁-23s., +54m.6s., +56m.59s., +59m.15s., and +64m.3s., eLN = +64.1m. Tucson LE = +61.4m. Sucre PR₁ = +24m.41s., SR₁ = +42m.47s. La Paz PR₁ = +24m.30s., SR₁N = +42m.27s., SR₁E = +43m.7s., SR₂E = +48m.57s., LN = +72.4m., MN = +87.2m.

Feb. 7d. 8h. 33m. 21s. Epicentre 7°-0N. 126°-0E. (as on Feb. 6d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	9.0	327	1 2 45	+29	(14 23)	+20	14.4	—
Phu-Lien	23.2	308	4 39?	-40	—	—	—	—
Batavia	23.2	296	1 5 4	-15	—	—	—	—
Tashkent	60.7	316	1 10 20	+3	1 18 38	+6	—	33.6
Ekaterinburg	70.8	329	e 11 22	0	1 20 36	0	—	34.6
Baku	74.9	311	—	—	1 21 22	-3	—	—

No additional readings.

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Feb. 7d. 13h. 23m. 33s. Epicentre 37°·0N. 137°·0E. (as on 1927 Sept. 5d.).

A = -·584, B = +·545, C = +·602 ; D = +·682, E = +·731 ;
G = -·440, H = +·410, K = -·799.

	Δ °	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Nagoya	1·8	182	e 0 26	- 2	(0 49)	- 2	0·8	1·0
Toyooka	2·2	230	10 37	+ 3	(10 52)	- 8	10·9	0·9
Osaka	2·6	208	0 48	+ 7	—	—	1·4	2·3
Kobe	2·8	212	0 42	- 2	(1 15)	- 2	1·2	1·4
Sumoto	3·2	213	e 0 52	+ 2	(1 30)	+ 2	1·5	1·6

Additional readings : Nagoya MNZ = +0·9m. Osaka MN = +2·5m.

Feb. 7d. 23h. 28m. 20s. Epicentre 41°·5N. 9°·0E. (as on 1922 Oct. 11d.).

A = +·740, B = +·117, C = +·663 ; D = +·156, E = -·988 ;
G = +·654, H = +·104, K = -·749.

	Δ °	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Rocca di Papa z.	2·8	85	e 0 42	- 2	1 7	-10	e 2·0	—
Florence	2·8	36	0 55	+11	2 5	+48	—	—
Moncalieri	3·6	346	0 51	- 5	1 28	-11	—	2·3
Grenoble	4·4	329	e 1 5	- 3	1 19	-42	—	—
Chur	5·3	4	e 0 59	-23	e 2 24	- 1	—	—
Zurich	5·9	358	e 0 48	-43	e 2 4	-37	—	—
Puy de Dôme	6·1	318	e 1 36	+ 3	i 2 28	-18	—	—
Tortosa N.	6·4	267	i 1 19	-19	—	—	—	—
Bagnères	6·6	287	e 2 6	+25	2 54	- 6	—	—
Strasbourg	7·1	352	e 2 1	+13	e 3 36	+23	—	—

Additional readings and notes : Rocca di Papa ePE = +17s., ePN = +24s.
Chur e = +1m.40s. and +2m.10s. Zurich gives epicentre at island of Corsica. Puy de Dôme and Tortosa readings are given without phase.

Feb. 7d. Readings also at 0h. (Stonyhurst, Taihoku, and near Wellington), 2h. (Amboina), 4h. (Jena, near Chur, Neuchatel, and Zurich), 6h. (Ottawa, Toronto, Georgetown, Baku, Ekaterinburg, Tashkent, near Batavia, and Malabar), 7h. (Rocca di Papa), 8h. (near Sumoto and Kobe), 11h. (near Neuchatel and Zurich), 15h. (La Paz, Melbourne, Suva, and Wellington), 16h. and 17h. (2) (Florence), 18h. (La Paz and St. Louis), 19h. (near Manila).

Feb. 8d. Readings at 0h. (Taihoku and near Wellington), 1h. (La Paz), 2h. and 3h. (2) (near Sumoto), 5h. (near Wellington), 14h. (near Toyooka), 15h. (Florence), 17h. and 18h. (La Paz), 19h. (Baku, Ekaterinburg, and Tashkent), 20h. (Sucre), 21h. (San Fernando, Ekaterinburg, Suva, and near Sumoto), 22h. (Baku).

Feb. 9d. Readings at 1h. (near Wellington (2)), 10h. (near Nagoya and Toyooka), 11h. (Rocca di Papa and near Victoria), 15h. (Almeria, Granada, near Tortosa, and near Mostar), 17h. (La Plata), 20h. (near Ksara and near Nagasaki (2)), 21h. and 23h. (near Wellington).

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Feb. 10d. 4h. 38m. 20s. Epicentre 18°·2N. 97°·5W.

(as on 1923 Feb. 8d.).

A = -·124, B = -·942, C = +·312; D = -·991, E = +·130;
G = -·041, H = -·309, K = -·950.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	o.	m. s.	s.	m. s.	s.	m.	m.
Puebla	1·1	322	(0 23)	+ 6	(0 28)	- 3	(0·5)	—
Oaxaca	1·3	141	(0 52)	+32	—	—	(1·2)	(1·2)
Tacubaya	1·4	307	0 43	+22	—	—	1·0	1·2
Vera Cruz	1·6	52	0 20	- 4	(0 42)	- 3	0·7	0·9
Guadalajara	6·2	295	1 16	-19	(2 32)	-17	2·5	2·9
Manzanillo	6·5	279	1 9	-30	(2 25)	-32	2·4	2·7
Mazatlan	9·7	302	—	—	—	—	4·7	—
Chihuahua	13·1	324	(3 40)	+26	(6 7)	+21	(6·4)	(8·1)
Tucson	18·5	322	4 24	+ 1	7 50	- 1	9·9	10·5
Denver	22·5	345	e 4 34	-37	e 8 17	-58	—	—
Cincinnati	23·8	25	i 5 22	- 4	i 9 35	- 5	e 11·5	—
Chicago	25·0	18	i 5 28	-10	i 9 49	-14	i 10·4	10·6
Charlottesville	25·9	36	e 6 3	+16	i 10 11	- 9	—	—
Georgetown	Z. 27·3	36	e 5 56	- 5	i 11 17	+31	—	20·9
Lick	E. 28·5	317	e 6 5	- 8	—	—	e 15·8	—
Berkeley	29·3	317	e 6 5	-16	—	—	e 15·3	—
Toronto	N. 29·7	27	e 6 25	0	i 11 0	-29	e 16·7	17·7
Ithaca	30·1	33	e 6 21	- 8	—	—	14·0	—
Ottawa	32·7	30	e 6 42	-12	i 11 56	-23	e 17·3	—
Harvard	N. 33·0	38	e 8 32	?PR ₁	i 12 54	+30	e 16·7	—
Victoria	E. 36·7	331	7 15	-13	12 55	-25	18·9	23·5
	N. 36·7	331	7 15	-13	12 57	-23	18·1	21·2
La Paz	E. 45·1	140	i 8 33	- 1	i 15 13	- 3	22·0	26·3
	N. 45·1	140	i 8 33	- 1	i 15 8	- 8	22·0	28·7
Sucre	48·9	140	i 8 58	- 1	i 16 3	- 2	25·4	28·6
La Plata	65·0	145	10 48	+ 3	19 27	+ 2	33·7	—
Oxford	79·6	40	—	—	i 22 20	+ 1	—	—
Río Tinto	79·6	54	23 40?	?S	(23 30?)	+81	—	57·7
Kew	80·2	40	i 12 22	+ 2	i 22 26	+ 1	38·7	44·7
San Fernando	80·3	55	12 23	+ 2	22 27	0	48·1	54·5
Toledo	81·0	51	12 27	+ 2	22 35	0	e 37·3	53·1
Malaga	81·6	54	i 12 32	+ 4	22 40	- 2	30·8	—
Granada	82·1	53	i 12 32	+ 1	i 22 50	+ 3	e 39·7	49·0
Paris	82·8	41	e 12 36	+ 1	i 22 51	- 4	42·7	—
Almeria	83·1	53	i 12 36	+ 1	i 22 55	- 3	40·0	46·6
De Bilt	83·2	38	i 12 38	+ 1	i 23 0	+ 1	e 39·7	—
Uccle	83·2	39	i 12 37	+ 0	i 22 47	-12	e 34·7	—
Tortosa	N. 84·1	50	e 12 39	- 4	—	—	—	—
Alicante	84·1	51	e 12 42	- 2	e 23 0	- 9	—	—
Hamburg	Z. 85·4	35	i 12 48	- 4	—	- 4	—	—
Besançon	85·5	43	12 47	- 4	23 21	- 4	—	—
Copenhagen	85·6	32	e 12 48	- 3	i 23 30	+ 4	40·7	—
Feldberg	N. 85·8	39	—	—	e 23 20	- 8	e 43·6	50·2
Strasbourg	86·1	40	i 12 50	- 4	i 23 28	- 3	31·7	—
Lund	86·1	31	—	—	e 23 28	- 3	—	—
Upsala	86·2	27	e 12 49	- 5	e 23 25	- 7	—	—
Zurich	87·1	42	i 12 56	- 4	i 23 37	- 5	—	—
Algiers	87·3	51	12 57	- 4	23 25	-19	39·7	41·2
Jena	87·4	38	e 12 56	- 5	23 40	- 5	—	—
Moncalieri	87·5	43	13 4	+ 2	23 31	-16	37·1	—
Rocca di Papa	92·1	45	13 23	- 5	e 24 27	- 9	e 40·0	—
Zagreb	92·3	40	e 13 22	- 7	e 23 46	[+ 4]	—	—
Kucino	97·0	23	—	—	e 23 39	[+ 29]	48·7	54·0
Wellington	E. 100·2	230	e 13 1	-71	1 24 26	[+ 1]	e 46·0	—
	N. 100·2	230	—	—	i 24 27	[+ 2]	e 47·8	—
Ekaterinburg	102·8	12	—	—	—	—	48·7	56·7
Makeyevka	102·8	29	—	—	e 25 17	?Σ	42·7	53·3
Irkutsk	107·0	346	(18 28)	[+16]	—	—	18·5	—
Ksara	111·6	40	—	—	27 40?	- 2	—	—
Baku	114·0	26	e 22 20	? [+71]	e 26 7	[+41]	55·7	61·0
Riverview	117·4	241	—	—	—	—	e 55·2	—
Tashkent	119·3	11	i 19 7	[+17]	26 18	[+35]	e 56·7	61·7
Phu-Lien	134·4	328	20 40?	[+71]	—	—	—	—
Bombay	141·7	15	19 43	[+ 1]	23 16	?PR ₁	25·3	—

For Notes see next page.

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NOTES TO FEB. 10d. 4h. 38m. 20s.

Additional readings and notes: Puebla readings have been diminished by 1m. Oaxaca readings have been increased by 1m. Chihuahua readings have been increased by 2m. Tucson $PR_1 = +4m.44s.$, $eN = +8m.29s.$, $LN = +9.8m.$, $MN = +10.7m.$ Cincinnati $iPR_1 = +5m.50s.$, $iPR_2 = +6m.0s.$, $eP_1P = +8m.52s.$, $i = +10m.16s.$, $eN = +10m.27s.$ Chicago $iE = +5m.51s.$ Georgetown $iZ = +6m.20s.$ Berkeley $ePE = +6m.6s.$, $ePZ = +6m.7s.$, $eZ = +7m.18s.$, $eN = +7m.24s.$ Ithaca $e = +7m.7s. = PR_1 - 12s.$ Ottawa $iP = +7m.3s.$, $i = +7m.55s. = PR_1 + 2s.$, $e = +12m.42s.$, $eLE? = +14.9m.$; $T_1 = 4h.38m.26s.$ La Paz $PR_1N = +11m.5s. = PR_2 + 7s.$, $PR_2N = +12m.28s.$ $iE = +16m.18s.$, $SR_1E = +17m.35s.$, $SR_2E = +19m.28s.$ Sucre $PR_1 = +11m.50s. = PR_2 + 2s.$, $SR_1 = +18m.50s.$ San Fernando $MN = +54.1m.$ Granada $SPS = +23m.24s.$ De Bilt $iZ = +13m.2s.$, $eLN = +36.7m.$ Uccle $i = +12m.58s.$, $eSR_1 = +28m.9s.$ Copenhagen $ePSE = +24m.46s.$ Feldberg $eN? = +23m.2s.$, $iN = +23m.53s.$, and $+24m.51s.$, $eN = +29m.10s. = SR_1 - 24s.$, and $+37m.41s.$ Jena $eN = +24m.8s.$ Kucino $e = +26m.57s.$ Makeyevka $e = +33m.40s.?$

Feb. 10d. Readings also at 6h. (Georgetown and near Tashkent), 9h. (Ekaterinburg, Tashkent, near Malabar, and near Mizusawa), 10h. (Baku), 11h. (near Zagreb), 15h. (Tucson), 20h. (Suva).

Feb. 11d. 1h. 29m. 8s. Epicentre $43^\circ.8N. 15^\circ.7E.$ (as on 1925 May 30d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zagreb	2.0	6	e 0 28	- 3	10 56	+ 1	—	1.2
Venice	2.9	304	e 0 56	+ 1	1 50	+30	—	—
Rocca di Papa	3.0	223	e 0 56	+ 9	1 43	+20	—	—
Pompeii	3.1	197	e 1 46	?L	—	—	(e 1.8)	—
Naples	E. 3.1	205	e 0 33	-16	—	—	—	—
Florence	3.2	272	e 1 7	+17	—	—	—	2.4
Belgrade	E. 3.6	71	e 0 52	- 4	11 29	-10	—	1.6
N.	3.6	71	e 0 57	+ 1	11 32	- 7	—	—
Budapest	4.4	31	e 1 37	+29	—	—	2.6	—
Vienna	4.5	6	1 0	-10	2 1	- 3	—	2.9
Innsbruck	N.W. 4.6	322	3 10	?	14 18	?	i 4.5	—
Moncalieri	Z. 5.8	285	1 28	- 2	2 42	+ 3	—	—
Zurich	6.1	309	e 1 35	+ 2	12 47	+ 1	—	—
Neuchatel	6.9	300	11 49	+ 4	13 7	0	—	—
Strasbourg	7.3	314	e 1 56	+ 5	e 3 19	+ 1	—	—
Besançon	7.6	300	—	—	e 3 24	- 2	—	—
Jena	E. 7.6	340	—	—	e 3 18	- 8	e 4.1	4.3

Additional readings: Zagreb $iP = +29s.$, $iPR_1 = +31s.$, $iR_1P = +36s.$, $iPR_2 = +43s.$, $iRP_2P = +49s.$, $iR_2P_2S = +52s.?$, $iR_2P_2S = +59s.$, $iR_1P_2S_2 = +1m.3s.$, $iSR_1 = +1m.8s.$, $iR_2P_2S_2 = +1m.16s.$, $iSR_2 = +1m.18s.$ Venice $S = +2m.56s.$ Rocca di Papa $eP = +59s.$, $P = +1m.9s.$ Vienna $PS_2 = +2m.16s.$; epicentre $43^\circ.7N. 15^\circ.5E.$ Innsbruck $iNW = +3m.26s.$; epicentre $43^\circ.7N. 15^\circ.5E.$ Jena $iE = +3m.46s.$ and $+3m.48s.$, $MN = +4.4m.$

Feb. 11d. 11h. 7m. 24s. Epicentre $3^\circ.5S. 102^\circ.5E.$ (as on 1919 Oct. 3d.).

$A = -.216$, $B = +.975$, $C = -.061$; $D = +.976$, $E = +.216$;
 $G = +.013$, $H = -.060$, $K = -.998$.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Batavia	5.1	123	11 22	+ 3	12 20	0
Malabar	6.3	126	11 18	-18	12 20	-32
Manila	25.7	45	e 4 24	-81	—	—
Tashkent	54.1	329	19 21	-13	116 52	-18
Baku	65.0	318	—	—	119 18	- 7

Batavia gives also $iN = +1m.59s.$, $iS = +2m.22s.$, $i = +2m.26s.$

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Feb. 11d. 18h. 26m. 20s. Epicentre 32°·0N. 1°·5W.

A = +·848, B = -·022, C = +·530; D = -·026, E = -1·000;
G = +·530, H = -·014, K = -·848.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Almeria	4·9	352	e 1 17	+ 1	2 14	0	—	2·7
Malaga	5·3	334	e 1 37	+15	(2 2)	-23	2·0	—
Granada	5·5	342	e 1 23	- 2	i 2 30	- 1	—	2·8
San Fernando	5·9	320	e 2 44	?S	(2 44)	+ 3	4·0	4·5
Algiers	6·1	37	e 2 54	?S	(e 2 54)	+ 8	(4·0)	4·1

Additional readings and note: Almeria gives PR = +1m.33s., +1m.46s., +1m.54s., and +2m.4s. Granada iP = +1m.35s., i = +1m.39s., +1m.58s., and +2m.10s. San Fernando S = +3m.30s. Algiers gives S as P and L as S.

Feb. 11d. 21h. 10m. 12s. Epicentre 36°·5N. 139°·5E. (as on 1927 Sept. 7d.).

A = -·611, B = +·522, C = +·595; D = +·649, E = +·760;
G = -·452, H = +·386, K = -·804.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	2·5	238	i 0 44	+ 5	0 59	-10	1·3	1·7
Mizusawa	2·9	26	0 57	+12	1 30	+10	—	—
	2·9	26	0 56	+11	1 28	+ 8	—	—
Osaka	3·3	242	1 6	+ 7	—	—	2·2	2·9
Toyooka	3·9	265	i 1 8	+ 7	(i 2 7)	+20	i 2·1	2·3
Kobe	4·0	244	1 2	0	1 47	-3	2·1	2·5
Sumoto	4·3	242	1 11	+ 4	(2 10)	+12	2·2	2·6
Hukuoka	8·0	251	2 4	+ 3	—	—	4·3	4·6
Nagasaki	8·8	248	e 3 0	+47	5 10	?L	(5·2)	6·7
Irkutsk	29·2	314	e 7 10	+50	e 11 0	-20	16·5	17·2
Tashkent	53·4	298	i 9 23	- 6	16 56	- 5	e 26·8	33·4
Ekaterinburg	54·3	320	i 9 31	- 4	17 9	- 4	26·8	—
Kucino	66·4	323	—	—	—	—	e 27·8	—
Baku	67·1	304	e 10 58	- 1	e 19 55	+ 4	35·8	43·9
Pulkovo	67·6	330	e 10 59	- 3	i 15 58	?PR ₂	—	—
La Paz	148·4	58	19 46	[- 7]	—	—	—	—

Additional readings: Osaka MN = +3·1m. Kobe P = +1m.5s., MNZ = +2·2m. Sumoto MN = +2·5m. Hukuoka MN = +4·5m.

Feb. 11d. Readings also at 2h. (near Wellington), 7h. (near Manila), 10h. (Bombay), 13h. (Tananarive, Baku, and Tashkent), 14h. (near Ksara), 15h. (La Paz), 16h. (Bombay and Calcutta), 18h. (near Taihoku), 20h. (Azores).

Feb. 12d. Readings at 6h. (near Manila), 7h. (Copenhagen, Ekaterinburg, Kucino, and Pulkovo), 12h. (near Toyooka), 13h. (near Mizusawa), 15h. (Perth, Riverview, Sydney, Wellington, Ekaterinburg, and Tashkent), 16h. (Copenhagen, Georgetown, Toronto, and Ottawa), 17h. (San Fernando).

Feb. 13d. 5h. 33m. 27s. Epicentre 12°·0N. 141°·5E. (as on 1925 Oct. 31d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	20·1	280	i 5 1	+19	1 8 26	+ 1	1 9·9	—
Taihoku	22·9	307	—	—	—	—	10·1	—
Sumoto	23·1	347	e 5 7	-11	(e 9 30)	+ 3	e 9·5	10·1
Nagasaki	23·3	335	e 5 48	+22	9 23	- 8	—	—
Kobe	23·4	347	e 5 40	+19	e 9 27	- 6	—	—
Hukuoka	23·8	337	5 17	- 9	(9 48)	+ 8	9·8	10·4
Toyooka	24·3	347	e 5 41	+10	(i 10 13)	+23	1 10·2	10·5
Zi-ka-wei	26·6	319	e 5 52	- 2	e 10 53	+20	—	16·1

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.
Mizusawa	K.	27.1	359	(6 10)	+11	6 10	?P	—	—
Hong Kong		28.0	296	6 10	+2	7 3	?	—	13.4
Phu-Lien		34.5	290	6 33?	-36	—	—	15.6	—
Batavia		38.9	243	1 7 46	+1	i 13 49	-2	—	—
Riverview		46.8	170	—	—	—	—	e 24.6	26.6
Melbourne		49.9	177	—	—	i 16 5	-13	i 21.1	26.6
Irkutsk		50.1	331	9 4	-4	16 5	-15	21.0	—
Wellington	E.	61.5	152	—	—	i 18 15	-27	—	—
Tashkent		68.8	311	11 14	-14	20 5	-7	30.6	40.2
Ekaterinburg		74.9	326	i 11 49	+1	i 21 16	-9	33.6	40.4
Baku		83.5	311	e 12 38	-1	i 22 57	-6	42.0	45.6
Victoria		84.5	42	22 34	?S	(22 34)	[-19]	39.1	41.8
Kucino		87.5	327	—	—	—	—	41.8	47.0
Makeyevka		89.8	320	e 13 49	+34	e 23 23	[-4]	36.6	47.0
Pulkovo		89.9	333	i 13 30	+15	e 24 14	+1	42.6	54.4
Scoresby Sund		93.7	355	—	—	24 33?	?E	—	—
Lund		99.1	335	—	—	25 15	?E	—	—
Copenhagen		100.1	335	e 18 27	?PR ₁	e 25 9	?E	49.6	—
Hamburg		102.6	334	—	—	—	—	e 52.6	—
Graz		103.9	325	—	—	—	—	e 53.6	—
Feldberg	N.	105.5	331	—	—	—	—	e 55.0	58.2
De Bilt		105.7	334	—	—	e 28 33	?PS	e 51.6	56.7
Strasbourg		107.0	330	—	—	(e 28 33?)	?PS	e 54.6	—
Uccle		107.0	334	e 28 45	?PS	—	—	e 53.6	—
Kew		108.0	336	—	—	e 29 33?	?	56.6	—
Paris		109.2	334	—	—	—	—	e 59.6	60.6
Ottawa		113.5	27	—	—	e 26 15	?E	54.6	—
Georgetown	Z.	117.7	33	—	—	e 24 11	?	e 41.9	—
Rio Tinto		122.0	330	63 33?	?L	—	—	(63.6)	72.6
San Fernando		122.8	330	—	—	51 13	?	64.7	68.6
La Paz		151.0	102	19 54	[-3]	21 18	?	21.6	—

Additional readings: Manila iSN = +8m.8s. Sumoto eS = +7m.30s., MN = +10.3m. Batavia iEZ = +7m.49s., i = +10m.8s. Melbourne readings have been diminished by 1hr. Riverview e = +22m.15s., MN = +30.2m. Wellington iN = +18m.16s. Copenhagen eZ = +26m.33s., eEN = +32m.33s., eZ = +36m.33s.? De Bilt MN = +58.8m. Kew eEN = +34m.33s.? = SR₁ +15s. Ottawa e = +29m.33s. = PS -3s. and +35m.33s.? = SR₁ +7s., eL = +46.6m. San Fernando MN = +69.4m.

Feb. 13d. 16h. 34m. 50s. Epicentre 8°-5S. 124°-5E. (as on 1919 Mar. 13d.).

A = -560, B = +815, C = -148; D = +824, E = +566;
G = +084, H = -122, K = -989.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina		6.1	38	i 0 32	-61	i 1 34	-72	—	—
Batavia		17.6	276	e 4 14	+2	—	—	e 11.2	—
Manila		23.4	351	e 5 31	+10	(e 9 28)	-5	e 9.5	—
Perth		24.8	198	e 9 55	?S	(e 9 55)	-4	e 10.4	—
Adelaide		29.4	156	—	—	e 10 55?	-29	11.9	14.4
Phu-Lien		34.2	329	e 6 45	-22	—	—	15.2	—
Melbourne		34.6	150	—	—	i 12 35	-14	119.3	19.9
Riverview		35.3	141	—	—	i 14 2	?	e 20.5	22.4
Sydney		35.3	141	12 52	?S	(12 52)	-8	20.2	21.4
Colombo		47.1	289	0 10?	?	—	—	—	31.2
Wellington	E.	55.1	185	—	—	—	—	i 27.1	—
Bombay		57.8	300	—	—	e 18 10?	+14	—	—
Irkutsk		63.2	348	—	—	(18 52)	-11	18.9	—
Tashkent		71.0	320	11 23	0	i 20 42	+4	e 32.2	39.2
Ekaterinburg		83.4	331	e 12 35	-3	e 22 52	-9	33.2	—
Baku		84.1	314	—	—	e 24 2	?PS	e 42.2	—
Kucino		95.1	326	—	—	e 24 10	[-12]	50.9	58.4
Pulkovo		99.4	330	e 18 34	?PR ₁	—	—	49.2	70.0
Copenhagen		109.4	326	—	—	e 29 10?	?PS	66.2	—
De Bilt		114.5	323	—	—	—	—	e 62.2	—
La Paz		152.0	154	20 14	[+15]	—	—	—	—

Additional readings: Amboina i = +5m.47s., and suggests a possible error in the minutes. Batavia iZ = +4m.19s. Melbourne readings have been diminished by 1h. Riverview MN = +24.0m. Kucino e = +27m.46s. and +35m.11s.

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Feb. 13d. Readings also at 0h. (near Tacubaya), 4h. (Manila), 6h. (near Nagasaki), 10h. (Azores), 11h. (Wellington and near Sumoto), 12h. (Melbourne), 14h. (Alicante), 18h. (Graz), 21h. (near Wellington (2)), 22h. (Apia, Suva, and near Wellington).

Feb. 14d. Readings at 1h. (near Amboina, near Toyooka, near Neuchatel, and Zurich), 8h. (San Fernando), 9h. (Baku and Tashkent), 11h. (near Taihoku), 13h. (near Toyooka), 15h. (Tucson), 16h. (near Nagasaki and near Rocca di Papa), 19h. (Tucson), 23h. (near Toyooka and near Nagasaki).

Feb. 15d. 13h. 59m. 55s. Epicentre 34° 0'N. 136° 0'E. (as on 1927 Dec. 2d.).

$$A = -596, B = +576, C = +559.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Sumoto	0.9	291	0 15	+ 1	(0 21)	- 4	0.4	0.4
Kobe	1.0	316	0 18	+ 3	(0 23)	0	0.5	0.5
Nagoya	1.4	33	—	—	—	—	e 1.0	—
Toyooka	1.8	328	10 31	+ 3	(10 50)	- 1	10.8	0.9

No additional readings.

Feb. 15d. Readings also at 0h. (La Plata), 2h. (Taihoku and Tucson (3)), 6h. (La Plata), 9h. (near Santiago), 14h. (Wellington and Suva), 17h. (Mizusawa).

Feb. 16d. Readings at 3h. and 4h. (Wellington), 5h. (near Osaka), 6h. (La Paz, Toronto, and Ottawa), 7h. (Ekaterinburg, Tashkent, and Perth), 8h. (La Plata, Stonyhurst, near Amboina, near Santiago, and near Sumoto), 16h. (near Amboina), 18h. (Azores), 20h. (Neuchatel and near Zurich), 21h. (Manila and Ekaterinburg), 22h. (Tashkent).

Feb. 17d. 12h. 39m. 15s. Epicentre 10° 5'S. 157° 0'E. (as on 1926 Oct. 1d.).

$$A = -905, B = +384, C = -182; D = +391, E = +921; G = +168, H = -071, K = -983.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Riverview	24.0	192	i 5 40	+12	i 9 59	+15	e 11.8	15.6
Sydney	24.0	192	9 57	?S	(9 57)	+13	13.8	14.2
Melbourne	29.4	200	e 6 15	- 7	i 11 25	+ 1	14.6	19.2
Adelaide	29.7	211	—	—	e 11 17	-12	16.3?	21.1
Wellington E.	34.6	158	i 7 11	+ 1	i 12 31	-18	16.7	—
Christchurch	35.7	163	—	—	(12 49)	-17	12.8	22.4
Perth	43.6	235	e 14 45	?S	(e 14 45)	-11	23.3	25.2
Manila E.	43.6	306	e 8 45?	+22	—	—	—	—
Zi-ka-wei Z.	53.9	322	e 9 1	-31	—	—	—	—
Bombay	87.9	290	—	—	e 23 45?	- 6	—	—
Victoria R.	91.1	41	24 49	?S	(24 49)	+24	41.3	43.1
Tashkent	95.2	312	e 18 3	?PR ₁	e 23 45	[-13]	e 54.8	62.2
Ekaterinburg	102.2	326	e 17 39	[-16]	e 32 55	?SR ₁	44.2	—
Baku	109.8	310	—	—	—	—	e 57.2	—
St. Louis	114.3	51	—	—	—	—	e 57.8	60.9
Pulkovo	117.0	333	—	—	e 30 37	?PS	58.8	—
Toronto N.	121.3	43	—	—	e 37 2	?SR ₁	64.4	—
Ottawa	123.2	40	—	—	(e 26 45?)	?	60.8	—
Copenhagen	127.0	336	—	—	—	—	60.8	—
La Paz	127.8	120	19 6	[- 7]	—	—	—	—
Feldberg	132.6	333	—	—	—	—	e 67.8	—
Almeria N.	147.7	328	i 19 31	[-21]	—	—	—	81.9
Granada	148.1	350	i 19 38	[-15]	e 20 23	?	e 70.8	—
San Fernando	149.9	331	71 54	?L	77 4	?	79.8	90.6

Additional readings and note: Riverview iS = +10m.18s.; T₁ = 12h.39m.16s. Sydney readings are given for 14h. Melbourne iSR₁ = +12m.58s. Adelaide MN = +18.0m. Wellington iN = +8m.29s. = PR₁ +11s., eLN = +17.8m.; T₁E = 12h.39m.41s. Perth L = +23.9m. Granada L = +86.2m. San Fernando MN = +90.4m.

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Feb. 17d. 23h. 13m. 0s. Epicentre $0^{\circ}0'28''$ W. (as on 1923 Aug. 8d.).

A = +.881, B = -.473, C = .000; D = -.473, E = -.881;
G = .000, H = .000, K = -1.000.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	m. s.	s.	m. s.	s.	m.	m.
Sucre	41.0	240	8 16	+13	—	—	21.2	24.7
San Fernando	41.8	27	11 4	?	16 14	?	20.2	24.7
La Paz	42.7	244	e 8 15	- 1	i 14 44	0	21.9	25.5
Granada	43.6	28	—	—	—	—	e 22.0	27.0
La Plata	44.1	216	—	—	—	—	—	25.0
Kew	56.6	21	—	—	—	—	e 26.0	—
De Bilt	59.1	25	—	—	—	—	e 26.0	—
Ottawa	61.7	325	—	—	e 18 42	- 2	30.0	—
Toronto	N. 63.0	321	—	—	e 19 0?	- 1	—	—
Copenhagen	64.7	25	—	—	—	—	—	28.0
Baku	81.0	50	—	—	—	—	e 44.0	50.9
Ekaterinburg	89.4	34	—	—	23 57	-10	35.0	—
Victoria	N. 93.4	320	24 33	?S	(24 33)	-16	43.5	44.2
Tashkent	95.6	49	—	—	—	—	e 47.0	61.9

Additional readings: San Fernando MN = +25.4m.; readings for P and S are given with doubtful phase. Ottawa eL = +25.0m. Victoria SN = +31m.19s. = SR, +5s.

Feb. 17d. Readings also at 0h. (Apia), 3h. and 5h. (2) (near Wellington), 8h. (La Paz and near Sumoto), 10h. (Suva), 13h. (near Taihoku), 15h. (Tashkent).

Feb. 18d. 14h. 33m. 30s. Epicentre $32^{\circ}58'69''$ W. (as on 1927 Sept. 30d.).

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

The depth of focus 0.015, used on previous occasions with this epicentre, is retained.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	o	o	o	m. s.	s.	m. s.	s.	m.	m.
Santiago	+0.3	1.4	315	e 0 51	+25	1 26	+38	1.8	—
La Plata	-0.2	10.0	108	2 27	0	4 20	- 3	5.1	—
Sucre	-0.4	14.0	17	3 19	- 2	5 55	- 3	7.3	8.0
La Paz	-0.4	16.0	5	3 45	- 2	e 7 7	+21	8.8	—

No additional readings.

Feb. 18d. Readings at 1h. (La Paz and near Sucre), 6h. (Ekaterinburg), 7h. (Tashkent), 9h. (San Fernando, Nagoya, near Sumoto (2), and Toyooka), 10h. (near Tacubaya), 11h. (near Rocca di Papa), 12h. (Taihoku), 13h. (Suva), 19h. (near Belgrade), 20h. (near Toyooka).

Feb. 19d. 20h. 42m. 10s. Epicentre $37^{\circ}2'N$. $3^{\circ}6'W$. (as on 1925 Feb. 7d.).

A = +.795, B = -.050, C = +.605.

	Δ	P.	O-C.	S.	O-C.	L.	M.
	o	m. s.	s.	m. s.	s.	m.	m.
Granada	0.0	i 0 1	+ 1	i 0 4	+ 4	—	0.2
Malaga	0.8	0 13	+ 1	(e 0 25)	+ 3	e 0.4	—
Almeria	1.2	e 0 15	- 3	0 31	- 2	—	0.8

Almeria gives also PR = +27s. and +35s.

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Feb. 19d. 21h. 9m. 22s. Epicentre 60°-0N. 150°-0W.

A = -·433, B = -·250, C = +·866; D = -·500, E = +·866;
G = -·750, H = -·433, K = -·500.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Victoria	19·2	115	4 32	+ 1	8 9	+ 3	9·9	10·6
St. Louis N.	42·5	93	e 7 38?	-37	e 14 38?	- 4	e 21·6	25·6
Ottawa	44·6	76	—	—	—	—	e 21·6	—
Irkutsk	53·0	314	—	—	—	—	e 28·6	—
Pulkovo	60·2	0	i 10 12	- 1	—	—	30·6	—
Ekaterinburg	60·7	343	i 10 19	+ 2	i 18 32	0	29·1	37·7
Copenhagen	63·4	11	—	—	—	—	33·6	—
De Bilt	66·1	17	—	—	—	—	e 33·6	—
Uccle	67·3	19	—	—	—	—	36·6	—
Feldberg N.	68·4	15	—	—	—	—	—	43·9
Makeyevka	71·8	355	—	—	—	—	43·6	—
Moncalieri	73·4	17	—	—	e 18 48	?	—	—
Tashkent	73·7	330	i 11 40	0	i 21 11	+ 1	e 34·6	48·6
Baku	78·3	346	—	—	—	—	41·6	56·4
Granada	79·0	28	—	—	—	—	e 43·6	50·4
San Fernando N.	79·1	29	—	—	—	—	—	48·7
Almeria	79·5	27	—	—	—	—	—	51·6

Additional readings: St. Louis gives also iN = +9m.38s. ? = PR₁ - 13s. Irkutsk e = +25m.38s. ? Tashkent iS_CP_CS = +21m.51s.

Feb. 19d. Readings also at 0h. (near Tashkent), 1h. (Simla, Baku, Ekaterinburg, and near Tashkent), 2h. (near Sumoto), 3h. (Honolulu T.H.), 6h. (Suva and Wellington), 8h. (near Toyooka), 18h. (near Toyooka), 19h. (Almeria, St. Louis, near Tacubaya, and Oaxaca), 20h. (Florence, near Neuchatel, and Zurich), 22h. (Granada, Tortosa, Rocca di Papa, Strasbourg, Kew, De Bilt, Uccle, Edinburgh, Feldberg, Copenhagen, Ekaterinburg, Pulkovo, and Tashkent), 23h. (Baku).

Feb. 20d. 3h. 2m. 33s. Epicentre 35°-5N. 133°-5E.

A = -·560, B = +·591, C = +·581; D = +·725, E = +·688;
G = -·400, H = +·421, K = -·814.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Toyooka	1·1	88	i 0 22	+ 5	(i 0 40)	+ 9	i 0·7	0·7
Kobe	1·6	120	0 24	0	(0 44)	- 1	0·7	0·7
Sumoto	1·7	135	i 0 22	- 4	(i 0 41)	- 7	i 0·7	0·8
Matuyama	1·8	200	i 0 3	-25	—	—	—	0·3
Osaka	1·9	118	0 30	+ 1	(0 56)	+ 3	0·9	2·1
Nagoya	2·9	97	e 0 57	+12	(1 36)	+16	1·6	2·3
Hukuoka	3·2	234	0 46	+ 4	1 22	- 6	—	1·5
Nagasaki	4·1	229	e 1 6	- 2	(1 50)	- 3	1·8	2·2

Additional readings: Sumoto MN = +0·7m. Osaka MN = +1·7m.
Nagoya MN = +2·0m. Nagasaki P = +1m.14s., MN = +1·9m.

Feb. 20d. Readings also at 4h. (Wellington), 13h. (near Nagasaki), 14h. (near Toyooka), 20h. (Rio Tinto).

Feb. 21d. 19h. 48m. 58s. Epicentre 67°-0N. 172°-0W.

A = -·387, B = -·054, C = +·921; D = -·139, E = +·990;
G = -·912, H = -·128, K = -·391.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sitka E.	19·5	103	i 4 42	+ 7	e 8 26	+ 13	e 10·1	12·6
N.	19·5	103	i 5 0	+25	18 21	+ 8	e 10·0	12·0
Victoria	30·8	102	e 6 28	- 8	11 36	-12	15·7	17·6
Ootomari	30·8	252	e 6 18	-18	12 32	+44	16·4	18·6
Spokane	33·6	97	i 6 56	- 5	e 12 18	-16	e 17·5	19·0
Mizusawa E.	38·0	245	i 7 27	-11	13 30	- 8	17·9	—

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	41-0	291	i 7 51	-12	i 14 4	-17	—	25-1
Scoresby Sund	41-0	16	—	—	14 1	-20	22-0	23-6
Berkeley	41-3	110	e 7 44	-21	e 13 56	-29	—	—
Toyooka	43-5	250	e 14 52	?S	(e 14 52)	-3	22-6	25-6
Osaka	44-0	250	8 24	-2	14 55	-7	21-9	29-1
Kobe	44-1	250	8 11	-16	e 14 50	-13	e 22-1	25-9
Sumoto	44-5	250	e 8 22	-8	e 15 38	+29	e 22-8	28-1
Denver	45-2	92	i 8 40	+6	14 13	-65	22-0	27-0
Honolulu T.H.	46-6	162	—	—	e 15 25	-11	21-4	—
	46-6	162	—	—	e 15 22	-14	22-0	—
Hukuoka	46-8	256	15 45	?S	(15 45)	+7	26-0	29-4
Nagasaki	47-8	256	e 8 41	-12	15 44	-7	26-6	28-3
Tucson	E. 49-4	103	9 2?	-1	16 12	+1	24-2	—
	N. 49-4	103	9 2	-1	16 8	-3	25-1	—
Chicago	E. 50-1	76	i 9 0	-8	i 16 13	-7	i 26-8	28-7
	N. 50-1	76	i 8 58	-10	i 16 9	-11	i 27-1	28-7
Ekaterinburg	50-1	325	i 9 3	-5	i 16 15	-5	23-5	35-3
Ottawa	51-3	63	i 9 14	-1	i 16 26	-9	e 24-0	28-7
Toronto	E. 51-5	68	—	—	e 16 22	-16	24-0	27-8
	N. 51-5	68	i 9 10	-7	e 16 21	-17	—	27-9
St. Louis	51-8	80	i 9 12	-7	e 16 17	-24	e 23-8	27-1
Pulkovo	52-2	346	i 9 17	-4	i 16 38	-8	25-0	31-7
Helsingfors	52-2	349	e 9 20	-1	e 16 37	-9	25-5	—
Zi-ka-wei	52-4	263	i 9 22	0	16 49	0	—	31-1
Bergen	52-6	2	—	—	e 17 2?	+11	—	—
Upsala	53-0	354	e 9 20	-6	e 16 46	-10	e 24-0	28-2
Cincinnati	53-6	75	e 9 29	-1	i 17 0	-4	e 26-3	30-0
Ithaca	54-0	66	—	—	e 17 22	+13	27-0	—
Kucino	55-2	340	9 39	-1	i 17 21	-3	24-4	35-3
Dyce	55-6	8	—	—	—	—	29-0	33-7
Harvard	55-6	61	—	—	e 17 28	-1	e 27-0	—
Georgetown	Z. 56-5	69	i 9 33	-16	i 17 20	-20	27-0	34-9
Charlottesville	E. 56-8	70	e 9 50	-1	e 17 32	-12	25-2	31-0
	N. 56-8	70	e 9 50	-1	e 17 42	-2	25-5	31-0
Edinburgh	56-8	8	—	—	i 17 44	0	32-0	62-7
Copenhagen	E. 57-2	357	—	—	i 17 50	+1	27-0	36-7
	N. 57-2	357	i 9 56	+3	e 17 47	-2	27-0	39-7
Lund	Z. 57-2	357	e 9 51	-2	i 17 50	+1	27-0	46-4
	N. 57-3	356	9 52	-2	i 17 48	-2	—	—
Konigsberg	N. 57-8	351	—	—	i 17 38	-18	—	31-1
Taihoku	E. 57-9	260	—	—	—	—	30-9	32-5
Stonyhurst	58-9	7	e 9 52	-12	18 11	+1	—	29-8
Hamburg	59-4	358	e 10 7	-1	18 19	+3	e 28-0	37-8
Potsdam	60-6	356	e 10 24	+8	—	—	e 30-0	38-0
De Bilt	60-9	1	10 18	0	—	—	e 29-0	48-6
Oxford	61-1	7	—	—	18 36	+1	e 28-3	41-7
Kew	61-4	6	e 10 26	+5	i 18 42	+1	e 29-0	41-7
Jena	62-1	357	i 10 26	+0	i 18 51	+2	e 28-9	39-5
Uccle	62-1	2	e 10 27	+1	i 18 53	+4	e 26-0	37-5
Tashkent	62-2	312	i 10 26	0	i 18 52	+1	e 30-4	38-2
Lemberg	E. 62-5	348	e 19 2	?S	(e 19 2)	+7	e 34-3	47-7
	N. 62-5	348	e 19 8	?S	(e 19 8)	+13	e 34-6	39-1
Makeyevka	62-7	338	e 10 32	+2	e 18 66	-1	e 30-0	37-3
Feldberg	62-8	0	e 10 43	+17	e 19 3	+5	e 33-4	41-8
Hong Kong	63-2	265	e 10 32	-1	19 7	+4	30-6	36-5
Paris	64-1	4	i 10 42	+3	i 19 15	+1	31-0	37-0
Strasbourg	64-4	0	i 10 43	+2	i 19 22	+4	24-0	52-5
Vienna	64-6	356	i 10 46	-1	i 19 17	-3	e 32-0	45-0
Budapest	65-3	351	10 46	-1	19 88	+9	33-5	46-5
Tacubaya	65-5	98	11 1	+13	21 8	? 4	36-6	—
Zurich	65-7	0	e 10 51	+2	i 19 87	+4	—	—
Graz	65-8	355	e 10 54	+4	i 19 38	+3	24-0	34-5
Besançon	65-8	1	—	—	—	—	e 32-0	—
Neuchâtel	66-0	0	i 10 51	0	15 23	?PR ₂	—	—
Lalbach	66-9	355	e 11 0	+3	e 19 56	-13	30-0	48-0
Zagreb	67-2	354	e 10 58	-1	e 19 54	+2	e 33-5	39-0
Puy de Dôme	67-2	4	e 10 56	-3	e 19 48	-4	e 38-0	—
Phu-Lien	67-6	272	11 2	0	e 20 4	+1	32-0	42-5
Manila	67-7	256	e 11 11	+9	e 20 2	+4	i 39-0	42-7
Baku	68-0	326	11 8	+4	1 20 6	+4	33-5	48-4
Moncalieri	68-0	0	11 44	+40	20 42	+22	39-5	55-0
Florence	69-1	356	11 4	-8	19 24	-33	29-0	38-5
Simla	E. 69-1	302	20 26	?S	20 26)	+11	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Dehra Dun	69.5	300	19 6	?S	(19 6)	-74	35.9	43.0
Rocca di Papa	71.2	356	11 25	+1	20 41	+1	e 36.1	50.6
Barcelona	71.5	5	—	—	e 20 46	+2	e 28.9	52.0
Naples	E. 72.0	355	e 12 40	+70	e 19 42	-68	—	—
Tortosa	N. 72.1	6	11 29	-2	e 20 11	-40	34.3	56.8
Toledo	72.8	10	11 39	+4	21 1	+1	e 32.6	57.6
Alicante	74.5	7	e 10 48	-58	e 20 22	-58	—	—
Granada	75.5	10	i 11 52	0	21 26	-6	36.4	45.1
Malaga	75.8	10	11 53	-1	21 38	+3	—	—
Almeria	75.8	9	i 12 2	+8	21 40	+5	36.6	45.8
San Fernando	76.0	11	i 21 39	?S	(i 21 39)	+2	41.3	53.9
Algiers	76.1	4	e 11 55	-1	21 39	+1	37.0	55.0
Ksara	N. 77.0	337	e 15 23	?PR ₁	e 21 46	-3	51.7	—
Helwan	81.6	340	e 12 25	-3	22 34	-8	—	51.5
Bombay	81.9	300	12 30	0	22 43	-2	42.6	47.8
Kodaikanal	88.4	294	23 38	?S	(23 38)	-18	49.2	57.4
Colombo	90.6	289	12 24	-55	24 4	-16	46.4	49.6
Batavia	92.2	260	e 16 38	?PR ₁	i 23 46	[+5]	e 50.0	—
Riverview	104.6	211	e 19 14	?PR ₁	i 25 7	[+22]	e 49.2	55.4
Wellington	108.8	190	—	—	—	—	41.0	—
Melbourne	109.8	215	i 23 37	?	i 26 52	-34	47.0	62.3
La Paz	110.6	83	19 13	?PR ₁	32 2	?S	50.0	61.7
Sucre	114.0	82	e 19 15	?PR ₁	i 29 18	?PS	58.8	67.9
Tananarive	125.7	311	—	—	—	—	69.0	76.0
La Plata	131.1	83	22 39	?	—	—	61.4	—

Additional readings: Victoria SN = +11m.32s., T₀E = 19h.48m.57s., T₀N = 19h.49m.4s. Spokane iPR₁N = +7m.8s., eSR₁ = +14m.16s. Mizusawa LN = +17.4m. Scoresby Sund ePR₁EN = +9m.33s., SR₁ = +17m.3s., e = +19m.2s.? MN = +26.8m. Berkeley ePN = +7m.45s., eZ = +7m.57s. and +9m.26s., eN = +9m.21s., +17m.15s. = SR₁ + 1s., +25m.11s., and +29m.11s. Toyooka MN = +25.4m. Osaka MN = +26.6m. Kobe MN = +27.7m., MZ = +29.4m. Sumoto MN = +28.3m. Honolulu T.H. SR₁E = +18m.35s., SR₁N = +19m.2s. Denver SE = +14m.21s., SR₁ = +18m.2s.; all readings diminished by 1h. Tucson PR₁E = +11m.3s., eN = +15m.12s. and +19m.6s. Chicago iPR₁N = +10m.51s., iPR₁E = +10m.56s., eSR₁E = +19m.27s., eSR₁N = +20m.37s. Ottawa e = +11m.6s. = PR₁ - 23s., SR₁ = +20m.2s., MN = +32.0m.; T₀ = 19h.49m.9s. Toronto iN = +11m.7s. = PR₁ - 24s., iSN = +16m.25s., SR₁E = +20m.14s., iN = +20m.30s.; T₀ = 19h.49m.6s. St. Louis iPN = +9m.13s., PR₁N = +11m.5s., i = +16m.28s., iSR₁N = +20m.5s., iSR₁E = +20m.8s. Zi-ka-wei PR₁ = +11m.28s., SR₁ = +21m.5s., MN = +33.8m., MZ = +33.9m. Utsala MN = +29.5m. Cincinnati iPN = +9m.31s., iPR₁ = +11m.49s., iPR₁N = +12m.41s., eP₀SN = +14m.50s., iPS? = +17m.14s., i = +19m.22s. = [S] + 17s., eS₀S = +19m.45s., iSR₁ = +21m.16s., iSR₁ = +23m.35s., iP₀SS₀PN = +26m.9s.; epicentre 68° 4'N, 173° 5'W. Dyce eSR₁ = +21m.35s. Harvard eSR₁N = +21m.20s., eSR₁E = +21m.45s., eLN = +26.8m. Georgetown iZ = +10m.35s., PR₁Z = +11m.55s., PR₁Z = +13m.10s. Charlottesville "readings may be several seconds in error." Copenhagen eE = +16m.38s., SR₁ = +21m.50s., SR₁ = +24m.2s.? Taihoku eE = +25m.59s. Hamburg MN = +30.0m., MZ = +38.8m. De Bilt eSR₁ = +22m.44s., MZ = +49.0m., MN = +50.9m. Oxford MN = +47.6m. Kew MN = +49.0m., MZ = +47.9m.; epicentre 68° 0'N, 173° 5'W. Jena iPZ = +10m.27s., eN = +23m.32s. = SR₁ - 12s., eLN = +30.0m. Uccle SR₁ = +23m.8s., MN = +35.3m. Lemberg eSE = +27m.56s. Feldberg eN = +20m.16s. = [S] + 6s., +23m.18s., +26m.21s. = SR₁ + 13s., and +29m.18s. Paris MN = +50.0m. Strasbourg MZ = +41.1m., MN = +59.3m. Vienna PR₁ = +13m.43s., PR₁ = +15m.14s., PS = +19m.58s., SR₁? = +22m.57s. Budapest MN = +36.5m. Laibach e = +15m.32s. = PR₁ + 5s. Zagreb e = +11m.8s. Puy de Dôme eS = +19m.50s. Manila eLN = +40.8m., MN = +43.6m. Dehra Dun S = +27m.6s. Rocca di Papa PN = +11m.27s., PE = +11m.28s., eL = +29.8m. Toledo MN = +37.2m.; epicentre 65° 0'N, 150° 0'E. Granada PR₁ = +14m.32s., PR₁ = +15m.44s., SZ = +21m.31s., G = +26m.22s.; epicentre 68° 4'N, 173° 5'W. Almeria PR₁ = +14m.35s., MZ = +43.0m. San Fernando S = +30m.27s., SR₁ = +37m.37s., MN = +48.4m. Ksara eN = +33m.2s.; epicentre 68° 4'N, 173° 5'W. Riverview e = +23m.8s., eSR₁ = +32m.34s. Melbourne i = +28m.39s. = PS - 17s. La Paz PR₁? = +25m.9s. = [S] - 3s., MN = +64.6m. Sucre i = +25m.27s. = [S] - 1s.

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Feb. 21d. Readings also at 3h. (near Rocca di Papa), 4h. (Moncalieri, Zagreb, near Zurich, and Neuchatel), 8h. (La Plata and Santiago), 10h. (Manila), 11h. (Victoria, Zi-ka-wel, Irkutsk, Ekaterinburg, Tashkent, and Pul-kovo), 12h. (Baku and Kucino), 16h. (near Tacubaya, Oaxaca, Vera Cruz, near Sumoto, Matuyama, and Hukuoka), 20h. (Denver), 21h. (Simla), 22h. (La Paz), 23h. (Riverview, Sydney, Melbourne, and near Wellington).

Feb. 22d. 12h. 57m. 20s. Epicentre 23°·0S. 163°·0W.

A = -·880, B = -·269, C = -·391; D = -·292, E = +·956;
G = +·374, H = +·114, K = -·921.

Rough.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	12·4	316	e 4 40?	+95	5 40	+11	—	7·4
Suva	E. 18·1	282	i 4 22	+ 4	17 46	+ 4	i 8·4	10·0
	N. 18·1	282	e 4 16	- 2	17 34	- 8	i 8·1	8·7
Wellington	E. 26·1	220	—	—	e 9 31	-53	e 9·5	17·8
	N. 26·1	220	—	—	e 10 16	- 8	—	14·2
Riverview	41·4	243	e 8 10	+ 4	e 13 46	-41	e 15·8	18·7
Honolulu T.H.	44·6	7	—	—	—	—	e 23·7	—
Melbourne	46·6	238	i 9 15	+31	i 17 15	?SR ₁	—	25·5
St. Louis	E. 91·8	48	—	—	e 27 49?	?SR ₂	49·7	55·7
Georgetown	Z. 101·3	53	i 5 59	?	—	—	e 59·9	69·9
Ottawa	104·3	47	—	—	—	—	e 57·7	—
Ekaterinburg	133·8	330	—	—	—	—	e 57·2	—
Baku	147·4	310	•	—	—	—	e 77·7	—
Uccle	150·5	16	—	—	—	—	87·7	—
San Fernando	155·9	48	—	—	—	—	86·8	91·6

Additional readings and note: Apia MNZ = +14·9m. Riverview MN = +18·3m. Melbourne +19m.10s. Baku reading has been increased by 1h. San Fernando MN = +91·2m.

Feb. 22d. 17h. 50m. 48s. Epicentre 32°·0N. 35°·5E. (as on 1927 July 11d.).

A = +·690, B = +·492, C = +·530; D = +·581, E = -·814;
G = +·432, H = +·308, K = -·848.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Ksara	1·8	10	i 0 32	+ 4	i 1 2	+11	—
Helwan	4·2	240	e 1 4	- 1	e 1 47	- 8	2·2
Zagreb	20·4	318	e 4 38	- 8	—	—	—

Additional readings: Ksara iPR₁N = +35s.; T₀ = 17h.50m.56s. Zagreb e = +4m.47s. = P + 1s.

Feb. 22d. 21h. 18m. 0s. Epicentre 35°·7N. 134°·8E. (as on 1928 Jan. 10d.).

A = -·572, B = +·576, C = +·584.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Toyooka	0·2	175	i 0 5	+ 1	(i 0 8)	+ 2	i 0·1	0·2
Kobe	1·1	163	0 17	0	(0 27)	- 4	0·4	0·5
Sumoto	1·4	177	i 0 24	+ 3	(i 0 40)	+ 1	i 0·7	0·7

No additional readings.

Feb. 22d. Readings also at 0h. (Riverview, Ravensburg, and near Ksara), 3h. (La Paz and Sucre), 8h. (near Santiago), 12h. (Port au Prince, La Paz (2), and near Sucre), 14h. (Suva), 15h. (near Mizusawa), 16h. (near Zagreb), 17h. (near Mizusawa), 18h. (near La Paz), 19h. (Suva, Wellington, and near Toyooka).

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Feb. 23d. 9h. 20m. 50s. Epicentre 22°-0N. 120°-5E. (as on 1927 June 9d.).

A = -471, B = +799, C = +375; D = +862, E = +508;

G = -190, H = +323, K = -927.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Taihoku	N.	3.2	18	(0 50)	0	(1 33)	+ 5	(1.6)	—
Hong Kong		5.9	274	1 33?	+ 2	—	—	—	4.5
Manila		7.4	176	e 1 24	-28	(12 58)	-23	i 3.0	3.6
Phu-Lien		13.0	267	3 10	-3	—	—	7.2	9.1
Irkutsk		32.7	342	—	—	e 11 10	-69	—	22.2
Tashkent		46.9	310	i 8 43	-3	i 15 32	-8	e 24.2	30.8
Ekaterinburg		55.4	325	9 43	+ 1	17 36	+10	28.2	31.6
Baku		61.5	307	e 13 13	?PR ₁	e 19 0	+18	32.7	42.3
Kucino		67.9	323	—	—	—	—	e 39.2	—
Pulkovo		71.2	329	i 11 28	+ 4	—	—	43.2	46.6
Copenhagen		81.5	328	—	—	—	—	45.2	—
De Bilt		87.0	326	—	—	—	—	e 48.7	—
Strasbourg		87.6	322	—	—	—	—	e 53.2	—
Kew		90.2	327	—	—	—	—	e 58.2	—
San Fernando E.		102.9	319	—	—	—	—	—	64.0

Additional readings and notes: Taihoku readings have been increased by 1m. Manila MN = +3.3m. Strasbourg readings have been diminished by 1h. San Fernando MN = +71.3m.

Feb. 23d. 19h. 3m. 40s. Epicentre 1°-5N. 121°-0E. (as on 1927 Nov. 20d.).

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 1 59)	-14	(3 21)	-37	—	—
Manila		13.1	0	i 3 20	+ 6	(1 6 4)	+18	i 6.1	—
Batavia		16.1	241	3 55	+ 2	—	—	i 8.5	—
Phu-Lien		23.9	325	4 20?	-67	—	—	—	—
Zi-ka-wei		29.7	1	e 6 16	-9	e 11 11	-18	—	—
Irkutsk		52.7	349	e 9 35	+11	e 18 2	+70	—	—
Tashkent		61.2	319	e 11 20?	+60	i 18 42	-4	e 27.3	36.4
Ekaterinburg		73.0	331	11 32	-4	i 21 0	-2	—	36.3

Additional readings and notes: Amboina i = (+1m.55s.); all readings have been increased by 2m. Manila iLN = +5m.58s. Batavia iN = +4m.23s. iN = +9m.17s., iE = +9m.23s. Tashkent i = +19m.10s. = PS + 0s.

Feb. 23d. Readings also at 0h. (Apia), 6h. (Sucre and La Paz), 14h. (Apia), 15h. (near Mostar), 20h. (Apia).

Feb. 24d. 11h. 26m. 12s. Epicentre 38°-0N. 33°-5E. (as on 1924 Dec. 13d.).

A = +657, B = +435, C = +616; D = +552, E = -834;

G = +513, H = +340, K = -788.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Ksara		4.6	154	1 18	+ 7	2 8	+ 2	—	—
Baku		12.9	74	e 4 7	+55	—	—	e 6.7	—
Zagreb		15.1	307	e 3 47	+ 7	e 6 6	-28	8.8	—
Vienna	Z.	16.1	315	3 56	+ 3	—	—	—	—
Rocca di Papa	E.	16.3	290	e 3 42	-14	6 38	-24	—	—
	N.	16.3	290	e 3 29	-27	6 20	-42	—	—
Moncalieri		20.4	298	4 30	-16	8 7	-25	10.0	—
Zurich		20.5	305	e 4 39	-8	i 9 18	+44	—	—
Neuchatel		21.4	303	e 4 50	-8	—	—	—	—
Strasbourg		21.4	308	e 4 54	-4	e 8 48?	-5	13.8	—
Pulkovo		21.8	356	i 5 14	+11	e 8 58	-3	—	—
Algiers		24.1	277	5 6	-23	e 9 0	-46	e 10.0	—
De Bilt		24.2	315	—	—	e 9 48?	0	—	—
Ekaterinburg		26.0	35	5 58	+10	e 11 42	+80	—	—
Tashkent		27.5	72	—	—	e 10 48?	-2	—	19.1

Additional readings: Baku e = +7m.18s. Zagreb e = +5m.13s. Neuchatel iE = +6m.4s.

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Feb. 24d. 14h. 10m. 18s. Epicentre 67°·0N. 172°·0W. (as on Feb. 21d.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
		°	°	m. s.	s.	m. s.	s.	m.	m.	
Victoria	E.	30·8	102		7 23	-13	11 40	-8	15·7	18·9
Ootomari		30·8	252	e 11 11	?S	(e 11 11)	-37	16·2	19·0	
Spokane	E.	33·6	97					e 17·2		
Irkutsk		41·0	291	e 7 47	-16	e 14 1	-20		24·2	
Honolulu T.H.		46·6	162					e 18·7		
Nagasaki		47·8	256					e 25·6		
Tucson		49·4	103	9 5	+ 2	16 11	0	24·8		
Ekaterinburg		50·1	325	i 9 2	- 6	i 16 10	-10	24·7	35·3	
Ottawa		51·3	63			e 19 54	?SR ₁	e 23·7	29·7	
Toronto	N.	51·5	68			e 20 25	?SR ₁	24·7	28·0	
St. Louis		51·8	80	e 9 20	+ 1	e 16 25	-16	24·3	28·3	
Pulkovo		52·2	346	e 9 21	0	e 16 36	-10	21·7	32·3	
Helsingfors		52·2	349			e 16 42?	- 4	28·2		
Zi-ka-wei		52·4	263	e 9 16	- 6	e 19 4	[+10]		31·1	
Upsala	N.	53·0	354					e 27·7		
Ithaca		54·0	66					e 26·7		
Kucino		55·2	340	e 9 38	- 2	17 18	- 6	22·1	36·4	
Dyce		55·6	8			e 21 7	?SR ₁	28·7	33·7	
Georgetown	Z.	56·5	69	9 54	+ 5			e 27·2	30·8	
Edinburgh		56·8	8					e 24·7		
Copenhagen		57·2	357			16 42?	-67	23·7	32·3	
Konigsberg		57·8	351					e 26·7	31·7	
Stonyhurst		58·9	7					e 25·9	38·2	
Hamburg		59·4	358					e 36·7		
De Bilt		60·9	1			i 18 42	+ 7	e 29·7	44·8	
Oxford		61·1	7					e 29·4	41·4	
Kew		61·4	6					e 28·7	47·7	
Uccle		62·1	2			e 18 42?	- 7	e 29·7		
Tashkent		62·2	312	e 10 18	- 8	i 18 53	+ 2	e 27·7	36·5	
Makeyevka		62·7	338			e 18 45	-12	e 25·7	38·4	
Feldberg	N.	62·8	0			e 19 8	+10	e 29·7	40·7	
Hong Kong		63·2	265						36·0	
Paris		64·1	4					e 34·7	49·7	
Strasbourg		64·4	0	e 10 42?	+ 1			24·7		
Budapest		65·3	351					e 28·7	48·7	
Zagreb		67·2	354	e 11 6	+ 7	e 19 42?	-10	e 48·7		
Phu-Lien		67·6	272	e 19 53	?S	(e 19 53)	- 4	31·2		
Manila		67·7	256					e 37·7	41·8	
Baku		68·0	326	e 11 13	+ 9	i 20 4	+ 2	34·2	43·2	
Moncalieri		68·0	0			e 20 4	+ 2	38·6		
Florence		69·1	356	e 23 12	?	29 14	?	33·7	50·7	
Simla	E.	69·1	302					e 38·3		
Rocca di Papa		71·2	356	e 11 32	+ 8	e 20 36	- 4		21·8	
Toledo	N.W.	72·8	10					e 35·0	42·6	
Alicante		74·5	7					e 26·8		
Rio Tinto		74·6	12	28 42?	?				74·7	
Granada		75·5	10					3·7	44·2	
San Fernando		76·0	11	15 56	?PR ₁	28 31	?	51·1	57·3	
Hyderabad		81·3	295						39·4	
Bombay		81·9	300	22 47	?S	(22 47)	+ 2	45·3	47·9	
Kodakanal		88·4	294	47 30	?L			(47·5)		
Batavia		92·2	260	e 17 42?	?PR ₁			51·7		
Wellington	N.	108·8	190					e 59·5		
Melbourne		109·8	215					43·7	62·2	

Additional readings: Ootomari S = +13m.14s. = SR₁ - 9s. Spokane eE = +18m.42s. ? and +20m.42s. ? Tucson LN = +25·2m. St. Louis iPR₁N = +11m.13s., eE = +20m.14s., eSR₁N = +20m.25s., eN = +20m.28s., LN = +25·3m. Upsala eE = +23m.42s. ? = SR₁ + 22s. Copenhagen MN = +30·3m., MZ = +38·0m. De Bilt eLN = +32·7m., MN = +45·4m., MZ = +46·2m. Feldberg eN? = +23m.6s., iN = +23m.23s. Zagreb e = +33m.42s. ? Moncalieri S? = +28m.20s. Toledo MNE = +42·1m. San Fernando MN = +59·3m. Bombay S = +31m.17s.

Feb. 24d. Readings also at 2h. (La Paz), 4h. (Baku, Tashkent, Ekaterinburg, Ksara, and near Taihoku), 5h. (Suva), 13h. (Phu-Lien), 14h. (Rocca di Papa and Suva), 17h. (near Tacubaya), 19h. (Suva (2)), 20h. (Suva), 21h. (Melbourne, Zagreb, and Suva), 23h. (Riverview).

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Feb. 25d. 10h. 52m. 54s. Epicentre 3°0S. 138°0E. (as on 1927 Dec. 15d.).

A = -0.742, B = +0.668, C = -0.052; D = +0.669, E = +0.743;
G = +0.039, H = -0.035, K = -0.999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	24.4	317	e 5 38	+ 6	(i 9 41)	-11	i 9.7	—
Batavia	31.2	263	e 6 16	-24	i 11 10	-44	—	—
Adelaide	32.0	179	(i 7 26)	+39	(i 11 54)	-14	i 16.9	17.6
Riverview	33.2	160	e 12 12	?S	(e 12 12)	-15	i 17.8	19.7
Sydney	33.2	160	12 30	?S	(12 30)	+ 3	18.6	19.2
Hong Kong	34.4	318	—	—	—	—	—	15.6
Melbourne	35.4	170	—	—	i 12 41	-20	i 18.9	19.6
Perth	35.7	215	e 12 18	?S	(e 12 18)	-48	e 17.6	18.6
Zi-ka-wei	37.7	338	e 7 38	+ 2	e 16 16	?SR ₁	—	21.6
Phu-Lien	38.9	310	5 6?	?	—	—	—	—
Wellington	N.	50.6	144	—	i 16 55	+29	e 23.8	29.8
Bombay	67.7	291	—	—	e 20 6?	+ 8	—	—
Tashkent	76.2	315	—	—	i 21 42	+ 3	e 34.1	39.4
Ekaterinburg	85.6	328	13 2	+11	23 26	0	35.1	—
Victoria	E.	98.0	41	—	—	—	48.2	49.5
Kucino	98.1	327	—	—	e 32 18	?SR ₁	—	—
Pulkovo	101.4	331	—	—	—	—	53.1	—
Copenhagen	111.8	330	—	—	—	—	49.1	—
Feldberg	N.	116.6	327	—	—	—	e 57.1	65.1
De Bilt	117.3	330	—	—	—	—	e 57.1	—
Strasbourg	117.8	325	—	—	—	—	e 60.1	—
Uccle	118.4	327	—	—	—	—	e 57.1	—
Kew	120.4	331	—	—	—	—	e 57.1	—
Paris	120.5	327	—	—	—	—	e 73.1	—
Toronto	N.	127.6	33	—	—	—	e 61.1	—
Ottawa	E.	128.3	29	—	—	—	e 56.1	—
Georgetown	Z.	133.7	36	i 24 58	?	i 41 44	?	—
La Paz	147.7	128	20 23	[+31]	—	—	—	—

Additional readings and note: Manila iLN = +9m.51s. = S-1s. Batavia
iN = +12m.20s.; the readings entered are given as e and iN simply. Adelaide
iPR₁ = (+7m.56s.), MN = +17.1m. P, PR₁ and S have been diminished
by 4m. Riverview MN = +20.0m., MZ = +21.9m. Melbourne =
i = +15m.18s. = SR₁ + 12s., +15m.56s., and +16m.26s. Perth eS =
+16m.16s. and eL = +18.1m. Wellington iE = +20m.17s. Tashkent
e = +17m.36s. and +30m.6s. Kew eLZ = +73.1m. Ottawa eLN? =
+61.1m.

Feb. 25d. 17h. 23m. 42s. Epicentre 36°5N. 65°5E.

A = +0.333, B = +0.731, C = +0.595; D = +0.910, E = -0.415;
G = +0.247, H = +0.541, K = -0.804.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	5.6	30	i 1 25	- 2	i 2 23	- 1	—	—
Sirna	E.	11.1	115	e 2 48	+ 2	—	—	—
Bombay	18.8	158	4 3	-24	7 36	-22	e 9.0	—
Ekaterinburg	20.6	353	i 4 43	- 5	i 8 27	- 9	10.3	11.5
Elyderabad	22.2	145	7 59	+172	—	—	—	10.8
Makeyevka	23.2	309	i 5 30	+11	—	—	10.3	—
Calcutta	N.	24.2	119	4 43	-47	8 15	-93	—
Ksara	E.	24.3	273	e 5 53	+22	e 11 10	?SR ₁	—
Kucino	26.8	325	5 54	- 2	e 10 34	- 3	—	—
Pulkovo	32.3	329	i 6 42	- 9	e 11 55?	-18	e 15.3	—
Vienna	37.4	307	e 7 34	+ 1	—	—	—	—
Zagreb	37.8	300	e 7 36	0	—	—	—	—
Copenhagen	40.2	316	—	—	12 18?	?	—	—
Zurich	42.7	302	e 8 17	+ 1	—	—	—	—
Strasbourg	43.1	307	e 8 19	0	—	—	—	—
Neuchâtel	43.8	302	i 8 25	+ 1	—	—	—	—
De Bilt	Z.	44.5	310	i 8 28	- 2	*	—	—
Uccle	45.1	309	e 8 34	0	—	—	—	—
Kew	47.9	311	8 54	+ 1	—	—	—	—

Additional readings: Makeyevka e = +6m.14s. and +6m.41s. Ksara
eE = +7m.0s. Vienna iPZ = +7m.35s., iE = +11m.3s. Zurich e =
+9m.30s. and +11m.17s. De Bilt iZ = +9m.45s.

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Feb. 25d. Readings also at 0h. (Ekaterinburg), 1h. (Irkutsk, Tashkent, Victoria, St. Louis, Spokane, Toronto, Ottawa, and Georgetown), 10h. (La Paz and near Sumoto), 14h. (Cincinnati), 19h. (Manila), 20h. (Tucson and Wellington), 22h. (near Toyooka), 23h. (near Belgrade).

Feb. 26d. 0h. 59m. 36s. Epicentre 45°·0N. 29°·0W. (as on 1927 May 13d.).

A = +·618, B = -·343, C = +·707; D = -·485, E = -·875;
G = +·618, H = -·343, K = -·707.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bidston	18·8	54	—	—	17 40	?	24·9	—
Stonyhurst	19·3	53	—	—	—	—	e 9·7	—
Kew	20·0	61	e 4	24?	-17	—	—	8·9
Paris	21·7	69	e 5	0	-1	—	—	10·4
Uccle	22·9	63	e 5	9	-7	—	e 11·4	—
De Bilt	23·4	60	—	—	—	—	—	e 11·4
Strasbourg	25·2	69	e 5	49	+ 9	—	e 12·4	—

Bidston readings probably do not belong to this shock.

Feb. 26d. 1h. 19m. 8s. Epicentre 67°·0N. 172°·0W.

(as on Feb. 24d.).

A = -·387, B = -·054, C = +·921; D = -·139, E = +·990;
G = -·912, H = -·128, K = -·391.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sitka	E. 19·5	103	e 4 44	+ 9	—	—	e 11·2	13·2
	N. 19·5	103	e 4 40	+ 5	i 8 20	+ 7	e 10·5	13·4
Victoria	E. 30·8	102	7 25	+49	11 26	-22	15·7	18·9
	N. 30·8	102	7 30	+54	11 28	-20	—	20·8
Ootomari	30·8	252	16 29	?L	20 20	?	22·3	24·0
Scoresby Sund	41·0	16	7 43	-20	13 55	-26	20·9	27·0
Berkeley	41·3	110	e 7 39	-26	—	—	20·4	—
Toyooka	43·5	250	—	—	—	—	e 21·6	25·4
Kobe	44·1	250	—	—	—	—	e 22·0	25·7
Sumoto	44·5	250	e 20 31	?	—	—	e 25·6	—
Honolulu T.H.	E. 46·6	162	—	—	e 19 2	?SR ₁	e 21·2	24·9
Hukuoka	46·8	256	15 41	?S	(15 41)	+ 3	25·9	28·2
Nagasaki	47·8	256	e 19 29	?SR ₁	—	—	26·5	28·2
Tucson	49·4	103	9 25	+22	16 20	+ 9	24·3	31·5
	N. 49·4	103	9 22	+19	16 20	+ 9	25·0	32·7
Chicago	E. 50·1	76	—	—	i 16 15	- 5	24·5	28·7
Ekaterinburg	50·1	325	e 9 0	- 8	16 11	- 9	23·9	33·8
Ottawa	51·3	63	e 9 8	- 7	i 16 26	- 9	e 24·4	29·9
Toronto	E. 51·5	68	—	—	e 16 31	- 7	—	27·8
	N. 51·5	68	—	—	e 16 29	- 9	24·0	28·6
St. Louis	E. 51·8	80	e 9 11	- 8	i 16 34	- 7	26·1	27·5
Pulkovo	52·2	346	9 22	+ 1	i 16 42	- 4	24·9	31·6
Helsingfors	52·2	349	—	—	e 16 40	- 6	26·6	—
Zi-ka-wei	52·4	263	e 9 20	- 2	e 19 2	[+ 8]	—	33·1
Upsala	53·0	354	e 9 24	- 2	e 16 52	- 4	e 22·9	29·8
Cincinnati	53·6	75	—	—	—	—	e 27·2	29·2
Ithaca	54·0	66	—	—	e 16 35	-34	25·4	—
Kucino	55·2	340	9 39	- 1	17 19	- 5	23·7	33·5
Dyce	55·6	8	9 53	+10	17 20	- 9	26·9	44·9
Harvard	55·6	61	—	—	e 17 26	- 3	e 26·6	—
Georgetown	Z. 56·5	69	e 8 56	-53	15 55	?	e 21·8	35·1
Edinburgh	56·8	8	—	—	e 17 32	-12	25·9	41·9
Copenhagen	57·2	357	e 9 46	- 7	e 17 46	- 3	26·9	36·8
Lund	57·3	356	—	—	17 51	+ 1	—	—
Konigsberg	57·8	351	1 9 48	-10	e 17 58	+ 2	e 26·0	33·5
Taihoku	E. 57·9	260	—	—	—	—	32·4	—
Stonyhurst	58·9	7	—	—	e 18 15	+ 5	e 29·6	39·9
Bidston	59·3	7	—	—	—	—	—	36·4
Hamburg	59·4	358	e 10 9	+ 1	e 18 18	+ 2	e 24·9	38·9
De Bilt	60·9	1	10 19	+ 1	18 37	+ 2	e 26·9	44·8

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.
Oxford	E.	61.1	7	—	—	18 37	0	e 26.7	41.5
	N.	61.1	7	—	—	18 37	0	e 29.8	47.6
Kew		61.4	6	e 10 20	—	e 18 42	+ 1	e 28.9	42.6
Jena		62.1	357	e 10 36	+10	e 18 52	+ 3	e 30.9	34.2
Uccle		62.1	2	e 10 28	+ 2	e 18 52	+ 3	e 25.9	—
Tashkent		62.2	312	e 10 13	-13	i 18 52	+ 1	31.9	37.3
Makeyevka		62.7	338	—	—	e 19 2	+ 5	28.9	38.4
Feldberg	N.	62.8	0	e 10 32	+ 1	e 18 54	- 4	e 30.4	36.8
Hong Kong		63.2	265	19 4	?S	(19 4)	+ 1	—	36.2
Paris		64.1	4	e 10 40	+ 1	e 19 21	+ 7	30.9	49.9
Strasbourg		64.4	0	e 10 39	- 2	i 19 25	+ 7	26.9	44.4
Vienna		64.6	356	10 42	0	19 33	+13	e 29.9	38.9
Budapest		65.3	351	e 16 52?	?	—	—	30.9	37.4
Zurich		65.7	0	e 10 49	0	19 39	+ 6	—	—
Graz		65.8	355	e 11 8	+18	e 19 41	+ 6	28.9	34.4
Besançon		65.8	1	—	—	—	—	e 29.9	—
Neuchâtel		66.0	0	e 10 52	+ 1	—	—	—	—
Puy de Dôme		67.2	4	e 13 26	?PR ₁	e 20 30	+38	—	—
Zagreb		67.2	354	e 10 52?	- 7	e 19 52?	0	e 34.6	—
Phu-Lien		67.6	272	—	—	e 19 58	+ 1	32.9	—
Manila		67.7	256	—	—	e 20 52?	[- 3]	e 37.9	—
Moncalieri		68.0	0	10 23	-41	20 11	+ 9	29.0	50.1
Florence		69.1	356	e 11 12	0	20 37	+22	35.0	36.9
Simla	E.	69.1	302	—	—	—	—	e 34.7	—
Dehra Dun		69.5	300	35 10	?L	42 10	?	48.5	53.9
Rocca di Papa		71.2	356	e 11 32	+ 8	e 20 44	+ 4	e 41.3	63.1
Tortosa	N.	72.1	6	—	—	—	—	e 35.9	57.0
Toledo		72.8	10	e 21 4	?S	(e 21 4)	+ 4	e 35.4	42.8
Río Tinto		74.6	12	18 52?	?	—	—	—	43.9
Granada		75.5	10	11 56	+ 4	i 21 40	+ 8	37.1	42.6
Malaga		75.8	10	e 21 57	?S	(e 21 57)	+22	—	—
Almeria		75.8	0	e 11 50	- 4	—	—	37.3	42.4
San Fernando	E.	76.0	11	—	—	—	—	—	57.3
Ksara	N.	77.0	337	—	—	21 51	+ 2	44.8	—
Hyderabad		81.3	295	22 59	?S	(22 59)	+21	—	46.2
Bombay		81.9	300	12 30	0	22 48	+ 3	42.7	47.8
Kodaikanal		88.4	294	31 34	?	—	—	48.4	53.3
Colombo		90.6	289	22 14	?S	(22 14)	-126	53.9	56.3
Batavia		92.2	260	—	—	i 28 22	?SR ₁	69.9	—
Riverview		104.6	211	—	—	e 25 4	[+19]	e 49.3	56.9
Wellington	N.	108.8	190	—	—	—	—	e 50.9	—
Melbourne		109.8	215	—	—	i 28 40	?PS	—	62.3
La Paz		110.6	83	e 18 23	[- 1]	—	—	52.9	62.3
Sucre		114.0	82	—	—	—	—	57.6	68.6
La Plata		131.1	83	—	—	—	—	75.6	—

Additional readings: Scoresby Sund PR₁ = +9m.31s., eN = +18m.52s. ?
 Berkeley eE = +7m.46s. and +16m.52s. = SR₁ - 22s., eZ = +17m.7s. =
 SR₁ - 7s., eN = +17m.12s. = SR₁ - 2s., eE = +24m.58s., eN = +25m.23s.
 Toyooka MN = +25.1m. Kobe MN = +27.7m. Honolulu T.H. eLN =
 +22.9m., MN = +27.2m. Tucson PR₂E = +12m.43s., PR₁N =
 +12m.47s., SR₁E = +20m.16s., SR₁N = +20m.21s. Chicago iE =
 +20m.2s. = SR₁ - 6s. Ottawa SR₁ = +20m.12s., MN = +32.9m.; T₀ =
 1h.19m.6s. St. Louis PR₁E = +11m.31s., SR₁E = +20m.36s., SR₁E =
 +20m.36s., SR₁E = +22m.12s. Zi-ka-wei SR₁ = +21m.13s. Upsala
 eLN = +23.9m., MN = +29.3m. Cincinnati iE = +26m.20s. Dyce
 SR₁ = +21m.38s. Harvard eSR₁N = +21m.26s., eE = +24m.10s. =
 SR₁ - 14s., eLE = +28.4m.; T₀ = 1h.19m.27s. Copenhagen ePR₂Z =
 +13m.16s., eSNZ = +17m.49s., SR₁ = +21m.52s.?, SR₁ = +23m.52s.?,
 MN = +30.0m., MZ = +30.3m. Königsberg iZ = +10m.0s., PcPZ? =
 +10m.28s., iE? = +11m.7s., ScSZ? = +19m.36s., SR₁?E = +22m.19s., iZ =
 +25m.47s. De Bilt eSR₁ = +22m.40s., eLN = +28.9m., MN = +45.4m.,
 MZ = +46.3m. Oxford SR₁N = +23m.20s. Kew MN = +47.7m., MZ =
 +47.8m. Jena eE = +10m.37s. Makeyevka e = +22m.34s. Feld-
 berg iN = +19m.6s., eN = +20m.34s., iN = +23m.22s. Vienna iE =
 +20m.54s. = [S] + 24s., SR₁ = +23m.43s. Budapest MN = +36.9m.
 Zagreb eL = +28.5m. Toledo eS = +38m.43s. MNW = +39.2m.
 Malaga eS = +29m.47s. San Fernando MN = +48.4m. Colombo
 S = +50m.24s. Riverview eSR₁ = +34m.10s., eSR₂ = +38m.34s.,
 MN = +55.0m. La Paz MN = +64.7m.

Feb. 26d. Readings also at 2h. (Scoresby Sund), 3h. (Alicante, Georgetown, and Toronto), 5h. (Suva), 6h. (Apia), 10h. (Florence), 13h. (near Nagoya and Toyooka), 18h. (La Paz).

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Feb. 27d. Readings at 14h. (Calcutta), 16h. (Alicante and near Toyooka), 21h. (Apia), 22h. (near Toyooka), 23h. (La Paz and near Toyooka).

Feb. 28d. 2h. 12m. 16s. Epicentre 50°·1N. 178°·7E. (as on 1926 Feb. 7d.).

A = -·641, B = +·015, C = +·767; D = +·023, E = +1·000;
G = -·767, H = +·017, K = -·641.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Victoria	36·9	70	12 43	?S	(12 43)	-39	16·6	17·3
Irkutsk	44·4	304	e 8 20	- 9	e 14 53	-14	21·7	27·1
Zi-ka-wel	46·0	270	e 8 38	- 2	e 19 24	?	—	—
Tucson	53·8	82	e 9 39	+ 7	—	?	—	—
Ekaterinburg	61·5	327	i 10 18	- 4	18 42	0	29·7	38·6
Toronto	64·2	52	—	—	—	—	25·4	—
Ottawa	64·8	49	—	—	e 26 44?	?PR ₂	e 29·7	—
Pulkovo	67·2	344	e 11 13?	+14	e 20 15?	+23	e 31·7	43·1
Georgetown	68·9	55	i 11 23	+13	i 17 52	?	e 39·1	44·0
Kucino	69·2	338	e 11 19	+ 7	e 20 31	+15	34·7	40·9
Tashkent	69·7	311	e 11 12	- 3	e 20 10	-12	33·7	45·6
Copenhagen	73·5	353	e 16 2	?PR ₂	e 21 8	0	35·7	—
Makeyevka	76·2	335	—	—	—	—	e 34·7	44·7
De Bilt	77·6	355	e 11 56	- 9	e 22 41	?PS	e 36·7	49·8
Kew	78·4	359	—	—	—	—	e 45·7	—
Uccle	79·0	356	—	—	—	—	e 36·7	—
Baku	79·1	323	—	—	e 22 30?	+17	36·7	51·3
Feldberg	79·1	355	—	—	21 55	-18	e 39·7	51·2
Vienna	80·5	349	e 11 46	-36	—	—	—	—
Strasbourg	81·0	354	—	—	—	—	e 39·7	—
Paris	81·1	358	—	—	—	—	e 49·7	—
Moncalieri	84·6	354	—	—	—	—	e 50·4	—
Florence	85·5	351	e 12 37	-14	—	—	—	—
Rocca di Papa	87·3	350	e 13 0	- 1	e 22 37	-67	—	—
San Fernando	93·3	4	—	—	39 11	?	54·3	59·6

Additional readings: Copenhagen eEN = +25m.44s. ? De Bilt eN = +27m.20s. = SR₁ - 18s. Kew eLZ = +52·7m. Feldberg eN = +27m.55s. = SR₁ - 4s.; all readings are given for 3h. San Fernando MN = +53·3m.

Feb. 28d. 8h. 37m. 18s. Epicentre 59°·0S. 147°·5E. (see 29d.).

A = -·434, B = +·277, C = -·857; D = +·537, E = +·843;
G = +·723, H = -·461, K = -·515.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Melbourne	21·3	354	e 3 7	-110	1 8 37	-13	—	11·1
Wellington	24·6	56	i 4 31	-63	1 9 1	-54	i 12·8	13·4
Riverview	25·3	7	e 5 39	- 2	i 10 6	- 3	e 11·4	12·8
Bombay	98·6	294	—	—	e 25 42?	0	—	—
Irkutsk	118·6	333	—	—	—	—	e 67·0	—
Tashkent	119·1	304	—	—	e 30 6	?PS	51·7	59·7
Baku	127·4	290	—	—	—	—	62·7	—
Ekaterinburg	134·6	310	e 19 44	[+15]	—	—	62·7	—
Kucino	143·7	297	—	—	—	—	76·2	—
Georgetown	145·5	106	e 19 40	[- 9]	—	—	79·2	—
Pulkovo	149·2	300	i 20 13	[+19]	e 23 42	?PR ₁	78·7	—
Ottawa	150·9	98	—	—	—	—	e 76·7	—
Granada	151·3	234	—	—	—	—	e 84·7	—
San Fernando	151·7	229	—	—	75 19	?L	86·4	90·8
Moncalieri	152·1	258	—	—	e 24 47	?	—	—
Strasbourg	154·5	264	—	—	(e 28 42?)	?	e 28·7	—
Feldberg	155·2	267	—	—	—	—	87·9	103·5
Copenhagen	156·0	282	—	—	—	—	76·7	—
Uccle	157·6	265	—	—	—	—	e 82·7	—
De Bilt	157·9	268	—	—	—	—	e 84·7	96·9
Kew	160·4	262	—	—	—	—	e 87·7	—

Additional readings: Melbourne i = +9m.37s. = SR₁ + 4s. Tashkent e = +26m.0s. = PR₂ + 17s., and +36m.31s. = SR₁ - 4s. Ekaterinburg i = +23m.12s., e = +25m.48s. = [S] - 30s. Georgetown iZ = +21m.13s. San Fernando MN = +91·2m. Feldberg readings have been diminished by 1h. De Bilt MN = +100·4m., MZ = +100·8m.

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Feb. 28d. Readings also at 0h. (Copenhagen, De Bilt, Toyooka, and near Port au Prince), 3h. (near Nagasaki), 10h. (Kucino and Pulkovo), 14h. (Phu-Lien, Zi-ka-wei, and near Tananarive), 18h. (near La Paz, La Plata, and Sucre)

Feb. 29d. 21h. 56m. 45s. Epicentre 59°0S. 147°5E. (as on 28d.).

A = -·434, B = +·277, C = -·857; D = +·537, E = +·843;
G = +·723, H = -·461, K = -·515.

	△	Az.	P.	O-C.	S.	O-C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Melbourne	21·3	354	e 5 2	+ 5	18 43	- 7	i 10·8	11·4
Christchurch	21·8	56	5 23	+20	(9 17)	+16	9·3	—
Wellington	E. 24·6	56	15 34	0	19 54	- 1	i 11·5	14·6
	N. 24·6	56	15 34	0	19 49	- 6	i 11·2	14·1
Adelaide	24·8	342	15 31	- 5	19 55	- 4	11·0	11·9
Riverview	25·3	7	e 5 38	- 3	i 10 7	- 2	e 11·4	15·3
Sydney	25·3	7	5 45	+ 4	10 9	0	12·6	13·2
Perth	34·4	310	—	—	12 45	- 1	e 15·2	—
Apia	54·3	53	—	—	—	—	27·6	28·6
Manila	76·7	336	e 12 15?	+16	—	—	—	—
Tananarive	E. 78·8	255	—	—	22 15?	+ 5	30·2	—
La Plata	83·8	160	—	—	—	—	37·4	—
Colombo	84·7	293	13 36	?	23 21	+ 5	35·4	48·4
Phu-Lien	86·6	324	13 15?	+18	—	—	—	—
Kodaikanal	88·8	293	45 27	?L	—	—	(45·4)	—
Zi-ka-wei	92·8	340	e 13 32	+ 1	—	—	45·8	54·2
Hyderabad	94·6	299	—	—	—	—	—	51·2
Sucre	97·5	150	—	—	—	—	47·0	50·5
Bombay	98·6	294	24 42	?S	(24 42)	[+25]	46·4	51·6
La Paz	99·1	146	—	—	—	—	48·2	51·8
Simla	E. 107·1	303	—	—	—	—	e 53·6	—
Irkutsk	116·6	333	—	—	e 28 7	-16	e 40·4	70·2
Tashkent	119·1	304	e 18 51	[+ 1]	e 28 55	+12	e 48·2	67·2
Tucson	123·1	82	—	—	—	—	e 48·6	—
Baku	127·4	290	—	—	e 28 32	-71	58·2	73·0
Victoria	129·5	60	39 3	?SR ₁	—	—	60·8	69·2
Ekaterinburg	134·6	310	e 19 49	[+20]	—	—	61·2	75·0
St. Louis	138·6	93	—	—	—	—	e 66·2	70·2
Makeyevka	138·8	288	—	—	—	—	55·2	76·8
Cincinnati	141·9	97	—	—	—	—	51·2	—
Kucino	143·7	297	e 23 5	?PR ₁	e 29 30	?E	66·6	82·2
Georgetown	Z. 145·5	106	i 20 11	[+22]	—	—	81·3	—
Rocca di Papa	147·3	260	i 20 16	[+24]	—	—	—	—
Toronto	N. 147·8	96	—	—	e 53 17	?SR ₂	77·2	—
Zagreb	148·5	267	e 20 15?	[+21]	—	—	—	—
Pulkovo	149·2	300	e 20 11	[+17]	—	—	67·2	86·4
Graz	149·6	268	—	—	—	—	e 110·2	—
Almeria	150·5	235	—	—	—	—	77·8	81·4
Ottawa	150·9	98	—	—	—	—	e 74·2	—
Granada	151·3	234	—	—	—	—	e 75·2	80·8
San Fernando	151·7	229	—	—	—	—	85·2	90·2
Moncalleri	152·1	258	—	—	e 28 58	?	82·6	—
Rio Tinto	153·0	230	75 15?	?L	—	—	(75·2)	116·2
Strasbourg	154·5	264	—	—	—	—	e 83·2	—
Upsala	155·1	294	—	—	—	—	91·2	—
Feldberg	N. 155·2	267	—	—	—	—	e 104·3	164·0
Copenhagen	156·0	282	e 21 15?	?	—	—	e 79·2	—
Hamburg	156·2	276	—	—	—	—	e 87·2	—
Paris	157·3	259	—	—	—	—	e 89·2	105·2
Uccle	157·6	265	e 44 39	?SR ₁	—	—	e 65·2	—
De Bilt	157·9	268	e 44 51	?SR ₁	—	—	e 76·2	101·3
Kew	160·4	262	—	—	—	—	e 78·2	92·1
Oxford	161·0	261	—	—	—	—	—	101·2
Stonyhurst	162·8	266	—	—	—	—	e 93·2	—

Additional readings: Adelaide MN = +13·0m. Riverview iP = +5m.42s.,
iS = +9m.37s., i = +10m.0s., and +10m.20s., MZ = +13·2m., MN = +13·5m.;
T₀ = 22h.57m.16s. Perth PR₁ = +9m.5s. Tananarive readings have been
increased by 1h. Bombay S = +32m.52s. = SR₁ + 32s. Irkutsk e =
+36m.7s. = SR₁ + 1s. Tashkent e = +29m.39s. Baku e = +39m.26s.

Continued on next page.

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Ekaterinburg $i = +23m.12s.$, $e = +39m.22s.$ St. Louis $eN = +40m.51s. = SR_1 + 15s.$, and $+46m.45s. = SR_2 + 12s.$, $eE = +45m.45s.$ Makeyevka $e = +37m.15s.$ Georgetown $I Z = +54m.35s.$ Rocca di Papa gives its reading as for a local shock for which $S - P = 20s.$ Pulkovo $e = +24m.45s.$ and $+30m.41s.$ Ottawa $eN = +43m.21s. = SR_1 + 19s.$, $e = +49m.15s. = SR_1 + 6s.$, $eN = +54m.5s. = SR_2 - 12s.$, $eE = +56m.15s.$ San Fernando $MN = +91.4m.$ Moncalieri $L = +36m.39s.$, $e = +69m.39s.$ Copenhagen $eE = +27m.15s.$? $[S] + 28s.$, $+44m.3s. = SR_1 + 3s.$, and $+51m.21s.$, $eN = +77.2m.$ De Bilt $MN = +87.4m.$, $MZ = +106.0m.$ Kew $eLZ = +84.2m.$

Feb. 29d. Readings also at 1h. (near Toyooka), 3h. (Baku, Ekaterinburg, Tashkent and near Santiago), 9h. (near Sumoto and Toyooka), 10h. (Moncalieri and Paris), 13h. (Tucson, Tacubaya, Puebla, and Vera Cruz), 16h. (Ottawa, Toronto, and near Taihoku), 21h. (near Toyooka), 22h. (St. Louis, Spokane, and near Victoria).

March 1d. Readings at 1h. (near Lick), 2h., 3h., and 4h. (Suva), 7h. (Ekaterinburg, Irkutsk, Tashkent, and near Mizusawa), 9h. (Baku, Ksara, and Tashkent), 10h. (La Plata), 12h. (Ekaterinburg and Tashkent), 13h. (near Taihoku and near Toyooka), 15h. (Tortosa), 21h. (La Paz, Malabar, and Mizusawa), 23h. (near Toyooka).

March 2d. 18h. 44m. 35s. Epicentre $39^{\circ}0N. 75^{\circ}0E.$ (as on 1927 Oct. 29d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	5.0	300	i 1 13	- 4	i 1 54	-23	—	2.3
Baku	19.3	282	—	—	e 8 16	+ 8	e 10.4	—
Ekaterinburg	20.2	337	e 4 44	+ 1	i 8 25	- 2	10.4	12.1
Irkutsk	24.2	47	—	—	—	—	e 13.7	—
Copenhagen	43.8	315	—	—	—	—	25.4	—

No additional readings.

March 2d. Readings also at 0h. (Mizusawa, Ekaterinburg, and Tashkent), 1h. (near Berkeley), 3h. and 6h. (La Paz), 8h. (near Tacubaya), 10h. (Mizusawa, Manila, and near Taihoku), 13h. (Zagreb), 15h. (near Santiago and near Wellington), 18h. (Manila).

March 3d. 17h. 15m. 10s. Epicentre $9^{\circ}0N. 155^{\circ}0E.$ (as on 1926 Sept. 29d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E. 32.6	341	(6 33)	-20	6 33	?P	—	18.2
Zi-ka-wei	38.3	312	e 8 6	+26	13 35	-7	—	22.5
Irkutsk	59.6	328	—	—	(14 50)	?SR ₂	14.8	38.2
Tashkent	80.9	312	i 12 19	- 5	22 25	- 9	e 30.8	37.6
Ekaterinburg	84.9	329	e 12 57	+10	e 23 26	+ 8	30.8	47.4
Baku	95.5	314	—	—	—	—	e 45.2	44.0
Kucino	97.1	330	—	—	—	—	e 36.5	44.3
Pulkovo	98.6	336	e 17 24	?PR ₁	—	—	36.8	46.6
Makeyevka	100.6	325	—	—	—	—	31.8	—
Copenhagen	108.3	340	—	—	—	—	38.8	—
De Bilt	113.7	340	—	—	—	—	e 45.8	—
Feldberg	114.1	337	—	—	—	—	e 49.8	—
Uccle	115.1	340	—	—	—	—	e 47.8	—

Additional readings: Ekaterinburg $e = +21m.59s.$

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March 3d. 18h. 49m. 15s. Epicentre 30°-0S. 173°-0E.

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

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Wellington	E.	11·4	173	i 2 51	+ 1	i 5 3	- 1	i 6·1	14·4
	N.	11·4	173	i 2 46	- 4	i 5 3	- 1	e 6·0	14·4
Suva		12·8	24	e 1 39	?	—	—	—	7·8
Sydney		18·8	253	4 45	+18	—	—	15·2	15·8
Apia		21·4	44	—	—	—	—	—	4·2
Melbourne		24·4	244	i 5 25	- 7	—	—	14·1	15·2
Zi-ka-wei		78·4	317	e 10 58	-71	e 22 43	?PS	—	—
Irkutsk		101·6	324	—	—	e 27 39	?PS	—	—
Tashkent		118·9	303	e 17 33	[-17]	e 25 9	[-33]	e 53·8	67·6
Ekaterinburg		126·7	320	i 17 45	[-85]	—	—	e 56·8	—
Baku		133·1	298	—	—	—	—	e 69·8	—
Pulkovo		141·1	330	e 18 1	[-100]	—	—	e 62·8	—
Copenhagen		150·2	336	e 18 25	[-91]	e 40 23	?	e 69·8	—
Vienna	Z.	154·4	322	e 18 28	[-93]	—	—	—	—
De Bilt		156·1	341	—	—	e 39 45?	?	e 71·8	—
Uccle		157·5	341	—	—	—	—	e 73·8	—

Additional readings: Melbourne i = +6m.48s. Irkutsk e = +23m.13s.,
+23m.58s., and +31m.53s. Tashkent e = +19m.48s., and +24m.32s.
Ekaterinburg i = +20m.58s., and +21m.44s., e = +37m.5s. Pulkovo
iP = +21m.35s., iPR₁ = +22m.19s.

March 3d. Readings also at 2h. (La Paz), 4h. (Phu-Lien), 5h. (Suva and Wellington), 6h. (Melbourne), 7h. (Baku, Ekaterinburg, Makeyevka, San Fernando, and Pulkovo), 9h. (Ekaterinburg, Irkutsk, Pulkovo, Mizusawa, Zi-ka-wei, and near Nagasaki), 10h. (Baku, Copenhagen, De Bilt, Feldberg, Kucino, Makeyevka, San Fernando, Uccle, and Moncalieri), 14h. (Baku, Ekaterinburg, Irkutsk, and Suva), 15h. (near Sumoto and Toyooka), 18h. (Tucson), 20h. (La Plata).

March 4d. 20h. 58m. 12s. Epicentre 41°-5N. 153°-0E.

A = -·667, B = +·340, C = +·663; D = +·454, E = +·891;
G = -·590, H = +·301, K = -·749.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	9·4	259	—	—	4 27	+14	—	—
Irkutsk		34·2	308	—	—	—	—	12·0	20·2
Ekaterinburg		57·4	321	e 10 3	+ 8	e 18 6	+15	27·8	34·3
Tashkent		60·1	300	i 10 12	- 1	e 18 6	-18	e 23·8	36·0
Pulkovo		68·3	334	—	—	—	—	36·8	—
Kucino		68·3	328	—	—	—	—	35·1	37·2
Baku		72·5	310	—	—	—	—	40·3	45·4
Makeyevka		73·6	323	—	—	—	—	37·8	45·8
Copenhagen		77·2	340	—	—	—	—	36·8	—
De Bilt		82·3	342	—	—	—	—	e 43·8	—
Vienna	Z.	82·4	334	e 12 27	- 5	—	—	—	—
Feldberg		83·2	340	—	—	—	—	e 45·4	—
Uccle		83·6	342	—	—	—	—	e 44·8	—
Kew		84·2	346	—	—	—	—	e 43·8	—
Straasbourg		84·9	340	—	—	—	—	e 45·8	—
Paris		86·0	343	—	—	—	—	e 46·8	—
San Fernando	E.	100·0	345	—	—	—	—	—	59·1

Additional readings: Ekaterinburg SR₁ = +21m.11s. Tashkent e = +10m.18s.
and +20m.17s. San Fernando MN = +57·9m.

March 4d. Readings also at 3h. (Vienna, near Suva, and near Toyooka), 11h. (near Nagasaki), 13h. (near Toyooka), 17h. (Taihoku and Tashkent),

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March 5d. Readings at 0h. (Ekaterinburg and Irkutsk), 1h. (La Paz and Sucre), 7h. (Rocca di Papa), 8h. (Wellington and near Toyooka), 16h. (near Nagasaki), 22h. (near Taihoku (2) and near Toyooka).

March 6d. Readings at 1h. and 2h. (near Tucson), 3h. (Ottawa and St. Louis), 12h. (near Sumoto), 14h. (Tucson and near Sumoto), 19h. (near Wellington), 22h. (Tucson, Copenhagen, and near Tacubaya).

March 7d. 9h. 45m. 55s. Epicentre 39°-0N. 75°-0E. (as on 2d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	5-0	300	i 1 29	+12	i 2 16	- 1	12-9	14-0
Ekaterinburg	20-2	337	4 45	+ 2	e 8 23	- 4	10-1	12-1
Bombay	20-2	186	(4 48)	+ 5	4 48	?P	9-8	12-6
Irkutsk	24-2	47	—	—	e 9 42	- 6	e 12-4	14-5
Makeyevka	28-0	301	—	—	e 11 18	+19	16-1	19-9
Kucino	29-7	317	—	—	e 11 47	+18	—	14-4
Pulkovo	34-8	323	—	—	—	—	14-1	21-4
Copenhagen	43-8	315	—	—	—	—	20-1	—
Feldberg	47-1	307	—	—	—	—	e 25-8	27-0
De Bilt	48-7	310	—	—	—	—	e 27-1	28-0
Kew	52-0	311	—	—	—	—	e 26-1	—
Victoria	E. 91-1	12	32 20	?	—	—	53-0	60-2
	N. 91-1	12	32 30	?	—	—	53-8	—

Additional readings: Tashkent $i = +1m.48s.$ Bombay gives $P = 9h.45m.11s.$ Makeyevka $e = +14m.29s.$

March 7d. 10h. 55m. 2s. Epicentre 38°-6N. 15°-8E

(given by De Bilt).

A = +.752, B = +.213, C = +.624; D = +.272, E = -.962;
G = +.600, H = +.170, K = -.782.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Pompeii	2-4	335	e 0 58	+21	e 1 13	+ 7	—	—
Naples	2-6	332	e 0 41	0	e 0 56	-16	—	1-2
Rocca di Papa	3-9	324	i 1 10	+ 9	i 2 0	+13	—	3-6
Dubrovnik	4-4	22	1 11	+ 3	2 26	+25	—	—
Mostar	5-0	17	i 1 47	+30	e 2 33	+16	(3-6)	4-2
Sebenico	5-1	1	e 1 31	+12	e 2 29	+ 9	e 3-0	3-4
Florence	6-2	328	i 1 42	+ 7	2 58	+ 9	—	3-7
Belgrade	7-1	28	e 1 58	+10	i 3 21	+ 8	—	5-0
Zagreb	7-2	1	e 1 54	+ 5	i 3 31	+16	—	4-7
Venice	7-3	340	1 56	+ 5	3 12	- 6	—	4-3
	7-3	340	2 1	+10	3 10	- 8	—	4-3
Lalbach	7-5	353	i 1 57	+ 3	i 3 21	- 3	—	5-0
Graz	8-5	358	i 2 30	+21	e 3 53	+ 3	—	5-2
Budapest	9-2	14	2 23	+ 4	4 20	+12	5-0	5-5
Innsbruck	9-3	341	i 2 19	- 1	1 4 8	- 2	—	—
Chur	9-4	333	i 2 36	+14	—	—	—	—
Vienna	9-6	2	2 25	+ 1	4 12	- 6	—	6-0
Grenoble	10-0	315	2 38	+ 8	4 41	+12	—	—
Algiers	10-2	264	e 2 35	+ 2	4 34	- 1	5-1	6-0
Zurich	10-2	331	i 2 26	- 7	—	—	—	—
Ravensburg	10-3	336	2 35	+ 1	4 48	+11	e 5-2	6-6
Barcelona	10-8	290	e 2 43	+ 2	e 4 44	- 6	e 5-9	9-9
Besançon	11-2	324	i 2 50	+ 3	e 5 2	+ 3	—	—
Hohenheim	11-2	337	2 46	- 1	4 59	0	6-0	7-2
Strasbourg	11-6	331	i 2 54	+ 1	15 17	+ 8	7-0	7-2
Puy de Dôme	11-9	312	i 2 58	0	e 5 22	+ 5	e 5-6	—
Tortosa	E. 11-9	286	i 2 57	- 1	5 7	-10	6-2	15-0
	N. 11-9	286	i 2 59	+ 1	5 7	-10	6-1	11-2

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.
Bagnères		12.5	296	3 10	+ 4	e 5 44	+12	—	—
Jena	E.	12.6	348	e 3 11	+ 4	(e 5 28)	- 6	e 5.5	7.7
		12.6	348	e 3 10	+ 3	(e 5 26)	- 8	e 5.4	7.8
Feldberg	N.	12.7	338	i 3 11	+ 2	—	—	e 6.7	9.1
Lemberg		12.7	25	e 3 12	+ 3	e 5 28	- 9	—	9.9
	N.	12.7	25	e 3 7	- 2	e 5 40	+ 3	—	9.8
Alicante		12.8	274	3 12	+ 2	e 5 52	+ 13	e 6.5	16.6
Potsdam		13.9	353	i 3 37	+12	i 6 17	+11	—	8.0
Paris		14.0	322	i 3 25	- 1	e 6 13	+ 5	7.2	9.0
Almeria		14.5	269	i 3 33	0	e 6 22	+ 2	7.7	8.8
Uccle		14.6	330	i 3 35	+ 1	e 6 25	+ 3	—	—
De Bilt		15.4	335	i 3 47	+ 3	e 6 46	+ 5	8.0	10.8
Granada		15.4	271	i 3 43	- 1	i 6 46	+ 5	8.2	13.0
Toledo		15.4	281	e 3 43	- 1	i 6 44	+ 3	e 7.4	8.1
Hamburg		15.5	347	i 3 46	0	i 6 49	+ 5	e 7.8	9.9
Helwan		15.5	120	3 36	-10	e 6 19	-25	—	6.4
Malaga		16.1	270	(3 43)	-10	e 6 51	- 6	—	—
Konigsberg		16.5	9	i 3 56	- 3	7 5	- 2	e 8.7	12.9
Ksara		16.8	100	3 55	- 7	e 6 52	-21	8.5	—
Kew		17.1	324	i 4 5	- 1	i 7 29	+ 9	8.6	12.7
Lund		17.2	355	i 4 7	0	7 25	+ 3	—	—
Copenhagen		17.3	353	i 4 7	- 2	7 23	- 2	e 9.0	10.2
Río Tinto		17.6	274	0 58?	?	—	—	—	9.0
San Fernando		17.6	270	i 4 14	+ 2	7 32	+ 1	7.9	11.6
Oxford		17.8	324	i 4 15	0	i 7 34	- 2	8.6	13.4
Makeyevka		18.6	52	i 4 26	+ 2	7 46	- 7	9.0	13.5
Hidston		19.7	325	i 4 38	+ 1	8 11	- 6	9.4	10.9
Stonyhurst		19.7	327	i 4 34	- 3	8 11	- 6	10.2	12.0
Uppsala		21.3	2	i 4 49	- 8	8 11	- 9	e 11.0	12.3
Edinburgh		21.3	330	i 4 52	- 6	i 8 48	- 5	—	12.1
Dyce		22.0	334	i 4 58	- 7	i 8 55	?	11.0	16.4
Helsingfors		22.3	12	e 5 0	- 9	i 9 1	-10	—	—
Kucino		22.6	34	i 5 1	-11	i 9 4	-13	11.1	16.5
Bergen		22.8	347	i 5 4	-11	—	—	—	—
Pulkovo		23.0	19	i 5 9	- 8	i 9 15	-10	12.5	16.4
Ekaterinburg		34.4	43	i 6 53	-15	i 12 17	-29	16.0	—
Scoresby Sund		37.4	340	e 7 19	-14	i 12 58	-32	19.0	25.7
Tashkent		40.4	69	i 7 43	-15	i 13 45	-28	—	23.3
Entebbe		41.5	156	—	—	14 58?	+30	—	—
Bombay		52.8	95	e 7 58?	-87	—	—	—	—
Irkutsk		59.6	45	e 10 8	- 1	—	—	—	38.3
Ottawa		64.6	310	—	—	e 19 22	+ 2	e 30.0	—
Toronto	N.	67.7	310	—	—	—	—	—	37.0
Cincinnati	N.	73.4	307	—	—	—	—	e 45.9	—
St. Louis	E.	77.2	310	e 14 38	?PR ₁	e 21 36	-15	46.2	47.2

Additional readings and notes : Mostar gives S as e and L as S. Sebenico e = +2m.9s.; L is given as e simply. Belgrade iN = +2m.3s., iPRN = +2m.25s., iN = +2m.41s., iP,SN = +3m.8s., iSR₁N = +3m.38s., and +4m.4s. Zagreb i = +1m.58s., +2m.6s., +2m.13s., +2m.30s., +2m.49s., +2m.58s., +3m.8s., +3m.9s., +3m.13s., +3m.14s., +3m.19s., +3m.24s., +3m.41s., +3m.43s., +3m.44s., +3m.51s., +3m.54s., and +4m.0s. Laibach P = +2m.0s., i = +2m.44s., and +3m.5s. Graz MN = +6.0m. Innsbruck iNE = +2m.32s., iNW = +2m.40s., i = +2m.51s., iNW = +3m.0s., and +3m.8s., iNE = +4m.0s., iSR₁NE = +4m.15s. Chur iPR₁? = +2m.40s. Vienna iE = +2m.51s., +3m.21s., +3m.28s., SR₁ = +5m.9s. Grenoble i = +2m.49s. Algiers iP = +2m.37s., MN = +10.5m. Ravensburg MN = +5.6m. Barcelona MN = +10.0m. Hohenheim PR₁ = +3m.45s., MN = +6.9m. Strasbourg PR₁ = +3m.48s., SR₁ = +6m.28s., SR₂ = +6m.39s., MN = +8.0m. Jena iPE = +3m.13s., iE = +3m.30s., +3m.38s., +3m.45s., +4m.12s., and +4m.30s. Feldberg e = +3m.37s., i = +3m.51s., e = +4m.35s. Alicante MN = +13.6m., MZ = +17.0m. Almeria SR₁ = +7m.1s. De Bilt MN = +9.9m., MZ = +10.1m. Granada i = +4m.4s. and +7m.21s. Toledo MNW = +8.4m., MZ = +9.2m. Hamburg MN = +9.2m., MZ = +9.8m. Malaga P has been increased by 10m. Konigsberg iPN = +3m.59s., iPE = +4m.0s., PR₁Z = +4m.22s., iPR₁N = +4m.45s., SE = +7m.6s., SR₁NZ = +7m.30s. Kew i = +4m.28s., iSZ = +7m.27s., LZ = +9.5m., MN = +10.8m., MZ = +12.8m. Copenhagen e = +4m.46s., eN = +5m.40s., eE = +8m.16s., eZ = +8m.22s., MZ = +11.6m., MN = +12.7m. San Fernando MN = +10.5m. Oxford MN = +12.9m. Uppsala MN = +14.9m. Bergen eN = +5m.9s. Scoresby Sund eE = +7m.32s., ePR₁EN = +8m.42s., eSR₁N = +15m.34s., eE = +16m.10s., MN = +23.7m., St. Louis eE = +29m.10s.

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March 7d. 22h. 43m. 14s. Epicentre 36° 0N. 102° 0E.

A = -·168, B = +·791, C = +·588 ; D = +·978, E = +·208 ;
G = -·122, H = +·575, K = -·809.

Adopted from the epicentre 36° 8N. 102° 8E. of 1927 May 23d.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	15·8	164	e 4 12	+23	e 7 9	+19	8·8	9·9
Irkutsk	16·3	5	i 4 5	+ 9	e 6 47	-15	—	9·3
Zi-ka-wei	16·8	101	i 4 15	+13	7 35	+20	—	11·8
Hong Kong	17·3	139	4 26	+17	7 55	+32	9·8	10·8
Calcutta	N. 18·0	225	4 46	+29	8 12	+32	11·7	—
Taihoku	E. 20·0	118	4 56	+15	8 54	+31	11·0	13·0
Dehra Dun	20·8	261	6 42	+111	10 42	+122	14·9	15·6
Nagasaki	23·1	90	9 32	?S	(9 32)	+ 5	11·9	14·2
Hukuoka	23·4	88	9 33	?S	(9 33)	+ 0	14·6	16·5
Tashkent	25·9	292	i 5 41	- 6	i 10 23	+ 3	e 14·8	18·8
Sumoto	26·8	84	e 7 37	?	—	—	e 11·6	—
Kobe	26·9	83	i 5 51	- 6	e 10 30	- 9	e 14·8	18·6
Osaka	27·2	83	5 34	-26	(11 18)	+33	11·3	17·6
Manila	27·3	137	i 6 26	+25	i 10 59	+13	i 13·3	19·3
Hyderabad	27·9	235	6 12	+ 5	10 0	-57	15·4	17·0
Nagoya	28·3	81	e 6 4	- 7	e 15 35	?L	(e 15·6)	—
Bombay	30·8	245	6 41	+ 5	12 10	+22	17·0	19·7
Mizusawa	E. 30·9	74	7 4	+27	13 34	+104	—	—
Otomari	N. 32·0	59	e 5 45	-62	14 24	?	17·4	18·0
Ekaterinburg	34·4	322	i 6 53	-15	i 12 14	-32	16·8	21·4
Colombo	35·5	223	13 8	?S	(13 8)	+ 5	21·1	24·4
Batavia	42·5	175	i 8 19	+ 4	i 14 54	+12	25·4	—
Kucino	46·7	317	8 34	-11	15 16	-21	23·1	28·2
Makeyevka	47·6	307	8 45	- 6	—	—	—	—
Pulkovo	50·5	324	i 9 2	- 8	16 9	-16	25·8	29·8
Helsingfors	53·1	324	e 9 28	+ 1	16 46	-11	26·6	—
Ksars	N. 53·2	290	e 9 26	- 1	17 0	+ 1	21·3	—
Lemberg	N. 56·0	312	—	—	—	—	e 26·4	30·4
Konigsberg	E. 56·6	317	—	—	—	—	e 30·3	30·7
	N. 56·6	317	—	—	e 15 37	?	e 29·6	30·9
Upsala	56·8	325	e 9 46	- 5	e 17 34	-10	e 28·8	33·9
Budapest	59·9	311	e 10 16	+ 5	—	—	30·8	33·8
Lund	60·3	322	10 16	+ 2	18 24	- 3	—	—
Copenhagen	60·7	322	e 10 15	- 2	18 29	- 3	30·8	37·0
Vienna	61·3	314	10 23	+ 2	18 36	- 4	e 31·8	33·8
Potsdam	61·6	318	—	—	—	—	e 33·4	41·5
Zagreb	62·5	310	e 10 30	+ 1	e 18 57	+ 2	e 33·8	—
Hamburg	62·8	320	i 10 33	+ 2	e 19 1	+ 3	e 30·8	37·7
Jena	63·1	316	—	—	—	—	e 32·8	35·5
Feldberg	65·2	317	—	—	e 19 28	+ 1	i 36·2	42·8
De Bilt	66·1	320	e 10 54	+ 2	19 41	+ 3	e 31·8	44·8
Chur	66·1	314	10 56	+ 4	19 27	-11	—	—
Scorsby Sund	66·2	345	—	—	e 20 34	[- 8]	34·8	38·7
Strasbourg	66·4	315	e 10 46	- 8	e 19 46	+ 4	e 31·8	41·3
Zurich	66·4	314	15 49	?PR ₂	—	—	—	—
Florence	66·4	309	9 51	-63	20 26	[-18]	27·3	34·1
Rocca di Papa	66·5	307	e 10 58	+ 3	e 20 2	+18	e 36·2	41·7
Dyce	67·2	327	—	—	19 51	- 1	34·4	37·1
Uccle	67·2	319	e 11 1	+ 2	e 19 51	- 1	e 32·8	42·4
Besançon	68·0	315	e 11 5	+ 1	—	—	35·8	—
Moncalieri	E. 68·1	312	e 11 12	+ 7	19 59	- 4	33·5	48·8
Edinburgh	68·4	327	—	—	e 20 3	- 4	34·8	37·8
Stonyhurst	69·1	323	e 20 15	?S	(e 20 15)	0	36·8	38·8
Paris	69·2	318	i 11 14	+ 2	e 20 14	- 2	33·8	36·8
Key	69·3	320	e 11 13	0	e 20 17	- 1	34·8	44·1
Oxford	69·7	320	—	—	i 20 18	- 4	34·7	37·8
Bldston	69·7	322	20 25	?S	(20 25)	+ 3	33·3	45·2
Tortosa	N. 74·8	311	e 6 12	?	—	—	e 36·8	52·2
Algiers	74·4	307	e 11 50	- 1	e 22 27	?PS	e 40·8	48·8
Alicante	76·8	310	—	—	—	—	e 38·0	—
Toledo	N.E. 78·1	313	—	—	—	—	33·8	48·3
Almeria	78·9	310	e 12 31	+19	—	—	—	50·7
Granada	79·5	310	—	—	e 35 46	?	1 43·6	49·8
San Fernando	81·6	310	—	—	—	—	44·4	47·3
Riverview	83·3	142	—	—	—	—	e 42·9	52·9

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Victoria	86.5	30	23 10	?S	(23 19)	-17	39.5	45.8
Ottawa	E. 98.6	359	—	—	—	—	50.8	—
Toronto	N. 100.4	2	—	—	—	—	e 49.4	—
St. Louis	N. 104.5	11	—	—	e 32 24	?SR ₁	54.0	60.8
Georgetown	Z. 105.1	0	—	—	e 27 10	+27	62.7	67.0
La Paz	158.6	333	e 20 17	[+10]	—	—	—	—

Additional readings: Phu-Lien MN = +10.0m. Zi-ka-wei MZ = +11.7m.
 Taihoku MZ = +13.2m. Hukuoka S = +12m.43s. Kobe MN = +15.6m.,
 MZ = +17.6m. Osaka MN = +15.8m. Manila MN = +18.6m.
 Ekaterinburg i = +12m.8s. Colombo S = +15m.48s. Batavia eE =
 +8m.25s., i = +14m.57s. Lemberg eE = +27m.4s., ME = +30.8m.
 Konigsberg iE = +19m.42s. = [S] + 14s., eE = +22m.1s. = SR₁ - 7s., eN =
 +28m.36s. Upsala SR₁E = +22m.2s., MN = +31.0m. Budapest
 MN = +32.8m. Potsdam i = +32m.54s., MN = +41.0m. Zagreb
 e = +29m.16s. Hamburg MN = +33.8m. Copenhagen SR₁ =
 +23m.28s., SR₂ = +24m.58s., eE = +26m.46s.?, eZ = +27m.46s.?, MN =
 +33.1m., MZ = +39.1m. Feldberg e = +20m.46s. = [S] + 11s., +26m.44s.
 = SR₂ - 15s., and +30m.40s. De Bilt eSR₁ = +24m.22s., MN =
 +37.9m., MZ = +41.4m. Scoresby Sund eEN = +26m.52s. = SR₂ - 27s.,
 MN = +38.1m. Strasbourg MN = +37.5m. Dyce e = +14m.57s.,
 i = +20m.51s. = [S] + 0s., e = +27m.54s. = SR₂ + 15s. Uccle MN =
 +37.1m. Kew eN = +28m.3s. = SR₂ - 19s., MZ = +43.4m., MN =
 +47.8m. Oxford e = +28m.5s. = SR₂ - 24s. Bidston S = +27m.46s.
 Toledo MNW = +48.1m. San Fernando MN = +45.8m. Riverview
 e = +39m.52s. Victoria SE = +28m.51s. Ottawa e? = +30m.46s.?,
 eE = +37m.4s. = SR₂ - 1s., eN = +40m.46s.?, eL = +47.8m. St. Louis
 eN = +41m.5s., +46m.20s., and +47m.32s. Georgetown eZ =
 +28m.52s., and +40m.6s.; also another set of Z readings.

March 7d. Readings also at 4h. (near Tacubaya), 8h. (Perth), 10h. (Tashkent),
 14h. (Ekaterinburg, near Batavia, and Malabar), 15h. (Nagoya), 16h.
 (Rocca di Papa), 18h. (Ekaterinburg, Tashkent, and near Nagasaki).

March 8d. 18h. 13m. 54s. Epicentre 32° 0N. 59° 0E.

A = +.437, B = +.727, C = +.530; D = +.857, E = -.515;
 G = +.273, H = +.454, K = -.848.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Tashkent	12.4	39	i 3 8	+ 3	i 5 31	+ 2	e 8.0	8.8
Dehra Dun	16.4	91	4 29	+32	7 29	+25	10.9	11.6
Bombay	18.1	133	4 12	- 6	7 43	+ 1	9.8	13.3
Ksara	N. 19.4	232	e 4 54	+20	8 45	+35	11.1	—
Makeyevka	22.6	322	e 5 27	+15	i 9 44	+27	13.1	16.0
Hyderabad	22.8	125	5 8	- 7	9 20	- 1	11.8	15.3
Ekaterinburg	24.9	2	i 5 44	+ 7	i 10 12	+11	12.1	18.0
Pulkovo	33.7	335	i 7 6	+ 4	12 30	- 6	20.1	22.3
Konigsberg	N. 35.3	322	—	—	—	—	e 18.9	—
Irkutsk	38.3	45	—	—	—	—	e 22.1	23.9
Upsala	N. 39.0	330	—	—	—	—	e 18.6	27.4
Lund	39.5	322	—	—	—	—	19.1	—
Copenhagen	40.0	322	7 6?	-49	e 14 13	+ 6	26.1	30.6
Entebbe	40.6	225	—	—	—	—	16.1	23.1
Hamburg	40.8	318	e 9 6?	+65	—	—	e 24.1	29.1
Feldberg	41.2	314	—	—	e 14 35	+11	e 25.4	30.5
Strasbourg	41.6	310	—	—	—	—	e 21.1	—
De Bilt	N. 43.5	315	—	—	—	—	e 26.1	31.4
Uccle	43.9	313	—	—	e 20 6?	? ?	e 27.1	—
Paris	45.0	310	—	—	—	—	e 29.1	—
Kew	46.8	314	—	—	—	—	e 30.1	—
Oxford	47.5	314	—	—	—	—	—	33.6
Edinburgh	48.6	320	—	—	—	—	e 30.1	—
Scoresby Sund	57.1	337	—	—	24 6?	?SR ₂	30.1	—
Ottawa	92.4	330	—	—	—	—	e 42.1	—
Georgetown	Z. 98.2	327	—	—	—	—	e 37.4	—

Additional readings: Tashkent i = +6m.24s. and +7m.18s.; P and S are given
 as i simply. Pulkovo iPR₁ = +8m.12s. Konigsberg eLN = +22.7m.
 Irkutsk e = +16m.6s. = SR₁ - 4s., and +21m.5s. Upsala ME = +30.2m.
 Copenhagen MZ = +28.4m., MN = +29.6m. Feldberg e = +21m.35s.
 De Bilt ME = +32.3m., MZ = +36.1m. Ottawa eE? = +39m.6s.?
 Georgetown eZ = +34m.50s.

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March 8d. Readings also at 1h. (near Taihoku), 3h. (Tucson), 5h. (De Bilt, Copenhagen, Ksara, Pulkovo, Irkutsk, Tashkent, Phu-Lien, St. Louis, Ottawa, and near Sucre), 7h. (Ekaterinburg, Irkutsk, and Tashkent), 17h. (near Tashkent), 18h. (near La Paz, Sucre, Nagoya, and near Mizusawa), 19h. (Suva), 21h. (Tashkent), 22h. (Zagreb), 23h. (Suva).

March 9d. 0h. 28m. 34s. Epicentre 36°·2N. 143°·0E. (as on 1927 Dec. 28d.).

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.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	3·2	333	1 4	+14	1 48	+20	—	—
Osaka	6·3	258	1 30	— 6	(2 30)	-22	2·5	4·6
Sumoto	6·8	257	e 1 32	-12	e 3 32	+27	e 5·5	—
Hong Kong	28·5	249	—	—	—	—	—	16·8
Irkutsk	31·5	314	i 5 15	-88	—	—	17·8	19·1
Phu-Lien	35·2	255	—	—	—	—	18·4	—
Tashkent	55·9	300	i 9 39	- 6	17 23	-10	e 27·4	35·0
Ekaterinburg	56·4	321	i 9 46	- 2	17 40	+ 1	e 27·4	36·9
Kucino	68·3	325	—	—	e 24 19	?SR ₁	35·1	39·5
Pulkovo	69·3	331	11 10	- 3	20 24	+ 6	36·4	44·1
Makeyevka	72·5	319	—	—	—	—	36·4	47·5
Upsala	74·0	336	—	—	—	—	—	43·4
Copenhagen	78·8	335	—	—	e 22 14	+ 4	e 42·4	45·7
Hamburg	81·5	335	—	—	—	—	e 44·4	—
De Bilt	84·4	336	—	—	e 23 8	- 4	e 45·4	54·9
Zagreb	85·1	326	—	—	—	—	e 47·4	—
Uccle	85·7	336	—	—	—	—	e 45·4	—
Strasbourg	86·4	332	—	—	—	—	e 51·4	—
Kew	86·6	339	—	—	—	—	e 48·4	—
Paris	88·0	336	—	—	—	—	e 51·4	—
Rocca di Papa	89·8	325	—	—	—	—	e 51·8	—
Ottawa	91·3	26	—	—	—	—	e 52·4	—
Georgetown	z. 96·3	30	—	—	—	—	i 52·8	—

Additional readings: Osaka MN = +4·5m. Pulkovo SR₁ = +24m.50s.
Copenhagen eEN = +30m.26s.?, MN = +49·1m., MZ = +51·6m.

March 9d. 10h. 53m. 18s. Epicentre 4°·0N. 128°·0E. (as on 1925 May 4d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	7·7	179	1 57	0	3 28	- 1	—	—
Manila	E. 12·6	327	i 3 17	+10	i 6 50	+76	i 8·1	10·2
	N. 12·6	327	i 3 20	+13	i 6 53	+79	i 7·9	11·2
Hong Kong	22·7	325	5 10	- 3	9 20	+ 1	—	10·1
Malabar	23·3	241	i 5 20	0	i 10 0	+29	—	—
Batavia	23·5	244	5 14	- 9	i 9 33	- 2	—	—
Phu-Lien	26·7	311	5 50	- 5	e 10 24	-11	—	—
Zi-ka-wei	27·9	348	i 6 0	- 7	11 25	+28	—	—
Nagoya	32·2	14	e 6 37	-13	—	—	—	—
Riverview	43·7	151	e 10 4	?PR ₁	—	—	e 23·3	28·4
Sydney	43·7	151	17 12	?	—	—	27·7	28·5
Melbourne	44·7	161	—	—	i 14 54	-17	22·3	26·3
Irkutsk	52·1	343	i 9 22	+ 1	e 16 37	- 8	e 23·7	—
Wellington	E. 62·2	142	—	—	—	—	—	36·7
Tashkent	64·2	315	i 10 45	+ 6	i 19 24	+ 9	27·6	37·3
Ekaterinburg	74·4	330	i 11 49	+ 4	21 18	- 1	32·7	46·2
Kucino	86·7	325	12 52	- 5	23 21	-17	40·9	53·7
Makeyevka	87·0	319	e 12 55	- 4	23 27	-14	39·7	52·2
Pulkovo	90·4	330	13 11	- 7	24 1	-17	44·7	53·0
Victoria	E. 99·2	39	24 54	?S	(24 54)	-54	46·5	52·9
Copenhagen	100·7	329	—	—	—	—	63·7	—
Vienna	z. 101·1	322	e 17 47	?PR ₁	—	—	—	—
Rocca di Papa	105·7	314	e 18 47	?PR ₁	—	—	—	—
Florence	106·0	317	18 47	?PR ₁	—	—	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
De Bilt	106.1	326	—	—	—	—	e 53.7	61.2
Strasbourg	106.3	324	e 18 42?	?PR ₁	e 28 42?	?PS	e 46.7	—
Dyce	106.8	334	—	—	—	—	e 59.3	—
Uccle	107.2	327	—	—	—	—	e 47.7	—
Paris	109.2	325	—	—	e 29 36	?	67.7	—
Kew	109.3	328	e 18 42?	?PR ₁	29 42?	?	54.7	—
Ottawa	E. 126.3	19	—	—	—	—	e 57.7	—
Toronto	N. 126.4	23	—	—	—	—	63.7	—
Georgetown	Z. 131.2	25	e 19 21	[0]	29 13	?	44.8	—
La Plata	148.6	170	(19 54?)	[0]	—	—	19.9	—
Sucre	160.2	140	20 14	[+6]	—	—	—	—

Additional readings: Batavia P = +5m.17s., iZ = +5m.19s. Riverview
 MN = +28.2m. Melbourne i = +18m.12s. = SR₁ - 12s. De Bilt
 MN = +60.2m., MZ = +70.2m. Kew LZ = +62.7m. Rocca di Papa
 e = +18m.8s. = [S] + 1s., PN = +18m.50s. Ottawa eLN = +61.7m.
 Georgetown PR₁ = +21m.44s.

March 9d. 18h. 5m. 20s. Epicentre 2° 3S. 88° 5E.

A = +.026, B = +.999, C = -.040; D = +1.000, E = -.026;
 G = -.001, H = -.040, K = -.999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	12.6	317	3 10	+ 3	—	—	—	—
Kodaikanal	16.7	319	(4 28)	+27	—	—	4.5	9.2
Batavia	18.7	103	i 4 19	- 6	i 7 44	-11	—	—
Malabar	19.6	105	i 4 28	- 8	i 8 8	- 7	—	—
Hyderabad	22.1	334	5 8	+ 2	9 14	+ 7	—	15.4
Calcutta	N. 24.8	0	7 44	+128	—	—	12.3	—
Bombay	26.2	325	5 48	- 2	10 28	+ 2	—	50.2
Phu-Lien	29.1	37	6 8	-11	11 6	-13	14.7	16.2
Dehra Dun	34.1	345	7 32	+26	12 44	+ 2	15.7	26.5
Hong Kong	35.1	45	7 1	-13	12 36	-21	15.2	20.7
Manila	E. 36.3	62	i 7 15	- 9	i 13 28	+14	i 20.1	—
	N. 36.3	62	i 7 15	- 9	i 13 33	+19	i 20.7	29.1
Perth	39.2	142	i 7 35	-13	i 13 35	-19	—	—
Amboina	39.7	94	7 42	-10	—	—	—	—
Taihoko	E. 42.1	49	8 6	- 6	(14 26)	-10	14.4	29.0
Tananarive	E. 43.5	245	18 13	- 9	14 37	-18	20.6	29.7
	N. 43.5	245	e 8 17	- 5	—	—	18.1	21.3
Zi-ka-wel	45.8	42	18 32	- 7	15 18	- 7	21.9	26.3
Tashkent	47.0	341	18 43	- 4	i 15 2	-39	—	26.2
Nagasaki	51.7	46	e 9 33	+15	17 0	+20	22.6	35.9
Hukuoka	53.3	45	9 29	+ 1	17 15	+15	27.6	34.9
Matuyama	55.1	46	25 51	?L	—	—	i 32.2	36.3
Entebbe	56.1	274	9 44	- 3	17 36	+ 1	24.6	28.6
Irkutsk	56.2	12	9 50	+ 3	17 30	- 6	—	33.4
Adelaide	56.8	131	19 55	+ 4	i 17 54	+10	23.9	32.4
Sumoto	56.9	47	e 9 55	+ 4	e 15 47	+ 2	26.7	31.2
Kobe	57.2	46	19 59	+ 6	i 17 58	+ 9	e 26.0	34.8
Osaka	57.4	46	10 0	+ 5	18 1	+10	28.8	38.1
Toyouka	57.5	46	i 10 1	+ 5	i 18 5	+12	e 24.8	40.0
Nagoya	58.7	46	e 10 4	+ 1	e 18 12	+ 5	—	34.9
Ksara	61.2	312	10 22	+ 2	i 18 44	+ 6	27.7	32.8
Melbourne	62.5	133	i 10 28	- 1	i 18 55	0	30.1	33.3
Ekaterinburg	63.3	345	i 10 38	+ 4	19 9	+ 4	—	—
Helwan	63.3	306	10 37	+ 3	i 19 11	+ 6	—	40.0
Mizusawa	E. 63.5	45	10 38	+ 3	19 16	+ 9	36.0	—
	N. 63.5	45	10 46	+11	19 8	+ 1	33.4	—
Riverview	66.2	128	e 10 50	- 3	i 19 42	+ 2	e 30.2	42.6
Sydney	66.2	128	10 52	- 1	19 28	-12	32.0	40.7
Makeyevka	66.7	328	i 11 0	+ 4	—	—	—	—
Ootomari	68.2	38	e 11 28	+23	(20 22)	+18	20.4	41.9
Kucino	71.1	334	i 11 30	+ 6	i 20 33	- 6	—	—
Cape Town	72.2	235	11 34	+ 3	21 4	+12	33.4	46.2
Lemberg	E. 75.7	323	e 11 58	+ 5	e 21 34	+ 0	e 25.7	27.4
	N. 75.7	323	e 11 58	+ 5	e 21 46	+12	e 26.7	50.1
Belgrade	N. 76.3	319	e 11 58	+ 1	e 21 25	-16	e 32.9	47.0

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Pulkovo		76.7	335	i 12 1	+ 2	21 46	- 1	39.7	45.9
Budapest		78.0	320	12 14	+ 7	22 5	+ 5	31.7	48.7
Helsingfors		79.2	334	12 11	- 3	i 22 9	- 5	36.7	—
Konigsberg	E.	79.4	328	12 15	0	22 19	+ 3	e 31.4	47.7
	N.	79.4	328	e 12 19	+ 4	22 23	+ 7	e 32.0	46.7
Pompeii		79.5	314	e 12 17	+ 1	e 22 12	- 6	31.7	39.7
Zagreb		79.6	319	i 12 21	+ 4	i 22 16	- 3	e 33.7	52.5
Naples	N.	79.7	314	e 12 27	+10	e 23 9	+49	34.7	45.7
Vienna		80.0	321	e 12 17	- 2	i 22 23	0	i 39.3	53.8
Graz		80.2	320	i 12 20	0	i 22 31	+ 6	36.7	52.3
Laibach		80.7	319	i 12 31	+ 8	i 22 34	+ 3	38.7	49.0
Rocca di Papa		81.0	315	e 12 23	- 2	i 22 30	- 5	e 40.1	65.7
Venice		82.0	318	12 33	+ 3	22 55	+ 9	37.8	44.8
Florence		82.4	316	i 12 30	- 2	22 50	0	38.9	44.7
Upsala		82.6	333	e 12 31	- 3	i 22 55	+ 2	e 39.7	53.7
Innsbruck		83.0	320	12 34	- 2	22 52	- 5	28.2	35.3
Potsdam		83.0	324	i 12 51	+15	i 23 3	+ 6	—	50.7
Jena	E.	83.6	323	12 40	0	22 59	- 6	e 34.7	56.2
	N.	83.6	323	12 48	+ 8	23 8	+ 3	e 34.7	53.4
Lund		83.7	328	12 41	+ 1	22 58	- 8	—	—
Chur		84.2	318	12 41	- 2	i 23 2	- 8	—	—
Copenhagen	E.	84.2	328	e 12 41	- 2	i 23 10	0	39.7	54.5
	N.	84.2	328	e 12 41	- 2	i 23 13	+ 3	39.7	51.5
	Z.	84.2	328	e 12 40	- 3	—	—	39.7	54.3
Christchurch		84.2	135	13 0	+17	22 18	-52	37.4	—
Ravensburg		84.3	319	e 12 40	- 4	23 4	- 7	e 28.7	55.3
Hohenheim		84.7	320	e 12 46	0	23 14	- 2	29.3	59.2
Hamburg	E.	85.1	325	—	—	e 23 6	-14	e 45.7	52.5
	N.	85.1	325	—	—	e 23 22	+ 2	e 36.1	53.1
	Z.	85.1	325	e 12 46	- 3	—	—	e 45.7	56.7
Moncalieri		85.1	316	12 46	- 3	23 6	-14	35.2	54.7
Feldberg	E.	85.4	321	e 12 50	0	e 23 15	- 8	—	53.1
	N.	85.4	321	e 12 51	+ 1	i 23 28	+ 5	—	41.7
Strasbourg		85.7	320	12 45	- 7	i 23 15	-12	35.7	44.7
Wellington	E.	85.7	132	i 12 48	- 4	i 22 52	-35	39.5	47.6
	N.	85.7	132	i 12 55	+ 3	i 23 5	-22	i 34.9	36.2
Neuchatel		86.1	318	i 12 49	- 5	i 23 16	-15	—	—
Besançon		86.6	318	e 12 54	- 3	i 23 33	- 4	33.7	50.7
Grenoble		86.6	316	e 12 55	- 2	e 23 34	- 3	e 36.2	—
Marseilles		86.6	315	e 12 54	- 3	23 24	-13	e 41.7	—
Algiers		87.7	307	13 1	- 2	i 23 39	-10	41.7	50.7
De Bilt		87.9	323	i 13 0	- 4	e 23 22	-29	e 36.7	58.1
Uccle		88.1	321	e 13 1	- 5	i 23 47	- 6	36.7	59.4
Puy de Dôme		88.6	317	12 48	-20	23 28	-31	e 36.7	—
Bergen		88.7	331	i 13 0	- 9	23 39	-21	e 29.7	51.7
Barcelona		88.8	312	e 13 8	- 1	23 43	-18	—	54.0
Paris		89.1	320	e 13 4	- 7	i 23 45	-19	36.7	64.7
Suva	E.	89.2	108	12 22	-49	i 23 4	-61	39.5	—
	N.	89.2	108	12 28	-43	i 22 40	-85	44.2	—
Tortosa	E.	90.0	311	13 11	- 5	23 47	[+19]	e 36.7	—
	N.	90.0	311	13 13	- 3	i 23 59	-15	37.4	64.1
Bagnères		90.3	315	13 19	+ 1	23 52	[+22]	e 36.7	—
Alicante		90.7	309	e 13 13	- 7	i 23 53	[+21]	e 29.8	30.5
Kew		91.0	323	e 13 15	- 6	i 24 9	-15	45.8	63.5
Oxford	E.	91.6	323	i 13 25	0	23 40	[+ 2]	e 51.7	59.8
	N.	91.6	323	13 28	+ 3	23 0	[-38]	e 51.7	59.6
Dyce		92.2	327	13 33	+ 5	24 27	-10	43.3	55.8
Almeria		92.4	306	13 28	- 1	i 24 37	- 2	30.9	49.8
Stonyhurst		92.4	324	i 13 29	0	i 24 43	+ 4	44.7	63.2
Bidston		92.8	324	11 40?	-111	24 24	-19	38.3	61.8
Edinburgh		92.8	326	13 35	+ 4	24 45	+ 2	34.7	62.7
Granada		93.1	306	i 13 33	0	i 24 45	- 1	33.2	52.1
Toledo		93.4	310	e 14 35	+61	i 24 31	-18	e 36.5	40.4
Malaga		93.7	306	13 29	- 7	24 49	- 4	33.5	47.0
San Fernando		95.1	306	i 13 44	0	i 24 47	-20	44.5	64.9
Rio Tinto		95.5	307	12 40?	-66	—	—	—	71.7
Scoresby Sund		98.9	342	14 1	- 4	e 25 44	- 1	e 49.7	59.8
Apia		98.9	103	—	—	—	—	48.7	57.7
Reykjavik		100.9	335	e 18 19	[+30]	e 28 9	+125	53.4	64.5
Honolulu T.H.	E.	112.8	67	i 19 23	[+53]	e 26 25	[+64]	44.2	—
Sitka	E.	115.2	24	—	—	27 57	-15	e 58.7	73.0
	N.	115.2	24	—	—	27 55	-17	e 58.7	66.4

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Victoria	E. 126.4	25	19 32	[+23]	31 9	?PS	53.5	56.4
	N. 126.4	25	19 32	[+23]	31 2	?PS	—	64.8
Rio de Janeiro	E. 126.6	239	e 21 10	?PR ₁	—	—	58.9	60.7
	N. 126.6	239	e 21 0	?PR ₁	—	—	58.7	71.7
Spokane	129.4	21	e 18 32	[-45]	—	—	53.8	63.3
La Plata	131.3	217	19 26	[+ 4]	—	—	53.9	—
Berkeley	134.6	34	e 19 30	[+ 1]	—	—	e 64.4	—
Ottawa	134.7	344	e 19 50	[+21]	—	—	e 62.7	85.2
Lick	E. 135.3	34	e 22 15	?PR ₁	—	—	e 65.4	—
Harvard	136.0	337	e 22 14	?PR ₁	—	—	e 68.7	78.3
Toronto	137.3	346	e 19 47	[+12]	—	—	56.5	79.0
Ithaca	137.7	342	e 21 10	?	—	—	63.7	—
Santiago	139.3	207	e 15 22	?	e 33 52	?	60.7	—
Chicago	E. 140.4	355	e 20 5	[+25]	—	—	56.0	68.8
Denver	E. 140.6	15	e 19 24	[-16]	—	—	60.1	70.7
	N. 140.6	15	e 18 40	[-60]	—	—	60.1	70.2
Georgetown	Z. 141.1	340	e 14 45	?	34 46	?	e 62.1	82.0
Charlottesville	N. 142.3	342	20 56	[+72]	—	—	48.7	86.2
Cincinnati	142.6	350	19 49	[+ 5]	123 8	?PR ₁	59.7	69.7
St. Louis	E. 143.7	356	e 19 55	[+ 9]	i 26 49	[+17]	i 66.1	79.6
	N. 143.7	356	i 19 44	[- 2]	i 26 49	[+17]	i 68.4	78.5
Tucson	N. 144.9	29	18 46	[-62]	—	—	61.1	—
Sucre	146.5	229	19 48	[- 2]	29 37	?PR ₂	62.2	78.8
La Paz	150.2	230	i 20 1	[+ 5]	27 11	?PR ₂	69.7	80.2

Additional readings and notes: Colombo +11m.10s. and +15m.25s. Batavia iZ = +4m.25s., i = +4m.26s., iN = +7m.56s. Malabar i = +4m.30s. and +4m.33s. Hong Kong MN = +22.2m. Manila iPR₁N = +8m.51s., iPR₁E = +8m.56s., iPR₁E = +9m.36s., PSE = +12m.31s., PSN = +12m.48s., iSR₁N = +16m.54s., iSR₁E = +16m.56s., iSR₁N = +17m.50s., iSR₁E = +18m.22s., Perth SR₁ = +15m.25s. Amboina i = +7m.55s., +8m.5s., and +16m.32s. SR₁ = +8s., iE = +9m.55s. Tananarive PR₁ = +9m.57s., PR₁ = +10m.22s., PR₂ = +10m.42s., PeS = +14m.23s., PPSN = +4m.44s., SR₁N = +17m.41s., SR₁E = +19m.44s.; T₀ = 18h.5m.19s. Zi-ka-wei PR₁ = +10m.37s., PS = +15m.38s., MN = +26.0m., MZ = +26.4m., Nagasaki PR₁ = +11m.38s., PR₂ = +12m.41s., SR₁ = +21m.27s., MZ = +29.8m. Hukuoka MN = +30.2m. Adelaide ePR₁ = +12m.59s., iS = +17m.15s., iL = +26.7m., MN = +30.0m. Sumoto eSR₁ = +21m.31s. Kobe MN = +33.4m., MZ = +35.7m. Osaka MN = +33.4m. Toyooka MN = +32.5m., Ksara PR₁E = +12m.54s., PR₁E = +15m.0s. = PR₁ + 8s., SR₁E = +23m.2s., SR₁E = +25m.44s.; T₀ = 18h.5m.24s. Ootomari S = +16m.44s. Riverview i = +11m.4s., PR₁ = +13m.34s., PR₂ = +15m.4s., iS = +19m.48s., PS = +20m.15s., iPeSSp = +26m.50s. and +27m.28s. = SR₁ + 9s., e = +28m.10s. = SR₁ - 22s., MN = +32.4m.; T₀ = 18h.5m.24s. Sydney SR₁ = +24m.28s. Belgrade iN = +11m.59s., iPN = +12m.12s., iN = +12m.21s., ePR₁N = +16m.6s. Budapest i = +12m.24s. Helsingfors i = +12m.21s. Konigsberg PR₁E = +15m.36s., PR₁N = +15m.48s., PSN = +23m.15s., PPSN = +23m.52s., SR₁E = +27m.48s., SR₁N = +28m.10s., iN = +30m.46s., iNE = +15m.40s., ePR₁NW = and +12m.53s. iPR₁NW = +15m.4s., iNE = +15m.40s., ePR₁NW = +17m.15s., ePR₁NW = +20m.25s., iSR₁NW = +31m.18s. = SR₁ - 19s., Vienna iP = +12m.20s., iE = +12m.20s., iZ = +14m.35s., iN = +15m.25s., P = +16m.18s., iE = +16m.44s., PR₁ = +17m.20s., iE = +19m.5s., PR₁ = +20m.8s., SePeS = +22m.40s., iE = +26m.4s., PS = +27m.8s., iE = +27m.52s., PPS = +28m.12s., iE = +30m.43s., iN = +31m.13s., iE = +31m.50s., iN = +32m.33s., SR₁ = +33m.47s., PR₁ = +34m.20s. Graz PR₁ = +15m.31s., SR₁ = +28m.24s., SR₁ = +31m.45s., SR₂ = +34m.1s., MN = +52.1m. Laibach i = +15m.36s. = PR₁ - 19s., e = +28m.40s. = SR₁ + 16s. Rocca di Papa P = +12m.26s., eSN = +22m.36s., eLE = +36.2m., eLN = +36.9m. Venice P = +12m.35s. Florence PR = +15m.50s., PR₂ = +17m.47s., PR₃ = +19m.15s., PS = +23m.40s., SR₁ = +28m.10s. Upsala i = +12m.40s., PR₁E = +15m.42s., PR₁E = +19m.2s., SR₁E = +28m.27s., MN = +56.9m. Innsbruck PR₁NE = +12m.42s., MNW = +50.2m. Jena PN = +12m.58s., iN = +13m.32s., iE = +13m.34s., eN = +15m.35s., iE = +16m.7s. = PR₁ - 9s., eN = +17m.20s., eE = +24m.7s., and +24m.12s., eN = +27m.16s., and +29m.0s. = SR₁ - 4s., eE = +28m.28s., Lund +28m.25s. Copenhagen iP = +12m.51s., ePR₁Z = +15m.46s., ePR₁EN = +15m.58s., PR₂ = +17m.56s., eN = +19m.26s. = PR₁ - 8s., eE = +19m.40s. = PR₁ + 6s., eEN = +22m.10s., eE = +22m.39s., eZ = +22m.56s., ePSZ = +23m.58s., iPSE = +24m.10s., SR₁ = +28m.28s., SR₂ = +32m.10s. Christchurch PR₁ = +16m.6s., SR₁ = +27m.6s. Ravensburg iP = +12m.52s., PR₁ = +16m.10s., PR₂ = +18m.4s., MN = +53.6m. Hohenheim iP = +12m.58s., PR₁ = +16m.16s., PR₂ = +18m.8s., MN = +54.7m.

Continued on next page.

Hamburg $iPZ = +12m.55s.$, $iPR_1Z = +16m.19s.$, $iSR_1E = +29m.8s.$,
 $eSR_1E = +33m.15s.$, $eSR_1N = +33m.22s.$, $eSR_1E = +35m.22s.$ Moncalieri
 $MN = +48.5m.$ Feldberg $iPE = +12m.59s.$, $iPN = +13m.2s.$, $eN =$
 $+15m.28s.$, $eE = +15m.57s.$, $eN = +22m.55s.$, $iE = +23m.34s.$, $eE =$
 $+24m.22s.$, $eN = +26m.40s.$, $eE = +28m.58s.$ Strasbourg $PR_1 =$
 $+16m.22s.$, $PR_2 = +18m.35s.$, $PS = +24m.10s.$, $SR_1 = +33m.30s. = SR_2 + 2s.$,
 $MN = +54.7m.$, $MZ = +57.7m.$ Wellington $iPR_1E = +16m.7s.$, $SR_1E =$
 $+28m.48s.$; $T_0E = +18h.5m.49s.$; $T_0N = 81h.5m.51s.$ Besançon
 $PR_1 = +16m.28s.$ Grenoble $S = +23m.28s.$ Marseilles $P = +12m.56s.$,
 $i = +23m.28s.$, $PS = +24m.30s.$, $SR_1 = +28m.48s.$ Algiers $PR_1 =$
 $+16m.36s.$, $MN = +44.7m.$ De Bilt $iZ = +13m.8s.$, $iE = +24m.48s.$,
 $PS + 6s.$, and $+29m.48s. = SR_1 - 15s.$, $MZ = +58.4m.$, $MN = +59.0m.$; epicentre
 $2^{\circ}S$ $89^{\circ}E.$ Uccle $i = +13m.10s.$, $PR_1 = +16m.30s.$, $S = +23m.23s.$,
 $iSR_1 = +29m.51s.$, $MN = +37.1m.$, $MZ = +58.3m.$; the S entered is given
as simply i. Puy de Dôme $PR_1 = +16m.21s.$, $PS = +24m.32s.$, $SR_1 =$
 $+29m.11s.$ Bergen $PR_1 = +16m.12s.$ Barcelona $SR_1 = +29m.50s.$,
 $MN = +37.4m.$ Paris $iP = +13m.14s.$, $SR_1 = +29m.50s.$, $MN = +51.7m.$
Suva $PR_1 = +16m.10s.$, $iSR_1N = +28m.40s.$, $iSR_2N = +33m.40s.$, $T_0E =$
 $18h.4m.42s.$; $T_0N = 18h.5m.18s.$ Bagnères $PR_1 = +16m.55s.$, $PS =$
 $+25m.20s.$, $SR_1 = +30m.15s.$ Alicante $PR_1 = +16m.52s.$, $MN =$
 $+59.2m.$ Kew $iPZ = +13m.23s.$, $ePR_1Z = +16m.38s.$, $ePR_1N =$
 $+16m.47s.$, $iPR_1E = +16m.56s.$, $iPR_1Z = +18m.59s.$, $S_{cPcSE} = +23m.47s.$,
 $PS_{EZ} = +25m.26s.$, $SR_1E = +30m.13s.$, $SR_1N = +30m.19s.$, $SR_2N =$
 $+33m.59s.$, $LN = +37.7m.$ (LZ is entered in the table), $MN = +59.2m.$,
 $MZ = +60.1m.$ Oxford $PR_1E = +17m.12s.$, $PR_2E = +19m.9s.$, $PR_2 =$
 $+20m.58s.$, $iE = +30m.20s.$ Dyce [P] $= +16m.56s.$, $PR_1 = +17m.46s.$,
 $SR_1 = +31m.2s.$, $eSR_2 = +34m.32s.$ Almeria $PR_1 = +17m.0s.$, $MZ =$
 $+52.2m.$ Stonyhurst $PR_1 = +16m.53s.$, $SR_1 = +30m.55s.$ Bidston
 $SR_1 = +31m.0s.$? Edinburgh $PS? = +24m.10s.$, $i = +25m.59s.$, $SR_1 =$
 $+31m.9s.$ Granada $iP = +13m.35s.$, $PR_1 = +17m.14s.$, $PR_2 = +18m.9s.$,
 $i = +25m.0s.$, and $+25m.59s. = PS + 15s.$, and $+31m.23s. = SR_1 + 12s.$; epicentre
 $1^{\circ}S$ $89^{\circ}5E.$ Toledo $iNW = +17m.9s.$ and $+18m.21s.$, $iNE = +30m.51s. =$
 $SR_1 - 23s.$, $MZ = +53.5m.$; epicentre $1^{\circ}S$ $89^{\circ}5E.$ San Fernando $PR_1 =$
 $+17m.34s.$, $PR_2 = +20m.5s.$, $PR_2 = +22m.35s.$, $SR_1 = +30m.21s.$, $SR_2 =$
 $+35m.45s.$, $MN = +51.9m.$ Scoresby Sund $PR_1 = +17m.41s.$,
 $eS_{cPcSEN} = +24m.44s.$, $PS = +27m.5s.$, $PPS = +28m.22s.$, $SR_1 = +32m.28s.$,
 $SR_2 = +36m.22s.$, $eN = +40m.4s.$, and $+44m.40s.$? $eLN = +47.7m.$, $MN =$
 $+60.1m.$ Reykjavik $e = +24m.58s. = [S] + 30s.$, $ePS = +26m.1s. =$
 $S - 3s.$, $i = +27m.22s. = PS + 6s.$, $e = +30m.42s.$, $iSR_1 = +33m.1s.$, $iSR_2 =$
 $+39m.59s.$, $MN = +65.8m.$ Honolulu T.H. $ePR_1N = +20m.35s.$,
 $ePR_2N = +24m.17s.$, $PS = +29m.13s.$, $SR_1N = +34m.20s.$, $SR_2E =$
 $+34m.53s.$, $eSR_1E = +38m.34s.$, $LN = +45.2m.$ Sitka $PSN =$
 $+29m.47s.$, $PS_{E} = +29m.48s.$ Spokane $e = +19m.49s.$, $eE = +21m.29s.$
 $= PR_1 + 3s.$, $iN = +22m.12s.$, $i = +24m.27s.$, $ePSN = +32m.24s.$, $e =$
 $+34m.8s.$, $eSR_1 = +39m.13s.$, $SR_2 = +44m.19s.$, $MN = +64.8m.$ Berkeley
 $eE = +19m.38s.$, $eZ = +22m.4s. = PR_1 + 4s.$, $eN = +22m.6s. = PR_1 + 6s.$, $eE =$
 $+22m.10s. = PR_1 + 10s.$, $+22m.31s.$, $+23m.11s.$, and $+40m.15s.$
 $= SR_1 + 27s.$, $eGE? = +57m.22s.$ Ottawa $i = +22m.11s. = PR_1 + 11s.$,
and $+32m.18s.$, $iN = +34m.12s.$, $i = +40m.26s.$, $eL? = +55.1m.$, $MN =$
 $+83.7m.$ Lick $eE = +22m.39s.$, $+23m.29s.$, $+40m.16s. = SR_1 + 21s.$
 $+40m.25s.$, $+57m.40s.$? Harvard $e = +29m.6s. = Z + 17s.$, $eN =$
 $+31m.48s.$, $+35m.50s.$, $iN = +39m.12s.$, $eE = +39m.46s. = SR_1 - 18s.$, $iN =$
 $+40m.24s. = SR_1 + 20s.$ Toronto $eE = +19m.48s.$, $iN = +22m.25s. =$
 $PR_1 + 8s.$, $+32m.37s.$, $+34m.48s.$, and $+40m.43s. = SR_1 + 24s.$, $MN =$
 $+79.4m.$ Ithaca $e = +22m.20s. = PR_1 + 0s.$, $+39m.16s.$, and $+44m.0s.$
Chicago $ePR_1E = +23m.2s.$, $ePS_{E} = +36m.39s.$, $iSR_1E = +41m.3s.$ Denver
 $i = +21m.4s.$ and $+21m.46s.$, $e? = +24m.40s.$, $e = +26m.40s.$, $eN =$
 $+34m.44s.$, $eE = +38m.52s.$, $eN = +40m.4s.$, $e = +45m.16s.$, $iN =$
 $+48m.40s.$? Georgetown $PR_2Z = +19m.40s.$, $PR_1Z = +22m.39s.$
Charlottesville $iPR_1N = +24m.0s.$, $eE = +24m.4s.$, $ePSN = +33m.50s.$,
 $ePS_{E} = +34m.8s.$, $eSR_1E = +42m.12s.$, $iSR_1N = +42m.30s.$, $LE = +58.7m.$
Cincinnati $iE = +25m.36s.$, $iPR_1N = +25m.48s.$, $iN = +27m.59s.$,
 $iS_{cPcSPN} = +33m.3s.$, $iPPSEN = +35m.34s.$, $SR_1EN = +41m.26s.$, $iSR_1N =$
 $+46m.44s.$, $i = +52m.3s. = SR_1 - 17s.$ St. Louis $ePR_1N = +23m.7s.$,
 $iS_{cPcPEN} = +23m.19s.$, $iPR_2 = +26m.13s.$, $iPR_1 = +29m.15s.$, $iS_{cPcPESE} =$
 $+29m.34s.$, $iS_{cPcPeSN} = +29m.37s.$, $e = +31m.39s.$, $ePS = +34m.11s.$,
 $iN = +36m.4s.$, and $+38m.27s.$, $SR_1 = +41m.26s.$, $SR_2 = +47m.22s.$, $SR_1 =$
 $+51m.52s.$, $iN = +55m.7s.$ Tucson $PR_1N = +23m.4s.$, $eSR_1N =$
 $+41m.45s.$, $eSR_2N = +47m.0s.$ Sucre $i = +21m.33s.$, $iPR_1 = +23m.21s.$,
 $PR_2 = +26m.39s.$, $S_{cPcS} = +27m.5s.$, $PS = +30m.5s.$, $SR_1 = +33m.39s.$,
 $SR_2 = +38m.9s.$, $SR_2 = +41m.39s.$ La Paz $iPR_1 = +22m.51s.$, $PR_1N =$
 $+26m.20s. = [S] - 19s.$, $S_{cPcSN} = +27m.3s.$, $iPR_1E = +30m.33s.$, $iPR_2N =$
 $+30m.38s.$, $PS_{E} = +33m.59s.$, $PSN = +34m.1s.$, $PPSE = +35m.18s.$,
 $SR_1E = +40m.56s.$, $SR_1N = +41m.6s.$, $iSR_1E = +45m.54s.$, $SR_2N =$
 $+46m.9s.$, $SR_2E = +50m.32s.$, $SR_2N = +50m.36s.$, $L = +62.8m.$, $MN =$
 $+85.0m.$

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March 9d. Readings also at 0h. (Wellington), 9h. (La Paz), 11h. (Tashkent), 15h. (near Batavia and Malabar), 16h. (near La Paz and Sucre), 17h. (Nagoya and Mizusawa), 18h. (Balboa Heights), 19h. (La Paz and Sucre), 23h. (Tashkent and near Wellington).

March 10d. 3h. 17m. 50s. Epicentre 2°-3S. 88°-5E. (as on 9d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	12.6	317	i 5 28	?S	(i 5 28)	- 6	—	10.1
Kodaikanal	16.7	319	—	—	(7 34)	+23	7.6	9.9
Batavia	18.7	103	i 4 15	-10	i 7 53	- 2	—	—
Hyderabad	22.1	334	5 9	+ 3	9 23	+16	11.2	17.2
Bombay	26.2	325	5 48	- 2	10 30	+ 4	14.0	19.0
Hong Kong	35.1	45	12 32	?S	(12 32)	-25	—	24.0
Tashkent	47.0	341	8 43	- 4	i 15 36	- 5	e 22.1	27.2
Irkutsk	56.2	12	—	—	e 19 52	[+27]	e 29.5	36.5
Ksara	61.2	312	—	—	18 10?	-28	e 32.2	—
Melbourne	62.5	133	—	—	e 19 25	?FS	(29.8)	32.8
Ekaterinburg	63.3	345	10 37	+ 3	e 19 8	+ 3	32.2	45.0
Riverview	66.2	128	—	—	e 19 16	-24	e 30.3	34.3
Makeyevka	66.7	328	—	—	e 18 55	-51	32.2	39.5
Kucino	71.1	334	e 15 55	?PR ₂	20 44	+ 5	37.2	46.0
Pulkovo	76.7	335	11 59	0	21 47	+ 2	40.2	47.2
Copenhagen	84.2	328	—	—	e 23 7	- 3	e 48.2	53.5
Feldberg	85.4	321	—	—	—	—	—	62.2
De Bilt	87.9	323	—	—	e 23 40	-11	e 47.2	—
Paris	89.1	320	—	—	—	—	e 57.2	—
Kew	91.0	323	—	—	—	—	e 49.2	—
Ottawa	134.7	344	—	—	—	—	e 78.2	—
Sucre	146.5	229	19 53	[+ 2]	—	—	—	—
La Paz	150.2	230	20 6	[+10]	—	—	—	—

Additional readings and note: Batavia iE = +4m.16s., i = +4m.20s., iZ = +4m.51s., iE = +5m.3s., iZ = +8m.17s. = SR₁ -6s., iN = +8m.21s. = SR₁ -2s. Hong Kong MN = +21.7m. Melbourne L is given as SR₁. Copenhagen eE = +28m.10s. ?, eLN = +46.2m.

March 10d. 5h. 53m. 20s. Epicentre 2°-3S. 88°-5E. (as at 3h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	12.6	317	i 5 28	?S	(i 5 28)	- 6	—	10.1
Kodaikanal	16.7	319	—	—	—	—	8.5	10.6
Batavia	18.7	103	i 4 18	- 7	—	—	—	—
Hyderabad	22.1	334	5 7	+ 1	9 21	+14	11.5	17.4
Bombay	26.2	325	5 34	-16	10 24	- 2	14.2	18.9
Phu-Lien	29.1	37	—	—	10 40?	-39	—	—
Tashkent	47.0	341	18 39	- 8	i 15 36	- 5	e 22.7	27.2
Irkutsk	56.2	12	—	—	—	—	e 32.3	35.4
Ekaterinburg	63.3	345	i 10 38	+ 4	19 10	+ 5	32.7	38.4
Riverview	66.2	128	—	—	e 28 46	?SR ₂	e 34.5	38.8
Pulkovo	76.7	335	11 59	0	21 57	+12	43.7	—
Copenhagen	84.2	328	—	—	—	—	48.7	—
De Bilt	87.9	323	—	—	—	—	e 48.7	—

Batavia gives also i = +5m.7s.

March 10d. 10h. 19m. 21s. Epicentre 2°-3S. 88°-5E. (as at 5h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	12.6	317	5 28	?S	(5 28)	- 6	—	10.1
Tashkent	47.0	341	—	—	e 15 34	- 7	e 24.6	30.6
Ekaterinburg	63.3	345	10 42	+ 8	19 17	+12	32.6	—

No additional readings.

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March 10d. 15h. 49m. 45s. Epicentre 2°3S. 88°5E. (as at 10h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	12.6	317	5 20	?S	(5 20)	-14	—	10.5
Phu-Lien	29.1	37	—	—	11 15?	-4	—	—
Tashkent	47.0	341	—	—	e 15 40	-1	e 24.2	35.0
Ekaterinburg	63.3	345	10 41	+ 7	19 18	+13	—	30.2
Kucino	71.1	334	—	—	—	—	41.8	—

No additional readings.

March 10d. Readings also at 0h. (Port au Prince and Tashkent), 2h. (Zi-ka-wei, near Batavia, and Malabar), 5h. (Rocca di Papa), 6h. (Batavia and near Malabar), 7h. (Stonyhurst), 12h. (Tashkent, Zagreb (2), and near Belgrade), 13h. (Ekaterinburg), 15h. (near La Paz and Sucre), 18h. (Johannesburg), 19h. (La Paz), 21h. (Wellington, Riverview, Melbourne, and near Malabar), 22h. (San Fernando), 23h. (Ekaterinburg and Tashkent).

March 11d. Readings at 1h. (Taihoku), 7h. (near La Paz), 8h. (Kew), 11h. (near Sucre), 11h. (Nagoya, near Toyooka, and Sumoto), 13h. (Nagoya (2)), 14h. (near La Paz and Sucre).

March 12d. 16h. 55m. 45s. Epicentre 10°7N. 124°7E. (given by De Bilt).

A = -559, B = +808, C = +186; D = +822, E = +569;
G = -106, H = +153, K = -983.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	5.3	317	e 1 40	+18	—	—	2.8	4.7
Hong Kong	15.3	320	—	—	—	—	—	8.8
Phu-Lien	20.1	302	e 4 38	-4	—	—	—	—
Zi-ka-wei	20.7	352	e 4 47	-2	e 8 38	0	—	—
Batavia	E. 24.5	227	—	—	i 8 51	-63	—	—
Irkutsk	44.7	344	—	—	e 14 3	-68	e 18.2	25.6
Tashkent	57.2	315	i 9 52	-1	e 17 40	-9	e 24.2	32.8
Ekaterinburg	67.0	329	e 10 58	0	e 19 55	+5	30.2	37.2
Baku	71.5	310	—	—	—	—	41.2	—
Makeyevka	79.9	318	—	—	—	—	34.2	—
Pulkovo	83.0	330	—	—	—	—	41.2	52.6
Copenhagen	93.2	329	—	—	—	—	46.2	51.0
De Bilt	98.7	327	—	—	—	—	e 50.2	54.9
Uccle	99.8	326	—	—	—	—	e 50.2	—
Edinburgh	100.6	335	—	—	—	—	—	56.2
Kew	101.9	330	—	—	—	—	e 51.2	—

Additional reading and notes: Phu-Lien reading has been diminished by 1h. Batavia reading is given simply as iE. De Bilt MN = +53.0m.

March 12d. 20h. 2m. 9s. Epicentre 10°7N. 124°7E. (as at 16h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	5.3	317	e 1 40	+18	—	—	2.7	—
Irkutsk	44.7	344	—	—	—	—	18.4	—
Tashkent	57.2	315	i 8 10	-103	e 17 51	+ 2	e 27.9	31.9
Ekaterinburg	67.0	329	i 10 53	-5	e 20 32	[-17]	32.9	—
Pulkovo	83.0	330	—	—	—	—	e 48.8	—
Copenhagen	93.2	329	—	—	—	—	51.9	—
De Bilt	98.7	327	—	—	—	—	e 51.9	—

Tashkent gives also e = +27m.51s.

March 12d. Readings also at 1h. (near Nagoya), 6h. (near Toyooka), 7h. (Wellington), 8h. (Bombay, Kodakanal, and Tashkent), 9h. (Baku, Ekaterinburg, Irkutsk, Hyderabad, and near Manila), 17h. (Manila and near Tananarive), 18h. (Toyooka).

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March 13d. 1h. 37m. 28s. Epicentre 2°38. 88°5E. (as on 10d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	12.6	317	e 2 25	-42	(15 25)	-9	—	10.1
Kodaikanal	16.7	319	—	—	—	—	8.3	10.1
Batavia	18.7	103	e 4 19	-6	17 38	-17	11.5	—
Hyderabad	22.1	334	—	—	9 17	+10	10.9	17.2
Bombay	26.2	325	5 50	0	10 26	0	13.6	18.9
Phu-Lien	29.1	37	8 32?	?	—	—	—	—
Hong Kong	35.1	45	—	—	—	—	—	22.4
Tashkent	47.0	341	i 8 39	-8	i 15 30	-11	e 19.5	27.2
Baku	55.3	326	—	—	e 17 37	+12	28.5	37.9
Irkutsk	56.2	12	—	—	—	—	29.8	—
Ekaterinburg	63.3	345	10 39	+5	19 2	-3	29.5	38.0
Riverview	66.2	128	—	—	—	—	e 30.7	33.7
Kucino	71.1	334	—	—	—	—	e 36.5	—
Pulkovo	76.7	335	—	—	—	—	35.5	—
Copenhagen	84.2	328	—	—	—	—	45.5	—
De Bilt	87.9	323	—	—	—	—	e 50.5	—
Kew	91.0	323	—	—	—	—	e 52.5	—
La Paz	150.2	230	e 20 3	[+ 7]	—	—	—	—

Additional readings and notes: Colombo gives S as separate IP. Batavia
 i = +4m.54s.; P and S readings being given without phase. Ekaterinburg
 e = +23m.4s.

March 13d. 18h. 31m. 44s. Epicentre 5°5S. 153°5E.

A = -0.891, B = +0.444, C = -0.096; D = +0.446, E = +0.895;
 G = +0.086, H = -0.043, K = -0.995.

A depth of focus 0.015 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Amboina	-0.8	25.3	273	i 5 25	-8	9 42	-12	13.3	—
Suva	E. -0.9	27.4	120	5 22	-31	i 10 16	-16	12.2	15.7
	N. -0.9	27.4	120	i 5 22	-31	i 10 28	-4	14.6	25.6
Riverview	-0.9	28.4	184	i 5 59	-4	i 10 40	-10	e 13.5	16.7
Sydney	-0.9	28.4	184	6 16	+13	(10 16)	-34	15.6	16.6
Adelaide	-1.1	32.5	203	i 6 37	-5	i 11 41	-17	i 14.1	22.8
Melbourne	-1.1	33.2	192	i 6 40	-8	i 11 58	-12	—	17.1
Apia	-1.2	35.2	106	e 6 42	-23	13 10	+30	18.3	24.4
Manila	E. -1.3	38.0	304	e 7 16	-12	i 11 24	-116	i 13.8	14.8
	N. -1.3	38.0	304	e 7 16	-12	i 11 26	-114	i 13.6	16.5
Wellington	E. -1.3	40.5	155	i 7 41	-7	i 14 4	+10	19.7	22.9
	N. -1.3	40.5	155	i 7 41	-7	i 14 13	+19	20.1	21.1
Christchurch	-1.3	41.6	160	7 21	-36	14 45	+34	22.6	—
Osaka	-1.4	43.5	339	7 15	-57	—	—	18.5	22.4
Sumoto	-1.4	43.5	339	e 7 22	-50	(e 14 25)	-11	e 16.7	—
Perth	-1.4	44.0	229	e 8 31	+16	i 14 41	-2	i 17.7	21.4
Nagasaki	-1.4	44.4	332	e 7 31	-47	13 31	-77	16.9	—
Hukuoka	E. -1.4	44.8	334	—	—	—	—	—	18.1
Malabar	-1.4	45.7	266	i 8 26	-2	i 15 0	-6	—	—
Mizusawa	-1.4	46.1	349	8 22	-9	i 14 48	-23	18.1	—
Batavia	-1.4	46.4	268	i 8 18	-15	i 14 57	-18	e 24.3	—
Zi-ka-wei	-1.4	47.4	324	i 8 35	-5	15 21	-7	—	33.4
Hong Kong	-1.4	47.5	308	8 49	+8	15 19	-10	18.3	24.3
Phu-Lien	-1.6	53.0	301	9 15	-1	e 16 37	+1	23.8	—
Honolulu T.H.	E. -1.7	54.5	60	i 9 29	+4	i 17 14	+20	24.8	25.8
	N. -1.7	54.5	60	i 9 29	+4	17 2	+8	22.8	32.3
Calcutta	-2.0	69.6	296	10 38	-24	(20 14)	+17	20.2	—
Irkutsk	-2.0	71.2	331	11 16	+4	i 20 23	+7	33.9	40.8
Colombo	-2.0	74.6	279	11 53	+19	21 8	+11	36.9	40.4
Kodaikanal	-2.2	77.4	282	10 16	-94	(21 40)	+12	21.7	22.7
Hyderabad	-2.2	77.5	290	11 58	+7	21 42	+13	38.0	—
Bombay	-2.1	83.0	290	12 48	+24	22 33	-1	40.9	—
Berkeley	-2.1	88.8	52	e 13 16	+19	e 23 33	-5	e 40.4	—
Tashkent	-2.1	89.3	313	i 12 53	-7	i 23 15	[- 9]	38.3	41.9

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	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m. m.	m. m.
Victoria	E. -2.1	89.6	41	12 57	- 5	23 37	-10	40.9	42.1
Ekaterinburg	-2.2	96.2	327	i 13 25	-13	i 24 32	γ E	40.3	47.9
Tucson	N. -2.2	97.7	59	e 17 10	γ PR ₁				
Tananarive	Z. -2.2	103.2	250			24 37	[- 2]		
Kucino	-2.2	103.9	311	e 14 3	-16	25 49	γ E	47.3	54.6
Makseyevka		108.7	328	e 18 57	γ PR ₁	e 24 54	[-11]	47.5	52.0
Palkovo		110.9	320	e 19 21	γ PR ₁	i 25 5	[- 9]	41.3	61.0
Hel싱fors		111.0	333	e 14 33	-29	26 35	γ E	49.3	62.6
St. Louis		113.1	334	e 18 58	γ PR ₁	e 29 28	γ PS		
Scoresby Sund		113.8	50	e 19 16 γ	γ PR ₁	i 27 21	-39	e 52.5	55.9
Chicago	E. -2.2	114.9	357			i 27 16	-53	e 55.3	
Ksara		115.0	45	i 18 24	[-14]			53.1	
Upsala		115.9	304	e 19 44	γ PR ₁	e 26 57	γ E	54.3	
Cincinnati	E. -2.2	116.2	336	e 20 16	γ PR ₁	e 25 22	[-11]	e 58.3	
Toronto	N. -2.2	118.0	47	e 20 1	γ PR ₁	e 29 1	+27		
Lund		120.0	41			e 27 54	-55	50.6	
Entebbe		120.7	334	20 40	γ PR ₁	e 27 9	γ E		
Copenhagen		120.9	267	20 10 γ	γ PR ₁				70.2
Ottawa		121.0	335	18 50	[- 5]	e 25 44	[- 4]	e 54.3	58.6
Budapest	Z. -2.2	121.6	37	i 20 22	γ PR ₁	e 26 16	[+26]	63.3	
Georgetown		122.8	324	e 18 46	[-14]	e 27 30	γ E	e 57.3	
Hamburg		123.5	45	i 17 31	?	29 29	+13	e 59.4	75.5
Vienna		123.5	334	e 18 55	[- 7]			e 59.3	64.3
Dyce		123.9	326	i 18 57	[- 6]	27 29	γ E	e 53.3	66.3
Zagreb		124.8	344	e 20 23	γ PR ₁	e 27 32	γ E	e 56.1	67.0
Edinburgh		125.5	323	e 19 1	[- 6]			e 56.3	73.3
De Bilt		126.3	341	e 21 16 γ	γ PR ₁				
Feldberg	N. -2.2	126.6	335	e 19 1	[- 9]	e 21 24	γ PR ₁	e 57.3	62.0
Uccle		126.6	332	e 21 14	γ PR ₁	e 28 54	-43		66.4
Stonyhurst		127.5	335	e 19 4	[- 9]	e 21 34	γ PR ₁	e 56.3	
Venice		127.8	340			e 47 48	γ SR ₁	e 62.3	
Strasbourg		127.8	325	18 16 γ	[- 57]				
Chur		128.1	331	e 19 2	[- 12]			33.3	
Zurich		128.4	329	e 19 9	[- 6]	22 23	γ PR ₁		
Kew		128.5	329	i 19 7	[- 8]	e 21 50	γ PR ₁		
Oxford	E. -2.2	129.2	338	e 19 8	[- 8]			58.3	62.9
Pompeii	N. -2.2	129.2	340			i 29 14	-41	e 56.3	67.8
Florence		129.2	340			i 29 14	-41	e 60.3	68.3
Neuchatel		129.2	319	e 21 39	γ PR ₁				
Rocca di Papa		129.4	323	i 19 11	[- 6]	21 41	γ PR ₁		
Besancon		129.6	330	i 19 7	[- 10]	e 21 47	γ PR ₁		
La Plaz		129.7	321	19 9	[- 8]	e 29 58			
Paris		129.9	330			e 22 32	γ PR ₁		
Moncalieri		129.9	146	(22 28) γ	γ PR ₁			22.5 γ	
La Paz		130.2	335	e 19 10	[- 8]	i 28 10	γ E	59.3	68.3
Sucre		130.5	326	e 19 48	+19	33 2	?	50.6	69.6
Tortosa	N. -2.2	130.5	326	e 19 16	[- 10]	i 22 50			
Algiers		133.3	120	e 18 58	[- 31]			57.3	67.0
Alicante		134.6	125	e 18 58	[- 11]			e 64.3	75.7
Toledo		137.2	330	e 21 45	γ PR ₁			74.3	101.3
Almeria		137.2	321	e 19 28	[- 9]	32 31			
Granada		138.7	321	e 19 22	[- 17]	e 29 2	γ E		
Malaga		139.6	326	i 19 38	[- 11]	e 30 24	?	e 40.8	69.7
Rio Tinto		140.1	331	e 19 35	[- 9]				73.8
San Fernando		141.7	326	i 19 35	[- 8]	29 58	γ E	61.3	84.8
		142.1	328	i 19 23	[- 22]	30 1	?		
		142.8	328	18 16 γ	[- 89]				90.3
		143.0	333	19 42	[- 5]				42.5

Additional readings and notes: Suva SR₁N = +12m.34s.; T₁N = 18h.30m.36s.; T₁E = 18h.30m.54s. Riverview IZ = +6m.1s., 1EN = +10m.46s. PS = +10m.55s., MN = +18.7m., MZ = +19.3m.; T₁ = 18h.31m.34s. Sydney S is given as L. Adelaide MN = +17.5m. Apta +7m.0s. and +7m.16s. PR₁ = +8m.43s. Manila IPR₁N = +7m.52s. PSN = +9m.51s., ISR₁E = +13m.23s. Wellington ISR₁E = +17m.12s., ISR₁N = +18m.10s.; T₁N = 18h.31m.56s., and T₁E = 18h.31m.16s. Christchurch PR₁ = +9m.57s. Sumoto eS = +10m.52s. = SR₁ + 23s.; true S is given as eSR₁. Misusawa SN = +14m.53s., LN = +18.2m. Batavia IZ = +10m.16s. = PR₁ - 6s., +15m.4s., and +17m.16s.; the true S is given as another IZ. Honolulu T.H. PR₁N = +13m.4s. Berkeley eE = +13m.27s. and +16m.5s., eZ = +16m.20s., eE = +24m.6s., and +39m.6s. Victoria LN = +37.6m.; T₁ = 18h.31m.58s. Tananarive eE = +24m.53s. = 2-37s., and +27m.26s. = PS - 14s. Baku IPR₁ = +18m.41s.; S is given as S₀F₀S.

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Makeyevka $i = +26m.1s. = \Sigma -17s.$, and $+26m.39s.$ Pulkovo $ScPcS = +25m.1s.$
 Helsingfors $e = +24m.40s. = PR_2 -3s.$ St. Louis $i = +29m.9s.$ and $+29m.42s. = PS +3s., e = +30m.45s., eN = +34m.48s., eE = +35m.4s., e = +35m.38s. = SR_2 -8s., eN = +37m.54s.$ and $+38m.38s., eE = +39m.55s., e = +46m.28s., eLN = +53.3m., MN = +55.5m.$ Scoresby Sund $ePR_N = +19m.46s., eScPcSN = +25m.16s., ePSN = +29m.16s., eSR_1E = +35m.34s.$ Chicago $eN = +29m.11s., +35m.23s. = SR_1 +23s., +43m.40s.,$ and $+54m.20s., iE = +29m.17s., eE = +35m.22s.$ Ksara $eE = +25m.20s. = [S] -11s.,$ and $+26m.30s.$ Cincinnati $eN = +20m.31s.$ and $+30m.31s. = PS -8s., e = +39m.51s.$ Toronto $iN = +29m.58s., eN = +37m.8s. = SR_1 +22s., LE = +53.6m.$ Copenhagen $e = +20m.8s., ePR_1 = +20m.34s., eZ = +21m.51s., ScPcPcS = +27m.12s., ePSNZ = +30m.8s., ePSE = +30m.16s., ePPSZ = +31m.16s., eZ = +33m.4s., eSR_1 = +36m.23s., iSR_1N = +36m.48s., eEN = +39m.58s., eE = +42m.16s., MN = +59.2m., eLZ = +62.3m., MZ = +73.5m.$ Ottawa $e? = +30m.1s., i = +36m.56s. = SR_1 -10s., eL = +50.3m., LN = +64.3m.$ Georgetown $iZ = +18m.57s. = [P] -5s., PR_1Z = +20m.38s., SR_1Z = +31m.30s.$ Hamburg $MZ = +73.3m.$ Dyce $e = +30m.59s. = PS -33s.$ Zagreb $eL = +65.3m.$ De Bilt $MN = +61.4m.$ Feldberg $eN = +26m.4s. = [S] +1s., +31m.10s.$ and $+31m.45s. = PS -7s.$ Strasbourg $e = +20m.16s. ?$ Kew $e = +22m.28s., eN = +28m.2s. = \Sigma -7s., eE = +29m.16s., LZ = +64.3m., MN = +68.7m.$ Oxford $iPR_1 = +22m.27s., iN = +22m.51s., iE = +36m.27s., +38m.28s. = SR_1 -12s.,$ and $+43m.8s. = SR_2 -7s.$ Rocca di Papa $PR_1Z = +22m.23s., PR_1E = +22m.32s.$ Paris $PR_1 = +22m.28s.$ La Paz $i = +23m.40s.$ Sucre $i = +22m.52s.$ Algiers $PR_1? = +22m.41s.$ Almeria $PR_1 = +22m.57s., PR_2 = +26m.16s.$ Granada $i = +20m.10s., PR_1 = +21m.36s., PR_2 = +23m.9s.$ San Fernando $MN = +42.9m.$

March 13d. 22h. 40m. 4s. Epicentre $3^\circ 0S. 128^\circ 0E.$ (as on 1922 Sept. 2d.).

A = -0.615, B = +0.787, C = -0.052; D = +0.788, E = +0.616;
 G = +0.032, H = -0.041, K = -0.999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^\circ$	$^\circ$	m. s.	s.	m. s.	s.	m.	m.
Amboina	0.7	167	i 0 57	+46	i 1 33	+73	—	—
Manila	18.9	339	e 4 50	+22	—	—	—	—
Batavia	21.3	260	i 4 47	-10	i 8 48	-2	—	—
Riverview	37.7	146	—	—	e 13 44	+10	e 17.0	19.3
Tashkent	69.2	317	—	—	e 20 20	+4	—	—
Ekaterinburg	80.4	330	i 12 17	-4	e 22 22	-6	35.9	—
Baku	83.0	313	—	—	e 22 56	-1	—	—
Sucre	154.4	150	20 19	[+18]	—	—	—	—
La Paz	154.8	141	20 5	[+3]	—	—	—	—

Additional readings: Tashkent $e = +21m.38s. = [S] +32s.$ Ekaterinburg $e = +12m.58s.$ and $+23m.34s.$

March 13d. Readings also at 0h. (near Tananarive), 4h. (near Toyooka), 5h. (near Sucre and La Paz), 7h. (La Paz), 13h. (Zagreb, Rocca di Papa, near Belgrade, and near Toyooka), 20h. (Stonyhurst).

March 14d. Readings at 1h. (La Paz), 2h. (Tucson), 6h. (Batavia and Ekaterinburg), 7h. (Batavia, Ekaterinburg, Manila, Taihoku, Tashkent (2), and near Mizusawa), 10h. (near Toyooka), 13h. (La Paz), 16h. (Baku, Ekaterinburg, Ksara, Tashkent, and near Mizusawa), 19h. (near Nagasaki and Hukuoka), 21h. (near Tacubaya).

March 15d. Readings at 3h. (La Paz), 5h. (Lick), 15h. (La Paz and Sucre), 17h. (Suva), 19h. (near Wellington).

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March 16d. 5h. 0m. 57s. Epicentre 22°·8S. 170°·5E.

A = -·909, B = +·152, C = -·388; D = +·165, E = +·986;
G = +·382, H = -·064, K = -·922.

Adapted from the position 22°·0S. 170°·0E. of 1925 Feb. 21d.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Suva		8·7	59	i 1 39	-33	i 3 27	-29	—	—
Wellington	E.	18·8	170	i 4 33	+ 6	i 8 15	+17	—	14·0
	N.	18·8	170	i 4 32	+ 5	i 8 18	+20	—	11·0
Apia		19·1	65	4 29	- 1	7 58	- 6	9·6	10·0
Riverview		20·2	230	i 4 44	+ 1	i 8 36	+ 9	e 9·8	11·8
Christchurch		20·8	176	4 56	+ 5	8 8	-32	8·9	—
Melbourne		26·5	230	i 5 45	- 8	i 10 40	+ 8	i 14·4	—
Adelaide		30·3	239	i 6 18	-13	i 11 12	-27	i 13·5	18·6
Amboina		45·2	288	i 8 22	-12	14 56	-22	—	—
Perth		48·9	246	i 8 57	- 2	i 16 7	+ 2	—	—
Honolulu T.H.	E.	53·8	38	e 9 27	- 5	16 43	-23	23·6	27·4
	N.	53·8	38	e 9 30	- 2	17 3	- 3	24·3	29·6
Manila	E.	61·3	305	i 10 24	+ 3	i 18 41	+ 1	i 28·9	34·5
	N.	61·3	305	i 10 25	+ 4	i 18 41	+ 1	i 28·9	37·5
Malabar		62·3	274	9 29	-58	i 18 52	0	25·0	34·0
Batavia		63·4	275	i 10 21	-13	i 18 53	-13	32·4	35·6
Nagoya	E.	66·1	330	i 10 52	0	—	—	—	—
Sumoto		66·4	329	e 10 54	0	e 14 19	?PR ₁	e 23·2	—
Osaka		66·5	329	11 0	5	19 35	- 9	28·7	36·2
Kobe		66·6	329	10 54	- 1	19 40	- 5	28·4	31·2
Taihoku		67·4	313	10 54	- 6	19 55	0	27·4	—
Toyooka		67·5	329	i 11 4	+ 3	i 19 53	- 3	i 27·2	31·2
Nagasaki		67·8	324	11 5	+ 2	19 57	- 3	27·5	—
Mizusawa	E.	67·8	337	11 3	0	19 53	- 7	27·4	—
	N.	67·8	337	11 4	+ 1	19 55	- 5	27·2	—
Hukuoka		68·1	325	11 7	+ 2	20 1	- 2	29·3	44·8
Hong Kong		71·0	306	11 24	+ 1	(20 37)	- 1	20·6	—
Zi-ka-wel		71·6	319	i 11 28	+ 1	20 43	- 2	—	46·4
Otomari		73·9	340	11 25	-16	21 8	- 5	29·3	—
Phu-Lien		76·0	300	i 11 53	- 2	e 21 35	- 2	37·6	47·0
Berkeley	E.	87·5	47	e 12 54	- 8	e 23 20	-27	e 40·8	—
	N.	87·5	47	e 12 54	- 8	e 23 17	-30	e 46·8	—
	Z.	87·5	47	e 12 55	- 7	—	—	e 40·4	—
Sitka	E.	91·8	26	—	—	—	—	e 42·0	47·1
	N.	91·8	26	—	—	—	—	e 42·8	47·7
Calcutta	N.	91·9	294	13 23	- 3	24 48	+14	—	—
Victoria	E.	92·5	37	13 24	- 6	23 58	[+15]	42·9	52·6
	N.	92·5	37	13 24	- 6	23 54	[+11]	42·7	62·7
Tucson	N.	93·1	56	13 28	- 5	23 56	[+ 9]	38·9	45·9
Irkutsk		94·6	325	13 27	-14	24 56	- 6	—	54·4
Chihuahua		95·3	61	14 6	+21	24 48	-21	40·8	46·2
Spokane		95·4	40	e 13 55	+10	e 24 59	-11	e 43·0	44·7
Kodaikanal		96·7	78	13 57	+ 4	—	—	42·4	57·0
Tacubaya		97·7	73	13 34	-24	24 33	[+12]	41·4	53·2
Hyderabad		98·5	285	13 43	-20	24 24	[+ 8]	45·6	65·2
Denver	E.	100·4	51	e 20 15	?	—	—	43·0	47·0
	N.	100·4	51	e 22 35	?PR ₂	—	—	41·0	49·0
Dehra Dun		103·3	298	13 34	-53	24 28	[-11]	35·6	64·3
Bombay		104·0	285	14 12	-18	24 42	[- 1]	45·7	70·6
La Plata		106·3	140	—	—	—	—	45·0	—
Tananarive		110·4	237	—	—	—	—	53·1	61·1
La Paz		110·5	119	e 15 19	+19	i 27 25	- 8	54·4	69·8
St. Louis	N.	111·0	55	—	—	e 25 51	[+37]	45·4	53·2
Sucre		111·3	123	e 15 21	+17	i 27 29	-11	54·0	77·4
Tashkent		113·0	306	i 14 49	-22	i 25 40	[+18]	59·0	68·2
Chicago	E.	113·6	51	—	—	26 36	?Z	51·8	59·2
Cincinnati		115·4	54	—	—	e 25 29	[- 1]	e 56·9	58·0
Cape Town		117·3	205	20 9	?PR ₁	29 57	?PS	—	70·8
Johannesburg		119·0	217	20 45	?PR ₁	—	—	—	—
Toronto	E.	119·8	50	e 20 19	?PR ₁	e 29 42	+54	i 58·6	68·4
	N.	119·8	50	e 20 19	?PR ₁	e 28 23	-25	50·8	68·3
Charlottesville	E.	119·9	56	e 20 58	?PR ₁	i 26 30	[+46]	i 57·6	64·4
	N.	119·9	56	—	—	e 30 51	?PS	51·0	67·4
Georgetown	Z.	121·1	55	i 19 3	[+ 8]	i 27 46	?Z	58·0	66·4
Ithaca		121·8	52	e 15 43	- 8	e 30 3?	+60	52·0	—

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. s.	m. s.	m. s.	m. s.	m. s.
Ottawa	E.	122-5	48	e 15 31	-24	e 30 30	?PS	e 58-0	69-6
	N.	122-5	48	e 21 3	?PR ₁	e 30 30	?PS	e 51-0	68-4
Rio de Janeiro	E.	123-8	140	e 20 49	?PR ₁	32 23	?	55-0	82-2
	N.	123-8	140	e 20 53	?PR ₁	32 31	?	56-0	78-8
Harvard	E.	125-8	51	—	—	—	—	56-8	65-7
	N.	125-8	51	—	—	—	—	49-6	64-8
Baku		127-5	304	i 19 32	[+19]	—	—	—	—
Scoresby Sund		131-8	4	e 19 23	[0]	e 27 39	?PR ₁	61-0	76-4
Kucino		132-2	324	e 19 30	[+ 7]	i 28 36	?Z	67-0	73-4
Entebbe		133-3	246	—	—	22 56	?PR ₁	65-9	72-9
Pulkovo		133-8	333	i 19 23	[- 4]	28 43	?Z	56-0	75-6
Makeyevka		134-8	316	e 19 20	[- 5]	—	—	62-2	82-4
Helsingfors		135-6	335	e 19 42	[+11]	—	—	58-6	—
Yalta		138-3	312	e 54 58	?	—	—	e 73-8	—
Uppsala		138-4	340	e 19 51	[+14]	e 22 21	?PR ₁	e 59-0	83-2
Ksara		138-9	295	19 31	[- 7]	—	—	69-0	—
Bergen		141-0	347	18 44	[-57]	e 33 57	?Z	79-0	89-0
Konigsberg	N.	141-0	332	20 29	[+48]	29 27	?Z	e 59-0	75-2
Lemberg	E.	142-4	323	e 19 51	[+ 7]	e 41 21	?SR ₁	e 69-8	88-0
	N.	142-4	323	e 19 45	[+ 1]	e 41 21	?SR ₁	e 71-2	88-4
Helwan		142-9	290	19 32	[-13]	32 53	?Z	—	—
Lund		143-1	339	19 51	[+ 6]	—	—	—	—
Copenhagen		143-4	339	19 39	[- 7]	e 28 51	?Z	61-0	82-8
Dyce		145-2	353	19 44	[- 4]	29 53	?Z	63-3	84-4
Potsdam		145-8	334	i 19 50	[0]	—	—	e 65-0	83-0
Hamburg		145-9	339	i 19 47	[- 3]	—	—	e 63-0	83-0
Budapest		146-4	324	e 19 53	[+ 3]	e 32 3?	?	42-1	90-6
Edinburgh		146-6	353	e 19 53	[+ 2]	e 31 36	?	56-0	114-8
Belgrade	N.	147-1	319	e 19 47	[- 4]	e 30 2	?	47-4	—
Vienna		147-3	329	e 19 44	[- 8]	e 31 51	?	e 60-0	85-0
Jena		147-5	335	i 19 52	[0]	—	—	e 67-6	79-0
Graz		148-5	328	e 19 51	[- 2]	e 34 37	?	61-6	93-8
Stonyhurst		148-5	350	e 19 59	[+ 5]	—	—	73-0	86-1
De Bilt		148-7	341	19 50	[- 4]	—	—	e 64-0	84-8
Bidston		149-0	352	20 3	[+ 9]	33 38	?	56-0	86-7
Zagreb		149-1	324	e 19 51	[- 3]	—	—	e 64-0	—
Feldberg	E.	149-3	337	20 1	[+ 6]	—	—	e 65-6	80-2
	N.	149-3	337	19 57	[+ 2]	—	—	—	77-0
Laibach		149-7	326	e 19 56	[+ 1]	e 30 31	?Z	68-0	81-4
Uccle		150-0	342	e 19 53	[- 3]	—	—	e 69-0	85-6
Hohenheim		150-1	335	e 20 7	[+11]	30 23	?Z	80-1	86-0
Innsbruck		150-4	331	19 59	[+ 3]	31 33	?	60-0	91-2
Oxford	N.	150-4	350	i 20 1	[+ 5]	—	—	e 63-0	84-4
Kew	Z.	150-5	348	e 19 54	[- 2]	—	—	e 71-8	88-6
Ravensburg		150-7	333	20 18	[+21]	e 30 34	?Z	43-0	85-1
Strasbourg		150-9	336	i 19 53	[- 4]	e 33 43	?	59-0	117-6
Venice		151-3	327	20 3?	[+ 6]	23 3?	—	—	—
Zurich		151-5	334	e 19 56	[- 2]	32 10	?	—	—
Chur		151-6	332	20 5	[+ 7]	—	—	—	—
Paris		152-3	343	e 19 57	[- 2]	e 30 35	?[S]	65-0	85-0
Neuchatel		152-5	335	20 4	[+ 4]	e 30 36	?[S]	—	—
Besançon		152-6	337	e 20 2	[+ 2]	—	—	67-0	—
Florence		153-0	326	19 57	[- 3]	—	—	75-7	90-6
Pompeii		153-0	317	e 20 14	[+14]	e 33 24	?	74-0	90-0
Naples	E.	153-1	318	e 19 15	[-45]	e 30 33	?Z	71-0	86-0
Rocca di Papa		153-5	321	e 19 58	[- 2]	—	—	e 77-7	100-6
Moncalieri		153-8	332	20 3	[+ 2]	33 31	?	50-0	103-4
Grenoble		154-4	335	20 14	[+13]	—	—	e 60-0	—
Puy de Dôme		154-9	339	e 20 17	[+15]	—	—	e 60-0	—
Marselles		156-1	333	20 5	[+ 2]	—	—	e 60-0	—
Bagnères		158-2	340	20 17	[+11]	—	—	e 63-0	88-3
Barcelona		159-0	335	e 20 24	[+17]	i 44 29	?SR ₁	e 50-5	90-5
Tortosa	E.	160-1	337	20 14	[+ 6]	—	—	e 61-2	106-7
	N.	160-1	337	20 9	[+ 1]	35 36	?	61-0	108-2
Algiers		162-3	325	20 12	[+ 3]	35 3	?	65-0	91-0
Toledo		162-4	346	20 7	[- 2]	i 38 16	?	e 49-3	94-0
Alicante		162-7	336	e 20 14	[+ 4]	e 31 38	?Z	e 59-2	91-9
Almeria		164-7	338	20 11	[- 1]	—	—	—	108-6
Granada		164-8	342	20 15	[+ 3]	26 31	[-24]	—	93-1
Rio Tinto		164-9	351	18 3?	?	—	—	—	108-0
Malaga		165-6	344	20 7	[- 5]	35 35	?	45-0	104-7
San Fernando		166-1	349	19 57	[-15]	31 34	?Z	52-0	—

For Notes see next page.

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NOTES TO MARCH 16d. 5h. 0m. 57s.

Additional readings: Apia $PR_1 = +4m.43s.$ Riverview $iP = +4m.54s.$
 and $+5m.13s.$, $iPR_1 = +6m.6s.$, $PS = +8m.55s.$ and $+9m.15s.$, MN =
 $+10.8m.$, MZ = $+14.5m.$; $T_0 = 5h.0m.42s.$ Adelaide MN = $+17.5m.$
 Perth $iPS = +15m.13s.$ Honolulu T.H. $PR_2E = +11m.25s. = PR_1 - 19s.$
 $PR_1N = +13m.13s. = PR_1 - 3s.$, $SR_1N = +19m.33s. = \Sigma + 4s.$, $SR_1E =$
 $+20m.38s.$, $SR_2N = +20m.59s. = SR_1 - 19s.$, $SR_2E = +22m.33s. = SR_2 - 23s.$
 Manila $iPR_1E = +12m.52s.$, $iPR_1N = +13m.6s.$, $iPR_2N = +13m.31s.$,
 $iSR_2N = +24m.52s.$, $iSR_2E = +24m.59s.$ Batavia $i = +10m.23s.$, $iN =$
 $+11m.5s.$ Sumoto $eSR_1 = +17m.27s.$, $eSR_2 = +20m.22s.$ Osaka
 MN = $+35.8m.$ Kobe $PR_1 = +11m.52s.$, $PR_2 = +13m.28s.$, MZ =
 $+35.7m.$, MN = $+36.0m.$ Toyooko MN = $+35.7m.$ Hong Kong
 $S? = +16m.46s. = PR_2 - 10s.$ Phu-Lien MN = $+65.0m.$; epicentre
 $22^\circ.5S. 171^\circ.0E.$ Berkeley $eZ? = +16m.26s.$, $eN? = +17m.12s.$, $eGN =$
 $+36m.42s.$, $eGE = +36m.45s.$; epicentre $23^\circ.0S. 170^\circ.4E.$ Tucson
 $PR_1N = +16m.50s.$ Irkutsk $iScPcS = +23m.56s. = [S] + 1s.$ Spokane
 $e = +17m.33s.$, $ScPcS = +24m.4s. = [S] + 5s.$, $ePS = +25m.59s.$, $eSR_1 =$
 $+31m.18s.$, $e = +35m.3s.$ Hyderabad $PR_1 = +17m.45s.$ Denver
 $e = +23m.57s.$ and $+26m.24s. = S + 24s.$, $eE = +32m.24s.$ Tananarive
 $PR_1 = +19m.15s.$, $PR_2 = +24m.40s.$, $PR_3 = +25m.26s. = [S] + 14s.$, $PS =$
 $+29m.10s.$, $ScS = +29m.46s.$, $PPPS = +30m.14s.$, $SR_1 = +34m.56s.$, $SR_2 =$
 $+40m.1s.$, $LN = +44.3m.$, MN = $+58.2m.$ La Paz $PR_1E = +19m.12s.$,
 $PR_1N = +19m.27s.$, $PR_2N = +22m.15s.$, $ScPcSE = +26m.20s.$, $ScPcSN =$
 $+26m.23s.$, $iSN = +27m.16s. = S - 17s.$, $PSE = +29m.10s.$, $PPSE =$
 $+30m.3s.$, $SR_1E = +34m.27s.$, $SR_2N = +35m.3s.$, $SR_2N = +39m.0s.$, $SR_2E =$
 $+39m.3s.$, $SR_2E = +42m.18s.$, $LN = +57.3m.$ St. Louis $ePR_1N =$
 $+19m.10s.$, $iScPcPcSN = +26m.41s.$, $iPSN = +28m.48s.$, $iN = +32m.1s.$,
 $eSR_1N = +34m.34s.$, $iN = +38m.42s.$ Sucre $PR_1 = +19m.42s.$, $PR_2 =$
 $+23m.0s.$, $PS = +29m.15s.$, $SR_1 = +35m.12s.$, $SR_2 = +39m.12s.$ Tashkent
 $iP = +18m.66s. = [P] + 25s.$ Chicago $PR_1 = +19m.34s.$, $SPSE = +24m.56s.$,
 $PSE = +29m.14s.$, $PPSE = +30m.31s.$, $SR_1E = +35m.24s.$ Cincinnati
 $iPR_1E = +19m.46s.$, $iScPcSE = +25m.12s.$, $ScPcPcSE = +26m.50s.$, $eE =$
 $+27m.50s.$, $ePPSE = +29m.27s.$, $i = +30m.29s.$, $eE = +32m.27s.$, $eSR_1 =$
 $+35m.40s.$, $e = +37m.31s.$, $+38m.12s.$, and $+39m.24s.$, $iSR_2N = +40m.39s.$
 Toronto $iE = +25m.55s. = [S] + 11s.$, $+27m.13s. = \Sigma + 1s.$ and $+37m.25s.$
 Georgetown $PR_2Z = +21m.25s.$, $iZ = +31m.30s. = PS + 35s.$ Ithaca
 $e = +37m.3s. ? = SR_1 - 8s.$ Ottawa $eE = +19m.15s. = [P] + 16s.$, $iE =$
 $+20m.35s. = PR_1 - 6s.$, $+26m.1s.$, $+26m.33s.$, $+37m.59s. = SR_1 + 41s.$, and
 $+45m.33s.$ Harvard $eSR_1EN = +38m.5s.$; $T_0 = 5h.1m.0s.$, epicentre
 $23^\circ S. 171^\circ E.$ Scoresby Sund $ePEN = +19m.27s.$, $ePR_1 = +21m.37s.$,
 $PcPcS = +22m.47s.$, $eScPcSN = +26m.26s.$, $eScPcPcSNZ = +28m.27s.$,
 $eScPcPcSE = +31m.21s.$, $eN = +31m.53s.$, $eScPcSPEZ = +31m.57s.$, $eZ =$
 $+35m.33s.$, $SR_1 = +39m.3s.$, $SR_2 = +43m.57s.$, MN = $+71.2m.$ Pulkovo
 $iP = +16m.42s. = -2s.$ Makeyevka $iPR_1 = +22m.8s.$ Helsingfors
 $iPR_1? = +25m.16s.$ Upsala MN = $+74.4m.$ Ksara $PR_1N = +23m.6s.$,
 $PR_2N = +26m.20s.$, $PR_3N = +29m.6s.$, $PR_4N = +30m.55s.$, $PPSN =$
 $+35m.55s.$, $SR_1N = +42m.3s.$, $SR_2N = +47m.49s.$, $SR_3N = +52m.36s.$,
 $SR_4N = +56m.55s.$; $T_0 = 5h.0m.32s.$ Konigsberg $PcPcSN = +23m.27s.$,
 $PSN = +33m.33s.$, $LZ = +70.0m.$ Copenhagen $iPZ = ePEN = +19m.51s.$,
 $eEN = +21m.27s.$, $ePR_1EZ = +22m.51s.$, $ePcPcSNZ = +23m.56s.$, $eE =$
 $+23m.33s.$, $iEN = +23m.53s.$, $eEN = +25m.51s.$, $ePR_1Z = +26m.7s.$, $eSR_1 =$
 $+29m.45s. = \Sigma + 13s.$, $eN = +30m.41s.$, $eEZ = +31m.27s.$, $eN = +31m.39s.$
 $ScPcSP = +33m.3s.$, $eN = +33m.39s.$, $eE = +34m.33s.$, $eSR_1EN = +41m.15s.$,
 $eE = +42m.54s.$, $eZ = +43m.45s.$, $eE = +45m.3s.$, $eSR_2 = +47m.3s.?$, MN =
 $+83.4m.$ Dyce $PR_1 = +23m.55s.$, $i = +33m.20s.$, $SR_2 = +47m.48s.$
 Potsdam MN = $+78.0m.$ Budapest MN = $+86.6m.$ Belgrade $iN =$
 $+20m.0s.$, $eN = +20m.27s.$, $ePR_1N = +26m.48s.$ Vienna $iPZ =$
 $+19m.50s.$, $iZ = +21m.55s.$ and $+23m.22s. = PR_1 + 2s.$, $P = +23m.34s. =$
 $PR_1 + 14s.$, $PR_2 = +27m.51s.$, $ScPcS = +29m.3s.$, $iE = +38m.34s.$, and
 $+41m.55s. = SR_1 - 24s.$, $PP[P] = +42m.7s. = SR_1 - 12s.$, $SR_2 = +47m.30s.$;
 epicentre $23^\circ S. 171^\circ E.$ Jena $iPZ = +19m.54s. = [P] + 2s.$, $iPE =$
 $+19m.59s. = [P] + 7s.$, $eN = +23m.33s. = PR_1 + 13s.$, $+27m.21s. = PR_3 + 18s.$
 and $+42m.31s. = SR_1 + 9s.$, $eE = +42m.33s. = SR_1 + 11s.$, and $+43m.35s.$,
 $eN = +48m.3s. = SR_2 + 22s.$ MZ = $+84.0m.$ Graz $iP = +20m.9s. =$
 $[P] + 16s.$, $PR_1 = +24m.6s.$, $SR_1 = +42m.33s.$, MN = $+73.3m.$ De Bilt
 $iZ = +19m.56s. = [P] + 3s.$, $e = +34m.4s.$ and $+42m.36s. = SR_1 - 1s.$, MN =
 $+82.3m.$, MZ = $+82.6m.$ Bidston readings are given for 10d. Zagreb
 $iP = +19m.59s. = [P] + 5s.$, $iNW = +20m.59s.$ and $+21m.57s.$, $iNE =$
 $+21m.49s.$, $+22m.28s.$, and $+23m.49s. = PR_1 + 17s.$, and $+26m.44s.$,
 $iNW = +23m.59s. = PR_1 + 27s.$, $+25m.56s.$, $+27m.26s. = PR_1 + 11s.$,
 $+29m.32s.$, and $+32m.16s.$, $eNW = +42m.23s. = SR_1 - 18s.$ Feldberg
 $iPN = +20m.11s.$, $eN = +21m.40s.$, $iN = +22m.56s.$, $eN = +23m.30s.$,
 $+30m.21s.$, $+32m.39s.$, and $+37m.45s.$ Laibach $e = +26m.27s.$,
 $+35m.20s.$, and $+42m.40s. = SR_1 - 8s.$ Uccle MZ = $+85.7m.$, MN =
 $+86.0m.$ Hohenheim $iP = +20m.11s.$, $PR_1 = +23m.39s.$, $PR_2 =$
 $+25m.38s.$, $eLN = +76.0m.$ Innsbruck $i = +20m.14s.$, $iNW = +20m.26s.$

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and +20m.59s., iNE = +20m.47s., i = +21m.7s., iNE = +21m.58s., MNW = +85.6m. Oxford iPE = +20m.5s., PR₁N = +23m.39s., and +24m.44s., PR₁E = +24m.48s., ME = +95.8m. Kew iPZ = +20m.0s., eEN = +20m.3s., iZ = +23m.15s., iPR₁ = +23m.43s., ePR₂Z = +27m.20s., iN = +30m.20s., eN = +33m.51s., iSR₁E = +42m.56s., eN = +45m.3s.?, eSR₂N = +43m.9s., LN = +62.7m., LE = +63.9m., ME = +87.4m., MN = +88.0m. Ravensburg MN = +92.6m. Strasbourg MZ = +109.0m., MN = +113.0m.; epicentre 22°5S. 171°0E. Chur ePR₂? = +45m.50s.; T₀ = 5h.0m.51s. Paris MN = +86.0m. Florence iP = +20m.33s. and +20m.58s. Rocca di Papa P = +20m.8s. Moncalieri MN = +107.6m. Grenoble e = +20m.26s., SR₁ = +43m.33s. Puy de Dôme eSR₁ = +44m.3s.?, Marseilles eP = +20m.7s., eSR₁ = +43m.3s.?, Bagnères eSR₁ = +44m.13s. Barcelona MN = +107.7m. Algiers PR₁ = +24m.54s., MN = +102.0m. Toledo iZ = +24m.34s. = PR₁ - 18s., MNW = +84.2m., MZ = +93.3m.; epicentre 22°5S. 171°0E. Alicante MN = +105.9m. Almeria PR₁ = +25m.4s., PR₂ = +28m.8s., MZ = +106.7m., MN = +107.8m. Granada i = +20m.28s., PR₁ = +21m.45s., i = +22m.17s. and +24m.15s., PR₂ = +25m.32s. = PR₂ + 28s., i = +29m.3s. = PR₂ + 8s., +30m.9s., and +31m.40s. = E + 6s., PS = +34m.3s. Malaga MZ = +92.9m.

March 16d. Readings also at 5h. (Zagreb and near Vienna), 7h. (Apia, Suva, Sucre, and near La Paz), 10h. (Adelaide, Melbourne (2), Riverview (2), Suva, Wellington, near Taihoku, near Almeria, and Granada), 14h. (near Mizusawa), 15h. (Riverview, Wellington, near Manila, and near Tacubaya), 16h. (Tashkent and Ekaterinburg), 17h. (Wellington), 20h. (Ksara, Baku, Ekaterinburg, and Tashkent), 21h. (near St. Louis).

March 17d. 2h. 59m. 6s. Epicentre 22°8S. 170°5E. (as on March 16d.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Suva		8.7	59	i 2 36	+24	14 48	+52	(i 4.8)	8.2
Wellington	E.	18.8	170	i 4 34	+7	18 8	+10	9.8	11.4
	N.	18.8	170	i 4 26	-1	7 54	-4	9.0	12.0
Riverview		20.2	230	e 4 45	+2	e 8 37	+10	e 10.0	12.5
Christchurch		20.8	176	e 8 51	?S	(8 51)	+11	13.0	—
Melbourne		26.5	230	5 49	-4	10 49	+17	14.2	15.4
Adelaide		30.3	239	—	—	i 10 43	-56	e 13.8	23.1
Tashkent		113.0	306	—	—	e 22 24	?PR ₂	e 59.9	75.1
Ekaterinburg		119.7	323	e 19 11	[+20]	23 14	-33	49.9	—
Georgetown	Z.	121.1	55	—	—	—	—	e 65.6	—
Ottawa	E.	122.5	48	—	—	—	—	e 58.9	—
Kucino		132.2	324	—	—	—	—	e 69.6	—
Vienna	Z.	147.3	329	e 19 45	[-7]	—	—	—	—
De Bilt		148.7	341	e 19 58	[+4]	—	—	e 82.9	—

Additional readings: Suva MN = +5.9m.; T₀ = 2h.58m.54s. Riverview
 eS = +8m.45s., MN = +12.0m. Adelaide MN = +17.6m. Georgetown
 eZ = +53m.32s. Ottawa eLN = +53.9m.

March 17d. 14h. 21m. 54s. Epicentre 43°7S. 41°0E. (as on 1927 Oct. 16d.).

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.
Capetown	20.0	292	i 5 1	+20	—	—	8.9	9.1
Johannesburg	20.4	325	4 54	+8	—	—	—	—
Tananarive	25.4	15	i 5 35	-7	19 59	-12	i 12.2	13.7
Entebbe	44.4	348	7 59?	-30	—	—	—	—
Colombo	61.6	45	10 26	+3	18 41	-2	25.2	29.2
Kodakkanal	63.4	41	25 6	?	—	—	—	—
Ksara	77.7	356	e 9 11	?	e 21 54	-3	—	—
Baku	84.5	7	12 52	+7	i 23 13	-1	41.1	50.0
Tashkent	88.7	20	e 13 5	-4	i 23 41	-19	e 39.1	46.6
Almeria	89.6	326	—	—	—	—	47.0	49.0
Granada	90.4	326	—	—	—	—	47.8	49.6

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
San Fernando	90.8	324	—	—	47 35	?L	53.3	56.8
La Paz	91.8	244	e 13 40	+14	—	—	—	—
Makeyevka	91.8	358	—	—	—	—	56.3	59.7
Zagreb	92.2	344	—	—	e 23 6?	[-35]	—	—
Río Tinto	92.2	325	47 6?	?L	—	—	(47.1)	56.1
Strasbourg	96.8	340	—	—	—	—	e 47.1	—
Paris	98.4	335	—	—	—	—	e 55.1	—
Kucino	99.5	358	—	—	—	—	e 52.1	—
Uccle	99.7	338	—	—	—	—	e 48.1	—
De Bilt	100.6	339	—	—	e 27 6?	?PS	e 49.1	52.0
Kew	101.6	335	—	—	—	—	e 58.1	—
Ekaterinburg	101.9	10	14 9	-11	24 49	[+16]	45.1	57.6
Copenhagen	102.3	345	—	—	33 0	?SR ₁	57.1	—
Pulkovo	103.8	355	—	—	e 25 0	[+18]	53.1	—
Irkutsk	110.3	36	e 19 22	?PR ₁	e 28 52	?PS	e 58.1	—
Ottawa	138.0	295	—	—	—	—	e 65.1	—
Victoria	E. 168.2	298	—	—	—	—	91.6	96.8

Additional readings: Tananarive PR₁ = +5m.58s., MN = +14.3m. Granada e = +44m.6s. ? San Fernando MN = +55.9m. De Bilt MZ = +61.2m. Ekaterinburg eSR₁ = +32m.11s. Pulkovo e = +33m.26s. = SR₁ + 0s.

March 17d. 19h. 40m. 54s. Epicentre 41°.5N. 20°.0E. (as on 1927 August 7d.).

A = +.704, B = +.256, C = +.663; D = +.342, E = -.940;
G = +.623, H = +.227, K = -.749.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sarajevo	2.6	334	—	—	—	—	i 2.2	2.9
Pompefi	4.2	262	e 1 9	+ 4	e 1 29	-26	—	—
Zagreb	5.2	328	e 1 24	+ 4	i 2 43	?L	(i 2.7)	2.9
	N.E.	—	e 1 19	- 1	i 2 44	?L	(i 2.7)	3.4
	N.W.	—	e 1 30	+ 5	e 2 27	- 4	e 3.6	4.2
Rocca di Papa	5.5	275	—	—	—	—	i 3.5	—
Leibach	6.0	321	e 1 32	0	—	—	(3.2)	—
Budapest	6.0	354	1 33	+ 1	3 15	?L	—	—
Florence	6.8	293	e 2 56	?S	(e 2 56)	- 9	—	5.1
Venice	6.8	308	1 6?	-38	—	—	—	—
Vienna	7.2	340	1 49	0	3 26	+11	i 4.1	5.0
Innsbruck	8.4	316	2 6?	- 1	(3 36)	-11	3.6	—
Chur	9.2	309	e 2 16	- 3	i 3 59	- 9	—	—
Moncalieri	9.6	295	e 2 27	+ 3	3 29	-49	4.8	—
Ravensburg	9.7	314	—	—	i 4 21	0	i 5.0	5.7
Zurich	10.0	310	e 2 27	- 3	e 4 3	-26	—	—
Neuchatel	10.8	305	e 2 43	+ 2	—	—	—	—
Jena	11.0	331	—	—	—	—	e 6.0	7.1
Strasbourg	11.2	314	—	—	e 4 53	- 6	e 6.1	—
Uccle	14.2	316	—	—	—	—	7.1	—
De Bilt	14.6	321	—	—	—	—	e 8.1	9.7
Copenhagen	15.0	343	—	—	—	—	8.7	—
Kew	17.0	313	—	—	—	—	e 9.6	—
Kucino	18.4	33	—	—	—	—	e 9.4	—
Ekaterinburg	30.1	46	e 6 11	-18	—	—	e 15.5	—
Tashkent	36.5	74	—	—	—	—	23.5	27.4

Additional readings: Sarajevo i = +2m.47s. Zagreb eNE = +1m.36s., +1m.53s., and +2m.54s. eNW = +1m.38s. and +2m.23s. Rocca di Papa eSZ = +2m.40s. Vienna iZ = +2m.0s., PR₁ = +2m.23s., iE = +2m.27s., iZ = +2m.37s., iN = +3m.2s., PS = +3m.7s., iN = +3m.34s., PS = +3m.51s. Ravensburg iN = +3m.17s., iE = +4m.44s., MN = +5.3m. Jena eE = +6m.6s. Copenhagen eEN = +10m.36s. Kew eE = +10m.0s., eZ = +11m.12s.

March 17d. Readings also at 0h. (Riverview, Melbourne, Wellington, Suva, Tashkent, and Ekaterinburg), 1h. (Ottawa), 3h. (Pompefi), 6h. (Tashkent and near Irkutsk), 7h. and 8h. (Florence), 9h. (Ekaterinburg, Tashkent, and near Manila), 10h. (Mizusawa), 11h. (Tortosa), 16h. (Baku, Ekaterinburg, Tashkent, and Tortosa), 20h. (Zurich, Neuchatel, Chur, Zagreb, and near Nagasaki), 21h. (Ekaterinburg and Tashkent), 22h. (Tashkent),

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March 18d. 1h. 33m. 40s. Epicentre 39°·5N. 79°·0E. (as on 1927 April 30d.).

A = +·147, B = +·757, C = +·636 ; D = +·982, E = -·191 ;
G = +·121, H = +·624, K = -·772.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	7·6	287	1 56	+ 1	i 3 41	+15	—	3·9
Ekaterinburg	21·0	332	4 53	0	8 43	- 1	i 10·7	12·8
Bombay	21·3	196	4 34	-23	9 17	+27	12·9	14·4
Baku	22·2	282	—	—	9 22	+13	12·7	14·6
Kucino	31·4	315	—	—	—	—	e 16·0	—
Pulkovo	36·3	321	i 7 12	-12	—	—	19·3	—
Copenhagen	45·7	315	—	—	—	—	—	27·3
Hamburg	47·5	311	—	—	—	—	e 28·3	—
De Bilt	N. 50·7	310	—	—	—	—	e 27·3	—

Additional readings: Baku e = +11m.51s. Kucino eL = +18·3m. De Bilt eLE = +29·3m.

March 18d. 3h. 2m. 15s. Epicentre 22°·8S. 170°·5E. (as on 17d.).

A = -·909, B = +·152, C = -·388 ; D = +·165, E = +·986 ;
G = +·382, H = -·064, K = -·922.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	N. 8·7	59	2 33	+21	i 4 51	?L	(i 4·8)	5·8
Wellington	E. 18·8	170	4 31	+ 4	17 58	0	9·3	11·0
	N. 18·8	170	i 4 26	- 1	i 8 20	+22	9·2	11·9
Apia	N. 19·1	65	e 4 34	+ 4	e 7 52	-12	9·6	14·4
Riverview	20·2	230	i 4 38	- 5	i 8 32	+ 5	i 9·9	11·2
Christchurch	20·8	176	—	—	8 46	+ 6	11·3	—
Melbourne	26·5	230	i 5 35	-18	i 10 25	- 7	13·4	15·6
Adelaide	N. 30·3	239	—	—	—	—	—	14·8
Honolulu T.H.	53·8	38	—	—	—	—	e 22·8	—
Manila	61·3	305	e 10 45	+24	—	—	—	—
Batavia	63·4	275	i 10 13	-21	i 18 46	-20	34·2	—
Berkeley	N. 87·5	47	e 14 40	?	—	—	c 43·2	—
Victoria	92·5	37	23 43	?[S]	(23 43)	[0]	43·1	51·9
Colombo	93·3	275	9 14	?	25 34	?PS	47·2	57·6
Bombay	104·0	285	—	—	e 27 45?	?PS	—	—
Tananarive	110·4	237	—	—	—	—	55·8	—
St. Louis	111·0	55	—	—	—	—	45·8	54·7
Tashkent	113·0	306	e 19 4	?PR ₁	e 30 11	?PS	e 51·8	80·0
Chicago	E. 113·6	51	—	—	—	—	e 53·8	58·6
Ekaterinburg	E. 119·7	323	—	—	—	—	83·8	—
Toronto	E. 119·8	50	—	—	—	—	60·0	—
Georgetown	Z. 121·1	55	e 22 49	?	e 25 53	[+ 5]	e 59·9	64·9
Ottawa	E. 122·5	48	—	—	e 25 51	[- 1]	e 57·8	87·8
Baku	E. 127·5	304	—	—	e 30 16	+32	63·2	83·4
Kucino	132·2	324	—	—	—	—	71·8	—
Entebbe	133·3	246	—	—	—	—	67·6	—
Pulkovo	133·8	333	i 22 32	?PR ₁	—	—	64·8	—
Makeyevka	134·8	316	—	—	—	—	82·0	—
Copenhagen	143·4	339	—	—	—	—	70·8	—
Hamburg	Z. 145·9	339	e 19 37	[-13]	—	—	—	—
Vienna	Z. 147·3	329	e 19 42	[-10]	—	—	—	—
De Bilt	148·7	341	e 19 46	- 8	—	—	e 69·8	84·3
Zagreb	149·1	324	e 19 55	+ 1	—	—	—	—
Uccle	150·0	342	e 19 51	[- 5]	—	—	e 78·8	—
Innsbruck	150·4	331	e 19 45?	[-11]	—	—	—	—
Kew	150·5	348	e 19 47	[- 9]	—	—	71·8	—
Strasbourg	150·9	336	e 19 45?	[-12]	—	—	82·8	—
Zurich	151·5	334	e 19 56	[- 2]	—	—	—	—
Chur	151·6	332	e 19 57	[- 1]	—	—	—	—
Paris	152·3	343	e 19 58	[- 1]	—	—	80·8	—
Neuchatel	152·5	335	e 20 0	0	e 20 52	?	—	—
Moncalieri	153·8	332	e 19 59	[- 2]	32 14	?	43·4	105·8
Granada	164·8	342	—	—	—	—	88·8	91·2
Rio Tinto	164·9	351	22 45?	?	—	—	—	50·8
San Fernando	166·1	349	—	—	90 29	?L	94·0	97·6

For Notes see next page.

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NOTES TO MARCH 18d. 3h. 2m. 15s.

Additional readings: Suva iSE = +5m.9s. ?LE. Apia P and S are given as e simply. Riverview iPE = +4m.44s., iLN? = +8.9m., MN = +11.6m.; T₀ = 3h.1m.46s.; epicentre 22°S. 173°E. Christchurch PR₂ = +5m.10s. Batavia iE = +10m.15s., +18m.51s., and +19m.54s., the P and S entered are given as iZ and iN respectively. Berkeley eZ = +14m.41s. and +74m.3s. St. Louis MN = +63.4m. Georgetown eZ = +35m.51s. and +45m.38s. Ottawa eE = +30m.21s. and +37m.45s. ? = SR₁ + 27s., eLN = +51.8m. Baku e = +38m.30s. = SR₁ + 10s. Vienna iPZ = +19m.43s. De Bilt MN = +82.1m. San Fernando MN = +96.2m.

March 18d. 11h. 59m. 18s. Epicentre 22°-8S. 170°-5E. (as at 3h.).

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		m.	s.	m.	s.	m.	s.	m.	m.
Suva	E.	8.7	59	i 2 30	+18	i 4 30	?L	5.6	13.0
Wellington	E.	18.8	170	i 4 24	3	7 58	0	10.3	17.5
	N.	18.8	170	i 4 17	-10	7 58	0	9.7	12.9
Apia		19.1	65	—	—	—	—	e 10.2	18.7
Riverview		20.2	230	i 4 42	-1	i 8 40	+13	e 9.8	17.1
Christchurch		20.8	176	—	—	—	—	—	14.4
Melbourne		26.5	230	i 5 42	-11	10 37	+5	13.4	20.2
Adelaide	N.	30.3	239	—	—	(11 42?)	+3	—	11.7
Perth		48.9	246	e 22 42	?L	—	—	e 26.5	—
Honolulu T.H.	N.	53.8	38	—	—	—	—	e 25.4	—
Manila		61.3	305	e 15 50	?	—	—	—	—
Batavia		63.4	275	i 10 14	-20	i 18 58	-8	i 24.2	—
Zi-ka-wei		71.6	319	e 11 24	-3	e 22 9	?E	—	43.0
Victoria	E.	92.5	37	23 40	?[S]	(23 40)	[-3]	43.3	50.8
Colombo		93.3	275	9 49	?	—	—	—	57.8
Irkutsk		94.6	325	—	—	—	—	51.7	—
Bombay		104.0	285	23 41	?[S]	(23 41)	[-62]	52.4	70.7
Tananarive		110.4	237	—	—	—	—	57.7	—
St. Louis		111.0	55	—	—	—	—	e 54.7	57.6
Tashkent		113.0	306	—	—	—	—	e 60.7	76.2
Ekaterinburg		119.7	323	—	—	—	—	50.7	—
Georgetown Z.		121.1	55	—	—	e 25 45	[+1]	e 61.8	70.3
Ottawa		122.5	48	—	—	e 31 42?	?PS	e 59.7	67.7
Baku		127.5	304	—	—	—	—	e 77.0	115.3
Kucino		132.2	324	—	—	—	—	e 72.2	—
Copenhagen		143.4	339	—	—	—	—	72.7	—
Hamburg	Z.	145.9	339	e 19 44	[-6]	e 25 4	?	—	—
De Bilt		148.7	341	i 19 55	[+1]	—	—	e 73.7	85.4
Zagreb		149.1	324	e 19 58	[+4]	e 25 24	?	—	—
Uccle		150.0	342	e 19 55	[-1]	—	—	e 79.7	—
Kew	Z.	150.5	348	e 19 46	[-10]	—	—	84.7	—
Strasbourg		150.9	336	e 18 42?	[-75]	—	—	51.7	—
Tortosa	N.	160.1	337	—	—	—	—	e 81.7	105.3
Algiers		162.3	325	—	—	—	—	e 98.7	104.7
Granada		164.8	342	—	—	—	—	e 88.7	85.2
Rio Tinto		164.9	351	84 42?	?L	—	—	(84.7)	102.7
San Fernando		166.1	349	—	—	—	—	93.6	97.9

Additional readings and note: Apia e = +10m.30s., L = +15.1m., MN = +19.7m. Riverview iPE = +4m.46s., iSN = +8m.57s., MN = +17.2m. Honolulu T.H. eE = +25m.42s. Batavia iE = +14m.14s. = PR₂ - 29s., iN = +18m.48s. Bombay eS = +33m.31s. = SR₁ + 3s. Tananarive L = +64.7m. Ottawa eLN = +52.7m. De Bilt MN = +82.4m. Rio Tinto readings have been increased by 1h. San Fernando MN = +96.5m.

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March 18d. 20h. 54m. 12s. Epicentre 17°-5S. 168°-8E. (as on 1923 Dec. 2d.).

A = - .935, B = + .185, C = - .301 ; D = + .194, E = + .981 ;
G = + .295, H = - .058, K = - .954.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Suva	E.	9-1	95	—	—	—	—	15.4	—
Riverview		22-7	221	e 5 14	+ 1	e 9 16	- 3	e 11.1	12.8
Wellington	E.	24-3	169	5 48	+17	8 38	-72	10.0	—
	N.	24-3	169	1 5 5	-26	(9 13)	-37	9.2	—
Melbourne		29-1	221	—	—	1 11 8	-11	15.4	16.0
Adelaide		32-0	231	—	—	—	—	—	3.8
Victoria	E.	89-3	38	—	—	—	—	51.2	68.9
Ekaterinburg		114-5	325	—	—	—	—	65.8	—
Ottawa	N.	120-1	47	—	—	—	—	e 61.8	—
Baku		123-1	307	—	—	—	—	e 78.8	—
San Fernando	E.	160-5	348	—	—	—	—	—	97.2

Additional readings: Riverview MN = +16.5m. San Fernando MN = +95.9m.

March 18d. 23h. 49m. 36s. Epicentre 45°-4N. 17°-2E. (given by Strasbourg).

A = + .671, B = + .208, C = + .712 ; D = + .296, E = - .955 ;
G = + .680, H = + .211, K = - .702.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Zagreb		1-0	296	i 0 15	0	i 0 26	- 2	—	0.6
Laibach		2-0	289	e 0 30	- 1	e 0 42	-13	—	—
Graz		2-1	324	i 0 32	- 1	i 0 59	+ 1	—	1.2
Mostar		2-1	163	0 34	+ 1	2 18	?	—	2.3
Budapest		2-4	32	0 49	+12	—	—	1.4	2.4
Belgrade	N.	2-5	104	e 0 36	- 3	i 1 6	- 3	—	1.5
Vienna		2-9	349	0 45	0	1 30	+10	—	2.0
Venice		3-4	272	1 1	+ 8	1 50	+16	(1.8)	2.4
Innsbruck	N.W.	4-5	297	—	—	e 2 54	+50	14.2	—
Florence		4-6	251	e 1 26	+15	—	—	—	2.7
Rocca di Papa		4-9	223	e 1 26	+10	e 2 39	+25	—	2.9
Naples	E.	5-0	207	e 2 24	?S	(e 2 24)	+ 7	—	—
Pompeii		5-0	204	e 2 22	?S	(e 2 22)	+ 5	(e 3.0)	—
Chur		5-5	288	e 1 21	- 4	e 2 52	+21	(e 2.9)	—
Ravensburg	N.	5-8	297	e 1 54	+24	i 2 30	- 9	i 2.9	4.0
Zurich		6-3	291	i 1 31	- 5	i 2 45	- 7	—	—
Hohenheim		6-4	305	e 2 3	+25	—	—	e 3.6	—
Jena	E.	6-6	327	e 1 44	+ 3	e 2 55	- 5.	i 3.2	3.6
Moncalieri		6-7	270	e 2 13	+31	4 35	?	5.8	—
Neuchatel		7-2	286	i 1 44	- 5	i 4 6	?L	(14.1)	—
Strasbourg		7-2	300	e 2 13	+24	e 4 3	+48	(e 4.0)	—
Besançon		8-0	287	e 2 32	+31	e 4 30	+53	(e 4.5)	—
Hamburg	E.	9-5	333	—	—	—	—	e 5.3	—
Uccle		10-2	306	e 5 18	?L	—	—	(e 5.3)	—
De Bilt		10-4	314	—	—	—	—	5.5	6.1
Paris		10-6	294	—	—	—	—	e 5.9	6.4
Kew	N.	13-1	304	—	—	—	—	e 7.2	—

Additional readings: Zagreb i = +16s. +17s., +21s., and +23s., MNW = +0.8m. Laibach S is given simply as e. Mostar e = +48s. Belgrade iN = +49s. Vienna iZ = +47s., P = +55s., PR = +57s., iN = +59s., iZ = +1m.0s., iE = +1m.4s., iN = +1m.8s., iZ = +1m.10s., iE = +1m.14s. P.S = +1m.20s. and +1m.24s., S = +1m.44s., MNZ = +1.8m. Innsbruck iPR,NW = +3m.19s. Rocca di Papa ePZ = +1m.35s., ePE = +1m.50s., iSZ = +2m.49s. Pompeii gives S and L as P and S respectively. Ravensburg iN = +2m.12s., i = +3m.7s. Hohenheim e = +3m.59s. Jena eN = +2m.54s. Kew eZ = +7m.35s.

March 18d. Readings also at 11h. (near Toyooka), 15h. (Georgetown, Ottawa, and Toronto), 16h. (Ksara), 20h. (Georgetown and Zi-ka-wei).

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March 19d. 10h. 1m. 54s. Epicentre 14°·5N, 53°·0E. (deduced by comparison with the epicentre 14°·5N, 52°·0E. of 1924, April 20d.).

A = +·583, B = +·773, C = +·250 ; D = +·799, E = -·602 ;
G = +·151, H = +·200, K = -·968.

	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
			m.	s.	s.	s.	m.	s.	m.	s.		
Bombay	19·5	°									10·2	14·5
Kodalkanal	24·3	74	4	40	+ 5		8	10	- 3		12·5	14·3
Ksara	24·8	324	9	54	?S		(9	54)	+ 4		(13·9)	—
Helwan	25·2	311	e 5	44	+ 4		e 10	26	+19		—	16·0
Baku	26·0	355	i 5	50	+ 2		i 10	26	+ 4		14·2	20·9
Colombo	27·4	103	5	56	- 6		—	—	—		—	14·7
Tashkent	30·3	25	6	23	- 8		i 11	23	-16		e 13·1	21·9
Tananarive	33·8	190	—	—	—		e 12	22	-16		17·1	—
Makeyevka	35·8	344	—	—	—		—	—	—		15·4	23·4
Ekaterinburg	42·8	6	8	10	- 7		14	33	-12		19·1	—
Kucino	42·9	350	—	—	—		e 14	42	- 5		22·4	—
Zagreb	44·1	323	e 8	22	- 5		—	—	—		—	—
Rocca di Papa	44·2	318	—	—	—		e 14	26	-39		e 28·8	31·6
Moncalieri	48·8	320	8	15	-44		16	11	+ 7		25·6	—
Zurich	49·3	321	e 9	6	+ 4		—	—	—		—	—
Algiers	49·7	306	e 9	14	+ 9		16	28	+13		26·1	29·1
Strasbourg	50·4	323	e 9	11	+ 2		e 16	30	+ 6		e 22·1	—
Copenhagen	51·6	334	—	—	—		—	—	—		19·1	—
Tortosa	52·4	313	—	—	—		—	—	—		e 27·1	30·3
Uccle	53·3	325	—	—	—		—	—	—		e 26·1	—
De Bilt	53·4	327	—	—	—		e 17	22	+21		e 25·1	32·6
Paris	53·6	321	—	—	—		—	—	—		e 29·1	—
Granada	54·8	307	—	—	—		—	—	—		31·6	33·4
Irkutsk	55·4	36	—	—	—		(e 17	30)	+ 4		e 17·5	—
San Fernando	56·8	305	—	—	—		—	—	—		—	33·7
Rio Tinto	57·3	307	28	6?	?L		—	—	—		(28·1)	37·1

Additional readings: Ksara PR₂E = +10m.20s. = S + 21s. Zagreb iNW = +8m.31s. De Bilt MN = +33·2m.; epicentre 14°·9N, 55°·0E. San Fernando MN = +33·5m.

March 19d. Readings also at 1h., 2h., and 4h. (Zagreb), 6h. (near Toyooka), 8h. (Batavia), 16h. (near Reykjavik), 17h. (Zagreb, near Algiers, and near Reykjavik), 20h. (Ekaterinburg, Irkutsk, Tashkent, Melbourne, River-view, and La Paz), 21h. (near Mizusawa), 23h. (Wellington).

March 20d. 2h. 23m. 28s. Epicentre 36°·8N, 102°·8E. (as on 1927 May 23d.).

A = -·177, B = +·781, C = +·599 ; D = +·975, E = +·222 ;
G = -·133, H = +·582, K = -·801.

The height of focus 0·005 used previously with this epicentre has been retained.

	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
				m.	s.	s.	s.	m.	s.	m.	s.		
Irkutsk	+0·1	15·5	°	3	e 3	47	0	6	49	+ 3	7·8	9·2	
Phu-Lien	+0·1	16·3	167	e 4	12	+15	—	—	—	—	—	—	
Tashkent	+0·2	26·2	290	e 5	51	- 1	e 10	31	+ 1		e 14·5	15·3	
Ekaterinburg	+0·4	34·3	320	i 6	59	-12	—	—	—		16·5	—	
Baku	+0·4	40·9	293	—	—	—	—	—	—		e 21·8	—	
Kucino	+0·5	46·6	316	—	—	—	—	—	—		e 24·8	—	
Copenhagen	+0·6	60·5	320	—	—	—	—	—	—		31·5	—	

Tashkent gives i = +5m.55s. ; P and S are given without phase.

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March 20d. 20h. 47m. 0s. Epicentre 40°-0N. 137°-0E. (Adopted after comparison with the epicentres 40°-0N. 136°-5E. of 1921 Aug. 31d., and 40°-0N. 138°-0E. of 1927 Jan. 7d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	3·3	105	0 54	+ 2	1 30	- 1	—	—
Toyooka	4·8	201	e 2 10	?S	(e 2 10)	- 1	—	—
Osaka	5·5	193	0 40	-45	—	—	3·1	5·7
Irkutsk	25·5	308	e 5 47	+ 4	e 10 5	- 8	e 12·0	—
Tashkent	50·0	295	—	—	—	—	e 30·0	33·3
Ekaterinburg	50·4	316	i 9 10	+ 1	e 16 30	+ 6	25·0	29·2
Makeyevka	66·5	314	—	—	—	—	e 38·0	—

Osaka gives also MN = +5·3m.

March 20d. 21h. 1m. 35s. Epicentre 34°-0S. 57°-0E. (as on 1928 Jan. 30d.).

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	i 4 14	+ 5	—	—	i 7·8	8·1
Johannesburg	26·1	280	—	—	10 25?	+ 1	—	—
Cape Town	31·7	262	—	—	—	—	e 17·0	20·6
Entebbe	41·1	321	8 18?	+14	—	—	—	23·3
Bombay	55·0	19	—	—	e 17 25?	+ 4	—	—
Tashkent	76·1	10	i 11 53	- 3	i 21 34	- 4	—	39·3
Makeyevka	83·8	349	—	—	—	—	e 41·4	—
Almeria	89·8	318	—	—	—	—	e 53·3	55·4
Vienna	z. 89·8	335	e 13 3	-12	—	—	—	—
Granada	90·8	317	—	—	—	—	e 53·4	55·0
Ekaterinburg	90·9	3	e 13 7	-14	—	—	36·4	—
San Fernando	E. 91·8	315	—	—	—	—	—	59·1
Irkutsk	95·6	27	—	—	e 26 2	?PS	43·4	—
De Bilt	97·3	332	—	—	—	—	e 55·4	—
Ottawa	142·5	302	—	—	—	—	e 77·4	—

Additional readings: Tananarive PR₁ = +4m.19s., PR₂ = +4m.21s. San Fernando, MN = +57·6m.

March 20d. Readings also at 1h. and 2h. (near Zagreb), 5h. (Baku, Tashkent, and La Paz), 9h. (Santiago), 10h. (La Plata), 12h. (Apia), 16h. (Mizusawa), 18h. (near Manila), 23h. (near Taihoku).

March 21d. 3h. 53m. 24s. Epicentre 36°-8N. 102°-8E. (as on 1927 May 23d.)
The height of focus 0·005 previously assumed with this origin is retained here.

A = -·177, B = +·781, C = +·599 ; D = +·975, E = +·222 ;
G = -·133, H = +·582, K = -·801.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Irkutsk	+0·1	15·5	3	3 50	+ 3	6 55	+ 9	8·0	9·4
Phu-Lien	+0·1	16·3	167	—	—	—	—	e 7·7	—
Tashkent	+0·3	26·2	290	i 5 55	+ 2	e 10 39	+ 7	i 14·4	17·2
Bombay	+0·4	31·7	244	e 11 55	?S	(e 11 55)	-15	18·3	18·9
Ekaterinburg	+0·4	34·3	320	i 7 5	- 6	—	—	16·6	—

Additional readings: Phu-Lien L = +9·7m. Tashkent i = +6m.11s.
Bombay S = +18m.20s.

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ALTERNATIVE SOLUTION.

March 21d. 3h. 53m. 18s. Epicentre 36°0N. 103°0E. (Adopted from the epicentre 35°5N. 104°0E. of 1924 April 21d.).

A = -182, B = +788, C = +588 ; D = +974, E = +225 ;
G = -132, H = +573, K = -809.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	15.6	168	—	—	—	—	e 7.8	—
Irkutsk	16.3	3	3 56	0	7 1	- 1	8.1	9.5
Tashkent	26.7	292	i 6 1	+ 6	e 10 45	+10	i 14.5	17.3
Bombay	31.6	245	e 12 1	?S	(e 12 1)	0	18.4	19.0
Ekaterinburg	35.0	320	i 7 11	- 2	—	—	16.7	—

Additional readings : Phu-Lien L = +9.7m. Tashkent i = +6m.17s. =
PR₁ - 18s. Bombay S = +16m.26s.

March 21d. Readings also at 0h. (Irkutsk, Phu-Lien, and Tashkent), 2h. (Tashkent), 3h. (Suva), 5h. (Almeria, near Granada, and near Chur), 8h. (near Sumoto and near Toyooka), 9h. and 10h. (Taihoku), 11h. (Apia), 12h. (Vienna), 14h. (Taihoku), 15h. (near Zagreb), 16h. (near Zurich and Neuchatel), 21h. (near Sumoto (2)).

March 22d. 4h. 16m. 50s. Epicentre 16°0N. 96°0W.

(as on 1928 Jan. 25d.).

A = -100, B = -956, C = +276 ; D = -995, E = +105 ;
G = -029, H = -274, K = -961.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.	s.	m. s.	s.	m.	m.
Oaxaca	1.2	324	0 16	- 2	(0 29)	- 4	0.5	—
Vera Cruz	3.2	358	(1 15)	+25	—	—	(1.9)	(3.6)
Puebla	3.7	327	(0 54)	- 4	(1 44)	+ 2	(1.7)	—
Tacubaya	4.6	318	1 33	+22	(2 9)	+ 3	2.2	2.4
Gudalajara	8.5	304	(2 10)	+ 1	(3 42)	- 8	(3.8)	(4.2)
Manzanillo	8.5	292	2 0	- 9	3 39	-11	3.9	4.4
Mazatlan	12.2	308	(3 15)	+13	(5 25)	+ 1	(5.7)	(6.9)
Chihuahua	15.7	325	(3 37)	-11	(6 37)	-11	(7.1)	(8.4)
Balboa Hts.	N. 17.5	112	4 28	+17	8 10?	+41	10.4	11.2
Tucson	N. 21.0	323	i 5 1	+ 8	(i 9 5)	+21	i 9.1	—
Port au Prince	22.7	80	e 5 18	+ 5	i 8 54	-25	11.8	17.9
St. Louis	23.2	12	i 5 18	- 1	i 9 32	+ 3	12.1	15.3
Denver	E. 24.9	344	e 6 11	+34	i 10 47	+46	12.7	14.2
	N. 24.9	344	i 6 9	+32	i 10 49	+48	12.7	14.2
Cincinnati	25.2	21	e 5 38	- 2	i 10 3	- 4	11.7	13.8
Chicago	E. 26.7	14	i 5 54	- 1	i 10 27	- 8	—	—
Charlottesville	26.8	32	i 5 47	- 9	10 34	- 3	14.1	—
Georgetown	28.2	33	i 6 8	- 2	10 55	- 8	e 12.4	17.4
	28.2	33	i 6 13	+ 3	i 10 59	- 4	e 12.8	17.4
San Juan	E. 28.6	81	7 16	+62	10 38	-32	12.7	19.7
	N. 28.6	81	7 18	+64	10 24	-46	12.2	19.6
Toronto	E. 31.0	24	i 6 24	-14	i 11 41	-10	i 13.7	21.5
	N. 31.0	24	i 6 24	-14	i 11 42	- 9	i 12.2	21.6
Lick	Z. 31.1	318	e 6 34	- 5	e 12 28	+35	e 15.8	—
Berkeley	E. 31.8	318	e 6 37	- 8	e 11 55	-10	i 16.0	—
	N. 31.8	318	e 6 37	- 8	i 11 56	- 9	i 16.0	—
	Z. 31.8	318	e 6 38	- 7	e 12 27	+22	e 16.0	—
Ottawa	33.9	26	i 6 54	-10	i 12 17	-22	i 14.6	21.2
Harvard	N. 33.9	34	i 6 55	- 9	i 12 31	- 8	i 16.6	20.8
Spokane	E. 36.3	336	e 7 20	- 4	i 13 8	- 6	17.8	19.6
	N. 36.3	336	e 7 18	- 6	i 13 4	-10	17.8	19.8
Saskatoon	E. 37.1	350	e 7 14	-17	i 13 2	-23	e 15.8	21.2
Victoria	E. 39.4	331	7 39	-11	13 49	- 8	19.1	26.6
	N. 39.4	331	7 42	- 8	13 49	- 8	18.6	24.3
Halifax	39.5	37	i 7 43	- 8	i 13 42	-17	e 18.8	25.4
La Paz	E. 42.6	138	i 8 9	- 6	i 14 29	-14	i 20.4	21.3
	N. 42.6	138	—	—	i 14 35	- 8	19.6	21.3

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sucre	46.3	138	e 8 32	-10	i 15 23	-9	21.0	27.3
Sitka	E. 50.5	334	i 9 19	+9	i 16 46	+21	e 25.8	29.2
	N. 50.5	334	e 9 17	+7	i 16 42	+17	e 26.0	29.0
Santiago	55.0	155	e 10 1	+22	17 37	+16	28.3	—
Honolulu T.H.	E. 58.7	286	10 6	+3	18 20	+13	e 28.0	—
	N. 58.7	286	10 17	+14	18 10?	+3	28.8	—
La Plata	62.5	145	i 10 35	+6	18 54	-1	30.1	—
Rio de Janeiro	E. 64.6	127	—	—	i 8 0	?	i 16.6	29.7
	N. 64.6	127	—	—	i 7 55	?	i 16.7	35.4
Reykjavik	68.7	27	e 11 21	+12	20 58	[- 5]	34.7	44.6
Scoresby Sund	69.6	21	e 11 24	+9	e 20 34	+13	34.2	43.9
Edinburgh	78.4	35	12 16	+7	22 53	?PS	35.2	48.7
Dyce	78.6	34	i 12 19	+8	i 22 14	+7	—	46.7
Bidston	78.9	37	12 10	-2	22 10	-1	32.8	43.7
Stonyhurst	79.2	37	12 29	+15	i 22 31	+17	37.7	43.5
Rio Tinto	79.8	54	12 10?	-8	—	—	—	45.2
San Fernando	80.3	55	i 12 31	+10	i 22 41	+14	35.6	46.2
Oxford	E. 80.4	40	i 12 24	+3	i 22 47	+19	39.7	49.2
	N. 80.4	40	12 19	-2	i 22 40	+2	—	43.6
Apia	80.6	254	12 39	+16	22 35	+5	37.0	44.7
Kew	E. 81.0	39	i 12 27	+2	i 22 50	+15	38.4	48.2
	N. 81.0	39	—	—	i 22 47	+12	35.2	46.3
	Z. 81.0	39	i 12 27	+2	i 22 53	+18	38.4	49.4
Toledo	81.3	51	e 12 28	+1	i 22 42	+4	e 38.1	42.7
Bergen	81.6	29	13 30	+62	23 55	+73	e 33.2	43.2
Malaga	81.7	55	12 32	+3	i 23 0	+17	32.7	43.2
Granada	82.2	55	i 12 45	+14	i 23 7	+19	33.7	42.1
Le Mans	82.2	43	i 12 20	-11	i 22 55	+7	40.2	46.2
Almeria	83.3	55	i 12 43	+5	i 23 3	+3	38.2	46.3
Paris	83.5	41	i 12 40	+1	i 23 4	+1	36.2	48.2
Bagnères	83.6	47	e 12 42	+2	e 23 5	0	e 39.2	47.0
De Bilt	E. 84.0	37	—	—	23 10	+2	e 40.2	47.0
	N. 84.0	37	—	—	i 23 20	+12	e 40.2	45.7
	Z. 84.0	37	12 43	+1	i 23 22	+14	e 40.2	47.0
Uccle	84.0	40	i 12 43	+1	i 23 12	+4	e 40.2	50.3
Alicante	84.3	52	12 47	+3	23 11	0	e 37.4	49.0
Tortosa	E. 84.4	49	12 39	-5	23 13	+1	40.0	44.9
	N. 84.4	49	12 35	-9	23 13	+1	39.6	44.4
Barcelona	85.4	49	e 12 57	+7	i 23 32	+9	34.9	46.5
Besangon	86.2	43	e 12 52	-2	—	—	38.2	46.2
Hamburg	E. 86.3	36	—	—	23 26	-7	e 40.9	49.2
	N. 86.3	36	—	—	23 29	-4	e 41.5	52.2
	Z. 86.3	36	i 12 54	-1	—	—	e 41.5	49.2
Feldberg	E. 86.6	40	i 13 4	+7	i 23 43	+6	e 41.2	47.1
Copenhagen	E. 86.7	33	e 12 57	0	e 23 34	-4	e 40.2	46.5
	N. 86.7	33	e 12 57	0	i 23 5	[- 2]	e 37.2	52.7
Grenoble	86.7	45	13 5	+8	e 23 26	-12	e 39.2	48.0
Strasbourg	86.8	40	i 12 55	-3	23 25	-14	—	49.2
Neuchatel	86.8	43	e 12 56	-2	i 23 31	-8	—	—
Marseilles	87.0	46	e 13 35	+36	i 24 25	+44	e 37.2	48.2
Lund	87.2	33	13 1	+1	23 59	+16	—	—
Upsala	87.4	28	12 58	-3	23 42	-3	e 40.2	49.8
Algiers	87.5	52	i 13 6	+4	i 23 44	-3	42.2	46.2
Hohenheim	87.7	40	i 13 7	+4	23 50	+1	e 43.2	51.1
Zurich	87.8	43	i 13 3	-1	e 23 13	[- 1]	—	—
Moncalieri	E. 88.1	43	13 2	-4	23 34	-19	33.7	58.2
	Z. 88.1	43	13 9	+3	23 52	-1	45.8	—
Ravensburg	88.2	42	13 9	+3	23 42	-12	e 41.2	52.8
Jena	E. 88.2	38	13 10	+4	e 23 40	-14	e 39.2	56.9
	N. 88.2	38	13 10	+4	e 23 40	-14	e 39.2	53.7
	Z. 88.2	38	i 13 5	-1	i 24 4	+10	e 42.2	47.2
Potsdam	88.4	36	e 13 10?	+3	i 24 7	+11	—	48.2
Chur	88.5	43	13 12	+4	i 23 43	-15	—	—
Innsbruck	89.5	40	e 13 14	+1	—	—	e 43.0	52.6
Florence	90.8	44	13 11	-9	23 52	-30	42.2	47.2
Venice	90.8	42	13 23	+3	23 54	-28	45.4	55.2
Suva	N. 91.0	252	13 28	+7	i 23 52	-32	i 41.8	—
Konigsberg	N. 91.3	31	i 13 24	+1	24 8	-19	e 38.9	55.2
	Z. 91.3	31	e 13 4	-19	24 16	-11	e 43.5	50.2
Lalbach	92.0	40	i 13 28	+1	i 24 4	-31	—	—
Graz	92.2	40	i 13 29	+1	i 24 13	-24	40.2	53.3
Vienna	92.2	39	e 13 20	-8	24 39	+2	e 43.2	61.7
Rocca di Papa	92.6	46	e 13 19	-11	i 24 46	+5	e 41.8	55.7
Pulkovo	92.8	24	i 13 24	-7	i 24 0	[+15]	43.2	52.2

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zagreb	93-0	40	i 13 33	+ 1	i 24 0	[+14]	e 40-6	51-6
Sebenico	93-9	42	—	—	—	—	e 53-2	—
Budapest	94-1	39	13 40	+ 1	24 14	-13	45-7	50-7
Pompeii	94-3	46	i 13 50	+10	e 23 35	[-18]	38-2	50-2
Lemberg	E. 95-7	36	e 13 46	- 1	e 24 22	[+21]	e 46-1	61-1
	N. 95-7	36	e 13 16	-31	e 23 46	[-15]	e 45-0	59-4
Belgrade	N. 96-2	40	e 13 44	- 6	e 25 34	+16	e 43-9	53-7
Kucino	98-4	25	i 13 52	-10	i 25 10	-30	41-3	53-0
Wellington	E. 99-9	230	14 14	+ 4	i 24 48	[+25]	47-3	47-9
	N. 99-9	230	14 42	+32	24 10?	[-13]	46-2	50-2
Christchurch	101-9	228	—	—	25 3	[+30]	48-3	—
Makeyevka	104-0	30	14 21	- 9	25 2	[+19]	49-7	—
Yalta	104-4	35	e 19 6	?PR ₁	—	—	—	—
Ekaterinburg	104-6	12	e 14 20	-12	i 25 1	[+16]	—	—
Irkutsk	109-4	347	14 41	-14	25 7	[- 1]	47-3	76-4
Kobe	109-8	317	e 44 47	?	e 52 39	?L	(e 52-6)	62-4
Sumoto	110-2	316	e 28 58	?PS	—	—	e 54-2	—
Helwan	111-6	48	14 51	-14	28 56	?PS	—	61-9
Ksara	N. 112-3	41	19 31	?PR ₁	—	—	54-7	—
Hukuoka	113-6	318	e 0 58	?	(e 29 19)	?PS	e 29-3	75-7
Nagasaki	114-5	319	—	—	(28 41)	+35	28-7	—
Baku	115-3	28	i 15 16	- 6	26 0	[+30]	—	—
Riverview	117-6	240	e 20 16	?PR ₁	i 26 1	[+23]	e 58-0	64-3
Sydney	117-6	240	19 22	[+36]	25 28	[-10]	30-0	30-6
Cape Town	118-9	121	e 14 10	-88	—	—	e 61-0	63-7
Zi-ka-wei	120-7	322	e 15 34	-12	20 29	?PR ₁	—	77-8
Tashkent	121-1	11	15 37	-11	—	—	—	71-6
Melbourne	122-6	240	e 20 47	?PR ₁	i 27 45	?Σ	—	58-2
Taihoku	N. 125-0	318	—	—	—	—	e 52-9	—
Entebbe	126-7	77	—	—	21 12	?PR ₁	62-0	75-0
Johannesburg	127-2	112	—	—	29 10?	-31	—	—
Adelaide	127-9	238	e 22 23	—	e 33 3	?	50-3	87-3
Hong Kong	131-6	321	21 42	?PR ₁	—	—	—	—
Manila	132-4	308	e 19 35	[+11]	e 39 14	?SR ₁	e 63-2	67-6
Dehra Dun	133-3	5	69 35	?L	75 11	?	81-1	83-6
Phu-Lien	137-0	328	e 19 22	[-12]	—	—	58-2	96-8
Calcutta	E. 141-2	353	22 59	?PR ₁	36 47	?	—	—
	N. 141-2	353	23 2	?PR ₁	36 38	?	—	—
Bombay	143-4	16	19 47	[+ 1]	33 11	?	69-8	88-4
Tananarive	145-1	100	i 19 57	[+ 9]	—	—	69-9	81-1
Hyderabad	146-1	10	19 52	[+ 2]	32 18	?	66-7	90-1
Perth	147-0	234	e 20 5	[+14]	29 7	?	—	—
Kodalkanal	152-9	14	20 22	[+22]	—	—	79-8	102-9
Batavia	155-4	291	i 19 42	[-20]	—	—	43-6	110-5
Colombo	156-7	10	20 13	[+ 9]	—	—	—	96-9

Additional readings and notes: Vera Cruz, Puebla, and Guadalajara readings have been diminished by 1m. Mazatlan readings have been increased by 2m. Chihuahua readings have been increased by 1m. Port au Prince IP = +6m.4s., MNW = +16-3m. St. Louis IP_CP = +8m.10s., iSR₂ = +10m.39s., LN? = +11-3m., MN = +14-8m. Denver i = +6m.26s., iPR₁ = +6m.51s., iPR₂ = +7m.4s., i = +11m.0s., iSR₁ = +11m.26s., iN = +12m.21s. Cincinnati IP = +5m.43s., iPR₁ = +6m.27s., iPCP = +8m.17s., iSR₁? = +11m.3s.; LN = +11-2m. Chicago iPN = +5m.52s., iPR₁E = +6m.20s. Charlottesville eE = +7m.0s. = iPR₁N. Georgetown (1st line) iPZ = +6m.6s., PR₁ = +6m.48s., MN = +21-5m. (2nd line) PR₁N = +6m.45s., PR₂ = +6m.58s., SR₁ = +11m.46s., MN = +19-5m. Toronto PR₁E = +7m.22s., iE = +7m.36s., iN = +7m.39s., and +12m.10s.; T₁ = 4h.16m.34s. Lick eZ = +6m.38s., +17m.10s., +18m.4s., and +19m.40s.; only the P is given with a definite phase. Berkeley ePR₁E = +7m.46s., eZ = +7m.52s., eGN = +15m.10s., eGE = +15m.16s. Ottawa iPR₁N = +7m.18s., i = +7m.40s., iSR₁ = +13m.13s., MN = +23-3m.; T₁ = 4h.16m.57s. Harvard iPR₁N = +7m.53s., i = +8m.27s. = PR₁ + 0s., eSE = +12m.35s., eSR₁N = +14m.19s., eSR₂N = +15m.7s., iN = +15m.19s. and +16m.39s.; T₁ = 4h.16m.41s.; epicentre 14° 5'N, 95° 8'W. Spokane iPN = +7m.21s., i = +7m.25s., iN = +7m.35s., ePR₁N = +8m.43s., iN = +8m.48s., iE = +8m.52s., iPR₁ = +9m.2s., iPR₂N = +9m.12s., iSR₁ = +15m.45s., iN = +17m.19s. Halifax iPR₁ = +9m.19s. = PR₁ + 3s., SR₁ = +16m.43s. = SR₁ + 7s., eLN = +19-5m., MN = +23-9m.; T₁ = 4h.17m.0s. La Paz PR₁E = +9m.29s., PR₂E = +10m.24s., iSR₁E = +17m.36s., iSR₂E = +18m.39s. Sucre IP = +8m.37s., iPR₁ = +8m.58s., PR₁ = +10m.8s. = PR₁ - 29s., SR₂ = +18m.19s. = SR₁ - 37s. Sitka iPR₁E = +11m.35s., iSR₁ = +20m.42s. Honolulu T.H. PR₁E = +12m.34s., SR₁E = +22m.10s.?,

Continued on next page.

SR₁N = +22m.26s., SR₂N = +24m.24s., iE = +26m.27s. Reykjavik
e = +18m.48s., PS₁ = +20m.32s., e = +21m.36s., LN = +34.4m. Scoresby
Sund ePN = +11m.29s., ePR₁E = +14m.16s., ePR₂E = +15m.41s., eN =
+17m.56s., and +19m.4s., S = +20m.41s., eN = +22m.41s., eSR₁E =
+25m.16s., eSR₂N = +26m.34s., eSR₂E = +27m.22s., eEN = +29m.40s. =
SR₁-8s., eE = +31m.52s. Edinburgh PS₁? = +22m.20s. Bidston
readings have been diminished by 1h Dyce e = +22m.29s., SR₁ =
+27m.54s. Stonyhurst PR₁ = +15m.23s., PS₁? = +22m.59s. San
Fernando PR₂ = +17m.41s., MN = +50.2m., Oxford PR₁E = +15m.40s.,
PR₁N = +16m.18s., SR₁E = +26m.2s., E = +29m.40s. Apia +16m.13s. =
PR₁-17s., and +27m.53s., MN = +40.2m.; T₀ = 4h.16m.6s. Kew
PR₁EZ = +15m.19s., PR₂E = +16m.46s., PSZ = +23m.37s., SR₁ =
+27m.28s., SR₂ = +32m.10s. Toledo i = +12m.34s., PR₁E = +15m.22s.,
PR₂E = +17m.49s., MNW = +43.3m. MZ = +43.4m. Bergen readings
are given as for 21d. Malaga iPN = +12m.42s., MZ = +41.8m., MN =
+46.0m. Granada i = +24m.1s. and +25m.31s., iSN = +23m.5s., i =
+23m.22s. = PS - 11s., G = +28m.52s. = SR₁ + 8s. Almeria PR₁ =
+16m.49s., MN = +44.1m., MZ = +50.5m. Paris MN = +49.2m.
Bagnères readings at +12m.47s. and +23m.8s., PS = +24m.2s., MN =
+45.9m. De Bilt PR₁ = +15m.54s., iPR₁Z = +17m.26s., epicentre
15°54'N. 96°23'W. Uccle = +12m.49s., iPR₁ = +16m.4s., MN = +45.4m.,
MZ = +49.6m.; epicentre 18°9'N. 100°4'W. Barcelona PN = +24m.27s.,
MN = +53.6m.; Besançon i = +13m.0s., PR₁ = +16m.19s., PS =
+23m.25s. Hamburg iPR₁ = +16m.18s., SR₁ = +36m.16s. Feldberg
ePE = +16m.10s. = PR₁-30s., eE = +24m.38s., PS 12s. and +33m.34s. =
SR₁-9s. Copenhagen iE = eN = +13m.3s., iPR₁Z = +16m.15s., ePR₁N =
iPR₁EZ = +16m.22s., PR₂ = +18m.5s., eEN = +19m.4s., eE = +22m.58s.,
ePSZ = +23m.55s., PPS = +24m.40s., eEN = +26m.1s., and +36m.28s.,
eN = +27m.52s., SR₁ = +29m.4s., SR₂ = +34m.10s.?, and +36m.10s.?
SR₁ + 16s., eLZ = +41.2m., MZ = +46.2m. Grenoble eS = +23m.29s.
Strasbourg iPR₁ = +16m.17s., iPR₂ = +18m.28s., ePR₁ = +19m.35s., PS =
+24m.10s., MZ = +45.4m., MN = +54.3m. Neuchatel iP = +13m.3s.
Lund +23m.44s. = [S] + 34s. Upsala PR₁E = +16m.27s., eLN = +38.2m.,
MN = +49.2m. Hohenheim PR₁ = +16m.52s., PR₂ = +18m.56s., MN =
+49.0m. Ravensburg PR₁ = +16m.42s., PR₂ = +18m.34s., MN =
+55.3m. Jena eEN = +16m.22s. = PR₁-32s., iZ = +16m.30s. = PR₁-24s.,
eE = +16m.34s. = PR₁-20s., iSEN = +24m.2s., iPSE = +24m.56s., iPSN =
+24m.58s., ePSZ = +25m.10s. Potsdam e = +14m.52s., MN = +49.2m.
Innsbruck MNW = +54.1m. Florence iP = +13m.21s., PR₁ = +16m.48s.,
PR₂ = +18m.40s., PS = +24m.49s., SR₁ = +29m.50s., SR₂ = +36m.15s.
Suva iSR₁ = +30m.10s., SR₂ = +34m.46s. = +17m.3s.,
iPR₁N = +19m.38s., i? = +22m.18s., PPSN = +25m.31s., eZ = +25m.56s.
Leibach e = +14m.52s., +17m.1s. = PR₁-19s., and +34m.54s. = SR₁-22s.
Graz PR₁ = +17m.9s., PS = +25m.48s., MN = +50.6m. Vienna iP =
+13m.28s., iZ = +14m.43s., iEN = +16m.29s., PR₁ = +17m.11s., iE =
+19m.40s. = PR₁-6s., PR₂ = +19m.47s., iN = +20m.34s., iE = +20m.50s.
and +22m.34s., S_{CP}S = +23m.51s. = [S] + 10s., iN = +24m.3s., iE =
+24m.8s., +24m.34s., +24m.54s., and +25m.49s., PS = +25m.55s., iN =
+28m.22s., iE = +29m.38s., iN = +29m.47s., SR₁ = +32m.23s., PR₂
(A > 180°) = +42m.37s.; epicentre 17°3'N. 94°5'W. Rocca di Papa
iPZ = +13m.27s., iPEN = +13m.29s., eS = +23m.54s. = [S] + 10s., eSE =
+24m.4s., eSN = +24m.18s., iS = +25m.47s. = PS + 9s., Zagreb i =
+17m.10s. ? = PR₁-18s., iNE = +24m.52s. = S + 7s., iNW = +25m.50s. =
PS + 7s., iNE = +26m.41s., +29m.50s., and +33m.2s., eLNW = +43.8m.,
MNW = +53.2m. Sebenico reading has been diminished by 1h. Buda-
pest i = +17m.21s. = PR₁-14s. Belgrade eN = +19m.40s. Kucino
PR₁ = +17m.46s., iS_{CP}S = +24m.22s. = [S] + 7s. Wellington PR₁N =
+18m.10s.?, PR₁E = +18m.16s., SR₁E = +31m.10s.?, SR₂E = +36m.15s.
Ekaterinburg iP = +17m.59s. = [P] - 4s. Irkutsk iPR₁ = +19m.8s.,
iPR₂ = +21m.35s. Kasara PR₁N = +20m.46s., PR₂N = +25m.37s.,
SR₁N = +36m.17s., SR₂E = +44m.51s. Baku iPR₁ = +19m.55s. River-
view ePR₂ = +26m.35s., iS_{CP}S = +27m.16s., iPS = +30m.4s., P_{CP}S? =
+30m.19s., PPS? = +31m.35s., SR₁? = +36m.45s., PPS? = +37m.7s.,
PSS? = +40m.23s., SR₁? = +41m.3s., SR₂? = +44m.27s., eL₀ = +49.0m.,
eL₁ = +54.1m., and +54.9m., MN = +67.6m. Cape Town PR₁ =
+20m.14s. Tashkent P = +19m.13s. = [P] + 18s., iPR₁ = +20m.22s.,
ePPS = +31m.10s. Melbourne i = +26m.10s. = [S] + 18s. Adelaide
i = +41m.15s., SR₂E = +43m.13s., MN = +66.9m. Manila iPR₁E =
+23m.3s., iPR₂E = +36m.10s. Phu-Lien MN = +94.9m. Tananarive
PR₁ = +23m.39s., eE = +33m.39s., eEN = +40m.18s., eN = +41m.57s. =
SR₁ + 4s., SR₂ = +42m.21s., MN = +88.2m. Perth S = +29m.25s. =
Z - 28s. Batavia iZ = +19m.49s., i = +19m.56s., iNZ = +20m.16s.,
i = +20m.28s., +26m.25s. = [S] - 20s., and +32m.36s.

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March 22d. Readings also at 5h. (near Belgrade, Zagreb (2), and Vienna (2)), 6h. (Tucson, near Tacubaya, Puebla, and Vera Cruz), 7h. (La Paz and Sucre), 9h. and 11h. (Taihoku), 12h. (Vienna), 14h. (Taihoku), 15h. (near La Paz and Sucre), 16h. (Santiago), 19h. (Port au Prince), 20h. (Hong Kong, Phu-Lien, near Manila, near Hukuoka, Matuyama, Toyooka, and Sumoto), 21h. (Ekaterinburg, Irkutsk, Pulkovo, Makeyevka, Copenhagen, and Tashkent), 22h. (La Paz and Sucre).

March 23d. 1h. 21m. 30s. Epicentre 38°·5N. 137°·0E.

A = -·572, B = +·534, C = +·623; D = +·682, E = +·731;
G = -·455, H = +·425, K = -·783.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E. 3·3	77	0 55	+ 3	1 34	+ 3	—	—
Nagoya	3·3	182	e 0 35	-17	(1 12)	-19	1·2	1·4
Toyooka	3·4	210	i 1 3	+10	(1 55)	+21	i 1·9	2·2
Osaka	4·0	198	i 1 2	0	(1 51)	+ 1	1·8	3·1
Kobe	4·1	200	e 1 1	- 3	(1 49)	- 4	1·8	2·0
Sumoto	4·5	202	e 1 18	+ 8	(1 51)	-13	1·8	2·0

Additional readings: Mizusawa SN = +1m.35s. Nagoya S = +59s., MN = +1·3m. Osaka MN = +2·4m. Kobe S = +1m.18s.

March 23d. 11h. 6m. 20s. Epicentre 18°·0S. 73°·0W. (as on 1925 Oct. 25d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	4·9	70	i 1 14	- 2	i 2 5	- 9	2·5	2·9
Sucre	7·4	99	i 1 58	+ 6	3 19	- 2	i 3·8	4·4
La Plata	21·6	145	i 5 2	+ 2	8 56	- 1	12·7	—
St. Louis	58·8	344	—	—	i 18 6	- 3	—	—
Ekaterinburg	128·2	30	—	—	—	—	51·7	—
Tashkent	140·3	46	—	—	—	—	e 78·7	87·8

Additional readings: La Paz IPE = +1m.15s., iE = +1m.32s., MN = +2·7m. St. Louis e = +14m.46s. and +15m.46s., iN = +17m.58s. Tashkent e = +69m.40s.

March 23d. 18h. 34m. 15s. Epicentre 34°·0N. 134°·8E. (as on 1928 Jan. 9d.).

A = -·584, B = +·588, C = +·559.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sumoto	0·4	11	10 7	+ 1	(10 12)	+ 1	10·2	0·2
Kobe	0·7	25	i 0 12	+ 1	(10 23)	+ 3	10·4	0·4
Osaka	0·9	38	0 12	- 2	(0 24)	- 1	0·4	0·9
Toyooka	1·6	0	i 0 27	+ 3	(10 48)	+ 3	10·8	0·9
Nagoya	2·1	57	e 0 42	+ 9	(0 59)	+ 1	1·0	1·0

Osaka gives also MN = +0·8m.

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March 23d. 20h. 2m. 9s. Epicentre 33°-5S. 179°-5E.

A = -0.834, B = +0.007, C = -0.552; D = +0.009, E = +1.000;
G = +0.552, H = -0.005, K = -0.834.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	m. s.	m. s.	s.	m. s.	s.	m.	m.
Wellington	E.	8.7	204	12 14	+ 2	14 1	+ 5	—	—
	N.	8.7	204	12 15	+ 3	13 51	- 5	—	—
Christchurch		11.4	206	—	—	—	—	—	10.7
Suva	E.	15.4	356	13 39	- 5	—	—	—	—
Riverview		23.5	260	15 24	+ 1	e 9 36	+ 1	e 12.2	14.1
Melbourne		28.3	251	16 3	- 8	(11 16)	+12	11.3	17.4
Adelaide		33.6	259	—	—	e 14 56	?SR ₂	e 17.5?	25.4
Perth		52.7	255	e 22 51	?SR ₃	—	—	—	—
Manila		73.6	301	e 11 38	- 2	—	—	e 13.2	15.0
Hong Kong		83.6	303	—	—	—	—	—	19.5
Zi-ka-wei		84.8	313	e 12 39	- 8	e 24 37	?PS	—	47.4
Phu-Lien		88.1	297	12 51?	-15	—	—	—	—
Victoria		96.4	34	—	—	—	—	46.7	54.6
La Paz		98.4	116	e 13 25	-37	—	—	—	—
Irkutsk		107.8	322	—	—	e 23 58	?PR ₃	54.8	—
St. Louis	E.	110.3	56	—	—	—	—	—	53.8
Bombay		113.9	277	—	—	e 29 51?	?PS	—	—
Georgetown	Z.	119.8	60	—	—	e 28 22	-26	e 51.8	—
Ottawa		122.8	53	—	—	e 29 51?	+41	e 54.8	—
Tashkent		125.5	300	e 18 48	[-19]	—	—	e 65.8	71.8
Ekaterinburg		133.0	319	i 19 29	[+ 4]	—	—	63.8	80.6
Baku		139.7	295	e 22 38	?PR ₁	—	—	71.8	85.2
Kucino		145.5	322	—	—	—	—	e 74.8	—
Pulkovo		146.9	331	i 19 53	[+ 2]	—	—	75.8	83.8
Makeyevka		147.9	309	19 55	[+ 2]	—	—	86.6	91.6
Copenhagen		156.1	342	e 19 3	[-60]	—	—	82.8	85.8
De Bilt		161.0	350	—	—	e 44 51?	?SR ₁	e 85.8	100.9
Kew		162.0	359	—	—	—	—	e 82.8	—
Uccle		162.3	350	—	—	—	—	e 84.8	—
Paris		164.5	353	—	—	—	—	93.8	—
Rio Tinto		173.4	48	23 51?	?	—	—	—	(101.8)
San Fernando	E.	174.5	56	—	—	—	—	—	105.8
Granada		175.5	34	—	—	—	—	e 90.8	101.2
Almeria		176.3	23	—	—	—	—	—	93.0

Additional readings and notes: Suva iN = +4m.9s., iE = +4m.21s. River-
view PR₁ = +6m.1s. = PR₂ - 2s., eS = +10m.12s. = SR₁ - 14s., MN =
+13.8m. Melbourne i = +7m.1s. = PR₁ + 5s. Adelaide MN = +20.8m.
Manila MN = +14.7m.; readings given as for a close shock. St. Louis
MN = +54.8m. Georgetown eZ = +38m.37s. and +42m.39s. = SR₁ + 22s.
Ottawa e = +37m.39s. = SR₁ + 17s. Tashkent e = +20m.57s. = PR₁ - 2s.,
+21m.51s. and +32m.51s. Ekaterinburg i = +21m.57s. = PR₁ + 7s.,
+23m.14s. and +23m.16s. Baku e = +34m.49s. Makeyevka i =
+20m.16s. Copenhagen eZ = +20m.6s., eE = +35m.51s.?, and
+40m.51s.?, eZ = +56m.51s.?, eE = +62m.51s.?, De Bilt eLN =
+82.8m., MN = +102.9m., MZ = +104.3m. Paris i = +78m.9s. Rio
Tinto M has been increased by 1h. San Fernando MN = +102.8m.

March 23d. Readings also at 3h. (2) and 4h. (near Toyooka), 5h. (near Tacu-
baya), 6h. (Victoria, Tucson, near Oaxaca, Tacubaya, Florence, Rocca di
Papa (4)), 7h. (Rocca di Papa (3)), 9h. (near Toyooka), 10h. (Ekaterin-
burg and Tashkent), 12h. (La Paz and Sucre), 13h. (Baku, Ekaterinburg,
and Tashkent), 14h. (La Paz (2) and Sucre (2)), 17h. (La Paz), 21h. (near
Tacubaya), 22h. (Tucson, Georgetown, near Tacubaya, and near Sumoto).

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March 24d. 10h. 53m. 16s. Epicentre 37°-8N. 47°-3E. (given by De Bilt).

A = +.536, B = +.581, C = +.613; D = +.735, E = -.678;
G = +.416, H = +.450, K = -.790.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	3.3	38	i 0 52	0	i 1 32	+ 1	—	—
Ksara	10.0	250	3 0	+30	6 8	?	7.2	—
Makeyevka	12.3	329	e 3 9	+ 6	5 33	+ 7	6.3	8.3
Tashkent	17.3	72	i 4 1	- 8	i 7 12	-13	e 7.7	13.3
Kucino	19.0	344	4 14	-15	7 44	-18	9.1	—
Ekaterinburg	21.0	21	i 4 46	- 7	8 32	-12	12.7	18.2
Budapest	22.8	304	5 21	+ 6	—	—	—	—
Pulkovo	24.5	339	i 5 32	- 1	i 9 53	- 1	12.7	15.7
Vienna	24.7	305	e 5 35	0	—	—	—	—
Cocca di Papa	26.7	289	e 6 0	+ 5	e 10 27	- 8	e 15.7	15.9
Copenhagen	29.2	319	—	—	—	—	—	16.7
Moncalleri	30.2	296	6 16	-14	(11 12)	-25	11.2	—
Strasbourg	30.4	304	—	—	e 11 44?	+ 3	19.7	—
De Bilt	32.5	310	—	—	—	—	e 16.7	—
Kew	35.8	308	—	—	—	—	e 21.7	—
Edinburgh	37.9	315	—	—	—	—	e 23.7	—
Irkutsk	41.6	51	—	—	e 14 8	-21	e 22.7	—

Additional readings: Tashkent iPR₁ = +4m.43s. Vienna iPZ = +5m.55s.
Moncalleri SFE = +7m.53s. = PR₁ +15s. Strasbourg e = +15m.44s. ?
Irkutsk e = +17m.10s. = SR₁ -10s.

March 24d. 21h. 35m. 10s. Epicentre 45°-0S. 170°-0E.

A = -.696, B = +.123, C = -.707; D = +.174, E = +.985;
G = +.696, H = -.123, K = -.707.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Christchurch	2.4	54	1 8	+31	—	—	1.6	2.2
Wellington	5.1	45	i 1 11	- 8	i 2 17	- 3	—	—
	5.1	45	i 1 26	+ 7	i 2 24	+ 4	—	—
Riverview	18.3	301	i 4 19	- 2	e 7 45	- 2	e 7.9	8.9
Melbourne	20.0	282	i 4 45	+ 4	e 8 27	+ 4	—	10.1

No additional readings.

March 24d. Readings also at 2h. (La Paz (2), La Plata, and near Santiago), 8h. (near Tashkent), 9h. (Sydney, Suva, and Wellington), 12h. (Entebbe), 17h. (near Oaxaca (2) and Tacubaya (2)), 18h. (Tucson, near Tacubaya, Oaxaca, Puebla, and Vera Cruz), 22h. (near Taihoku), 23h. (San Fernando).

March 25d. 18h. 29m. 28s. Epicentre 38°-0S. 176°-0W.

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

Very rough.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Wellington	7.8	242	i 2 1	+ 3	13 35	+ 4	4.6	6.3
	7.8	242	i 1 58	0	13 32	+ 1	4.4	7.7
Suva	20.5	345	—	—	—	—	—	15.5
Riverview	26.8	269	e 5 3	-53	—	—	e 11.7	14.5
Sydney	26.8	269	10 32	?S	(10 32)	- 5	12.9	14.8
Melbourne	30.6	257	e 6 32	- 2	—	—	—	16.8
Tashkent	130.8	296	e 21 49	?PR ₁	e 25 46	[-27]	e 69.5	84.6
Ekaterinburg	138.8	316	e 22 30	?PR ₁	—	—	e 63.5	—
Baku	144.7	289	—	—	—	—	e 83.5	—
Pulkovo	152.6	331	e 19 23	[-37]	—	—	—	—

Additional readings: Riverview MN = +13.9m. Tashkent e = +38m.32s.
= SR₁ -28s.

March 25d. Readings also at 5h. (Stonyhurst), 20h. (Copenhagen).

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March 26d. 5h. 26m. 15s. Epicentre 0°·3S. 123°·8E.

(given by Batavia).

A = -·556, B = +·831, C = -·005; D = +·831, E = +·556;
G = +·003, H = -·004, K = -1·000.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		o.	m. s.	m. s.	s.	m. s.	s.	m.	m.
Amboina		5·6	128	2 35	+68	3 30	+56	—	—
Manila	E.	15·1	349	i 3 36	- 4	i 7 22	+48	i 9·5	—
	N.	15·1	349	i 3 36	- 4	i 7 19	+45	i 8·5	—
Malabar		17·6	246	4 40	+28	—	—	12·8	—
Batavia		18·0	250	i 4 11	- 6	7 44	+ 4	—	—
Hong Kong		24·5	338	5 22	-11	(9 38)	-16	9·6	15·2
Phu-Lien		27·0	322	5 50	- 8	(10 15)	-26	10·2	19·1
Zi-ka-wei		31·6	358	6 15	-28	11 19	-42	14·8	17·4
Perth		32·5	192	6 45	- 8	12 30	+14	16·5	—
Adelaide		37·3	160	i 7 22	-10	i 13 2	-26	—	26·8
Calcutta	E.	41·4	308	8 15	+ 9	18 9	?SR ₂	—	—
	N.	41·4	308	8 18	+12	18 8	?SR ₂	—	—
Riverview		42·2	146	—	—	i 14 18	-20	e 23·2	27·6
Sydney		42·2	146	—	—	i 13 57	-41	22·2	26·0
Melbourne		42·3	155	e 8 5	- 8	i 14 15	-24	—	30·2
	E.	42·5	22	(7 50)	-25	7 50	?P	—	—
Colombo		44·4	280	8 33	+ 4	15 3	- 4	25·6	30·9
Kodaikanal		47·3	284	9 27	+38	—	—	33·2	37·8
Hyderabad		48·0	295	10 42	+108	18 20	?	29·0	37·8
Bombay		53·5	295	e 8 46	-44	17 16	+13	30·4	33·3
Irkutsk		55·0	345	i 9 33	- 6	i 17 5	-16	25·2	33·8
Suva		56·5	323	—	—	i 18 45?	?PS	—	—
Wellington		61·6	139	—	—	i 18 30	-13	—	35·7
Tashkent		64·3	320	i 10 42	+ 2	i 19 20	+ 3	e 26·8	39·8
Ekaterinburg		75·9	330	i 11 51	- 3	i 21 25	-11	36·2	46·6
Tananarive		78·9	351	e 12 12	+12	e 22 5	+17	—	46·8
Baku		79·6	313	—	—	22 2	+ 6	39·8	47·8
Honolulu T.H. E.		79·1	69	—	—	—	—	e 37·4	—
Makeyevka		87·4	320	i 12 52	- 9	i 23 36	- 9	43·8	56·0
Kucino		87·9	326	13 3	- 1	23 45	- 6	42·0	53·4
Ksara		88·4	305	e 13 4	- 3	23 54	- 2	40·8	—
Entebbe		91·3	272	—	—	—	—	—	51·6
Pulkovo		92·0	330	13 12	-15	i 24 10	-25	42·8	52·4
Helsingfors		94·6	330	—	—	e 24 7	[+12]	49·8	—
Upsala		98·3	331	—	—	—	—	e 47·8	—
Budapest		100·1	320	e 23 15	?	—	—	e 61·2	—
Vienna		101·7	321	e 14 1	-18	24 27	[- 5]	—	64·0
Lund		101·7	329	—	—	24 33	[+ 1]	—	—
Copenhagen		102·1	329	—	—	24 43	[+ 9]	e 51·8	63·8
Graz		102·6	320	—	—	—	—	e 60·8	65·8
Hamburg		104·1	327	—	—	e 24 45?	[+ 2]	e 62·8	65·8
Victoria	E.	105·2	39	25 21	?S	(25 21)	[+33]	47·7	50·4
Feldberg	N.	106·1	322	e 23 51	?PR ₂	e 26 6	-47	e 52·4	58·4
Scoresby Sund		106·3	349	—	—	28 48	?PS	57·8	—
Strasbourg		107·1	320	18 45?	[+33]	(27 45?)	+43	27·8	—
De Bilt		107·4	325	—	—	e 24 57	[- 2]	e 51·8	68·7
Uccle		108·3	324	e 18 45?	[+29]	e 24 45?	[-18]	e 51·8	66·9
Dyce		108·8	332	—	—	24 59	[- 6]	51·8	69·9
Edinburgh		110·0	331	—	—	e 25 45?	[+35]	55·8	64·8
Paris		110·2	322	e 19 45	?PR ₁	e 28 41	?PS	60·8	66·8
Kew		110·7	326	—	—	—	—	52·8	70·5
Oxford		111·0	326	—	—	28 45	?PS	e 53·8	73·4
Granada		119·1	313	e 24 15	?	—	—	—	—
St. Louis	N.	130·6	35	e 23 11	?	e 25 28	?PR ₂	e 64·4	69·7
Ottawa		131·7	16	—	—	—	—	68·8	—
Toronto	N.	132·0	21	—	—	e 39 55	?SR ₁	66·8	—
Cincinnati		133·3	30	e 22 15	?PR ₁	—	—	e 67·8	—
Georgetown	Z.	136·9	23	e 23 58	?PR ₁	—	—	78·4	79·4
La Plata		144·8	178	(19 51)	[+ 3]	—	—	19·8	—
Sucre		158·8	156	20 18	[+11]	—	—	79·8	96·0

Additional readings: Batavia iE = +4m.14s., iZ = +4m.19s., iNZ = +5m.11s.,
iZ = +5m.19s. Hong Kong S = +8m.28s., MN = +13·8m. Zi-ka-wei
PR₁ = +7m.53s. Perth PR₁ = +9m.15s. Adelaide MN = +25·7m.
Riverview iPR₁ = +9m.52s., e = +15m.33s., SR₁ = +17m.31s., and
+17m.58s., MN = +24·9m. Tananarive eN = +23m.0s. Kucino

Continued on next page.

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eS₀P₀S = +23m.27s. = [S] + 13s. Pulkovo eS₀P₀S = +23m.38s. = [S] - 2s.
 Helsingfors PS = +26m.10s. Copenhagen ePR₁E = +18m.8s. and
 +18m.46s., PS = +26m.53s., SR₁ = +32m.57s., SR₂ = +36m.15s., eLN =
 +48.8m. Hamburg MNZ = +62.8m. Feldberg eN = +26m.18s.,
 +27m.56s. = PS - 18s. + 29m.2s., and +43m.21s. De Bilt ePR₁Z =
 +19m.4s., MN = +66.0m., MZ = +68.5m. Uccle MN = +62.9m. Kew
 ePR₁ = +19m.35s., ePS = +28m.39s., MN = +70.2m., MZ = +70.4m. Ox-
 ford MN = +70.7m. St. Louis eN = +41m.12s., eE = +42m.45s., eLE =
 +64.8m., ME = +73.8m. Ottawa eN? = +30m.45s.?, eE = +38m.45s.?,
 = SR₁ - 26s., eL = +51.8m.

March 26d. 6h. 43m. 6s. Epicentre 0° 3S. 123° 8E. (as at 5h.).

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	5.6	128	11 40	+13	2 31	- 3	—	—
Manila	15.1	349	e 3 41	+ 1	—	—	110.8	—
Batavia	18.0	250	e 4 18	+ 1	16 12	-88	111.0	—
Hong Kong	24.5	338	5 23	-10	(9 44)	-10	9.7	15.2
Phu-Lien	27.0	322	5 54	- 4	(10 24)	-17	10.4	—
Zi-ka-wei	31.6	358	e 6 26	-17	e 12 8	+ 7	—	17.5
Adelaide	37.3	160	—	—	e 11 59	-39	—	25.5
Riverview	42.2	146	—	—	i 14 21	-17	e 22.5	26.1
Sydney	42.2	146	—	—	14 42	+ 4	23.4	27.7
Melbourne	42.3	155	—	—	i 14 44	+ 5	—	28.5
Colombo	44.4	280	—	—	15 12	+ 5	23.4	28.4
Kodalkanal	47.3	284	26 6	?L	—	—	(26.1)	—
Hyderabad	48.0	295	11 23	?PR ₁	19 1	?SR ₁	30.1	34.0
Irkutsk	55.0	345	19 40	+ 1	i 17 14	+ 7	25.3	33.5
Tashkent	64.3	320	i 10 50	+10	19 25	+ 8	28.9	39.4
Ekaterinburg	75.9	330	i 11 55	+ 1	i 21 29	+ 7	29.9	46.6
Tananarive	76.9	251	12 18	+18	22 10	+22	—	—
Baku	77.6	313	i 12 17	+12	22 5	+ 9	39.9	48.1
Makeyevka	87.4	320	13 0	- 1	i 23 39	- 6	49.4	56.0
Kucino	87.9	326	—	—	—	—	44.0	54.0
Ksara	88.4	305	13 11	+ 4	24 0	+ 4	—	—
Pulkovo	92.0	330	13 18	- 9	i 24 16	-19	44.9	57.9
Lund	101.7	329	—	—	27 54	?PS	—	—
Copenhagen	102.1	*329	—	—	24 48	[+14]	55.9	63.9
Victoria	E. 105.2	39	—	—	—	—	47.8	50.0
Feldberg	N. 106.1	322	—	—	—	—	e 53.3	60.4
De Bilt	107.4	325	—	—	—	—	e 52.9	57.6
Uccle	108.3	324	—	—	—	—	e 55.9	—
Dyce	108.8	332	—	—	—	—	—	62.9
Edinburgh	110.0	331	—	—	—	—	e 63.9	—
Paris	110.2	322	—	—	—	—	e 65.9	—
Kew	110.7	326	—	—	—	—	e 51.9	62.9
La Plata	144.8	178	(19 48)	[0]	—	—	19.8	—

Additional readings: Riverview e = +17m.19s. = SR₁ - 13s., i = +17m.35s. =
 SR₁ + 3s., MN = +27.2m. Pulkovo S₀P₀S = +23m.49s. = [S] + 9s.
 Copenhagen PS = +27m.6s., SR₁ = +33m.6s., eLN = +51.9m. De Bilt
 MN = +58.0m.

March 26d. 8h. 6m. 0s. Epicentre 0° 3S. 123° 8E. (as at 6h.).

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	5.6	128	1 42	+15	i 2 39	+ 5	—	—
Manila	15.1	349	e 3 44	+ 4	—	—	19.8	—
Batavia	18.0	250	i 4 19	+ 2	—	—	14.0	—
Hong Kong	24.5	338	5 25	- 8	—	—	—	—
Phu-Lien	27.0	322	5 55	- 3	(10 30)	-11	10.5	—
Zi-ka-wei	31.6	358	6 23	-20	11 40	-21	16.6	18.7
Adelaide	37.3	160	—	—	i 13 12	-16	—	29.3
Riverview	42.2	146	—	—	i 14 20	-18	e 24.3	28.4
Sydney	42.2	146	14 30	?S	(14 30)	- 8	24.2	27.0
Melbourne	42.3	155	—	—	e 14 30	- 9	—	27.5
Colombo	44.4	280	8 18	-11	15 48	+41	23.6	28.6
Kodalkanal	47.3	284	31 24	?	—	—	—	—
Bombay	53.5	295	17 21	?S	(17 21)	+18	e 29.7	—
Irkutsk	55.0	345	19 37	- 2	i 17 16	- 5	27.8	—
Tashkent	64.3	320	i 10 47	+ 7	i 19 30	+13	29.0	39.2
Ekaterinburg	75.9	330	i 11 56	+ 2	21 31	- 5	32.0	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	77.6	313	i 12 13	+ 8	22 13	+17	41.0	48.2
Makeyevka	87.4	320	i 12 56	- 5	23 40	- 5	48.5	56.2
Kucino	87.9	326	e 12 48	-16	23 18	[+ 4]	49.7	54.9
Ksara	88.4	305	13 13	+ 6	24 41	?PS	—	—
Pulkovo	92.0	330	13 15	-12	i 24 11	-24	47.0	59.2
Copenhagen	102.1	329	—	—	e 24 0?	[-34]	55.0	—
Victoria	105.2	39	—	—	—	—	48.6	50.4
Feldberg	106.1	322	—	—	—	—	—	61.4
Strasbourg	107.1	320	—	—	—	—	e 63.0	—
De Bilt	107.4	325	—	—	—	—	e 55.0	66.1
Uccle	108.3	324	—	—	—	—	e 56.0	—
Dyce	108.8	332	—	—	—	—	—	66.0
Paris	110.2	322	—	—	—	—	e 66.0	—
Kew	110.7	326	—	—	—	—	e 54.0	—
Ottawa	131.7	16	—	—	e 32 0?	?	e 67.0	—
La Plata	144.8	178	(19 54)	[+ 6]	—	—	—	19.9

Additional readings: Amboina $i = +2m.5s.$ Manila $iLN = +9.0m.$
 Batavia $iE = +6m.0s.$ Riverview $i = +17m.30s. = SR_1 - 2s.$ MN =
 +27.2m. Melbourne $i = +17m.35s. = SR_1 + 1s.$ Bombay S =
 +23m.11s. = $SR_2 - 16s.$ Pulkovo $S_0P_0S = +23m.43s. = [S] + 3s.$ Copen-
 hagen $eSR_1E = +37m.0s.?$ De Bilt MN = +65.6m., MZ = +68.6m.

March 26d. 9h. 47m. 40s. Epicentre $0^\circ.3S. 123^\circ.8E.$ (as at 8h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	5.6	128	1 30	+ 3	2 43	+ 9	—	—
Manila	15.1	349	e 3 42	+ 2	—	—	19.1	—
Batavia	18.0	250	i 4 9	- 8	i 7 5	-35	—	—
Hong Kong	24.5	338	—	—	—	—	—	11.0
Phu-Lien	27.0	322	5 47	-11	(10 20?)	-21	10.3	—
Zi-ka-wei	31.6	358	e 6 19	-24	e 11 17	-44	—	19.4
Adelaide	37.3	160	—	—	i 12 53	-55	—	29.3
Riverview	42.2	146	—	—	i 14 9	-29	e 26.4	30.8
Sydney	42.2	146	13 56	?S	(13 56)	-42	22.9	27.3
Melbourne	42.3	155	—	—	i 14 20	-19	—	29.8
Colombo	44.4	280	10 24	+115	15 9	+ 2	23.2	27.6
Irkutsk	55.0	345	i 9 36	- 3	17 10	-11	26.1	—
Tashkent	64.3	320	i 10 37	- 3	i 19 18	+ 1	e 29.3	39.1
Ekaterinburg	75.9	330	i 11 48	- 6	e 21 26	-10	36.3	49.7
Baku	77.6	313	12 17	+12	e 22 7	+11	39.3	51.7
Makeyevka	87.4	320	12 52	- 9	e 23 32	-13	48.3	56.2
Kucino	87.9	326	—	—	e 23 38	-13	—	—
Ksara	88.4	305	e 12 49	-18	23 49	- 7	—	—
Pulkovo	92.0	330	13 12	-15	i 24 5	-30	44.3	57.6
Copenhagen	102.1	329	e 14 20?	- 1	e 32 20?	?SR ₁	53.3	—
Feldberg	106.1	322	—	—	—	—	—	60.3
De Bilt	107.4	325	—	—	—	—	e 54.3	—
Uccle	108.3	324	—	—	—	—	e 55.3	—

Additional readings: Batavia $iE = +4m.11s.$ Riverview $i = +17m.25s. =$
 $SR_1 - 7s.$ MN = +30.5m. Melbourne $i = +17m.2s. = SR_1 - 32s.$ Pul-
 kovo $S_0P_0S = +23m.39s. = [S] - 1s.$

March 26d. 14h. 40m. 35s. Epicentre $46^\circ.5N. 13^\circ.0E.$ (as on 1927 Dec. 31d. and see Mar. 27d.).

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.
Treviso	1.0	214	i 0 17	+ 2	i 0 27	- 1	—	—
Venice	1.1	204	i 0 22	+ 5	—	—	—	0.6
Lalbach	1.1	113	i 0 14	- 3	i 0 33	+ 2	—	—
Innsbruck	1.4	305	i 0 19	- 2	(i 0 38)	- 1	10.6	1.8
Graz	1.8	71	i 0 29	+ 1	i 0 54	+ 3	—	1.1
Zagreb	2.2	108	i 0 33	- 1	i 1 2	+ 2	—	1.4
Chur	2.4	278	e 0 39	+ 2	i 1 13	+ 7	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
			m. s.		m. s.		m.	m.
Ravensburg	2.7	299	0 48	+ 6	1 12	- 2	—	1.6
Vienna	2.9	52	e 0 44	+ 1	1 22	+ 2	—	1.6
Florence	3.0	206	e 0 41	- 6	1 36	+13	—	1.8
Zurich	3.2	288	e 0 49	- 1	i 1 39	+11	—	—
Hohenheim	3.4	313	i 0 53	0	1 17	-17	—	2.0
Moncalieri	4.0	249	1 18	+16	2 18	+28	—	2.6
	4.0	249	1 14	+12	2 21	+31	—	—
Strasbourg	z.	4.1	302	1 3	- 1	i 1 53	0	i 2.6
Neuchatel	N.	4.1	278	i 1 2	- 2	i 1 55	+ 2	—
Budapest		4.3	75	1 21	+14	—	—	2.4
Jena		4.5	348	e 1 10	0	—	i 2.4	2.6
Rocca di Papa		4.7	183	e 1 6	- 7	e 1 57	-12	2.7
Feldberg	N.	4.8	282	i 1 13	- 1	—	e 2.7	3.2
Besancon		4.9	280	1 14	- 2	i 2 8	- 6	—
Grenoble		5.2	258	e 1 24	+ 4	2 24	+ 2	—
Belgrade	N.	5.5	106	e 0 46	-39	i 1 59	-32	2.6
Naples	N.	5.7	171	e 1 29	+ 1	e 2 39	+ 3	3.3
Pompeii		5.8	169	e 2 45	1S	(e 2 45)	+ 6	(e 3.4)
Potsdam		5.9	0	e 1 55	+24	i 2 42	+ 1	3.1
Marseilles		6.3	242	e 1 45	+ 1	3 1	+ 1	3.6
Puy de Dôme		7.2	0	e 1 37	- 9	e 3 11	+ 1	3.8
Uccle		7.2	310	e 1 47	- 2	—	—	4.7
Hamburg	N.	7.4	346	e 2 5	+13	i 3 37	+16	e 3.9
Paris		7.4	292	e 1 54	+ 2	e 3 38	+17	4.0
De Bilt		7.6	321	1 55	0	e 3 32	+ 6	e 3.7
Copenhagen		9.2	358	2 31	+12	e 4 10	+ 2	1.4.9
Lund		9.2	1	2 43	+24	—	—	5.4
Konigsberg		9.6	27	e 2 57	+33	4 24	+ 6	e 5.0
Kew		10.6	304	e 2 26	- 4	e 4 16	-13	5.3
Tortosa	E.	10.6	242	e 3 7	+29	—	—	—
Oxford		10.7	305	2 49	+ 9	i 4 44	- 4	5.5
Stonyhurst		12.3	312	e 2 52	-11	—	—	e 6.5
Upsala		13.6	10	e 3 14	- 7	e 6 10	+12	7.3
Edinburgh		13.8	319	i 3 39	+16	—	—	i 7.8
Dyce		14.2	325	—	—	—	—	10.5
Almeria		14.9	235	—	—	e 6 24	- 6	11.3
Helsingfors		15.4	23	e 2 37	-67	e 5 35	-66	8.1
Pulkovo		16.7	32	3 52	- 9	6 54	-17	8.4
Makeyevka		17.0	76	e 3 55	-10	e 9 21	?	10.2
San Fernando	E.	17.5	242	—	—	—	—	14.5
Kucino		18.0	50	e 3 25	-52	6 49	-51	8.8
Ksara	N.	21.4	118	e 4 50	- 8	8 44	- 9	—
Baku		27.2	90	e 5 47	-13	e 11 21	+36	e 14.2
Ekaterinburg		30.6	53	6 23	-11	e 11 26	-18	16.4
Tashkent		40.0	77	—	—	—	—	e 20.4

Additional readings and note: Innsbruck iPN_E = +23s.; epicentre 46° 3N. 12° 9E. Zagreb iNE = +36s., +46s., +1m.6s., and +1m.10s., iNW = +38s., +44s., +59s., +1m.7s., and +1m.11s., MNW = +1.3m. Ravensburg PR₁ = +1m.1s., PR₂ = +1m.6s. Vienna iPZ = +45s., P* = +48s. and +53s., iPR₁ = +57s., iE = +1m.6s., P₁S = +1m.15s., iPS = +1m.19s.; epicentre 46° 3N. 12° 9E. Zurich eP = +56s. Hohenheim P = +56s., PR₁ = +1m.6s. Moncalieri MN = +3.3m. Strasbourg iP = +1m.17s., PR₁? = +1m.22s. and +1m.31s. Jena eNZ = +1m.13s., iE = +1m.24s., +1m.33s., +1m.38s., +1m.43s., +1m.48s., +1m.57s., and +1m.59s., iN = +1m.47s., iZ = +1m.55s., MNZ = +2.8m. Rocca di Papa iP = +1m.7s. Feldberg ePN = +1m.14s., iN = +1m.24s., eN = +1m.37s. and +2m.32s., iN = +2m.36s. and +2m.42s. Besancon P = +1m.34s. Grenoble S = +2m.39s., SF₁? = +3m.8s. Belgrade iPN = +1m.5s., +1m.43s. Pompeii gives S as P and L as S. Potsdam MN = +3.1m. Marseilles e = +2m.1s., S = +3m.5s. Puy de Dôme e = +2m.15s. Uccle i = +3m.55s., MN = +4.1m. Hamburg iPZ = +2m.10s., iSE = +3m.40s., MZ = +4.6m., ME = +7.9m. Paris e = +2m.37s. Copenhagen eE = +3m.57s. and +4m.20s., MZ = +6.5m. Konigsberg eSZ = +4m.9s., SF₁? = +4m.41s., eZ = +4m.48s., eE = +4m.57s., MZ = +6.2m., MN = +6.4m. Kew MZ = +5.9m. Oxford i = +4m.26s., +4m.59s., and +5m.6s. Upsala MN = +9.0m. Edinburgh i = +5m.13s. San Fernando MN = +12.0m. Ekaterinburg i = +6m.24s.

March 26d. Readings also at 3h. (Batavia, Baku, Ekaterinburg, Tashkent, and near Ksara), 6h. (near Sebenico), 10h. (La Paz, Manila, and near Ambolna), 15h. (Zagreb and near Toyooka), 16h. (Rocca di Papa and near Berkeley), 17h. (near Tucson), 22h. (near Hukooka), 23h. (near Toyooka).

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March 27d. 5h. 9m. 28s. Epicentre 16°·5N. 89°·5W. (as on 1927 Dec. 27d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Vera Cruz	6·9	294	(1 44)	- 1	—	—	—	(4·7)
Oaxaca	7·0	276	1 25	- 21	—	—	2·7	3·6
Puebla	8·7	288	2 57	+45	5 22	?	5·6	—
Tacubaya	9·7	289	2 2	-24	4 9	-12	4·4	4·7
Guadalajara	14·0	290	3 20	- 6	—	—	(7·4)	7·6
St. Louis	22·2	358	15 6	- 1	e 9 4	- 5	12·2	17·2
Cincinnati	23·0	10	e 5 17	0	e 9 19	- 6	12·1	—
Charlottesville E.	23·6	22	—	—	e 9 42	+ 6	13·5	—
N.	23·6	22	15 21	- 3	e 9 37	+ 1	12·0	—
Georgetown Z.	24·8	23	15 38	+ 2	10 5	+ 6	e 11·6	21·4
Tucson N.	24·9	313	5 38	+ 1	10 10	+ 9	14·8	16·5
Chicago E.	25·3	3	—	—	e 10 10	+ 1	—	—
Ithaca	28·3	20	—	—	e 11 5	+ 1	—	—
Toronto N.	28·4	15	e 9 32?	?	e 10 52	- 14	13·5	19·0
Ottawa	31·1	21	—	—	(e 11 32?)	- 21	14·5	—
La Paz	39·2	147	7 51	+ 3	—	—	22·0	27·3
Sucre	42·8	145	9 19	+62	—	—	24·6	27·8
Scoresby Sund	67·0	20	—	—	—	—	e 33·5	—
Uccle	79·7	40	—	—	—	—	e 35·5	—
De Bilt	79·8	39	—	—	e 27 32?	?SR ₁	e 42·5	48·2
Feldberg N.	82·3	40	—	—	—	—	—	100·9
Strasbourg	82·4	42	—	—	—	—	e 50·5	—
Copenhagen	82·9	34	—	—	—	—	40·5	—
Konigsberg	87·5	33	—	—	—	—	e 64·3	—
Pulkovo	89·6	26	—	—	e 23 53	- 17	45·5	—
Kucino	95·3	27	—	—	—	—	e 45·7	—
Makoyevka	100·3	33	—	—	—	—	e 55·6	—
Ekaterinburg	102·6	17	—	—	—	—	45·0	55·3
Irkutsk	110·2	353	—	—	—	—	e 65·0	—
Tashkent	118·9	18	—	—	e 30 2	?PS	—	63·8

Additional readings and notes: Vera Cruz readings are given for 26d., and have been increased by 3m. Guadalajara L has been diminished by 1m. St. Louis iPR₁N = +5m.31s., iN = +6m.2s., and +6m.57s., iSN = +9m.9s., SR₁N = +10m.6s. Cincinnati eE = +9m.47s., iSR₁E = +10m.29s., iE = +11m.4s. Charlottesville eN = +10m.32s., Georgetown PR₁Z = +6m.13s. Tucson PR₁N = +6m.26s. Ottawa readings are both given as L. Scoresby Sund eE = +24m.32s. ? eLN = +27·5m. Copenhagen +38m.32s. Tashkent e = +36m.32s. = SR₁ + 1s.

March 27d. 8h. 32m. 28s. Epicentre 46°·5N. 13°·0E.

(as on 26d.).

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

The epicentre 46°21'N. 12°59'E. is given by A. Cavasino, see "Il terremoto nelle Prealpi Carniche orientali del 27 Marzo, 1928," in the Bollettino della Società Sismologica Italiana, vol. XXVIII, fasc. 3-4 (1928-1929). The epicentre adopted here is a previously adopted position very close to that quoted.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Treviso	1·0	214	10 18	+ 3	0 28	0	—	—
Venice	1·1	204	10 28	+11	—	—	—	0·7
Innsbruck	1·4	305	10 22	+ 1	—	—	—	0·4
Graz	1·8	71	10 30	+ 2	10 54	+ 3	—	1·0
Zagreb	2·2	108	10 43	+ 9	11 10	+10	—	1·5
Chur	2·4	278	e 0 42	+ 5	11 14	+ 8	—	—
Ravensburg	2·7	289	0 46	+ 4	1 16	+ 2	—	1·7
Vienna	2·9	52	0 47	+ 2	1 27	+ 7	11·6	—
Florence	3·0	206	10 44	- 3	1 43	+20	—	1·9
Zurich	3·2	288	10 52	+ 2	11 41	+13	—	—

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.
Hohenheim	3.4	313	i 0 56	+ 3	1 40	+ 6	—	2.4
Sebenico	3.4	144	e 1 8	+15	i 1 55	+21	—	2.1
Basel	3.8	287	e 1 29	+30	—	—	—	—
Moncalieri	4.0	249	1 5	+ 3	2 19	+29	—	2.6
	4.0	249	1 7	+ 5	2 3	+13	—	—
Z. Strasbourg	4.1	302	i 1 5	+ 1	i 1 55	+ 2	i 2.2	3.5
Neuchatel	4.1	278	i 1 5	+ 1	i 1 56	+ 3	—	—
Budapest	4.3	75	1 6	— 1	—	—	2.2	2.5
Jena	4.5	348	e 1 11	+ 1	e 2 8	+ 4	i 2.5	2.7
Rocca di Papa	4.7	183	e 1 7	- 6	1 52	-17	3.1	4.1
Feldberg	4.8	322	i 1 15	+ 1	i 2 15	+ 4	e 2.6	3.2
Besançon	4.9	280	i 1 15	- 1	2 8	- 6	—	—
Grenoble	5.2	258	i 1 22	+ 2	i 2 28	+ 6	—	3.0
Belgrade	5.5	106	e 1 23	- 2	i 2 56	+25	—	4.0
N. Naples	5.7	171	(e 1 6)	-22	(e 2 22)	-14	—	(4.5)
E. Pompeii	5.8	169	e 2 2	+32	e 2 32	- 7	—	12.5
Potsdam	5.9	0	i 1 49	+18	i 2 51	+10	—	3.2
Marseilles	6.3	242	e 1 45	+ 9	2 38	-14	—	—
Puy de Dôme	7.0	268	e 1 51	+ 5	3 17	+ 7	i 3.7	4.0
Uccle	7.2	310	i 1 46	- 3	13 20	+ 5	i 3.6	4.8
Paris	7.4	292	e 1 54	+ 2	e 3 36	+15	4.1	4.5
Hamburg	7.4	346	e 1 54	+ 2	e 3 19	- 2	—	3.5
De Bilt	7.6	321	—	—	e 3 31	+ 5	e 3.7	6.6
E. Lemberg	8.1	62	e 2 14	+11	e 4 20	+40	—	6.2
N. Lemberg	8.1	62	e 2 14	+11	e 4 2	+22	—	5.8
Copenhagen	9.2	358	e 2 14	- 5	e 3 58	-10	i 4.4	5.5
Lund	9.2	1	2 18	- 1	—	—	—	—
Barcelona	9.3	241	—	—	(e 4 12)	+ 2.	e 4.2	5.9
Konigsberg	9.6	27	e 2 12	-12	4 6	-12	e 4.6	5.5
Bagneres	9.6	253	e 2 29	+ 5	e 4 3	-15	(i 5.2)	—
Kew	10.0	304	i 2 28	- 2	i 4 21	- 8	5.1	6.4
N. Tortosa	10.6	242	e 2 42	+ 4	5 13	+28	6.0	6.4
Oxford	10.7	305	e 2 25	-15	4 32	-16	—	6.5
Algiers	12.2	220	e 2 52	-10	—	—	7.2	8.0
Stonyhurst	12.3	312	2 58	- 5	5 15	-11	6.6	7.9
Bidston	12.4	310	—	—	—	—	—	8.0
Alicante	12.8	235	e 2 46	-24	e 5 42	+ 3	e 7.6	10.3
N. Upsala	13.6	10	e 3 15	- 6	e 6 11	+13	—	9.1
Edinburgh	13.8	319	3 20	- 3	6 18	+15	—	10.0
Z. Toledo	14.0	248	e 3 24	- 2	e 6 27	+19	e 7.0	10.1
Dyce	14.2	325	3 22	- 7	6 18	+ 5	9.9	10.8
Bergen	14.6	345	0 26	-188	e 1 56	?	8.4	—
Almeria	14.9	235	3 33	- 5	16 31	+ 1	8.6	10.8
Yalta	15.0	90	e 3 31	- 8	e 6 26	- 6	e 7.5	—
Granada	15.4	238	i 3 43	- 1	16 45	+ 4	9.1	9.7
Helsingfors	15.4	23	e 3 27	-17	e 6 27	-14	8.0	—
Theodosia	15.5	87	e 3 41	- 5	e 6 41	- 3	e 8.4	11.5
Malaga	16.2	239	3 32	-23	7 2	+ 2	—	—
Pulkovo	16.7	32	i 3 54	- 7	17 13	+ 2	9.0	9.8
Rio Tinto	16.9	246	- 9 32?	!L	—	—	(9.5)	11.5
Makeyevka	17.0	76	e 3 54	-11	7 6	-12	8.2	10.5
San Fernando	17.5	242	4 10	- 1	17 30	+ 1	10.3	12.4
Kucinno	18.0	50	i 4 12	- 5	7 41	+ 1	8.5	12.0
Ksara	21.4	118	4 49	- 9	8 36	-17	—	—
Helwan	21.9	133	4 53	-11	8 54	- 9	—	—
Baku	27.2	90	—	—	10 30	-15	13.8	21.3
Scoresby Sund	29.3	337	—	—	e 10 56	-26	e 14.6	19.9
Ekaterinburg	30.6	53	i 6 15	-19	i 11 18	-26	15.5	19.3
Tashkent	40.0	77	e 7 32	-23	i 13 48	-19	e 19.5	25.1
Irkutsk	55.7	50	—	—	—	—	30.0	35.5
Ottawa	58.2	306	—	—	—	—	e 25.5	34.5
Toronto	61.3	306	—	—	—	—	31.0	—
N. Georgetown	62.9	300	—	—	—	—	e 36.2	—
E. Chicago	67.1	307	—	—	—	—	e 38.2	—
St. Louis	70.8	307	—	—	—	—	e 37.0	40.3

Additional readings: Innsbruck iPNE = +26s. Zagreb i = +44s., iNE = +50s., +54s., +57s., +1m.1s., and +1m.2s., iNW = +52s., +54s., and +55s. Chur iP = +46s. Ravensburg PR₁ = +1m.2s. Vienna P* = +52s., P = +55s., iPR₁ = +57s., iE = +1m.5s., iZ = +1m.6s., iN = +1m.14s., iE = +1m.15s., P₈ = +1m.16s., iPS = +1m.21s., iE = +1m.25s. Hohenheim PR₁ = +1m.7s., PR₂ = +1m.16s., MN = +2.0m. Sebenico eP = +1m.24s., e = +1m.44s. Moncalieri MN = +3.4m. Strasbourg

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iP = +1m.20s., PR₂? = +1m.24s., and +1m.33s. Budapest MN = +3.5m.
 Jena iPZ = +1m.15s., iPE = +1m.23s., iE = +1m.37s., iZ = +1m.40s., iN = +1m.47s., iN = +2m.5s., iZ = +2m.13s., iN = +2m.17s., iN = +2m.21s., iE = +2m.26s., MZ = +2.9m. Rocca di Papa iP = +1m.8s.
 Feldberg iN = +1m.25s., +1m.32s., +1m.39s., +1m.41s., and +2m.1s. Besançon iP = +1m.31s. Grenoble e = +1m.26s., i = +2m.17s., iS = +2m.51s. Naples readings have been reduced by 3m.
 Belgrade iN = +1m.51s. and +2m.19s. Marselles e = +1m.52s., iSR₁ = +3m.34s. Puy de Dôme e = +2m.25s. Uccle e = +3m.9s. Paris e = +2m.31s. De Bilt MZ = +5.2m., MN = +5.7m. Copenhagen eE = +2m.38s., and +3m.41s., MZ = +6.4m. Barcelona MN = +7.0m.
 Königsberg PR₁ = +2m.17s., iE = +2m.42s., i = +2m.54s., iE = +3m.1s., SR₁N = +4m.17s. Bagneres e = +3m.59s., eS = +4m.59s. Kew iSZ = +4m.26s., MNZ = +6.8m. Tortosa LE = +6.5m., ME = +8.2m.
 Upsala ME = +8.2m. Granada PR₁ = +4m.24s., MN = +11.9m., MZ = +13.0m. San Fernando MN = +12.1m. Baku PR₁ = +6m.18s., iSR₁ = +11m.19s. Scoresby Sund MN = +20.2m., eLN = +15.5m.
 Ottawa MN = +33.5m. St. Louis eLN = +36.0m.

March 27d. 14h. 37m. 20s. Epicentre 9°-0S. 115°-0E. (as on 1925 Oct. 23d.).

A = -0.417, B = +0.895, C = -0.156; D = +0.906, E = +0.423;
 G = +0.066, H = -0.142, K = -0.988.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	8.5	288	1 1 59	-10				
Perth	23.0	178	1 5 20	+3	9 35	+10	e 11.3	
Manila	24.3	14	e 5 31	0	(19 58)	+8	i 10.0	
Phu-Lien	30.9	345	e 6 57	+20				
Hong Kong	31.3	359						17.0
Adelaide	33.8	144	e 8 30?	?PR ₃	i 12 6	-32	i 13.6	19.8
Melbourne	39.5	143	1 7 40	-11	i 13 35	-24	20.7	21.7
Zi-ka-wei	40.6	9	i 8 19	+19	16 57	?SR ₁	e 24.4	
Riverview	41.5	134	e 8 0	-7	e 14 35	+7	i 20.2	23.9
Bombay	50.0	306	9 42	+35	16 2	-17	e 24.4	
Irkutsk	61.9	354	1 9 59	-25	17 37	-70	24.9	32.3
Tashkent	65.4	324			i 19 13	-17		41.8
Baku	77.5	316	e 12 12	+8	i 21 44	-11	36.0	
Ekaterinburg	79.3	333	i 12 14	-1	i 21 57	-18	36.7	45.0
Ksara	E. 86.1	306	e 12 42	-12	23 8	[+ 5]		
Makeyevka	88.1	319	e 13 30	+24	i 23 12	[- 4]		
Theodosia	89.1	317	e 13 5	-6	e 23 21	[- 2]		
Kucino	90.3	327	e 13 40	+22	23 28	[- 2]	43.1	52.1
Pulkovo	95.1	330	i 14 2	+18	e 24 50	-17	45.7	
Feldberg	N. 107.5	321			e 27 17	+11	e 44.8	60.9
De Bilt	109.2	323			e 25 40?	[+33]	e 59.7	
Georgetown	Z. 148.2	18	i 19 57	[+ 4]	e 24 28	?		
La Paz	154.3	173	20 9	[+ 8]				

Additional readings and note: Batavia iEZ = +2m.44s., iE = +3m.9s., iN = +5m.9s. Perth iP = +5m.25s. Adelaide MN = +18.7m. Melbourne P and S are given simply as i. Zi-ka-wei eZ = +7m.51s., PR₁ = +10m.3s. Riverview ePR₁? = +9m.57s., ePR₂ = +10m.9s., iP_CS = +14m.6s., i = +14m.57s., SR₁ = +17m.19s., and +17m.29s., MN = +23.8m. Baku i = +12m.39s. Kucino S = +23m.46s. = S - 31s. Feldberg eN = +38m.3s. Georgetown iZ = +20m.32s.

March 27d. 17h. 46m. 20s. Epicentre 84°-0N. 100°-0E. (as on 1923 Nov. 11d.).

A = -0.018, B = +0.103, C = +0.995; D = +0.985, E = +0.174;
 G = -0.173, H = +0.979, K = -0.105.

Very doubtful.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Pulkovo	28.7	260			e 11 40	+28	17.7	21.5
Ekaterinburg	28.8	226	e 6 25	+9	11 28	+15	15.7	21.9
Irkutsk	31.8	175			e 12 2	-3	16.8	21.2
Kucino	31.8	251			e 12 22	+17		21.2
Copenhagen	34.5	276					17.9	25.6
Makeyevka	39.5	248	e 9 44	?PR ₂			23.2	27.6
Tashkent	48.6	214	e 10 7	?PR ₁	e 18 36	?SR ₁	e 20.7	28.4

Copenhagen L = +22.7m.

Tashkent readings are given simply as e.

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March 27d. 19h. 6m. 42s. Epicentre 34°-0S. 57°-0E. (as on March 20d.).

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	i 4 12	+ 3	e 7 33	+ 8	—	7.8
Johannesburg	26.1	280	—	—	11 18?	+ 54	—	—
Cape Town	31.7	262	—	—	i 11 56	- 7	—	—
Entebbe	41.1	321	e 7 56	- 8	14 14	- 8	20.2	23.7
Colombo	46.3	32	16 18?	?S	(16 18?)	+46	22.3	24.3
Kodaikanal	48.3	26	13 54	?S	(13 54)	-124	21.3	22.5
Batavia	53.7	70	i 8 53	-38	i 16 22	-43	—	—
Bombay	55.0	19	9 35	- 4	17 7	-14	26.2	26.6
Adelaide	65.2	116	—	—	—	—	i 28.8	33.6
Helwan	68.3	337	e 11 11	+ 5	20 5	+ 1	—	37.1
Melbourne	68.6	122	i 10 59	- 9	e 20 13	+ 4	31.9	34.7
Ksara	70.6	341	i 11 29	+ 8	20 35	+ 2	33.6	—
Phu-Lien	72.3	49	11 18?	—	—	—	—	—
Baku	74.7	355	i 11 52	+ 5	i 21 23	+ 1	36.6	47.9
Riverview	74.9	121	—	—	—	—	e 36.0	38.4
Sydney	74.9	121	33 18	?	—	—	37.1	39.3
Tashkent	76.1	10	11 56	0	i 21 29	- 9	e 34.3	44.1
Manila	77.8	64	e 11 18?	-48	—	—	—	—
Hong Kong	78.3	53	—	—	—	—	—	53.3
Theodosia	81.4	346	e 12 19	- 8	e 22 33	- 6	—	—
Makeyevka	83.8	349	12 50	+ 9	i 22 55	-12	40.8	45.8
Wellington	85.5	139	—	—	—	—	e 39.6	45.9
Algiers	86.8	320	—	—	—	—	e 47.3	53.3
Zi-ka-wei	89.0	50	e 12 57	-13	e 23 40	-23	46.6	48.4
Vienna	89.8	335	e 13 2	-13	23 57	-15	—	—
Almeria	89.8	318	13 11	- 4	23 37	[+10]	49.4	52.4
Alicante	89.8	320	—	—	—	—	e 49.1	—
Moncalieri	E. 90.7	328	e 14 18?	?	(23 40)	[+ 8]	45.8	57.8
Granada	90.8	317	i 13 12	- 8	e 23 33	[+ 0]	46.8	55.3
Ekaterinburg	90.9	3	13 5	-16	i 24 0	? Σ	43.8	53.9
Innsbruck	N.W. 91.0	331	e 13 19	- 2	—	—	—	—
Tortosa	N. 91.1	321	—	—	—	—	e 46.3	51.8
Kucino	91.2	350	13 15	- 7	24 0	? Σ	44.8	51.7
San Fernando	91.8	315	—	—	49 56	?	55.2	58.4
Toledo	N.W. 92.8	319	—	—	—	—	e 49.1	54.3
Rio Tinto	92.9	316	45 18?	?L	—	—	(45.3)	58.3
Strasbourg	93.5	330	e 13 33	- 2	e 23 58	[+ 9]	e 50.3	—
Feldberg	N. 94.5	331	—	—	e 23 58	[+ 4]	e 53.2	54.2
Irkutsk	95.6	27	—	—	e 24 58	-14	36.2	56.0
Paris	95.9	329	—	—	—	—	e 53.3	64.3
Pulkovo	96.3	348	—	—	i 24 5	[+ 1]	47.3	57.1
Hamburg	96.5	335	—	—	—	—	e 53.3	—
Uccle	96.6	330	—	—	e 24 13	[+ 7]	e 40.3	—
Lund	97.1	339	—	—	24 18	[+10]	—	—
De Bilt	97.3	332	—	—	e 24 15	[+ 6]	e 49.3	61.1
Copenhagen	97.4	338	—	—	e 24 16	[+ 6]	45.3	51.2
Kew	99.1	328	—	—	e 24 27	[+ 8]	52.3	56.3
Upsala	99.3	343	—	—	—	—	54.3	—
Oxford	99.7	328	—	—	—	—	e 52.3	64.1
Sucre	103.6	235	—	—	—	—	51.3	56.0
Dyce	103.9	331	—	—	—	—	50.0	66.5
La Paz	107.4	235	—	—	—	—	54.3	59.4
Scoresby Sund	118.3	338	—	—	23 18?	?PR ₂	59.3	67.9
Ottawa	142.5	302	—	—	e 41 18?	?SR ₁	e 67.3	84.3
Georgetown	Z. 143.1	291	i 19 40	[- 5]	—	—	80.7	82.8
Toronto	145.1	299	—	—	—	—	e 72.8	84.9

Additional readings and notes: Tanananarive iN = +7m.42s., MN = +8.0m, Colombo S = +19m.18s.†; all readings being given only to the nearest minute. Batavia i = +9m.34s. Riverview e = +27m.52s. and +29m.35s., MN = +40.7m. Vienna iPZ = +13m.5s. Almeria PR₁ = +16m.27s. Moncalieri S is given as LE. Granada PR₂ = +16m.42s., iSZ = +23m.39s. Ekaterinburg iS_cP_cS = +23m.34s. = [S] + 1s. Tortosa eLE = +50.3m. Kucino S_cP_cS = +23m.36s. = [S] + 1s. Toledo MNE = +54.2m. Feldberg eN = +24m.43s. = S - 18s., +26m.10s. = PS + 8s., and +31m.32s. = SR₁ + 3s. Irkutsk e = +27m.2s. De Bilt MN = +66.9m., MZ = +69.5m. Copenhagen e = +27m.12s., +28m.24s., and +31m.18s.† Oxford MN = +65.7m. La Paz MN = +60.8m. Scoresby Sund MN = +75.7m. Georgetown eZ = +22m.58s. = PR₁ + 4s., iZ = +27m.41s.

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March 27d. Readings also at 6h. (near Sumoto), 12h. (La Paz and Sucre), 14h. (Copenhagen and near Toyooka), 17h. (near Theodosia (2) and Yalta (2)), 21h. (Tashkent, Copenhagen, Makeyevka, Feldberg, Uccle, Strasbourg, and Scoresby Sund).

March 28d. 11h. 57m. 42s. Epicentre 40°·0N. 47°·0E. (as on 1919 Jan. 8d.).

A = +·523, B = +·560, C = +·643; D = +·731, E = -·682;
G = +·439, H = +·470, K = -·766.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	2·3	80	i 0 54	+18	—	—	1·6	—
Makeyevka	10·3	324	—	—	e 4 0	-37	5·0	—
Ksara	10·8	239	e 2 52	+11	e 6 39	?L	(e 6·6)	—
Kucino	18·8	341	—	—	e 6 54	-19	e 8·3	—
Tashkent	18·9	78	4 3	-1	i 7 20	+4	9·2	11·6
Ekaterinburg	19·0	23	4 22	-7	7 46	-16	9·8	—
Pulkovo	22·3	338	i 5 12	+3	e 9 13	+2	10·3	12·1
Vienna	z.	23·3	301	e 5 41	+21	—	—	—
Irkutsk	40·4	53	—	—	—	—	e 21·3	—

No additional readings.

March 28d. 12h. 23m. 56s. Epicentre 28°·0N. 130°·0E. (as on 1925 Dec. 22d.).

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

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zi-ka-wei	8·1	295	e 2 6	+3	e 3 48	+8	—	6·3
Manila	15·9	214	e 4 4?	+13	—	—	—	—
Phu-Lien	22·5	256	5 4?	—	—	—	—	—
Irkutsk	30·9	330	—	—	e 11 46	-4	16·7	22·0
Tashkent	50·7	303	9 0	-11	—	—	e 26·1	34·3
Ekaterinburg	55·7	323	i 9 44	0	17 39	+9	29·6	37·3
Baku	65·3	305	—	—	—	—	e 39·1	—
Kucino	68·3	324	—	—	—	—	e 23·0	—
Pulkovo	70·7	329	—	—	—	—	e 38·1	47·3
Copenhagen	80·9	330	—	—	—	—	61·1	—
De Bilt	86·6	329	—	—	—	—	e 50·1	57·3
Strasbourg	87·7	325	—	—	—	—	e 56·1	—
Uccle	87·8	329	—	—	—	—	61·1	—
Kew	89·3	332	—	—	—	—	e 58·1	—
Rocca di Papa	89·4	319	—	—	—	—	e 52·2	65·2

Additional readings: Tashkent e = +9m.9s. De Bilt MZ = +57·6m.

March 28d. 14h. 20m. 33s. Epicentre 46°·5N. 13°·0E. (as on March 27d.).

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.
Innsbruck	1·4	305	0 9	-12	(0 33)	-6	0·6	4·6
Zagreb	2·2	108	e 0 50	+16	11 7	+7	—	—
Chur	2·4	278	e 0 38	+1	11 10	+4	—	—
Vienna	z.	2·9	52	11 38	?L	—	(11·6)	—
Zurich	3·2	288	e 0 47	-3	1 35	+7	—	—
Strasbourg	4·1	302	—	—	—	—	e 2·1	—
Neuchatel	4·1	278	e 0 59	-5	e 1 50	-3	—	—

Venice ($\Delta = 1^{\circ}1'$) gives a reading at +8m.27s. Zagreb gives P as e simply.
Chur eP = +4ss.

March 28d. Readings also at 0h. (La Paz and near Batavia), 5h. (near Tananarive), 6h. (Rocca di Papa), 12h. (Nagasaki), 18h. (Ekaterinburg, Tashkent, and near Kobe), 18h. (Irkutsk, Ekaterinburg, and Tashkent); 20h. (St. Louis).

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March 29d. 5h. 5m. 58s. Epicentre 31°·5N. 137°·8E.

A = -·632, B = +·573, C = +·522; D = +·672, E = +·741;
G = -·387, H = +·351, K = -·853.

A depth of focus 0·060 has been assumed; see note at the end.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.		m. s.		m.	m.
Nagoya	+1·0	3·8	350	i 1 18	+ 4	—	—	2·2	2·3
Osaka	+1·0	3·8	330	i 1 19	+ 5	—	—	2·3	3·0
Sumoto	+1·0	3·8	322	i 1 18	+ 4	—	—	2·2	2·3
Kobe	+1·0	3·9	327	i 1 18	+ 2	—	—	2·2	2·4
Toyooka	+0·5	4·8	331	i 1 29	+ 7	(i 2 32)	+ 7	i 2·5	2·6
Matuyama	+0·5	4·9	301	i 1 38	+ 15	—	—	—	3·0
Hukuoka	+0·1	6·6	290	i 1 52	+ 10	(i 3 0)	- 2	i 3·0	3·3
Nagasaki	+0·1	6·8	283	i 1 52	+ 7	(3 15)	+ 8	i 3·2	3·4
Mizusawa	-0·3	8·1	19	2 2	+ 4	3 29	- 2	—	—
Zi-ka-wei	-1·4	14·0	273	i 3 9	+ 2	i 5 39	+ 5	—	8·1
Otomari	-1·7	15·7	12	3 17	- 9	—	—	6·1	6·3
Taihoku	N. -1·7	15·7	250	3 31	+ 5	6 13	+ 5	7·4	9·1
Hong Kong	-2·8	22·9	252	4 40	- 2	9 29	+ 64	10·5	—
Manila	E. -2·8	22·9	226	i 4 36	- 6	i 9 2	+ 37	i 11·0	12·0
	N. -2·8	22·9	226	i 4 36	- 6	i 8 53	+ 28	i 10·8	12·5
Phu Lien	-3·7	29·9	257	i 5 40	- 10	e 10 8	- 18	12·3	17·3
Irkutsk	-3·9	32·0	321	i 5 58	- 11	i 10 40	- 21	12·5	19·0
Calcutta	E. -5·1	44·6	273	7 41	- 10	i 15 59	+ 120	25·6	—
	N. -5·1	44·6	273	7 49	- 2	17 2	+ 5R ₁	—	—
Batavia	-5·3	47·9	225	i 7 14	- 61	i 13 39	- 64	—	—
Dehra Dun	-5·5	50·6	285	10 2	?PR ₁	i 16 44	?PS	22·7	23·3
Tashkent	-5·9	54·6	302	i 8 58	0	i 16 5	+ 3	—	—
Hyderabad	-5·9	55·2	272	i 8 56	- 6	i 16 6	- 4	26·9	35·8
Ekaterinburg	-6·0	57·3	321	—	—	i 16 36	+ 1	27·5	40·6
Honolulu T.H.	E. -6·1	57·8	84	i 9 26	+ 8	e 16 36	- 4	—	—
	N. -6·1	57·8	84	i 9 22	+ 4	e 16 44	+ 4	e 23·7	—
Bombay	-6·2	59·3	276	9 32	+ 5	17 2	+ 5	28·1	35·2
Kodaikanal	-6·2	59·5	265	8 14	- 74	(16 2)	- 58	16·0	17·8
Suva	N. -6·4	63·0	137	i 10 26	+ 36	i 18 2	+ 21	—	—
Adelaide	-6·6	66·4	179	i 10 6	- 5	i 18 23	+ 2	e 25·6	33·2
Riverview	-6·6	66·5	169	e 11 48	+ 37	i 18 33	+ 11	e 29·1	37·6
Sydney	-6·6	66·5	169	e 14 14	—	i 18 32	+ 10	e 21·1	21·8
Baku	-6·7	68·8	307	e 10 31	+ 5	i 19 3	+ 14	—	48·1
Melbourne	-6·8	69·6	174	i 9 7	- 84	i 19 22	+ 24	—	—
Kucino	-6·8	70·2	325	10 28	- 6	i 19 2	+ 4	34·7	40·2
Pulkovo	-6·9	71·3	330	i 10 41	0	i 19 23	+ 5	39·0	46·4
Victoria	E. -6·9	72·4	44	i 10 50	+ 2	19 38	+ 7	27·2	31·4
	N. -6·9	72·4	44	i 10 54	+ 6	i 19 48	+ 17	30·0	30·7
Makeyevka	-6·9	73·1	318	i 10 56	+ 3	i 19 47	+ 7	34·2	45·6
Helsingfors	-6·9	73·2	331	—	—	i 19 50	+ 9	—	—
Spokane	-7·0	76·1	43	i 11 0	- 12	e 20 11	- 4	35·0	—
Theodosia	-7·0	76·1	316	e 11 15	+ 3	—	—	—	—
Upsala	-7·1	76·4	334	e 11 14	+ 1	i 20 19	+ 1	—	50·8
Scoresby Sund	-7·1	77·1	354	e 11 20	+ 3	i 20 34	+ 8	—	—
Yalta	-7·1	77·2	316	e 10 16	- 62	e 19 26	- 61	—	—
Konigsberg	-7·1	78·4	329	i 11 22	- 3	i 20 41	- 1	26·0	45·0
Bergen	-7·2	80·3	340	—	—	i 19 32	- 91	—	—
Wellington	N. -7·2	80·4	152	—	—	i 21 0	- 4	—	—
Lund	-7·2	80·9	333	11 38	- 2	i 21 10	0	26·6	—
Copenhagen	-7·2	81·2	333	i 11 40	- 2	i 21 12	- 2	40·0	45·9
Christchurch	-7·3	81·7	156	—	—	23 29	?PS	26·4	—
Ksara	-7·3	81·7	305	11 45	0	i 21 21	+ 2	34·0	—
Potsdam	-7·3	83·3	330	—	—	i 21 28	- 9	—	52·0
Hamburg	-7·3	83·7	333	i 11 52	- 5	i 21 38	- 4	45·0	53·0
Budapest	-7·4	83·8	324	i 11 53	- 4	i 21 42	- 5	e 43·5	49·0
Vienna	-7·4	84·6	326	e 11 57	- 3	i 21 46	- 9	e 39·0	55·0
Jena	-7·4	85·0	330	e 12 2	- 3	i 21 47	- 9	e 47·0	—
Dyce	-7·4	85·9	340	e 15 28	?PR ₁	21 49	- 8	44·0	—
Garz	-7·4	85·9	325	e 12 5	- 5	e 21 50	- 16	34·0	55·9
Zagreb	-7·4	86·5	324	e 12 8	- 6	e 21 48	- 25	—	45·0
Edinburgh	-7·4	86·6	340	—	—	22 7	- 9	—	—
De Bilt	-7·4	86·8	334	12 9	- 6	i 22 5	- 9	e 41·0	52·3
Feldberg	N. -7·4	86·8	331	e 15 27	?PR ₁	e 21 55	- 21	e 35·3	50·2
Uccle	-7·5	88·1	334	e 13 57	+ 94	e 21 54	- 36	e 35·0	50·5

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.	O-C.	S.		O-C.	L.	M.
						m.	s.			
Strasbourg	-7.5	88.4	330	12 14	-10	21	55	-39	e 35.0	59.8
Chur	-7.5	88.9	329	e 12 19	-8	22	0	-	-	-
Zurich	-7.5	89.0	329	e 12 18	-10	i 22	31	-10	-	-
Tucson	N. -7.5	89-1	53	i 12 26	-2	i 22	16	-26	-	-
Kew	-7.5	89-3	336	i 12 21	-8	i 22	26	-18	45.0	50.8
Oxford	-7.5	89.4	337	-	-	i 22	35	-10	e 47.5	52.6
Neuchâtel	-7.5	89.9	329	e 12 23	-9	22	12	-38	-	-
Besançon	-7.5	90.2	330	-	-	e 22	35	-19	51.0	-
Florence	-7.5	90.4	324	e 18 2?	?PR ₂	23	2?	+6	-	48.0
Paris	-7.5	90.4	333	e 12 29	-6	i 22	42	-14	51.0	60.0
Moncalieri	E. -7.5	91-1	328	12 24	-16	22	57	-8	35.4	52.7
Chicago	E. -7.5	91-1	328	12 24	-16	22	39	-	35.5	59.9
St. Louis	N. -7.6	95-7	33	-	-	i 22	41	-	e 35.7	-
Ottawa	-7.7	97-3	23	e 17 2?	?PR ₁	e 23	21	-45	e 36.0	-
Toronto	-7.8	97-6	26	e 17 2?	?PR ₁	i 23	40	-	e 41.0	-
Tortosa	N. -7.8	97-6	330	-	-	i 23	44	-	40.6	-
Algiers	-7.8	99-7	325	e 17 20	?PR ₁	23	7	-	e 51.0	55.7
Tananarive	-7.8	100.0	255	17 16	?PR ₁	23	5	-	27.0	31.3
Toledo	N.E. -7.8	100.4	331	-	-	23	8	-	-	-
Almeria	-7.8	102.2	330	e 18 2	[+7]	23	13	-	-	59.2
Georgetown	Z. -7.8	102.5	27	i 13 14	-28	-	-	-	e 53.8	73.6
Granada	-7.8	102.5	330	e 13 28	-14	24	55	-8	57.6	59.9
Entebbe	-7.8	103.0	279	e 14 53?	+69	i 23	18	-	-	-
Rio Tinto	-7.8	103.3	331	20 2?	?PR ₁	23	13	-	-	66.0
San Fernando	-7.8	104.2	331	23 13	?[S]	(23 13)	-	-	57.2	64.9
La Paz	-	152-1	64	19 17	[-42]	i 29	7	-	51.0	-
Sucre	-	155-8	64	i 19 24	[-39]	i 29	33	-	-	-
La Plata	-	166-4	109	i 20 30	[+17]	30	21	-	48.0	-
Rio de Janeiro	E. -	171-4	6	e 21 10	-	-	-	-	45.2	-
	N. -	171-4	6	e 21 11	-	30	44	-	44.6	-

Additional readings: Nagoya P = +1m.22s., MZ = +2.4m. Kobe P = +1m.22s. Nagasaki P = +1m.54s., i = +1m.58s., S = +2m.10s., and +2m.26s., i = +2m.40s. Zi-ka-wei MZ = +7.7m. Hong Kong ? = +6m.37s. Phu-Lien e = +6m.57s., MN = +13.0m. Batavia IP = +7m.15s., IZ = +8m.30s., iS = +13m.40s. Ekaterinburg i = +18m.16s. = PS -2s., +19m.8s. = [S] -26s., and +20m.27s. = SR₁ -3s. Adelaide i = +19m.27s., MN = +28.2m. Riverview i = +19m.37s., +19m.43s., and +21m.6s. = Σ -16s., SR₁? = +22m.12s., i = +22m.29s. and +28m.26s., MN = +33.2m. Melbourne i = +10m.0s., +11m.57s., and +16m.2s.; all readings are given simply as i. Helsingfors e = +14m.38s., SR₁ = +24m.40s. Spokane eN = +17m.34s., +19m.6s., +23m.2s., +27m.2s., and +30m.2s. Upsala MN = +51.2m. Scoresby Sund eN = +12m.51s., eE = +23m.22s. Konigsberg IZ = +11m.50s., +13m.6s., and +14m.5s. = PR₁ -32s., +21m.40s., and +23m.32s., also three Z readings earlier than P. Wellington iE = +21m.1s. Copenhagen eZ = +12m.6s., +13m.16s., and +17m.16s. = PR₁ -16s., eE = +13m.26s., iSE = +21m.13s., eEN = +23m.44s. = PS +23s., SR₁ = +26m.20s., MN = +46.4m. Hamburg iPSE = +22m.8s., eSR₁E = +27m.17s., MN = +46.0m., MZ = +55.0m. Budapest MN = +48.5m. Vienna iPZ = +11m.59s., i = +13m.41s., PR₁ = +15m.23s., PR₂ = +17m.16s., eS = +21m.40s., PS = +22m.25s., iEZ = +24m.35s., iE = +25m.41s., SR₁ = +27m.13s., iEN = +29m.51s., SR₂ = +31m.6s., iE = +34m.37s. Jena eEZ = +13m.32s., eE = +13m.38s., iSEN = +21m.51s., eN = +23m.44s. = Σ +20s. Dyce e = +24m.42s. = PS +34s., SR₁ = +27m.42s., e = +34m.35s. Graz i = +24m.43s. = PS +25s. Edinburgh i = +28m.2s. = SR₁ +2s. De Bilt eZ = +13m.45s., eEN = +24m.49s. = PS +21s., and +28m.12s. = SR₁ -8s., MN = +57.4m., MZ = +58.2m.; epicentre 37°2'N. 135°7'E. Feldberg eN = +16m.56s., +20m.54s., +23m.10s. = [S] +2s., +24m.3s., +27m.54s. = SR₁ -10s., +30m.15s., +31m.43s. = SR₂ +9s., and +34m.52s. Uccle e = +17m.20s. = PR₁ -33s., SR₁ = +25m.6s., MN = +50.7m. Strasbourg iPS = +23m.27s. = [S] +9s., iSR₁? = +25m.6s. Tucson eN = +16m.1s. = PR₁ -1s.; readings are given for 3h. Kew iSR₁ = +25m.24s., iSR₂ = +28m.38s. = SR₁ -2s., MN = +54.7m. Oxford SR₁ = +28m.56s., MN = +61.8m. Besançon SR₁ = +28m.54s. Paris SR₁ = +28m.49s. Moncalieri (second line) MN = +59.6m. Chicago eN = +25m.30s. St. Louis iN = +12m.56s., +14m.33s., +16m.53s. = PR₁ -8s., +16m.58s. = PR₁ -3s., +18m.14s., and +19m.6s. = PR₂ -11s., eN = +22m.49s., iN = +22m.50s., +23m.44s., +25m.6s., eN = +25m.40s., +26m.32s. = PS +3s., and +27m.33s. Ottawa i = +22m.50s., e = +25m.8s. = PS +18s., iN = +27m.48s., eL? = +33.0m. Toronto iN = +22m.46s., LE = +33.2m.

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Tortosa readings have been increased by 1h. Algiers MN = +36.1m.
 Tananarive e = +25m.35s. and +26m.32s. Toledo MNW = +58.1m.
 Georgetown PR, Z = +17m.48s., iZ = +20m.0s. = PR, -9s. Granada
 PR, = +17m.43s., SPS = +23m.19s., G = +49m.14s. San Fernando
 PR, = +27m.21s., SR, = +42m.12s., SR, = +45m.58s., SR, = +49m.33s.,
 MN = +67.7m. La Paz iSE = +29m.14s., PSE = +30m.19s.
 Sucre iPR, = +23m.20s.

NOTE TO THE ABOVE SHOCK.

Using the epicentre 32°0N. 139°0E. of 1927 Aug. 24d., and the T₁ as adopted, we have the following equation for stations grouped according to azimuth.

Group.	No. of Stns. Az.	Equation	Residuals in Δ		Residuals Calculated	Diffs.
			(1) O-C	(2)		
American	3 43	+ .68x + .73y	-6.0	+0.8	+1.1	-0.3
Honolulu T.H.	1 85	+ .09x + 1.00y	-4.5	+1.5	+0.6	+0.9
Australia	3 170	+ .17x - .98y	-7.1	-0.3	-0.3	0.0
India and China	5 265	-1.00x - .09y	-4.8	-1.0	-1.0	0.0
Japan	6 310	- .77x + .64y	+0.6	-0.1	-0.5	+0.4
Europe	20 325	- .57x + .82y	-6.9	-0.2	-0.2	0.0

Residuals (1) are the differences between the Δs given by the P and S observations and those calculated for the epicentre. Residuals (2) are the same when a correction for depth of focus 0.060 has been applied. Solving the equations for the corrected residuals we have

$$x = +1^{\circ}.0$$

$$y = +0^{\circ}.5$$

Substituting these in the equations we obtain the column "Residuals calculated" and the differences between the original residuals (2) and these are given in the last column.

The resulting epicentre is that given
 31°5N. 137°8E.

March 29d. 14h. 52m. 33s. Epicentre 46°5N. 13°0E. (as on 28d.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Venice	1.1	204	e 0 27	+10	—	—	—	0.7
Innsbruck	1.4	305	e 0 21	0	(0 39)	0	0.6	—
Zagreb	2.2	108	e 0 34	0	1 0 51	- 9	1 1.1	—
Chur	2.4	278	e 0 37	0	1 1 11	+ 5	—	—
Ravensburg	2.7	299	—	—	(e 1 15)	+ 1	e 1.2	1.6
Vienna	2.9	52	0 52	+ 7	1 20	0	—	1.7
Zurich	3.2	288	1 0 46	- 4	1 36	+ 8	—	—
Strasbourg	4.1	302	e 1 0	- 4	e 1 48	- 5	—	—
Neuchatel	4.1	278	1 1 0	- 4	e 1 50	- 3	—	—

Additional readings: Zagreb eNW = +40s. Vienna P₂S = +1m.10s.
 Strasbourg P₁ = +1m.10s., iSR₁ = +2m.14s.

March 29d. 15h. 25m. 18s. Epicentre 46°5N. 13°0E. (as at 14h.).

	Δ	P.	O-C.	S.	O-C.
	°	m. s.	s.	m. s.	s.
Zagreb	2.2	e 0 53	+19	e 1 11	+11
Chur	2.4	1 0 35	- 2	1 6	0
Zurich	3.2	1 0 47	- 3	1 35	+ 7

Zagreb readings are given as eNE and eNW respectively.

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March 29d. 19h. 19m. 6s. Epicentre 20°·6S. 168°·8E. (as on 1926 Oct. 7d.).

$$A = -\cdot 918, B = +\cdot 182, C = -\cdot 352; \quad D = +\cdot 194, E = +\cdot 981; \\ G = +\cdot 345, H = -\cdot 068, K = -\cdot 936.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Riverview	20·5	226	e 4 54	+ 7	e 8 50	+16	e 10·9	12·6
Wellington	E. 21·3	168	i 4 50	- 7	i 8 25	-25	10·2	—
	N. 21·3	168	i 4 54	- 3	i 8 51	+ 1	10·5	—
Melbourne	26·8	225	—	—	e 10 36	- 1	—	15·3
Adelaide	30·1	235	—	—	—	—	e 16·9	19·2
Tashkent	110·4	308	—	—	e 29 1	?PS	—	65·2
Ekaterinburg	117·0	324	—	—	—	—	61·9	—
San Fernando	E. 163·6	346	—	—	—	—	—	109·6

San Fernando gives also MN = +108·4m.

March 29d. Readings also at 2h. (Nagasaki), 3h. (near Toyooka), 6h. (near Tacubaya, near Osaka, and Sumoto), 13h. (near Manila, near Oaxaca, and Tacubaya), 18h. (near Nagasaki), 19h. (near Algiers), 22h. (La Paz).

March 30d. 1h. 1m. 18s. Epicentre 42°·0N. 72°·5E.

$$A = +\cdot 223, B = +\cdot 709, C = +\cdot 669; \quad D = +\cdot 954, E = -\cdot 301; \\ G = +\cdot 201, H = +\cdot 638, K = -\cdot 743.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Tashkent	2·5	254	i 0 41	+ 2	i 1 9	0	—	—
Ekaterinburg	16·7	337	4 1	0	7 10	- 1	e 8·2	—
Baku	17·1	272	e 4 8	+ 2	—	—	i 12·3	—
Irkutsk	23·7	53	—	—	—	—	13·7	17·8
Makeyevka	24·9	296	—	—	e 10 12	+11	e 16·1	—
Kucino	26·2	314	—	—	e 10 42	+16	15·7	19·4
Pulkovo	31·2	319	e 6 28	-12	e 11 29	-25	21·7	25·5
Copenhagen	40·4	311	—	—	—	—	e 24·7	29·8
De Bilt	45·3	307	—	—	—	—	—	—

Additional readings: Baku e = +10m.9s. Irkutsk e = +14m.14 s., L = +14·6m. Kucino e = +14m.12s. Copenhagen +16m.42s. ? = SR₁ -12s. MN = +23·2m.

March 30d. 9h. 38m. 57s. Epicentre 44°·5N. 26°·5E.

$$A = +\cdot 638, B = +\cdot 318, C = +\cdot 701; \quad D = +\cdot 446, E = -\cdot 895; \\ G = +\cdot 627, H = +\cdot 313, K = -\cdot 713.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Belgrade	N. 4·3	276	e 1 5	- 2	e 1 58	0	i 2·2	—
Yalta	5·5	87	1 27	+ 2	(e 2 28)	- 3	e 2·5	—
Budapest	5·9	303	e 1 33	+ 2	—	—	—	3·0
Theodosia	6·2	82	e 1 38	+ 3	2 50	+ 1	3·2	3·2
Vienna	Z. 7·9	302	i 1 57	- 3	—	—	—	—
Makeyevka	8·7	62	—	—	e 3 27	-29	—	—
Pulkovo	15·4	7	3 12	-32	—	—	—	—
Baku	17·7	95	—	—	e 7 30	- 3	—	—
Ekaterinburg	24·5	48	—	—	e 9 34	-20	e 10·1	—
Tashkent	31·1	81	—	—	e 12 3	+10	—	20·4

Belgrade gives also iN = +2m.30s., +2m.44s., and +2m.58s.

March 30d. Readings also at 1h. (Feldberg, Strasbourg, Chur, near Neuchatel, and Zurich), 2h. (near Ksara), 9h. (La Paz), 16h. (Melbourne), 21h. (Zi-ka-wel), 22h. (Sucre).

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March 31d. 0h. 29m. 42s. Epicentre 38°-5N. 28°-0E.

A = +.691, B = +.367, C = +.622; D = +.469, E = -.883;
G = +.550, H = +.292, K = -.783.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
				m. s.	s.	m. s.	s.	m.	m.
Yalta		7.6	36	e 2 5	+10	3 32	+ 6	5.1	7.4
Ksara	N.	7.9	123	2 3	+ 3	3 38	+ 4	4.4	—
Theodosia		8.5	37	e 2 19	+10	3 59	+ 9	—	8.6
Belgrade		8.5	321	e 3 9	+60	1 5 11	?	—	5.8
Mostar	N.	9.0	306	2 41	+25	4 33	?L	(4.6)	5.9
Helwan		9.1	161	2 12	- 6	1 3 50	-16	—	9.7
Pompeii		10.6	287	i 2 39	+ 1	e 5 9	?L	(e 5.2)	8.3
Naples	N.	10.8	287	e 2 40	- 1	e 4 40	-10	—	8.3
Budapest		11.1	327	2 47	+ 1	—	—	5.4	9.3
Zagreb		11.5	313	i 2 53	+ 1	—	—	i 6.1	6.4
Lemberg	E.	11.7	347	e 2 54	- 1	e 5 18	+ 6	—	8.2
	N.	11.7	347	e 2 48	- 7	e 5 36	+ 24	—	7.4
Makeyevka		12.0	34	i 3 12	+13	1 5 52	+33	7.1	12.6
Rocca di Papa		12.1	291	i 2 59	- 1	1 5 19	- 2	i 7.5	8.5
Graz		12.5	317	i 3 19	+ 3	1 5 45	+13	—	7.6
Laibach		12.5	312	e 3 7	+ 1	e 5 23	- 9	6.3	7.0
Vienna		12.9	323	e 3 9	- 3	e 5 30	-12	i 7.0	7.8
Venice		13.5	306	e 3 20	0	—	—	—	8.1
Florence		13.6	298	3 20	- 1	5 50	- 8	—	8.0
Innsbruck		15.0	312	e 3 30	- 9	6 12	-20	8.5	8.9
Chur		15.9	307	e 3 52	+ 1	7 2	+ 9	—	—
Ravensburg		16.3	311	4 2	+ 6	7 10	+ 8	8.3	10.8
Moncalleri		16.4	300	e 3 59	+ 2	6 55	- 9	8.3	12.3
	Z.	16.4	300	3 57	0	8 0	+56	9.5	—
Zurich		16.7	308	e 3 59	- 2	i 7 15	+ 4	—	—
Rochheim		16.9	313	4 8	+ 4	7 17	+ 1	e 8.3	11.6
Jena	E.	16.9	322	e 4 8	+ 4	i 7 25	+ 9	e 8.3	9.8
	N.	16.9	322	e 4 11	+ 7	i 7 26	+10	e 8.3	10.8
Baku		17.0	77	i 4 15	+10	i 7 42	+24	10.3	13.1
Konigsberg		17.1	345	i 4 6	0	e 7 18	- 2	9.5	10.3
Potsdam		17.3	328	i 4 13	+ 4	i 7 34	+ 9	—	10.3
Neuchatel		17.5	305	i 4 11	0	i 7 18	- 11	—	—
Marselles		17.7	293	e 4 51	+38	8 12	+39	10.3	—
Strasbourg		17.7	311	e 4 12	- 1	i 7 34	+ 1	8.8	13.1
Grenoble		17.8	299	e 4 6	- 9	e 7 24	-12	e 8.3	—
Feldberg	E.	18.1	317	i 4 21	+ 3	i 7 49	+ 7	e 9.3	11.0
	N.	18.1	317	i 4 20	+ 2	i 7 48	+ 6	i 8.7	11.0
Besançon		18.2	306	4 19	0	7 45	+ 1	9.9	—
Kucino		18.5	17	i 4 18	- 5	7 54	+ 3	8.9	13.9
Hamburg		19.5	327	i 4 35	0	i 8 12	- 1	e 10.6	12.3
Algiers		19.7	273	i 4 33	- 4	i 8 10	- 7	11.3	18.3
Puy de Dôme		19.8	300	i 4 39	0	8 29	+10	10.3	14.0
Lund		19.8	335	4 39	0	i 8 19	0	—	—
Barcelona		19.9	287	4 34	- 6	8 13	- 8	10.1	13.5
Copenhagen		20.1	334	i 4 42	0	i 8 25	0	10.3	13.8
Uccle		20.7	314	e 4 47	- 2	i 8 37	- 1	9.3	13.6
De Bilt		20.9	318	i 4 53	+ 1	i 8 44	+ 2	9.3	12.3
Paris		21.0	308	i 4 53	0	e 8 45	+ 1	11.3	12.3
Tortosa	E.	21.2	285	i 4 50	- 5	8 45	- 5	—	17.1
	N.	21.2	285	i 4 48	- 7	8 43	- 3	9.4	14.4
Bagneres		21.3	291	i 4 56	- 1	(8 47)	- 3	—	8.8
Pulkovo		21.3	3	1 4 55	- 2	i 8 48	- 2	11.3	14.5
Helsingfors		21.7	356	1 5 8	+ 5	i 9 8	+ 9	10.7	—
Alicante		22.2	279	4 40	-27	i 9 40	-29	12.3	17.5
Upsala		22.3	346	5 9	0	i 9 10	- 1	e 11.3	13.7
Kew		23.6	313	1 5 20	- 8	i 9 33	- 3	11.1	15.4
Almeria		24.0	276	1 5 20	- 8	i 9 32	-12	11.7	12.0
Oxford		24.3	313	1 5 26	- 6	i 9 40	-10	11.3	16.0
Toledo		24.7	283	e 5 25	-10	i 9 48	-11	e 11.4	18.5
Granada		24.8	277	1 5 29	- 7	e 9 48	-11	12.5	15.8
Malaga		25.6	276	1 5 35	- 9	10 6	- 8	15.0	—
Bidston		25.9	315	7 46	- 1	10 6	- 8	12.4	14.9
Bergen		26.1	334	5 18	-31	10 18	- 6	14.4	—
Edinburgh		27.0	320	5 53	- 5	10 49	+ 8	13.3	16.1
San Fernando		27.0	276	5 48	-10	10 25	-16	12.1	19.6

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.
Rio Tinto	27.0	279						14.3
Dyce	27.1	323			10 54	+11	13.3	18.6
Ekaterinburg	28.2	39	16 5	- 5	1 10 55	- 8	14.3	22.3
Tashkent	31.5	71	16 34	- 9	1 11 39	-21	17.3	21.1
Entebbe	38.6	175	e 7 22	-21	13 9	-37	19.2	22.2
Reykjavik	38.8	329					e 21.6	23.9
Scoresby Sund	41.0	338	7 57	- 6	14 9	-12	21.3	24.2
Bombay	43.4	104	8 12	- 9	14 49	- 5	22.8	29.3
Kodaikanal	52.3	110	18 12	?S	(18 12)	+24	29.3	38.9
Irkutsk	52.7	49	9 28	+ 4	17 6	+14	25.3	36.3
Tananarive	60.2	159			e 18 30	+ 4	e 25.5	37.3
Johannesburg	64.6	180					35.3	—
Phu-Lien	68.6	80	e 11 14	+ 6	e 20 18	+ 9	e 30.3	36.8
Ottawa	71.9	314			1 20 52	+ 3	—	40.3
Cape Town	72.9	188					—	45.8
Hong Kong	73.5	75					—	—
Zi-ka-wei	73.6	63	e 11 45	+ 5	e 29 51	?SR ₂	47.3	50.7
Ithaca	74.0	313			e 21 13?	+ 4	36.3	—
Toronto	N.	74.9	315		e 21 29	+ 4	e 33.8	38.7
Georgetown	Z.	76.5	310	1 12 5	+ 7	e 21 53	+10	e 35.9
Chicago	E.	80.6	317		e 22 43	+13	36.6	40.9
	N.	80.6	317		i 22 34	+ 4	e 35.5	41.4
Cincinnati		80.8	315		e 22 32	- 1	e 36.5	40.3
St. Louis	E.	84.3	316	e 12 44	0	e 23 5	- 6	e 36.9
	N.	84.3	316	e 12 43	- 1	e 23 5	- 6	e 36.4
Victoria	E.	89.5	341		24 8?	- 1	41.4	47.9
Berkeley	E.	98.9	338				e 58.6	—
Tucson	E.	99.6	326				46.5	—
Sucre		104.2	258	e 18 8	[+ 6]		53.3	68.8
La Paz		104.9	262	e 17 48	[-16]	29 25	?	56.3
Riverview		134.6	102				e 60.4	77.8

Additional readings: Belgrade iPN = +3m.21s., iN = +3m.44s., +4m.21s., and +5m.23s. Mostar i = +2m.44s. Budapest MN = +6.8m. Rocca di Papa PR₁ = +3m.51s. Graz MN = +7.4m. Vienna iPZ = +3m.15s., iN = +3m.36s., PR₁ = +4m.3s., iZ = +4m.32s., iE = +4m.40s., iN = +4m.45s. P₂S = +4m.55s., iE = +5m.5s., iZ = +5m.24s., PS₂ = +5m.43s., iN₂ = +6m.6s., iE = +6m.10s., iEN = +6m.32s. Innsbruck iPR₁NW = +3m.41s., iNE = +3m.47s., SR₁NE? = +6m.39s., MNW = +9.9m.; epicentre 37°5N. 28°0E. Jena PE = +4m.14s., PEN = +4m.15s., iPSE = +7m.47s., and +8m.9s. Konigsberg iPE = +4m.12s. = P + 6s., iPN = +4m.27s., iZ = +4m.29s., and +4m.34s., iE = +4m.50s., and +5m.24s., eE = +5m.52s., and +6m.45s., iZ = +7m.26s., iE = +7m.36s., iZ = +8m.25s., iE = +8m.28s. Potsdam MN = +11.3m. Marselles eP = +4m.56s. Strasbourg MN = +10.7m. Grenoble S = +7m.28s. Feldberg ePN = +4m.23s., iE = +4m.33s., and +5m.4s., eN = +5m.48s., and +7m.32s. Hamburg iSE = +8m.14s., MN = +11.3m., MZ = +13.3m. Algiers MN = +14.6m. Barcelona SR₁ = +8m.47s., MN = +13.6m. Copenhagen eN = +6m.8s., iZ = +8m.32s., MN = +14.8m., MZ = +15.0m. Uccle MN = +12.2m. De Bilt MN = +12.4m., MZ = +12.8m. Bagneres P = +4m.58s., S = +13m.14s., L = +15.0m. Alicante MN = +21.0m. Kew iN = +10m.39s. = SR₁ + 11s., iE = +10m.52s. = SR₁ + 8s., LZ = +13.6m., MN = +13.8m. Almeria i = +6m.33s., MZ = +18.7m. Oxford i = +5m.46s., +6m.26s., and +6m.52s., MN = +14.3m. Toledo iP = +5m.27s., MNW = +16.6m., MZ = +17.8m. Granada i = +6m.21s., iSZ = +9m.56s. San Fernando MN = +17.6m. Dyce PR₁ = +6m.38s. Reykjavik MN = +23.6m. Scoresby Sund PR₁ = +9m.31s., eSR₁N = +17m.4s., eSR₁E = +17m.24s., SR₂ = +17m.53s., eE = +18m.44s. = SR₂ + 20s., MN = +25.9m. Zi-ka-wei PR₁ = +16m.29s. = PR₂ - 11s. Toronto ME = +44.4m. Georgetown PR₁Z = +14m.49s. St. Louis iPE = +12m.46s., iPN = +12m.48s., eSN = +23m.9s., eSR₁E = +28m.53s., eSR₁? = +32m.52s. Berkeley eG?E = +48m.54s.? eG?N = +50m.18s.?, eLZ = +58.7m., eLN = +58.9m. Tucson LN = +47.6m. La Paz MN = +56.3m.

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March 31d. 5h. 12m. 24s. Epicentre 38°·5N. 28°·0E. (as at 0h.).

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Yalta	7·6	36	e 2 7	+12	e 2 34	-52	—	—
Theodosia	8·5	37	e 2 4	-5	—	—	—	—
Belgrade	N. 8·5	321	e 2 42	+33	—	—	i 4·6	—
Pompeii	10·6	287	e 2 42	+4	e 6 27	?L	(e 6·4)	—
Budapest	11·1	327	—	—	—	—	e 5·6	—
Makeyevka	12·0	34	—	—	—	—	7·0	11·2
Rocca di Papa	12·1	291	—	—	e 4 38	-43	e 8·3	8·7
Graz	12·5	317	—	—	—	—	e 16·6	—
Vienna	12·9	323	3 3	-9	—	—	i 7·3	8·1
Venice	13·5	306	e 6 6	?S	(e 6 6)	+10	—	—
Florence	13·6	298	e 5 6	?	—	—	—	8·6
Jena	N. 16·9	322	—	—	—	—	e 9·6	11·1
Baku	17·0	77	e 4 11	+6	e 8 13	+55	11·1	—
Strasbourg	17·7	311	e 4 9	-4	—	—	e 10·1	—
Feldberg	N. 18·1	317	—	—	—	—	e 8·7	10·6
Kucino	18·5	17	i 4 23	0	7 57	+6	9·8	11·8
Hamburg	19·5	327	—	—	—	—	e 10·6	—
Copenhagen	20·1	334	—	—	(8 36†)	+11	8·6	13·6
Uccle	20·7	314	e 4 42	-7	—	—	e 10·6	—
De Bilt	20·9	318	—	—	—	—	e 10·6	12·2
Paris	21·0	308	—	—	—	—	e 11·7	—
Pulkovo	21·3	3	i 4 52	-5	8 50	0	10·6	13·3
Kew	23·6	313	—	—	e 9 33	-3	12·2	13·4
Edinburgh	27·0	320	—	—	—	—	e 15·6	—
Tashkent	31·5	71	—	—	e 11 36	-24	e 15·6	20·6
Irkutsk	52·7	49	—	—	—	—	e 30·6	—

Additional readings : Belgrade eN = +2m.58s., iN = +4m.43s., and +4m.50s.
De Bilt MZ = +14·2m. Tashkent e = +14m.40s.; the S is given simply as "e."

March 31d. Readings also at 0h. (La Paz and Georgetown), 2h. (Mizusawa), 4h. (Naples), 5h. (near Sumoto), 7h. (Irkutsk), 8h. (Tashkent), 13h. (Tananarive), 14h. (Ekaterinburg and Tashkent), 16h. (near Toyooka), 17h. (Ekaterinburg, Makeyevka, Pulkovo, and Tashkent, and Zi-ka-wel), 22h. (Florence).