

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

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**The International
Seismological Summary.
1936 July, August, September.**

**FORMERLY THE BULLETIN OF THE
BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.**

This number of the Summary contains determination of epicentre for 129 Earthquakes, classified as follows :—

N. ₁ — 6	R. ₁ —13	X—38
N. ₂ — 5	R. ₂ —15	
N. ₃ —26	R. ₃ —26	

Two cases of deep focus have been noted :—

July	5d.	Epicentre 5°·9N. 126°·8E. ; depth assumed 0·015.
Sept.	9d.	Epicentre 4°·8S. 128°·4E. ; depth assumed 0·015.

**KEW OBSERVATORY,
RICHMOND,
SURREY.**

18th August, 1947.

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1936 JULY, AUGUST, SEPTEMBER.

July 1d. 8h. 43m. 44s. Epicentre 38°·0N. 123°·3E. N.3.
(as given by report of Weather Bureau of Tyosen).

$$A = -.4326, B = +.6586, C = +.6157; \quad \delta = -2;$$

$$D = +.836, E = +.549; \quad G = -.338, H = +.515, K = -.788.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Heizyo	2.2	62	i 0 29k	- 2	i 0 57	0	—	—
Zinsen	2.8	101	i 0 40k	0	i 1 14	+ 2	—	1.4
Keizyo	2.9	99	e 0 44	+ 3	e 1 21	+ 7	—	—
Taikyu	4.7	115	e 1 18	+11	e 2 17	+17	—	—
Husan	5.4	120	—	—	2 40	+22	3.3	—
Chiufeng	5.9	293	—	—	e 2 37	+ 6	—	—
Nanking	E. 7.0	214	e 1 40	+ 1	—	—	—	—
Hukuoka B	7.2	125	e 3 34	S*	4 0	S _g	—	—
Vladivostok	8.3	49	e 4 9	S*	e 4 44	S _g	5.0	5.9

Additional readings:—

Zinsen iSZ = +1m.18s., iSE = +1m.21s. = S* - 1s.

Nanking eE = +3m.26s. = S* + 0s.

Chiufeng e = +3m.9s. = S_g + 0s.

Long waves were also recorded at Sverdlovsk, Tashkent, and Stuttgart.

July 1d. 12h. 0m. 26d. I } Epicentre 41°·8N. 123°·0W. X.
12h. 2m. 42s. II } (as on 1931 Sept. 2d.) X.
12h. 56m. 50s. III } X.

$$A = -.4060, B = -.6252, C = +.6665; \quad \delta = -7;$$

$$D = -.839, E = +.545; \quad G = -.363, H = -.559, K = -.745.$$

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
I Ukiah	2.7	184	e 0 47	P _g	—	—
II	2.7	184	—	—	e 1 28	S _g
III	2.7	184	—	—	e 1 16	S*
I Berkeley	4.0	172	e 0 59	+ 2	i 1 33	- 9
II	4.0	172	i 0 57	0	e 1 28	-14
III	4.0	172	e 0 57	0	e 1 30	-12
I San Francisco	4.1	172	e 1 1	+ 3	e 1 26	-19
II	4.1	172	e 0 58	0	e 1 19	-26
III	4.1	172	e 1 0	+ 2	e 1 33	-12
I Branner	4.4	171	e 1 6	+ 3	e 1 43	-10
II	4.4	171	e 1 4	+ 1	e 1 40	-13
I Lick	4.6	166	e 1 7	+ 1	e 1 46	-12
II	4.6	166	e 1 5	- 1	e 1 45	-13
III	4.6	166	e 1 4	- 2	e 1 44	-14
I Fresno	N. 5.6	153	e 1 21	+ 1	i 2 18	- 5
II	N. 5.6	153	e 1 18	- 2	e 2 8	-15
III	N. 5.6	153	e 1 22	+ 2	e 2 11	-12
I Tinemaha	z. 6.0	141	i 1 34	+ 9	—	—
III	6.0	141	i 1 27	+ 2	i 2 24	- 9
I Haiwee	z. 6.8	144	e 1 48	+11	e 2 54	+ 1
II	6.8	144	—	—	i 2 50	- 3
III	6.8	144	—	—	i 2 54	+ 1
III Mount Wilson	z. 8.6	151	e 2 1	- 1	—	—
I Pasadena	z. 8.6	152	e 1 59	- 3	e 3 49	+10
II	z. 8.6	152	—	—	e 3 39	0
III	8.6	152	e 1 58	- 4	i 3 38	- 1
III Riverside	z. 8.9	149	—	—	e 4 0	+14

Additional readings:—

Berkeley II eZ = +1m.31s.

Branner I eN = +1m.46s.

Lick I eSE = +1m.50s., III eE = +1m.10s.

Fresno I eSN = +2m.11s., III iPN = +1m.25s., iSN = +2m.16s.

Pasadena II iS = +2m.28s.

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July 1d. 21h. 32m. 6s. Epicentre 47°·4N. 9°·5E. (as on 1932 July 8d.). X.

$$A = +.6676, B = +.1117, C = +.7361; \quad \delta = +1;$$

$$D = +.165, E = -.986; \quad G = +.726, H = +.121, K = -.677.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ravensburg	0.4	12	e 0 3	- 3	i 0 7	- 3	—	—
Chur	0.6	177	e 0 11k	+ 2	0 20	+ 5	—	—
Zurich	0.6	267	i 0 9	0	i 0 16	+ 1	—	—
Ebingen	0.9	335	e 0 11	- 2	e 0 20	- 3	—	—
Basle	1.3	276	i 0 21	+ 3	i 0 38	+ 5	—	—
Stuttgart	1.4	352	e 0 20	0	i 0 37	+ 1	—	—
Strasbourg	1.7	315	e 0 36	+12	i 0 46	+ 2	—	—
Neuchatel	1.8	257	e 0 27	+ 1	i 0 54	+ 8	—	—
Triest	3.4	121	e 1 14	+25	1 48	+21	—	—
Jena	3.8	21	e 1 12	+18	e 1 36	- 1	i 1.9	2.0
Göttingen	4.2	4	e 1 14	+14	i 2 5	+17	—	—
Uccle	4.8	317	—	—	e 2 30	S _g	—	—

Additional readings:—

Ravensburg iE = +9s.

Chur i = +14s. = S_g + 0s.

Ebingen e = +23s.

Stuttgart eN = +22s. = P_g + 0s., e = +35s., iN = +38s.

Neuchatel iP_g = +30s.

Jena eN = +1m.48s. = S* - 3s.

Göttingen iN = +2m.10s.

Long waves were also recorded at Vienna.

July 1d. Readings also at 0h. (Tashkent, near Samarkand (2), and near Tiflis), 5h. (near Santiago), 9h. (La Paz and Piatigorsk), 12h. (Toledo), 15h. (Simferopol, Tiflis, Oak Ridge, Ksara, near Fresno, and near Samarkand), 16h. (Agra, Chiufeng, Nanking, Ksara, Samarkand, Tashkent, Tiflis, Stuttgart, and near Calcutta), 17h. (Bombay, Copenhagen, and Sverdlovsk), 19h. (Drome), 22h. (Santiago and San Javier).

July 2d. 0h. 46m. 55s. Epicentre 33°·6N. 134°·5E. (as on 1935 Nov. 18d.). R.3.

$$A = -.5838, B = +.5941, C = +.5534; \quad \delta = +3.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Sumoto	0.8	23	i 0 13k	+ 2	i 0 22	+ 1	0.4
Kobe	1.2	28	i 0 18k	+ 1	i 0 31	0	0.5
Toyooka	2.0	8	e 0 28	- 1	0 52	+ 1	0.9
Nagoya	2.6	52	0 35	- 2	1 2	- 5	—

Additional readings:—

Kobe iZ = +28s.

July 2d. 6h. 20m. 52s. I } Epicentre 41°·8N. 123°·0E. X.
7h. 9m. 40s. II } (as on 1d.) X.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
I Ukiah	2.7	184	—	—	e 1 14	+ 5
I Berkeley	4.0	172	e 0 54	- 3	e 1 26	-16
II	4.0	172	e 0 55	- 2	e 1 27	-15
I Branner	4.4	171	e 1 1	- 2	e 1 36	-17
II	4.4	171	e 1 4	+ 1	e 1 39	-14
I Lick	4.6	166	e 1 1	- 5	e 1 23	-35
II	4.6	166	e 1 5	- 1	e 1 41	-17
I Fresno	N.	5.6	e 1 20	0	e 2 3	-20
II	N.	5.6	e 1 20	0	e 2 10	-13
I Tinemaha	z.	6.0	i 1 31	+ 6	i 2 24	- 9
II	z.	6.0	i 1 30	+ 5	e 2 27	- 6

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.
I Haiwee	E.	6.8	144	e 1 43	+ 6	e 2 49	- 4
II Mount Wilson	Z.	8.6	151	e 2 21	+19	e 3 32	- 7
I Pasadena	Z.	8.6	152	e 1 58	- 4	e 3 32	- 7
II	Z.	8.6	152	—	—	e 3 36	- 3

Additional readings:—

Ukiah I e = 6h.20m.36s.
 Branner I eSN = +1m.38s., iSE = +1m.41s.
 Fresno I iSN = +2m.14s., II iPN = +1m.42s.
 Long waves to shocks II were recorded at Ukiah.

July 2d. 14h. 24m. 34s. Epicentre 29°·0S. 73°·0W. (as on 1936 April 25d.). X.

A = +.2557, B = -.8364, C = -.4848; $\delta = -2$;
 D = -.956, E = -.292; G = -.142, H = +.464, K = -.875.

		Δ	Az.	P.	O-C.	S.	O-C.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Santiago		4.8	157	1 0	- 8	2 2	- 1	—
San Javier		6.7	171	—	—	e 3 28	S _g	—
La Paz	N.	13.3	21	e 3 10	+ 4	6 22	+48	7.8
La Plata		14.1	118	3 5	-12	5 26	-27	6.2
Riverside	Z.	75.7	323	e 11 53	+ 9	—	—	—
Pasadena	Z.	76.2	323	i 11 48	+ 1	—	—	—
Mount Wilson	Z.	76.3	323	i 11 49	+ 1	—	—	—
Tinemaha	E.	78.6	325	e 12 3	+ 3	—	—	—
Triest		108.2	48	—	—	e 28 47	?	—
Zagreb		109.7	48	—	—	e 28 31	?	—
Sofia		113.6	53	—	—	e 27 26?	{+54}	—

Additional readings:—

Triest i = +30m.27s. and +31m.0s.
 Zagreb eNE = +29m.3s., eZ = +29m.50s., e = +30m.8s.
 Long waves were also recorded at Strasbourg, Stuttgart, and Copenhagen.

July 2d. 16h. 29m. 32s. Epicentre 39°·0N. 116°·8W. N.3.

A = -.3504, B = -.6937, C = +.6293; $\delta = +2$;
 D = -.893, E = +.451; G = -.284, H = -.562, K = -.777.

		Δ	Az.	P.	O-C.	S.	O-C.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.
Tinemaha		2.2	211	i 0 29	- 2	i 0 55	- 2
Haiwee		3.0	198	e 0 44	+ 1	i 1 22	+ 5
Fresno	N.	3.3	226	i 0 41	- 6	i 1 22	- 3
Lick		4.2	248	e 0 56	- 4	e 1 23	-25
Berkeley		4.4	257	e 1 3	0	e 1 54	+ 1
Branner		4.5	251	e 1 8	+ 4	e 1 58	+ 3
San Francisco		4.6	256	e 1 8	+ 2	—	—
Mount Wilson	Z.	4.9	192	i 1 9	- 1	—	—
Pasadena		5.0	193	e 1 7	- 4	i 2 26	S*
Riverside	Z.	5.0	187	i 1 11	0	—	—

Additional readings:—

Fresno iPN = +48s.
 Branner ePE = +1m.11s.
 San Francisco eN = +1m.13s.
 Pasadena iZ = +1m.26s., iEZ = +1m.39s.
 Long waves were also recorded at Ukiah.

July 2d. Readings also at 1h. (Berkeley, Branner, and Lick), 4h. (near Samarkand), 5h. (Manila), 10h. (Tiflis, College, La Plata, and Santiago), 11h. (Tiflis), 13h. (Copenhagen and Santiago), 15h. (Nagoya and Vladivostok), 16h. (Stuttgart, Sverdlovsk, Tashkent, and Chiufeng), 17h. (near Fresno and near La Paz), 19h. (Riverview and near Taihoku), 20h. (Paris, Mount Wilson, Pasadena, and Riverside), 21h. (Zi-ka-wei), 23h. (Ksara, Copenhagen, Kew, De Bilt, Strasbourg, Stuttgart, Triest, San Fernando, Granada, and Rio de Janeiro).

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July 3d. 2h. 58m. 47s. Epicentre 10°·1S. 161°·2E. (as on 1935 Dec. 17d.). R.2.

A = -·9320, B = +·3173, C = -·1754; $\delta = +7$;
D = +·322, E = +·947; G = +·166, H = -·057, K = -·984.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	25·5	200	e 5 23	- 2	i 9 51	+ 1	e 12·6	15·4
Sydney	25·5	200	e 5 13	-12	e 9 53	+ 3	12·2	15·8
Apia	26·7	99	e 5 37	+ 2	e 10 19	+ 9	e 13·2	—
Melbourne	31·3	205	i 6 16	- 1	11 26	+ 2	13·9	16·5
Adelaide	32·3	217	i 6 39	+14	i 11 39	- 1	15·2	19·2
Wellington	33·4	161	6 34	- 1	11 57	0	19·6	20·2
Christchurch, N.Z.	34·9	166	i 6 50 _a	+ 2	i 12 4	-16	15·1	18·1
Perth	47·2	236	—	—	i 15 13	- 8	—	24·2
Honolulu T.H.	51·0	51	—	—	e 16 18	+ 3	23·2	—
Batavia	53·9	270	i 9 22	+ 1	i 17 4	+10	—	—
Hong Kong	56·3	305	9 41	+ 3	17 20	- 7	—	30·5
Nanking	58·5	318	9 54	0	17 56	0	28·6	—
Vladivostok	59·5	335	e 9 58	- 3	e 18 0	- 9	25·8	32·5
Phu-Lien	61·9	300	—	—	18 13 _?	-28	31·2	—
Chiufeng	65·2	324	—	—	19 11	-11	e 28·8	34·1
College	84·0	20	—	—	e 22 37	[-15]	e 36·2	—
Sitka	84·7	30	12 29	- 3	22 51	[- 6]	e 28·2	—
Ukiah	85·4	49	e 12 48	+13	e 22 58	[- 4]	e 35·7	—
Berkeley	85·8	51	e 12 36	- 1	e 22 58	[- 7]	—	—
Lick	86·1	51	e 9 59	?	—	—	—	—
Pasadena	88·0	55	e 12 45	- 3	i 23 32	- 5	e 39·8	—
Victoria	88·1	41	i 23 27	S	(i 23 27)	[+ 6]	e 41·5	—
Mount Wilson	88·2	55	i 12 47	- 2	e 23 30	- 9	—	—
La Jolla	88·5	57	i 12 56	+ 6	—	—	—	—
Agra	88·6	297	—	—	i 23 6	[-18]	—	—
Haiwee	88·6	54	e 12 53	+ 2	e 23 38	- 5	—	—
Riverside	88·6	55	i 12 46	- 5	e 23 34	- 9	—	—
Tinemaha	88·6	53	i 12 50	- 1	e 23 19	[- 5]	—	—
Tucson	93·6	59	e 13 24	+10	e 24 28	- 1	e 42·2	—
Bozeman	95·7	45	—	—	e 24 7	[+ 3]	e 41·2	—
Tashkent	98·1	310	e 14 13	+38	24 42	-28	e 46·2	58·5
Sverdlovsk	104·2	325	e 13 58	- 5	24 28	[-18]	44·2	57·1
Madison	111·0	48	—	—	e 28 13 _?	?	—	—
Tiflis	116·4	312	e 18 48	[+12]	25 28	[-11]	e 55·7	62·7
Moscow	116·8	329	19 49	PP	25 29	[-11]	e 56·7	69·6
Pulkovo	118·4	335	20 5	PP	25 32	[-13]	54·2	66·0
Scoresby Sund	119·5	2	20 16	PP	25 43	[- 6]	55·2	—
Oak Ridge	123·9	45	18 51	[- 4]	—	—	—	—
La Paz	124·4	118	20 37	PP	—	—	64·2	73·5
Ksara	124·8	304	e 19 3	[+ 6]	—	—	—	—
Copenhagen	128·2	339	19 8	[+ 5]	27 55	{-15}	55·2	—
Hamburg	130·8	339	e 19 13 _?	[+ 4]	—	—	e 62·2	66·2
Prague	131·5	332	e 21 31	PP	—	—	64·2	76·2
Cheb	132·5	333	e 22 43	PKS	—	—	e 62·2	66·2
Edinburgh	132·6	348	e 22 13 _?	PKS	—	—	e 56·2	—
Durham	133·3	347	21 44	PP	—	—	—	—
San Juan	133·5	75	e 21 56	PP	—	—	e 62·2	—
Zagreb	133·6	327	e 19 17	[+ 4]	—	—	e 83·2	—
De Bilt	133·7	340	e 19 13 _?	[0]	—	—	e 58·2	74·9
Stuttgart	134·8	335	e 19 22	[+ 7]	—	—	e 66·2	77·2
Triest	134·9	327	e 21 0	PP	e 39 43	SS	e 61·9	68·9
Uccle	135·1	340	e 19 16	[+ 1]	e 39 21	SS	e 65·2	—
Strasbourg	135·6	335	e 21 13 _?	PP	—	—	e 40·2	—
Oxford	135·9	345	e 21 56	PP	—	—	e 52·5	76·9
Kew	136·0	344	e 22 5 _a	PP	—	—	e 60·2	76·7
Chur	136·1	334	e 19 14	[- 2]	—	—	—	—
Paris	137·4	339	e 19 13 _?	[- 5]	—	—	70·2	85·2
Tortosa	144·9	334	19 35	[+ 1]	—	—	e 77·2	84·7
Toledo	147·5	338	e 19 37	[- 1]	—	—	e 76·3	—
Almeria	149·5	335	e 19 54	[+13]	—	—	—	—
Granada	149·6	337	e 19 45	[+ 4]	—	—	e 79·2	—
San Fernando	151·3	339	e 19 42	[- 1]	—	—	78·2	—

For Notes see next page.

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NOTES TO JULY 3d. 2h. 58m. 47s.

Additional readings:—

Riverview iN = +10m.2s., iN = +10m.57s. =SSSS +6s.
 Sydney i = +10m.18s.
 Apia ePP = +6m.24s., eSS = +11m.32s., SSS? = +11m.52s., i? = +12m.25s.
 Melbourne i = +6m.26s.
 Adelaide i = +7m.22s. =PPP +1s., e = +10m.22s., i = +12m.51s., e = +13m.20s.,
 =SSSS +3s., i = +16m.27s.
 Wellington PP = +7m.56s., iSS? = +13m.43s., Lq = +16m.47s.
 Christchurch ScS = +17m.18s.
 Perth, W.A. e = +18m.35s. =SSS +4s.
 Berkeley eE = +12m.43s.
 Lick eN = +10m.10s.
 Pasadena i = +12m.54s., iPPZ = +16m.36s., iSKSE = +23m.14s., eSSZ =
 +29m.39s., eSSSZ = +32m.59s.
 Tinemaha eEN = +23m.38s.
 Tucson ePS = +25m.58s., eSS = +30m.49s.
 Bozeman e = +24m.36s.
 Tashkent i = +15m.26s., PP = +19m.32s., SKS = +24m.1s., SS = +31m.13s.,
 SSS = +35m.25s.
 Sverdlovsk PP = +18m.16s., SKKS = +25m.16s., PS = +27m.24s., PPS =
 +28m.18s., SS = +33m.7s.
 Tiflis ePPNZ = +19m.50s., ePSE = +29m.14s.
 Moscow PS = +29m.21s., PPS = +30m.49s., SS = +35m.37s., SSS = +39m.49s.
 Pulkovo PPP = +22m.31s., PS = +29m.37s., SS = +36m.25s., e = +37m.21s.
 Scoresby Sund e = +27m.7s. =SKKS -6s., PS = +30m.1s.
 Ksara iPP = +20m.49s., i = +21m.39s., ePS = +30m.53s., ePPS = +32m.21s.
 Copenhagen +21m.7s. =PP +2s., PKS = +22m.31s.
 Hamburg eE = +22m.36s. =PKS -1s.
 Prague eE? = +22m.43s. =PKS +3s.
 San Juan ePKS = +22m.38s.
 Zagreb ePP = +22m.36s.
 De Bilt eZ = +21m.45s. =PP +3s., eZ = +22m.37s. =PP -5s., eEN = +22m.49s.,
 =PKS +0s.
 Stuttgart ePP = +22m.42s., ePKS = +23m.19s., e = +42m.13s.
 Trieste iPP = +22m.49s., e = +33m.42s.
 Uccle eZ = +21m.42s. =PP -9s., iN = +22m.52s. =PKS -2s.
 Kew ePKSZ = +22m.40s.
 Toledo i = +19m.45s. and +20m.48s.
 San Fernando i = +19m.51s., PKP₂ = +20m.26s.
 Long waves were also recorded at Arapuni, Huancayo, Rio de Janeiro, Cape
 Town, Florissant, Philadelphia, Baku, Belgrade, Jena, Bidston, Stony-
 hurst, Ivigtut, and Chicago.

July 3d. 21h. 2m. 23s. Epicentre 35°·2N. 127°·6E. N.3.

(as given by Weather Bureau of Tyosen).

A = -·4986, B = +·6474, C = +·5764; δ = -3;
 D = +·792, E = +·610; G = -·352, H = +·457, K = -·817.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taikyu	1·1	51	i 0 13k	- 3	i 0 26	- 2	—	0·5
Husan	1·2	95	i 0 15k	- 2	i 0 29	- 2	—	0·5
Keizyo	2·4	348	i 0 36a	+ 2	i 1 6	+ 4	—	1·3
Zinsen	2·5	341	i 0 36a	0	i 1 10	+ 6	—	1·5
Hukuoka	2·8	125	0 42a	+ 2	1 26	+14	—	—
Hukuoka B	2·8	125	0 41k	+ 1	1 22	+10	—	1·4
Heizyo	4·1	339	1 1	+ 3	2 4	+19	—	2·6
Sumoto	6·0	98	e 2 3	P _g	3 13	S _g	—	3·4
Kobe	6·2	84	—	—	e 2 57	S _g *	—	3·6
Nagoya	7·6	88	e 2 21	P _g	4 7	S _g	—	—
Nanking	8·0	250	e 1 55	+ 2	—	—	4·2	—
Chiufeng	10·3	302	—	—	e 4 48	+27	—	7·4
Phu-Lien	23·3	237	—	—	8 37?	-33	—	—

Additional readings:—

Keizyo pPEN = +40s., sSEN? = +1m.15s.
 Zinsen iPPEN = +41s. =P* +1s. and iPPEN +44s. =P_g +0s., iSN = +1m.12s. =
 S* -1s., iSZ = +1m.14s.
 Sumoto eZ = +2m.51s.
 Kobe eN = +3m.1s., eE = +3m.5s.
 Chiufeng eE = +5m.3s. =S* -1s., iZ = +5m.45s.
 Long waves were also recorded at Hong Kong, Calcutta, and the Russian and
 European stations.

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July 3d. Readings also at 0h. (Merida and Oaxaca), 1h. (Andijan, Frunse, and Samarkand), 3h. (Nagoya and near College), 4h. (Oak Ridge, Mount Wilson, Pasadena, Sitka, and near La Paz), 5h. (Sitka), 7h. (near Mizusawa), 11h. (Belgrade), 18h. (Pasadena, Mount Wilson, Riverside, Tinemaha, San Juan, Rio de Janeiro, and near La Paz (2)), 19h. (near Santiago), 20h. (Baku, Ksara, Tashkent, and Tifis), 21h. (Sverdlovsk and Tashkent).

July 4d. 8h. 52m. 43s. Epicentre $14^{\circ}5S$. $69^{\circ}0W$. N.3.

$$A = +.3470, B = -.9038, C = -.2504; \delta = -4;$$

$$D = -.934, E = -.358; G = -.090, H = +.234, K = -.968.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
La Paz	2.2	157	i 0 33 _a	+ 2	i 1 3	S _g	—	2.8
Huancayo	6.6	291	e 1 47	P*	i 3 32	S _g	e 7.3	—
Santiago	19.0	184	e 4 44	+25	e 7 16	-30	—	—
La Plata	22.7	155	4 12	-46	—	—	7.8	—
Rio de Janeiro	25.8	112	(i 9 17)	S	i 9 17	-38	—	—
San Juan	33.0	5	—	—	i 12 14	+23	e 17.8	—
St. Louis	56.7	340	i 9 47	+ 6	e 17 40	+ 8	e 26.7	—
Florissant	56.9	340	e 9 49	+ 7	e 17 39	+ 4	i 26.7	—
Oak Ridge	57.1	358	i 9 52	+ 8	—	—	—	—
Tucson	61.6	320	—	—	(e 18 46)	+ 9	e 18.8	—
La Jolla	66.1	316	i 10 44	- 2	—	—	—	—
Riverside	66.8	317	i 10 50 _k	- 1	—	—	—	—
Pasadena	67.2	317	i 10 53 _k	0	—	—	—	—
Mount Wilson	67.4	317	i 10 53 _k	- 1	—	—	—	—
Haiwee	68.6	319	i 10 59	- 3	—	—	—	—
Tinemaha	69.3	319	i 11 5	- 1	e 20 21	+ 8	—	—
Lick	71.6	328	e 11 19	- 1	—	—	—	—
San Fernando	78.0	47	—	—	e 21 57	+ 3	—	—
Granada	80.2	47	e 12 7	- 2	e 22 30	+12	—	—
Almeria	80.9	48	e 12 42	+29	—	—	—	—
Toledo	81.1	45	i 12 13	- 1	i 22 27	0	e 39.9	—
Copenhagen	97.2	34	—	—	23 59	[-13]	55.3	—
Batavia	158.9	168	i 19 28	[-24]	—	—	—	—

Additional readings and notes:—

Huancayo e = +2m.0s., i = +2m.37s., +3m.48s., and +4m.13s.
 San Juan e = +12m.44s., +13m.2s., and +15m.5s., eS_cS = +16m.45s.
 St. Louis ipPN = +10m.15s., isSEN = +18m.35s.
 Florissant epPN = +10m.17s., ipPNZ = +10m.20s., iSEN = +17m.45s., iEN = +17m.52s., esSE = +18m.37s.
 Pasadena iZ = +11m.29s.
 Mount Wilson iZ = +11m.32s.
 Tinemaha iZ = +11m.45s. and eEN = +20m.21s.
 San Fernando ePS = +22m.56s.
 Toledo iZ = +12m.43s.
 Copenhagen +24m.54s.
 Batavia PZ = +19m.38s.

July 4d. 8h. 57m. 14s. Epicentre $6^{\circ}0N$. $97^{\circ}5E$. N.1.

$$A = -.1298, B = +.9860, C = +.1045; \delta = -4;$$

$$D = +.991, E = +.131; G = -.014, H = +.104, K = -.995.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Medan	2.7	154	i 0 29	-10	i 0 50	-19	—	—
Batavia	15.3	143	2 53	-39	5 14	-68	—	—
Phu-Lien	17.2	30	i 4 9	+12	i 7 30	+24	8.8	—
Colombo	17.5	275	4 14	+14	7 54	+41	12.8	14.3
Calcutta	18.8	334	4 49	+33	8 25	+43	10.0	11.6
Kodaikanal	E. 20.3	285	i 4 46	+13	i 8 46	+34	10.6	—
Hong Kong	22.9	43	4 53	- 7	8 56	- 7	—	—
Manila	24.6	67	4 54	-22	8 57	-37	—	—
Bombay	N. 27.3	301	—	—	i 10 30	+10	i 12.6	—
Agra	E. 28.1	322	5 50	+ 2	i 10 40	+ 6	13.9	—

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.
Nanking	32.8	34	6 26	- 4	e 11 36	-12	—	—
Chiufeng	37.9	28	i 7 13 _a	- 1	i 13 2	- 3	—	—
Almata	41.4	338	e 7 51	+ 7	14 11	+14	—	—
Andijan	41.4	330	e 7 48	+ 4	14 8	+11	—	—
Frunse	42.1	335	e 7 54	+ 5	i 14 16	+ 8	—	—
Samarkand	43.4	325	e 8 5	+ 5	e 14 33	+ 6	—	—
Tashkent	43.4	329	i 8 4	+ 4	i 14 33	+ 6	—	37.1
Tchimkent	43.9	331	8 8	+ 4	14 38	+ 4	—	—
Vladivostok	47.9	34	e 8 18	-17	15 16	-15	—	—
Baku	54.7	317	i 9 29	+ 3	17 12	+ 7	26.8	—
Erevan	58.4	314	e 9 52	- 1	—	—	—	—
Sverdlovsk	58.5	337	e 9 50	- 4	e 17 50	- 6	24.8	—
Grozny	58.7	318	11 0	+65	i 18 2	+ 3	—	—
Tiflis	58.7	316	9 54	- 1	i 17 59	0	e 26.3	—
Piatigorsk	60.8	318	e 10 10	0	—	—	—	—
Sotchi	62.9	317	e 10 48	+23	19 15	+21	—	—
Ksara	63.2	304	i 10 26 _k	- 1	18 56	- 1	—	—
Theodosia	66.2	317	10 46	- 1	i 19 32	- 3	—	—
Yalta	66.9	316	10 48	- 3	i 19 36	- 7	—	—
Simferopol	67.1	317	i 10 48	- 4	i 19 39	- 7	—	—
Sebastopol	67.4	316	10 53	- 1	—	—	—	—
Moscow	68.5	328	10 56	- 5	19 52	-11	31.3	35.5
Pulkovo	73.5	331	11 26	- 6	20 50	-13	29.8	31.9
Sofia	74.3	313	e 11 33	- 3	e 21 6	- 6	—	—
Budapest	78.1	317	—	—	i 21 39	-16	—	—
Vienna	79.6	318	e 12 0	- 6	21 56	-15	—	—
Zagreb	79.8	315	e 12 0 _k	- 7	e 21 57	-17	44.3	—
Triest	81.3	315	e 12 6	- 9	i 22 8	-22	—	—
Copenhagen	82.3	326	12 13	- 7	22 22	-18	—	—
Jena	82.8	320	i 12 18	- 4	—	—	—	—
Florence	83.1	313	e 20 26	PS	22 30	-18	—	—
Hamburg	83.7	324	i 12 23	- 4	e 22 39	[-10]	e 43.8	—
Chur	84.2	316	e 12 23	- 6	e 22 23	-37	—	—
Stuttgart	84.4	318	e 12 24	- 6	—	—	e 46.8	—
Zurich	84.9	317	e 12 26	- 7	e 22 29	[-29]	—	—
Strasbourg	85.3	318	e 11 46 _?	-49	—	—	e 18.8	—
Basle	85.5	317	e 12 30	- 6	—	—	—	—
Neuchatel	86.0	317	e 12 30	- 8	e 22 57	[- 9]	—	—
De Bilt	86.7	322	i 12 37	- 5	i 23 8	[- 3]	—	—
Scoresby Sund	93.7	343	19 1	PP	—	—	—	—
Tinemaha	z. 125.3	35	i 21 47	PP	—	—	—	—
Haiwee	z. 126.3	35	i 21 40	?	—	—	—	—
Mount Wilson	z. 127.6	37	i 21 43	PP	—	—	—	—
Riverside	z. 128.2	37	i 21 46	PP	—	—	—	—
Pasadena	z. 128.3	37	e 18 44	[-20]	i 21 44	PP	—	—
La Jolla	z. 129.0	38	i 21 48	PP _?	—	—	—	—
Oak Ridge	z. 130.5	348	i 18 52	[-16]	i 21 59	PP	—	—

Additional readings :—

Batavia iEN = +3m.47s.

Phu-Lien iN = +5m.8s.

Calcutta PPN = +5m.8s., PPPN = +5m.15s., SSN = +9m.7s.

Kodaikanal PPE = +5m.23s., SSE = +9m.39s.

Hong Kong ? = +5m.37s., ? = +6m.2s., SS = +10m.8s.

Agra ePPE = +6m.32s., PPPE = +6m.50s., SSE = +11m.58s.

Chiufeng PPEN = +7m.57s., SPNZ = +8m.20s., iSSE = +14m.21s., iScSE = +16m.56s.

Grozny i = +19m.29s.

Tiflis iPZ = +9m.57s., ePcPZ = +11m.1s., ePPZ = +12m.15s., iSKS = +19m.29s.

Ksara pP = +11m.14s., ePP = +13m.18s., pS = +19m.56s., sS = +20m.18s.

Zagreb eE = +12m.3s.

Jena i = +12m.44s.

Hamburg eE = +19m.18s.

Stuttgart eEZ = +13m.53s.

Scoresby Sund = +19m.36s., sS = +32m.16s.

Long waves were recorded at Hyderabad, Paris, and Tortosa.

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July 4d. 20h. 40m. 51s. Epicentre 35°·6N. 140°·8E. R.2.
(as on 1934 Nov. 28d. and near the position 35°·4N. 140°·7E. given by Tokyo).

$$A = -0.6292, B = +0.5150, C = +0.5821; \quad \delta = -4;$$

$$D = +0.632, E = +0.775; \quad G = -0.451, H = +0.368, K = -0.813.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Kiyosumi	0.7	228	0 9	- 1	0 18	0	—
Tukubasan	0.8	318	0 11	0	0 25	+ 4	—
Komaba	0.9	273	0 15	+ 2	0 31	+ 8	—
Tokyo (Cent. Met.)	0.9	276	0 13 _k	0	0 29	+ 6	0.6
Tokyo (Imp. Univ.)	0.9	276	0 12	- 1	0 27	+ 4	—
Kamakura	1.0	254	0 16	+ 2	0 32	+ 6	—
Mitaka	1.0	274	0 16	+ 2	0 33	+ 7	—
Susaki	1.7	238	0 21	- 3	0 46	+ 2	—
Nagoya	3.2	262	e 0 48	+ 2	1 48	S _g	2.2
Mizusawa	3.5	4	e 0 49	- 1	e 1 32	+ 2	—
Kobe	4.7	260	e 1 7	0	e 2 8	+ 8	2.6

Additional readings :—
Mizusawa eSN = +1m.35s.
Kobe eSE = +2m.11s.

July 4d. Readings also at 1h. (near Apia), 7h. (Simferopol and Ksara), 10h. (Alicante), 13h. (Zurich), 19h. (Lick), 22h. (Tiflis), 23h. (Frunse, near Andijan, Samarkand, and near Grozny).

July 5d. 14h. 33m. 26s. Epicentre 44°·7N. 150°·2E. (as on 1935 Sept. 6d.). X.

$$A = -0.6168, B = +0.3532, C = +0.7034; \quad \delta = -4;$$

$$D = +0.497, E = +0.868; \quad G = -0.610, H = +0.350, K = -0.711.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	8.8	231	e 1 57	- 8	e 3 20	-24	—	—
Vladivostok	13.2	270	e 3 3	- 2	6 11	+39	6.9	8.2
Chiufeng	25.4	271	i 5 24 _a	0	e 9 49	+ 1	e 12.7	16.2
Nanking	27.4	253	e 6 4?	+22	11 6	+44	—	27.3
Sverdlovsk	53.7	317	(10 34?)	PP	—	—	10.6	—
Tashkent	56.8	298	—	—	i 17 35	+ 1	e 29.0	36.6
Moscow	64.7	325	e 10 38	+ 1	e 21 23	?	35.3	39.4
Pasadena	z. 67.8	64	e 10 15	-42	—	—	—	—
Tiflis	71.0	311	e 11 19	+ 2	e 20 34	+ 1	39.6	45.0
Ksara	81.5	310	e 12 19	+ 3	e 23 13	+41	e 48.1	—

Additional readings :—
Tashkent e = +22m.34s.
Tiflis eE = +35m.58s.
Long waves were also recorded at Baku, Pulkovo, and a few European stations.

July 5d. 18h. 55m. 25s. Epicentre 5°·9N. 126°·8E. (as on 1936 Jan. 20d.). R.1.

$$A = -0.5959, B = +0.7965, C = +0.1028; \quad \delta = +8;$$

$$D = +0.801, E = +0.599; \quad G = -0.062, H = +0.082, K = -0.995.$$

Correction for depth of focus 0.015 has been applied.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Palau	-0.1	7.7	78	1 39	- 9	3 0	-14	—	—
Manila	-0.2	10.4	327	2 22 _a	- 2	4 44	+26	—	—
Kosyun	-0.5	17.1	341	3 56	+ 7	—	—	—	—
Taito	-0.5	17.7	343	3 45	-12	7 36	+30	—	—
Tainan	-0.5	18.2	340	4 11	+ 8	—	—	—	—

Continued on next page.

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	Corr. for Focus	Δ °	Az. °	P.		O-C. s.	S.		O-C. s.	L. m.	M. m.
				m.	s.		m.	s.			
Arisan	-0.5	18.5	343	4	9	+ 2	8	21	+56	—	—
Isigakizima	-0.5	18.6	353	3	44	-24	—	—	—	—	—
Karenko	-0.6	18.8	345	4	19	+10	—	—	—	—	—
Taityu	-0.6	19.2	343	5	17	+63	—	—	—	—	—
Giran	-0.6	19.5	346	4	26	+ 9	—	—	—	—	—
Taihoku	-0.6	19.8	346	e 4	34	+13	8	8	+18	—	—
Hong Kong	-0.6	20.4	325	4	26k	- 1	8	25	+23	9.8	—
Nake	-0.7	22.6	7	4	48	- 2	9	18	+34	—	—
Malabar	-0.7	23.2	236	5	5	+ 9	i 9	44	SSS	—	—
Batavia	E. -0.7	23.3	239	4	55k	- 2	9	9	+12	—	—
	N. -0.7	23.3	239	5	0k	+ 3	i 9	5	+ 8	—	—
Phu-Lien	-0.8	24.6	309	5	8	0	9	25	+ 6	10.1	10.1
Titizima	-0.8	25.7	33	5	16	- 3	—	—	—	—	—
Zi-ka-wei	Z. -0.8	25.8	350	i 5	16k	- 4	9	42	+ 1	15.6	40.5
Kagosima	-0.8	25.9	8	5	38	+17	—	—	—	—	—
Miyazaki	-0.9	26.4	9	5	20	- 5	9	51	+ 1	—	—
Nagasaki	-0.9	27.0	5	5	25	- 5	—	—	—	—	—
Unzendake	-0.9	27.0	5	6	2	PP	—	—	—	—	—
Nanking	-0.9	27.2	344	i 5	29?	- 3	10	5	+ 2	—	—
Simidu	-0.9	27.5	11	5	31	- 4	—	—	—	—	—
Ooita	-0.9	27.7	8	5	34	- 2	—	—	—	—	—
Hukuoka	-0.9	27.9	6	e 5	35	- 3	e 10	10	- 5	—	—
Hukuoka B	-0.9	27.9	6	5	35	- 3	10	35	+20	—	—
Medan	N. -0.9	28.1	267	e 5	51	+11	—	—	—	—	—
Muroto	-0.9	28.2	12	5	41	0	—	—	—	—	—
Koti	-0.9	28.3	11	5	39	- 3	—	—	—	—	—
Matuyama	-0.9	28.5	10	5	42	- 2	10	46	+21	—	—
Siomisaki	-1.0	28.8	15	5	42	- 3	—	—	—	—	—
Tokusima	-1.0	29.1	12	5	52	+ 4	—	—	—	—	—
Husan	-1.0	29.3	3	e 6	48	PPP	e 11	17	+40	—	—
Sumoto	-1.0	29.4	15	5	41	-10	e 16	58	ScS	—	—
Wakayama	-1.0	29.4	15	5	49	- 2	11	1	+23	—	—
Hatidyozima	-1.0	29.8	21	6	13	+19	11	53	SS	—	—
Kobe	-1.0	29.8	15	e 5	52	- 2	e 10	44	- 1	—	15.2
Osaka	-1.0	29.9	15	5	56	+ 1	11	28	+41	—	—
Taikyu	-1.0	30.0	4	e 6	14?	+18	e 11	18?	+30	e 15.0?	—
Tu	-1.0	30.2	17	6	0	+ 2	—	—	—	—	—
Kameyama	-1.0	30.3	16	5	54	- 5	—	—	—	—	—
Kyoto	-1.0	30.3	15	5	56	- 3	—	—	—	—	—
Toyooka	-1.0	30.5	13	5	47	-14	e 11	16	+20	14.0	17.2
Hikone	-1.0	30.6	15	6	7	+ 6	—	—	—	—	—
Omaesaki	-1.0	30.6	18	5	48	- 3	—	—	—	—	—
Nagoya	-1.0	30.7	17	e 6	6	+ 4	—	—	—	14.3	14.9
Ibukisan	-1.0	30.8	15	5	53	-10	—	—	—	—	—
Gihu	-1.0	30.9	17	6	1	- 3	11	15	+12	—	—
Ito	-1.0	31.2	20	6	31	+24	—	—	—	—	—
Misima	-1.1	31.3	19	6	9	+ 2	—	—	—	—	—
Mera	-1.1	31.4	21	6	13	+ 5	—	—	—	—	—
Hunatu	-1.1	31.6	19	6	18	+ 9	—	—	—	—	—
Kohu	-1.1	31.6	18	6	10	+ 1	11	40	+28	—	—
Zinsen	-1.1	31.6	358	e 5	31?	-38	e 11	35?	+23	e 14.1	—
Keizyo	-1.1	31.7	0	e 6	15	+ 5	e 11	25	+11	—	—
Yokosuka	-1.1	31.7	19	6	33	+23	—	—	—	—	—
Yokohama	-1.1	31.8	19	6	54	+43	—	—	—	—	—
Kanazawa	-1.1	31.9	19	6	33	+21	—	—	—	—	—
Tokyo	-1.1	32.1	20	6	25	+11	—	—	—	—	—
Toyama	-1.1	32.2	17	6	21	+ 6	—	—	—	—	—
Husiki	-1.1	32.3	17	6	8	- 8	—	—	—	—	—
Oiwake	-1.1	32.3	18	6	17	+ 1	11	50	+27	—	—
Kumagaya	-1.1	32.4	19	6	12	- 5	—	—	—	—	—
Maebasi	-1.1	32.5	19	6	15	- 2	—	—	—	—	—

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.			
Nagano	-1.1	32.5	18	6	17	0	11	48	+22	—	—
Tyosi	-1.1	32.5	22	6	31	+14	—	—	—	—	—
Kakioka	-1.1	32.7	20	6	21	+2	—	—	—	—	—
Tukubasan	-1.1	32.7	20	6	15	-4	—	—	—	—	—
Wazima	-1.1	32.8	17	5	55	-25	10	53	-38	—	—
Takada	-1.1	32.9	17	6	32	+11	—	—	—	—	—
Mito	-1.1	33.0	20	6	13	-9	—	—	—	—	—
Heizyo	-1.1	33.1	358	e 6	25	+2	—	—	—	—	—
Niigata	-1.2	33.9	17	6	45	+16	—	—	—	—	—
Hokusima	-1.2	34.2	20	6	30	-2	12	20	+29	—	—
Yamagata	-1.2	34.6	20	6	37	+2	—	—	—	—	—
Sendai	-1.2	34.8	20	6	45	+8	—	—	—	—	—
Chiufeng	-1.2	35.5	346	i 6	41a	-2	i 12	10	-1	—	—
Mizusawa	E. -1.2	35.7	19	e 6	48	+3	i 12	43	+29	19.0	—
	N. -1.2	35.7	19	e 6	43	-2	e 12	39	+25	18.8	—
Akita	-1.2	35.9	18	6	45	-1	—	—	—	—	—
Aomori	-1.2	37.1	18	7	0	+3	—	—	—	—	—
Vladivostok	-1.2	37.5	5	i 6	58	-2	e 13	4	+23	16.6	29.3
Hakodate	-1.3	38.0	16	7	12	+8	—	—	—	—	—
Urakawa	-1.3	38.9	19	7	13	+1	—	—	—	—	—
Perth, W.A.	-1.3	39.3	194	—	—	—	i 13	15	+9	—	23.6
Sapporo	-1.3	39.3	17	7	14	-1	i 13	14	+8	—	—
Obihiro	-1.3	39.7	19	7	15	-3	—	—	—	—	—
Asahigawa	-1.3	40.3	17	7	39	+15	—	—	—	—	—
Calcutta	N. -1.3	40.6	298	7	30	+4	12	57	-29	—	23.0
Haboro	-1.3	40.6	17	7	12	-14	—	—	—	—	—
Nemuro	-1.3	40.9	21	7	31	+2	13	35	+5	—	—
Adelaide	-1.3	42.3	165	i 7	37	-3	13	45	-6	18.3	26.6
Riverview	-1.4	45.9	151	e 8	11	+2	e 14	47	+4	e 24.4	27.5
Sydney	-1.4	45.9	151	e 6	15	-114	i 14	53	+10	e 27.1	30.6
Colombo	-1.4	46.6	273	8	12	-2	14	54	0	23.4	30.1
Melbourne	-1.4	46.9	160	e 8	18	+1	14	54	-3	21.5	29.1
Hyderabad	-1.5	48.6	288	8	26	-3	15	20	0	22.7	31.7
Kodaikanal	E. -1.5	49.0	279	i 8	37	+5	i 15	32	+6	22.6	24.5
Agra	-1.5	50.9	300	8	47	0	i 15	51	-1	—	—
Bombay	-1.7	54.1	289	9	12	+3	i 16	35	+1	24.6	—
Almata	-1.8	57.5	319	e 9	35	+1	—	—	—	—	—
Frunse	-1.8	58.9	317	9	46	+2	17	47	+9	—	—
Andijan	-1.8	59.6	314	9	52	+3	18	0	+13	e 32.7	—
Tashkent	-1.8	62.0	314	i 10	8	+2	i 18	20	+1	28.6	37.9
Tchimkent	-1.8	62.1	315	10	7	0	—	—	—	—	—
Arapuni	-1.9	63.1	138	—	—	—	19	47	ScS	27.1	35.6
Samarkand	-1.9	63.2	311	10	13	-1	18	43	+10	—	—
Apia	-1.9	64.0	108	—	—	—	e 19	20	+37	e 30.6	—
Wellington	-1.9	64.4	141	e 8	59	?	i 19	1	+13	e 27.3	31.6
Sverdlovsk	-2.0	72.2	328	i 11	9	-3	i 20	25	+1	41.0	40.8
Honolulu	-2.0	74.3	69	i 11	26	+1	i 21	20	+32	33.6	—
Baku	-2.0	76.2	310	i 11	42	+6	i 21	18	+7	36.1	42.9
Grozny	-2.1	79.4	313	i 11	58	+4	i 21	54	+8	39.4	—
Tiflis	-2.1	80.1	311	i 11	57a	0	21	50	-4	31.6	51.3
Tananarive	E. -2.1	81.8	250	12	35p	+29	e 22	4	-8	39.6	—
College	-2.1	82.7	25	12	7	-4	e 22	23	+1	e 34.4	—
Moscow	-2.1	84.7	325	i 12	20	-1	22	38	-5	40.1	52.3
Theodosia	-2.1	86.8	314	12	31	-1	22	53	[-19]	46.6	—
Ksara	-2.1	87.5	302	i 12	35a	0	23	18	+6	—	—
Yalta	-2.1	87.8	314	i 12	35	-2	22	59	[-20]	43.6	—
Pulkovo	-2.1	88.1	330	12	37	-1	i 23	14	-4	41.6	49.4
Sitka	-2.1	89.3	32	12	38	-6	23	38	+9	41.1	—
Helwan	-2.1	91.8	299	12	51	-5	24	12	+19	—	—
Sebastopol	-2.1	91.8	315	i 12	37	-19	23	2	[-41]	48.6	—

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	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Bucharest	-2.2	93.4	316	e 13	5	+ 2	23	33	[-19]	—	41.1
Upsala	-2.2	94.3	332	e 13	2	- 5	i 24	2	-14	e 40.6	55.0
Königsberg	-2.2	94.4	327	e 13	5	- 3	i 23	42	[-16]	e 42.6	—
Sofia	-2.2	95.8	314	e 13	12	- 2	23	47	[-18]	46.6	59.6
Belgrade	-2.2	97.2	316	e 13	20k	0	i 23	51	[-21]	e 53.1	—
Budapest	-2.2	97.4	320	13	23	+ 2	23	53	[-20]	e 44.6	—
Copenhagen	-2.2	98.4	329	13	24	- 2	24	30	{-11}	46.6	—
Victoria	-2.2	98.5	40	e 17	27	PP	—	—	—	e 45.5	45.8
Vienna	-2.2	98.8	321	e 13	25	- 3	24	2	{-42}	e 50.6	—
Prague	-2.2	99.4	324	e 13	39	+ 8	e 24	23	{-26}	43.6	53.1
Seattle	-2.2	99.4	40	—	—	—	e 24	11	[-12]	e 40.6	—
Bergen	-2.2	99.6	335	e 17	48	PP	24	35?	[-15]	46.1	49.6
Graz	-2.2	99.9	320	e 13	30	- 3	i 24	32	{-20}	e 46.6	57.3
Zagreb	-2.2	99.9	319	e 13	29	- 4	e 24	36	[-16]	e 49.1	—
Hamburg	-2.2	100.6	328	e 13	32	- 4	24	13	[-16]	47.6	52.6
Cheb	-2.2	100.7	324	e 12	16	?	e 24	14	[-15]	e 49.6	62.6
Jena	-2.2	100.8	324	e 13	35	- 2	e 24	29	{-30}	e 49.6	56.1
Scoresby Sund	-2.2	100.8	351	13	34	- 3	e 24	40	{-19}	46.6	—
Göttingen	-2.2	101.5	326	e 13	35?	- 5	i 24	53	{-11}	e 48.6	52.6
Triest	-2.2	101.5	320	e 13	39	- 1	i 24	13	[-20]	e 49.3	60.1
Ukiah	-2.2	101.5	49	e 17	53	PP	e 24	20	[-13]	e 45.1	—
Berkeley	-2.3	102.6	50	e 13	22	-23	e 24	21	[-17]	e 46.8	—
Padova	-2.3	102.8	320	e 14	19	+33	24	30	[- 9]	—	—
Stuttgart	-2.3	103.1	323	13	46a	- 1	25	30	- 4	e 48.6	60.6
Chur	-2.3	103.7	323	e 13	48	- 2	e 24	21	[-23]	—	—
De Bilt	-2.3	103.8	328	13	50	0	e 24	30	[-14]	e 47.6	54.8
Florence	-2.3	103.8	318	13	55	+ 5	24	23	[-21]	42.6	—
Strasbourg	-2.3	104.0	323	e 13	35?	-16	i 24	55	{-33}	40.6	—
Zurich	-2.3	104.1	323	e 14	0	+ 8	e 24	24	[-21]	—	—
Basle	-2.3	104.6	323	e 13	53	- 1	e 24	36	[-12]	—	—
Uccle	-2.3	104.9	328	e 13	55	0	i 24	49	{-41}	e 46.6	55.1
Neuchatel	-2.3	105.2	323	e 13	56	- 1	e 25	0	{-32}	—	—
Durham	-2.3	105.8	332	—	—	—	24	57	{-40}	—	59.6
Edinburgh	-2.3	105.8	334	e 18	23	PP	i 25	4	{-33}	48.6	60.6
Tinemaha	-2.3	105.8	49	e 17	12	?	e 25	8	{-29}	—	—
Haiwee	-2.3	106.4	50	e 17	21	?	25	9	{-32}	—	—
Stonyhurst	-2.3	106.8	333	i 18	55	PP?	e 24	40	[-18]	51.6	60.0
Pasadena	-2.3	106.9	52	e 13	57	- 8	e 25	3	{-41}	i 43.7	—
Mount Wilson	-2.3	107.0	52	e 14	2	- 3	—	—	—	—	—
Paris	-2.3	107.0	326	i 14	4	- 1	e 24	44	[-15]	51.6	55.6
Kew	-2.3	107.1	329	e 14	6	0	i 25	2	{-44}	53.6	61.8
Bozeman	-2.3	107.2	38	e 18	25	PP	e 25	14	{-34}	e 42.6	—
Bidston	-2.3	107.3	332	i 18	32	PP	i 25	2	{-45}	47.6	57.7
Oxford	E. -2.3	107.4	330	18	27	PP	24	31	[-30]	e 48.6	63.0
	N. -2.3	107.4	330	18	36	PP	24	44	[-17]	e 47.6	66.7
Riverside	-2.3	107.6	52	e 14	14	+ 6	e 25	5	{-45}	—	—
Cape Town	—	108.5	237	e 18	23	PP?	i 24	48	[-18]	45.8	53.1
Rathfarnham Castle	—	108.9	334	18	26	PP?	i 26	12	{+13}	54.6	—
Jersey	—	109.3	327	e 18	35	PP?	25	9	{-53}	e 51.1	—
Barcelona	—	110.9	318	e 18	55	PP	e 29	59	?	e 45.0	59.3
Tortosa	N. —	112.2	318	19	9	PP	29	8	?	e 47.6	58.6
Ivigtut	—	112.8	358	19	7	PP?	30	5	?	52.6	—
Tucson	—	113.3	52	e 19	17	PP	e 27	5	?	e 51.1	—
Toledo	—	115.7	319	e 18	19	[-15]	—	—	—	54.4	66.7
Almeria	—	116.2	317	e 19	0	PP	29	39	SKSP?	—	—
Granada	—	116.8	318	e 14	26	?	29	13	SKSP	—	—
San Fernando	—	119.0	318	e 20	18	PP	28	14	?	56.1	59.1
Madison	—	121.1	29	e 19	35?	PP	—	—	—	—	—
Chicago	—	122.9	31	e 20	16	PP	—	—	—	e 50.9	—
Florissant	—	123.6	35	e 18	44	[-10]	i 25	52	[- 9]	e 50.7	63.7

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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.
St. Louis	—	123.8	35	e 19	3	[+ 9]	—	e 53.5	—
Ann Arbor	—	124.4	27	—	—	—	e 25 35	[-28]	59.9
Ottawa	—	124.9	19	e 20	35?	PP	—	—	e 51.6
Toronto	—	125.1	23	e 18	50	[- 7]	25 31	[-34]	57.6
East Machias	—	127.8	12	e 20	50	PP	—	—	e 54.4
Oak Ridge	—	128.8	16	i 18	55	[-10]	e 28 1	{-13}	e 61.6
Fordham	—	129.5	19	e 18	55	[-11]	i 30 45	SKSP	—
Philadelphia	—	129.9	22	e 21	5	PP	e 28 11	{-10}	55.6
Georgetown	—	130.0	24	i 18	56	[-11]	e 28 22	{ 0}	56.6
Columbia	—	132.2	32	e 20	5	?	e 39 21	SS	e 59.1
Santiago E.	—	148.1	152	e 19	45	[+ 6]	—	—	—
Balboa Heights	—	149.8	61	e 19	35	[- 7]	—	—	—
La Plata	—	150.7	172	19	41	[- 2]	—	—	72.6
San Juan	—	152.6	27	e 19	36	{-35}	e 43 16	SS	e 57.4
Huancayo	—	157.3	108	e 19	41	[- 9]	—	—	e 57.6
Rio de Janeiro	—	160.5	209	e 20	35	{-11}	—	—	—
La Paz	—	161.9	127	i 19	50a	[- 6]	30 7	{-81}	76.1 80.2

Additional readings:—

Hong Kong PP = +4m.44s., SS = +8m.37s.
 Malabar iP = +5m.21s.
 Batavia iP = +5m.13s., iEN = +9m.35s. = SSS - 1s.
 Zi-ka-wei iZ = +5m.39s., +6m.58s., and +8m.16s., iE = +9m.54s.
 Nanking iE = +10m.21s., iEN = +16m.51s.
 Medan iPN = +6m.12s.
 Muroto PP = +6m.32s.
 Koti PP = +6m.32s.
 Sumoto PZ = +5m.47s., iEN = +6m.44s., iZ = +13m.40s.
 Kobe iPPPNZ = +6m.53s., eSNZ = +10m.53s.
 Tu PP = +7m.1s.
 Kameyama PP = +6m.56s.
 Toyooka ePE = +5m.50s., iNZ = +7m.1s., iE = +7m.8s.
 Nagoya iP = +6m.19s., PP = +7m.6s.
 Ibukison PP = +6m.59s.
 Misima PP = +7m.11s.
 Tokyo PP = +7m.29s.
 Maebasi PP = +7m.27s.
 Mito PP = +7m.39s.
 Chiufeng ipPEZ = +7m.9s., iPPN = +8m.4s., iEN = +8m.49s., iSE = +12m.19s.,
 isSE = +13m.4s., iSSN = +14m.41s., SSE = +14m.43s., is_cSEN =
 +16m.49s.
 Vladivostok PP = +8m.28s., SS = +15m.59s.
 Calcutta pPN = +7m.52s., PPN = +9m.30s., sSN = +13m.37s.
 Adelaide i = +7m.48s., +8m.7s., and +8m.24s., iP_cP = +8m.47s., i = +10m.5s.,
 +13m.45s., and +14m.33s., iSSS = +17m.23s., iSKSE = +17m.32s.
 Riverview iEN = +8m.23s., iZ = +8m.25s., i = +15m.14s., iEN = +18m.13s. =
 S_cS + 4s., iN = +18m.33s. = SS + 0s., iE = +18m.43s. = SSS - 2s.
 Sydney i = +8m.35s., SS = +18m.40s. = SSS - 5s., SSS = +23m.5s.
 Melbourne i = +8m.45s., e = +10m.10s. = SS + 6s., i = +15m.27s. and +18m.25s.,
 SSS = +18m.52s.
 Kodaikanal pPE = +8m.54s., PPE = +10m.19s., iPPPE = +10m.49s., sSE =
 +16m.10s., SSSE = +19m.59s.
 Agra pPE = +9m.6s., iPPPE = +11m.2s., sSE = +16m.24s.
 Bombay pPEN = +9m.33s., pPEN = +11m.32s., sSEN = +17m.12s., S_cSEN =
 +18m.53s., SSSE = +21m.35s.
 Tchinkent e = +13m.8s.
 Arapuni SS = +23m.23s.
 Wellington i = +13m.19s., +20m.36s., +23m.59s., and +24m.56s.
 Sverdlovsk L₀ = +33m.23s.
 Tifis P_cPZ = +12m.14s., PPP = +17m.11s., ePSE = +22m.33s., SSE =
 +26m.58s.
 Tananarive SSE = +27m.35s.?
 College e = +22m.45s.
 Ksara iP = +12m.53s., sS = +23m.54s.
 Yalta e = +16m.21s.
 Sitka ePP = +15m.50s., eS = +23m.10s., e = +23m.26s., and +23m.31s. =
 SKS + 3s., S = +23m.49s., eSS = +29m.2s., e = +29m.25s., SSS = +33m.35s.
 Helwan pP = +13m.21s., i = +13m.35s., PPP = +16m.55s., SKS = +23m.20s.,
 SKKS = +23m.50s., sS = +25m.29s.
 Bucharest pPEN = +16m.15s., PSN = +24m.17s., iPSE = +24m.22s., sSEN =
 +29m.7s.

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Upsala PPE = +16m.37s., SKS = +23m.33s., SSE = +29m.40s.?
 Königsberg eE = +13m.10s. and +13m.23s., eZ = +13m.32s., eN = +16m.23s.,
 eE = +16m.37s. = PP - 6s., ePPZ = +17m.0s., eN = +20m.28s., +20m.55s.,
 and +22m.39s., iSKSE = +23m.38s., SKKSN = +24m.8s., SKKS - 2s.,
 eE = +24m.43s., eN = +24m.53s.
 Belgrade e = +15m.3s., e = +19m.50s.
 Budapest S_cS = +24m.25s., PS = +24m.40s., PPS = +25m.10s.
 Copenhagen PP = +17m.26s., eE = +21m.41s., SKS = +23m.59s., PS =
 +26m.35s.
 Vienna PP = +17m.37s., e = +21m.42s.
 Prague ePP = +17m.59s. = SKKS - 9s., ePS = +26m.59s., eSS = +32m.35s.
 Bergen e = +30m.2s.
 Graz i = +21m.48s.
 Zagreb eNW = +13m.35s., ePP = +17m.39s., eZ = +20m.9s., eNW = +21m.53s.,
 eSKS = +24m.5s., eNE = +24m.55s. = SKKS + 3s., e = +25m.21s., eNW =
 +27m.3s., eNE = +27m.44s., eNW = +29m.55s., e = +37m.5s.
 Hamburg eZ = +17m.12s., ePPZ = +18m.3s., ePPPE = +20m.57s., eSKKSEN
 = +24m.43s.
 Jena eN = +13m.45s. and +13m.53s., e = +17m.35s. = PP + 3s., e = +17m.47s.,
 eN = +24m.7s., eZ = +24m.10s., eN = +24m.13s., eS = +24m.35s., eE =
 +27m.35s.
 Cheb e = +16m.44s.
 Scoresby Sund E = +17m.41s. = PP + 9s. and +24m.12s., SSE = +32m.35s.
 Göttingen eSKSE = +24m.11s.
 Trieste iPP = +17m.50s., i = +18m.36s. +22m.9s. and +24m.41s. = SKS + 8s.,
 SN = +25m.29s., iN = +25m.57s., iPS = +27m.12s., iPPS? = +27m.53s.,
 iSS = +33m.3s., SSS = +36m.51s., iS = +37m.47s., eN = +42m.9s.
 Ukiah eSKS = +24m.3s., eSKKS = +24m.45s., ePS = +26m.47s., eSS =
 +31m.55s.
 Berkeley iPZ = +13m.42s., ePKPZ = +17m.44s. = PP - 1s., eN = +24m.51s.,
 eZ = +27m.8s.
 Stuttgart iZ = +14m.4s., iZ = +14m.13s., eEZ = +16m.52s., ePKP = +18m.4s.,
 ePP = +18m.21s., eSKS = +24m.20s., e = +24m.51s. = SKS + 10s., iS =
 +26m.4s., ePS = +27m.29s., ePPS = +28m.23s., eSS = +32m.47s.
 De Bilt eZ = +14m.4s., ePPZ = +18m.2s., iEN = +24m.58s.
 Strasbourg i = +25m.37s., iPS = +26m.13s., i = +27m.5s., iPPS = +27m.43s.,
 i = +28m.22s.
 Zurich e = +24m.54s. = SKS + 9s., ePS = +26m.8s.
 Basle e = +24m.59s. = SKS + 11s.
 Uccle pPEZ = +14m.12s., PPE = +18m.13s., eN = +24m.5s., eE = +24m.31s.,
 iE = +25m.1s., iN = +25m.44s. = SKKS + 14s., SSE = +33m.35s.?
 Durham ? = +23m.45s.
 Edinburgh i = +28m.10s.
 Tinemaha ePPN = +18m.23s.
 Stonyhurst i = +25m.12s.
 Pasadena ePPZ = +17m.27s., iPPZ = +18m.28s., iSKKSE = +25m.12s., eSE? =
 +25m.46s., iPSZ = +27m.55s., iPPSZ = +28m.46s., iPKKPZ = +29m.47s.,
 iSSSZ = +37m.27s.
 Mount Wilson ePKPZ = +17m.8s., iPPZ = +18m.30s., iPKKPZ = +30m.4s.
 Paris ePS = +26m.0s.
 Kew iPP = +18m.33s., iPSZ = +28m.3s., iEN = +28m.22s., eSS = +35m.3s.,
 eE = +43m.47s.
 Bozeman e = +24m.12s., e = +24m.42s., e = +26m.12s., eSP = +27m.14s.,
 eSS = +31m.46s.
 Bidston i = +28m.20s., eSS = +35m.2s., e = +44m.2s.
 Oxford iSKKS = +25m.10s.
 Riverside ePKPZ = +17m.18s.
 Cape Town iSKKSE = +25m.20s., PSE = +26m.43s., i = +27m.54s.,
 N = +34m.25s., E = +34m.46s.
 Rathfarnham Castle i = +19m.18s. and +23m.13s., e = +24m.25s.
 Ivigtut e = +25m.31s., +26m.33s., SS = +35m.11s.
 Tucson eSKS = +25m.31s., ePS = +29m.7s., eSS = +35m.23s., eSSS = +39m.17s.
 Toledo PP = +19m.37s., PS = +29m.36s., PPS = +30m.57s., L_q = +48.5m.
 Almeria PPP = +25m.39s.
 San Fernando SKS = +25m.59s., PS = +30m.14s.
 Chicago ePS = +29m.5s.
 Florissant ipPKPZ = +19m.6s., iPPZ = +20m.26s., ipPEZ = +20m.45s.,
 iSKPZ = +21m.32s., iPSKPZ = +22m.0s., isSKPZ = +22m.10s., iSKKSEZ
 = +27m.53s., isSEZ = +29m.44s., ePSE = +30m.17s., iZ = +30m.46s.,
 iSSE = +37m.36s.
 St. Louis epPKPN = +19m.5s., iN = +20m.59s.
 Ann Arbor eN = +30m.35s. = SKSP + 6s., eE = +32m.35s.
 Ottawa e = +37m.47s. = SS + 11s.
 Toronto SKP = +21m.49s., iPPS = +32m.55s., SS = +37m.55s.
 East Machias e = +21m.38s. and +26m.49s., eSS = +37m.40s., esSS = +38m.35s.,
 e = +40m.43s.

Continued on next page.

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Oak Ridge iPPN = +20m.59s., SKP = +22m.15s., eSN = +30m.59s. = SKSP - 4s., eSSN = +38m.31s., eE = +38m.39s., eEN = +41m.19s.
 Fordham ePP = +21m.3s., i = +22m.43s., eSS = +39m.5s., e = +41m.24s., e = +48m.24s.
 Philadelphia i = +22m.19s., e = +26m.8s. = SKS - 11s., ePS = +30m.46s., eSS = +37m.23s., esSS = +38m.35s. = SS - 4s., e = +45m.20s.
 Georgetown iPP = +21m.1s., e = +21m.6s. = PP - 11s., iSKP = +22m.20s., i = +22m.45s. and +26m.31s., eSKSP = +31m.5s., eSP = +31m.36s., isSP = +32m.6s., eSS = +38m.35s.
 Columbia ePP = +22m.26s., ePS = +31m.52s.
 San Juan e = +19m.46s., ePKP₂ = +20m.19s., ePKS = +23m.19s., ePP = +23m.45s., e = +47m.41s.
 Huancayo ePKP₂ = +20m.27s., ePP = +24m.24s.
 La Paz iPKPz = +20m.23s., iSKP = +23m.22s., iPP = +23m.59s., iSKS = +26m.47s., iPPP = +27m.19s., PS? = +35m.53s., SS = +43m.45s., LqE = +68.6m.
 Long waves were recorded at Christchurch.

July 5d. Readings also at 2h. (Nagoya), 3h. (near Samarkand), 4h. (Taikyū, near Hukuoka, and Husan), 7h. (near Andijan), 8h. (Triest), 9h. (near Santiago), 10h. (Baku, Sverdlovsk, Tashkent, Ksara, Scoresby Sund, and Pasadena), 11h. (Tiflis), 12h. (Pasadena, Riverside, and Mount Wilson), 13h. (Baku, Tashkent, near Mizusawa, and Nagoya), 14h. (near Nagoya (2)), 15h. (Sverdlovsk, Tashkent, Tiflis, Vladivostok, Chiufeng, and near Mizusawa), 16h. (Tiflis), 17h. (Sverdlovsk, Baku, Tiflis, Ksara, Vladivostok, Chiufeng, Tashkent, Copenhagen, Pulkovo, Scoresby Sund, and near Mizusawa), 18h. (Sochi), 20h. (Riverside and Pasadena), 21h. (Almeria), 22h. (Nanking), 23h. (Sverdlovsk, Tashkent, and Tiflis).

July 6d. 1h. 55m. 17s. Epicentre 4°·0N. 128°·0E. (as on 1929 Nov. 18d.). R.3.

A = -·6142, B = +·7861, C = +·0698; δ = +7;
 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.
Manila	12·6	327	i 3 0	+ 4	5 22	+ 5	—	—
Hong Kong	22·7	325	5 13	+15	8 53	- 6	—	13·8
Batavia	23·5	244	i 5 6	+ 1	i 9 27	+13	—	—
Phu-Lien	26·7	311	e 5 33	- 2	e 10 13	+ 3	—	—
Nanking	29·3	344	e 5 19	-40	e 10 23	-30	—	—
Nagoya	32·2	14	e 6 33	+ 9	e 7 53	?	—	—
Chiufeng	37·6	345	e 7 16 _a	+ 4	12 57	- 3	—	—
Vladivostok	39·2	6	i 7 18	- 7	13 29	+ 5	e 19·4	—
Frunse	61·1	318	e 10 20	+ 8	e 18 18	-12	—	—
Andijan	61·7	315	e 10 16	0	e 18 35	- 3	—	—
Tashkent	64·2	315	i 10 32	- 2	18 55	-15	e 29·7	38·4
Samarkand	65·4	314	e 10 44	+ 3	—	—	—	—
Sverdlovsk	74·4	330	i 11 27	-10	20 57	-16	33·7	—
Baku	78·4	312	12 3	+ 4	21 53	- 5	37·7	44·9
Grozny	81·6	313	e 12 25	+ 9	e 22 21	-12	—	—
Tiflis	82·3	312	e 12 21	+ 1	e 22 22	-18	e 42·7	52·5
Moscow	86·9	325	e 12 48	+ 5	e 23 6	-20	50·2	52·8
Theodosia	89·0	315	12 58	+ 5	—	—	—	—
Ksara	89·5	305	i 12 59 _a	+ 4	e 24 12	+21	—	—
Yalta	89·9	315	e 13 14	+17	e 23 23	-32	38·7	—
Pulkovo	90·4	330	i 13 4	+ 5	23 48	-12	44·7	55·1

Additional readings:—

Hong Kong PP = +5m.39s., ? = +6m.3s., SS = +9m.27s., ? = +9m.46s. = SSSS + 6s.

Nanking eSE = +10m.3s.

Chiufeng pPN = +7m.34s., pPEZ = +7m.38s., sSN = +13m.35s., sSE = +13m.43s., ScSE = +17m.29s.

Ksara pP = +13m.18s., e = +24m.50s. = PS + 4s.

Pulkovo eSKS = +23m.29s.

Long waves were also recorded at Copenhagen, Edinburgh, Kew, De Bilt, Uccle, Strasbourg, Stuttgart, Paris, and Scoresby Sund.

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July 6d. 18h. 20m. 56s. Epicentre 2°0S. 128°5E. (as on 1933 March 5d.). R.3.

$$A = -0.6221, B = +0.7821, C = -0.0349; \quad \delta = -9;$$

$$D = +0.783, E = +0.622; \quad G = +0.022, H = -0.027, K = -0.999.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	1.7	188	i 0 40	+16	i 1 17	+33	—	—
Manila	18.2	336	3 56	-13	7 14	-15	10.2	—
Malabar	21.5	255	4 46	+1	—	—	—	—
Batavia	22.0	258	i 4 46k	-5	i 8 39	-7	e 12.1	—
Hong Kong	28.1	331	5 51	+3	10 13	-21	—	11.9
Perth	32.2	200	11 4	S	(11 4)	-34	—	—
Nanking	35.3	346	e 7 3	+11	12 26	0	—	—
Nagoya	38.0	12	e 7 17	+2	—	—	—	—
Sydney	38.2	148	e 8 44	SS	—	—	23.7	27.6
Melbourne	38.8	159	—	—	i 13 48	+30	e 22.8	—
Chiufeng	43.6	347	e 8 2	0	e 14 12	-18	e 20.5	23.9
Vladivostok	45.2	4	e 8 12	-2	14 50	-4	24.7	33.6
Calcutta	N. 46.2	305	14 51	S	(14 51)	-16	19.7	28.6
Kodaikanal	E. 52.3	286	—	—	e 16 4?	-29	—	—
Bombay	58.5	294	—	—	e 17 34	-22	—	36.4
Tashkent	68.8	317	e 10 3	-60	i 19 49	-18	e 26.1	46.3
Sverdlovsk	79.8	330	e 12 5	-2	i 21 51	-23	35.1	—
Baku	82.7	311	e 12 34	+12	22 29	-15	39.1	—
Grozny	86.1	314	e 12 58	+19	e 22 58	[-9]	—	—
Tifis	86.7	312	e 12 45	+3	23 5	-19	43.1	66.8
Moscow	92.2	325	—	—	23 31	[-15]	e 50.6	62.4
Ksara	93.3	303	e 13 25	+12	e 24 28	+1	—	—
Theodosia	93.6	315	—	—	e 24 13	-16	—	—
Simferopol	94.5	315	—	—	e 24 18	{+7}	—	—
Yalta	94.5	314	—	—	e 23 55	[-3]	—	—
Pulkovo	95.9	330	17 16	PP	23 58	[-7]	48.1	60.4
Copenhagen	106.1	328	—	—	24 52	[-3]	51.1	—
Scoresby Sund	108.9	350	—	—	26 4?	?	—	—
Stuttgart	110.4	322	—	—	e 29 4?	?	e 64.1	—
De Bilt	111.4	326	e 19 22	PP	—	—	e 55.1	—
Strasbourg	111.4	322	—	—	(e 26 4?)	{-13}	e 26.1	—
Uccle	112.4	325	—	—	e 30 4?	?	e 56.1	—
Paris	114.4	324	—	—	e 29 4?	?	62.1	—

Additional readings:—

Nanking e = +14m.56s. =SSSS -2s.

Melbourne i = +17m.19s.

Chiufeng ePE = +8m.12s., iE = +17m.33s.

Calcutta SN = +18m.17s., SSN = +18m.57s.

Tashkent i = +10m.12s. and +11m.40s., e = +12m.30s., +13m.14s., +14m.6s., +15m.14s., +20m.11s., +20m.49s. =ScS -7s., and +24m.8s.

Tifis SSN = +28m.34s.

Moscow SS = +30m.12s.

Ksara ePP = +17m.2s., ePS = +25m.27s.

Pulkovo PS = +25m.47s., SS = +30m.52s.

Copenhagen +33m.4s.

Scoresby Sund +38m.34s.

Uccle e = +34m.44s. =SS +7s.

Long waves were also recorded at Honolulu, Granada, San Fernando, Tucson, and Huancayo.

July 6d. Readings also at 1h. (Mount Wilson, Bozeman, and La Paz), 3h. (Drome, Grozny, Tifis, Tchimkent, near Andijan, Frunse, and Samarkand), 5h. (Scoresby Sund), 6h. (Alicante, Almeria, Barcelona, near Algiers (4), near Granada, and Toledo), 7h. (Calcutta and near Algiers), 17h. (near Santiago and San Javier), 19h. (Toledo), 20h. (near Taihoku), 21h. (Bozeman), 23h. (near Ferndale and near San Javier).

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July 7d. Readings at 1h. (Neuchatel), 5h. (Mizusawa, Sverdlovsk, La Paz, La Plata, Santiago, and San Javier), 8h. (Chiufeng, Nanking, and near Taihoku), 9h. (Mizusawa, La Paz, Mount Wilson, Pasadena, and near Apia), 10h. (De Bilt, Uccle, Strasbourg, Stuttgart, and Scoresby Sund), 13h. (Tacubaya), 14h. (Granada and Toledo), 15h. (Cape Town, La Paz, and La Plata), 17h. (near Zurich), 18h. (near Bagnères, and Toledo), 19h. (Santiago), 20h. (Cheb), 23h. (Chiufeng (2), Sverdlovsk, Tashkent, and Vladivostok).

July 8d. Readings at 0h. (Andijan, Frunse, Samarkand, Tashkent (2), Sverdlovsk, Ksara, and Mount Wilson), 1h. (Baku (2) and Sverdlovsk), 2h. (Hastings), 4h. (Mizusawa), 5h. (near Santiago), 9h. (Andijan, Frunse, and near Samarkand), 16h. (Tifis), 18h. (near Toledo), 19h. (Chiufeng, Nanking, Vladivostok, and near Mizusawa), 20h. (Moscow, Pulkovo, Baku, Tifis, Tashkent, Ksara, Copenhagen, Strasbourg, Stuttgart, Granada, and Scoresby Sund), 21h. (New Plymouth), 22h. (Wellington, Andijan, Frunse, near Medan, near Almata, and near Toledo), 23h. (Tashkent, and near Mizusawa).

July 9d. 10h. 20m. 45s. Epicentre $40^{\circ}7'S$. $179^{\circ}4'W$. N.3.

(as given by Wellington, with deep focus).

$A = -.7581$, $B = -.0079$, $C = -.6521$; $\delta = +1$;
 $D = -.010$, $E = +1.000$; $G = +.652$, $H = +.007$, $K = -.758$.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Hastings	3.0	291	0 45	+ 2	1 19	+ 2
Tuai	3.3	304	0 15?	?	0 45	P
Wellington	4.4	260	1 2	- 1	1 53	0
Arapuni	4.6	303	i 0 35?	-31	1 10	-48
New Plymouth	5.2	286	1 15?	+ 1	i 1 53	-20
Christchurch	6.6	242	1 32 _a	- 2	2 47	- 1
Pasadena	z. 93.7	46	e 12 43	-31	—	—
Mount Wilson	z. 93.8	46	i 12 42	-33	—	—
Riverside	z. 94.0	46	i 12 41	-35	—	—
Ksara	151.3	266	e 19 7	[-36]	—	—

Additional readings:—

Hastings $i = +2m.11s$.

Wellington $i = +2m.15s. = S^* + 6s$.

Ksara $epPKP = +20m.26s.$, $ePP = +22m.44s$.

July 9d. 16h. 59m. 51s. Epicentre $38^{\circ}2'N$. $123^{\circ}3'E$. (as given by Nanking). N.3.

$A = -.4315$, $B = +.6568$, $C = +.6184$; $\delta = 0$;
 $D = +.836$, $E = +.549$; $G = -.340$, $H = +.517$, $K = -.786$.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Heizyo	2.1	66	i 0 29 _k	- 1	i 0 55	+ 1	—
Zinsen	2.7	105	i 0 41 _a	+ 2	i 1 16	+ 7	1.4
Kelzyo	3.0	102	e 0 43	0	i 1 26	+ 9	—
Taikyu	4.8	117	e 1 12	+ 4	e 2 15	+12	—
Chiufeng	5.9	292	—	—	e 2 31	0	4.0
Nanking	7.1	212	e 2 6	P*	e 3 42	S _g	—
Hukuoka B	7.4	126	e 2 17	P _g	3 43	S _g *	—

Additional readings:—

Zinsen $iPPE = +43s.$, $iS = +1m.20s$.

Kelzyo $ePPE = +47s$.

Chiufeng $eN = +3m.3s.$, $eSE = +3m.16s$.

Nanking $eSN = +3m.50s$.

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July 9d. Readings also at 0h. (Baku), 1h. (Andijan, Ravensburg, Stuttgart, near Basle, Chur, Neuchatel, and Zurich), 2h. (Bucharest, Strasbourg, Stuttgart, Vienna, near Sofia, Trieste, Zagreb, New Plymouth, and near Wellington), 3h. (Copenhagen and De Bilt), 4h. (New Plymouth), 5h. and 6h. (near Husan), 8h. (Sumoto, Mizusawa, near Nagoya, and Kobe), 9h. (near Batavia, Malabar, and near Tifis), 11h. (Tuai and near Almata), 13h. (near Mizusawa), 15h. (Christchurch, Roseneath, Sydney, near New Plymouth, Wellington (2), Taikyu, and near Nanking), 17h. (Belgrade, Tashkent, Oak Ridge, Copenhagen, Stuttgart, and near Nagoya), 18h. (Sverdlovsk and San Juan), 19h. (Christchurch, San Juan, Huancayo, La Paz, and Tucson), 20h. (Scoresby Sund), 22h. (Tifis).

July 10d. 11h. 0m. 45s. Epicentre $38^{\circ}2N$. $123^{\circ}3E$. (as on 1936 July 9d.). N.3.
(and given by Weather Bureau of Tyosen).

$$A = -.4315, B = +.6568, C = +.6184; \quad \delta = 0;$$

$$D = +.836, E = +.549; \quad G = -.340, H = +.517, K = -.786.$$

		Δ	Az.	P.	O-C.	S.	O-C.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.
Heizyo	E.	2.1	66	i 0 30k	0	i 0 56	+ 2
Zinsen		2.7	105	e 0 39	0	e 1 15	S*
Keizyo	E.	3.0	102	e 0 42	- 1	e 1 22	+ 5
Taikyu		4.8	117	e 1 32	P _g	e 2 43	S _g
Hukuoka B		7.4	126	e 3 42	S*	e 4 23	S _g

July 10d. 19h. 32m. 44s. Epicentre $7^{\circ}7N$. $127^{\circ}0E$. (as on 1934 April 16d.). R.3.

$$A = -.5964, B = +.7914, C = +.1340; \quad \delta = -4;$$

$$D = +.799, E = +.602; \quad G = -.081, H = +.107, K = -.991.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Manila	9.1	320	i 2 31k	+22	3 51	0	—	—
Hong Kong	19.1	321	4 30	+10	8 20	+32	—	—
Batavia	24.5	236	6 3	PPP?	9 36	+ 4	—	—
Nanking	25.6	344	5 36	+11	10 16	+25	—	—
Chiufeng	33.8	345	i 6 50k	+11	i 12 22	+19	—	—
Vladivostok	35.7	7	e 6 50	- 5	—	—	18.3	—
Frunse	57.8	317	e 9 28	-21	—	—	—	—
Andijan	58.6	314	e 10 7	+12	—	—	—	—
Tashkent	60.9	314	i 10 11	0	18 27	- 1	e 31.3	38.0
Sverdlovsk	70.7	329	i 11 15	0	i 20 30	0	33.3	—
Baku	75.2	311	—	—	e 21 23	+ 1	e 38.3	—
Grozny	78.4	314	e 12 2	+ 3	21 54	- 4	—	—
Tifis	79.1	312	12 2	- 1	e 22 2	- 4	e 46.2	—
Erevan	79.4	310	e 11 52	-13	—	—	—	—
Moscow	83.3	326	12 24	- 1	22 43	[- 3]	—	—
Ksara	86.6	304	i 12 40a	- 1	e 23 24	+ 1	—	—
Simferopol	86.6	316	e 12 41	0	e 23 1	[-10]	—	—
Yalta	86.6	315	e 12 39	- 2	—	—	—	—
Pulkovo	86.7	331	12 41	- 1	23 20	- 4	44.3	46.8
Sebastopol	87.0	316	e 12 43	0	—	—	—	—
Copenhagen	96.9	330	—	—	24 40	{+11}	51.3	—

Additional readings :—

Hong Kong PP = +4m.55s., SS = +8m.44s., ? = +9m.19s.
 Batavia SN? = +10m.10s.
 Chiufeng iS_cSE = +17m.4s.
 Vladivostok e = +9m.10s.
 Grozny e = +12m.47s.
 Ksara epP = +13m.9s., eSP = +24m.50s.
 Pulkovo SKS = +23m.3s.

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July 10d. Readings also at 0h. (Batavia and near Zagreb), 1h. (near Nagoya), 3h. (Granada, Triest, Prague, De Bilt, Paris, Strasbourg, Stuttgart, Copenhagen, Hamburg, Kew, Bidston, Edinburgh, Durham, Stonyhurst, Ivigtut, Scoresby Sund, Reykjavik, Baku, Sverdlovsk, Piatigorsk, Pulkovo, Tashkent, near Erevan, Tifis (2), and Grozny, more than one shock), 4h. (near Hukuoka B and near New Plymouth), 5h. (near Malabar), 8h. (Tifis and near Santiago), 11h. (Florence and Triest), 15h. (Sebastopol and near Nagoya), 19h. (near Grozny), 21h. (near Tananarive), 22h. (New Plymouth and Wellington).

July 11d. Readings at 1h. (Tifis), 2h. (Triest), 3h. (Berkeley, Branner, Fresno, and Lick), 6h. (Batavia, Malabar, Ravensburg, Zurich, near Chur, and near Triest), 7h. (near Ebingen and Zurich), 8h. (near Berkeley, Branner, Lick, Fresno, and San Francisco), 10h. (Lick and near Fresno), 11h. (Drome), 13h. (La Paz and Lick), 15h. (near Toyooka and near Hukuoka B), 18h. (Chiufeng, Vladivostok, Sverdlovsk, Baku, Tashkent, Pulkovo, Tifis, Copenhagen, Mount Wilson, Pasadena, Riverside, Tinemaha, and La Paz), 19h. (La Paz, Andijan, and near Oak Ridge), 21h. (near Batavia and Malabar), 22h. (Manila, Medan, Batavia, Tashkent, Sverdlovsk, Tifis, near Andijan, La Plata, and near Santiago), 23h. (near Samarkand).

July 12d. 2h. 42m. 8s. Epicentre 22°·5S. 173°·5W. (as on 1928 Jan. 19d.). X.

$$A = -.9179, B = -.1046, C = -.3827; \quad \delta = -6;$$

$$D = -.113, E = +.994; \quad G = +.381, H = +.043, K = -.924.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	8.9	11	e 1 38	-28	i 3 3	-43	—	—
New Plymouth	19.7	210	—	—	8 52?	SSS?	e 11.2	—
Wellington	21.2	205	4 47	+ 5	e 9 19	SSS?	11.8	12.9
Christchurch	23.9	205	5 59 _a	PPP?	10 4	SSS?	11.8	13.3
Riverview	33.0	242	e 8 40	?	—	—	e 16.7	20.3
Sydney	33.0	242	—	—	e 11 57	+ 6	19.4	20.5
Melbourne	38.6	237	—	—	i 13 43	+28	23.2	32.4
Adelaide	43.4	242	—	—	e 17 21	SS	e 21.3	24.2
Manila	74.1	294	i 11 34 _a	- 1	21 5	- 5	34.9	—
La Jolla	77.1	47	e 11 49	- 4	—	—	—	—
Berkeley	77.2	40	e 11 55	+ 2	e 21 15	-30	e 33.2	—
Pasadena	77.3	45	i 11 49	- 5	e 22 10	+24	e 35.9	—
Mount Wilson	z. 77.4	45	i 11 49	- 5	—	—	—	—
Riverside	z. 77.7	45	e 11 50	- 6	—	—	—	—
Batavia	78.3	269	i 12 1	+ 2	e 22 21	+24	—	—
Haiwee	78.7	43	i 11 56	- 5	—	—	—	—
Tinemaha	79.1	43	i 11 59	- 4	—	—	—	—
Tucson	81.1	49	e 12 12	- 2	e 22 16	-11	e 38.6	—
Vladivostok	82.6	323	e 12 9	-12	22 12	-31	40.1	44.4
Nanking	84.6	308	e 12 30	- 1	22 55	- 9	—	—
College	89.6	11	e 18 58	?	e 23 26	[- 4]	e 44.0	—
Chiufeng	90.5	314	i 12 56 _a	- 4	23 52	- 9	—	—
Huancayo	92.4	105	—	—	e 23 59	[+12]	e 44.4	—
La Paz	97.2	111	—	—	i 24 24	[+12]	48.9	51.7
Florissant	N. 98.8	52	—	—	e 24 16	[- 4]	e 52.8	—
Chicago	101.9	49	—	—	e 24 36	[+ 1]	e 49.9	—
Philadelphia	110.4	54	—	—	e 25 7	[- 8]	e 56.6	—
Ottawa	111.1	48	e 19 20	PP?	e 26 52	{+37}	e 49.9	—
San Juan	112.5	78	e 19 14	PP	e 25 14	[-10]	e 56.0	—
Tashkent	124.8	306	e 20 38	PP	i 26 7	[+ 2]	e 62.4	74.3
Sverdlovsk	128.1	326	e 19 5	[+ 1]	e 27 55	{-15}	53.9	72.2
Scoresby Sund	129.2	12	21 28	PP	—	—	59.9	—
Pulkovo	139.2	342	e 19 27	[+ 7]	e 29 24	{+ 5}	75.9	81.2
Baku	139.4	307	e 19 29	[+ 9]	e 33 53	?	e 71.9	82.8
Moscow	139.6	333	e 19 27	[+ 6]	e 29 9	{-13}	e 41.4	45.2

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.
Grozny	141.5	312	e 19 39	[+16]	—	—	—	—
Tifis	142.7	310	e 19 16	[-10]	e 32 40	SKSP	86.1	—
Sotchi	145.5	316	e 19 36	[+ 1]	—	—	—	—
Edinburgh	145.9	10	—	—	41 37	SS	e 78.9	—
Copenhagen	146.5	355	19 40	[+ 4]	30 22	{+19}	77.9	—
Simferopol	148.2	322	e 19 47	[+ 8]	—	—	—	—
Yalta	148.4	320	e 19 47	[+ 8]	—	—	36.9	—
Sebastopol	148.7	322	e 19 49	[+ 9]	—	—	—	—
Hamburg	149.1	356	i 19 46k	[+ 6]	—	—	e 82.9	—
Oxford	150.1	9	19 55	[+13]	—	—	—	85.9
De Bilt	150.4	1	e 19 52	[+10]	—	—	e 76.9	92.4
Kew	150.6	9	e 19 53	[+10]	—	—	e 80.9	—
Prague	151.7	350	e 19 40	[- 4]	—	—	—	84.9
Uccle	151.7	3	e 19 53	[+ 9]	—	—	e 62.9	—
Cheb	152.0	352	e 20 52?	?	—	—	—	—
Paris	153.5	6	e 19 57	[+11]	—	—	82.9	—
Stuttgart	153.7	356	e 19 54	[+ 7]	e 33 52	SKSP	e 83.9	—
Strasbourg	153.9	358	19 52?	[+ 5]	—	—	e 47.9	—
Triest	156.1	348	e 19 54	[+ 5]	—	—	—	e 92.5
Toledo	160.4	26	e 20 14	[+20]	—	—	—	—
San Fernando	162.2	35	e 20 5	[+ 9]	—	—	86.9	—
Granada	163.0	29	e 20 10	[+13]	—	—	—	—

Additional readings :—

Apia $iS_g = +4m.16s.$; phase identification stated to be doubtful.
 Melbourne $e = +16m.10s. = SS - 1s.$ and $+20m.54s.$
 Berkeley $iPZ = +12m.6s., ePSN = +21m.34s.$
 Chiufeng $iEZ = +13m.22s., SKSEN = +23m.25s.$
 Huancayo $e = +27m.1s.$
 Florissant $eN = +25m.6s., iSKKSN = +25m.9s., eN = +28m.7s., eN = +46m.2s.$
 Chicago $e = +28m.59s.$
 Philadelphia $eS = +27m.16s., ePS = +28m.52s., e = +52m.17s.$
 Tashkent $e = +20m.58s. = PP + 16s., e = +21m.29s., e = +28m.34s., e = +30m.31s., e = +31m.58s., i = +34m.33s., e = +37m.9s., e = +40m.21s., e = +43m.21s., e = +48m.7s.$
 Sverdlovsk $i = +20m.54s., e = +31m.0s.$
 Pulkovo $e = +22m.7s. = PP - 9s., e = +23m.20s., e = +26m.9s., e = +31m.28s.$
 Baku $i = +22m.16s. = PP + 0s., e = +41m.59s.$
 Moscow $e = +22m.10s. = PP - 9s., e = +23m.24s.$
 Tifis $eNZ = +19m.29s., ePPE = +21m.44s., PKSE = +23m.15s., PPPE = +25m.4s., eE = +35m.25s.$
 Stuttgart $ePP = +23m.36s.$
 Triest $i = +20m.40s., ePPS = +38m.45s.$ and $eSS = +43m.8s.$
 Granada $ePP = +24m.33s.$
 Long waves were also recorded at Arapuni, Cape Town, Ukiah, Lick, Honolulu, Rio de Janeiro, and Oak Ridge.

July 12d. 5h. Apennine mountain range :—

Florence $P = 44m.39s., M = 44m.46s.$
 Triest $eP = 45m.5s., P_g = 45m.14s., i = 45m.18s., P_gP_g = 45m.24s., i = 45m.35s., iS_g = 45m.40s., i = 45m.43s.$
 Padova $eP = 45m.25s., S = 46m.0s.$
 Chur $eP_g = 45m.28s., eS_g = 46m.1s.$
 Zurich $eP_g = 45m.31s., eS_g = 46m.18s.$
 Neuchatel $ePN? = 45m.40s., eSN = 46m.29s.$
 Basle $eP_g = 45m.43s., eS_g? = 46m.30s.$
 Vienna $e = 46m.$
 Ravensburg $eS_g = 46m.19s.$
 Stuttgart $eS_g = 46m.42s.$

July 12d. Readings also at 0h. (near Santiago), 1h. (San Juan, Rio de Janeiro, and La Paz), 2h. (La Paz and Mount Wilson), 4h. (Tifis), 5h. (Chiufeng, Florence, and Triest), 10h. (La Paz), 11h. (near Tananarive), 14h. (near Batavia), 15h. (near Manila), 20h. (Sverdlovsk, Tifis, Chiufeng, and Vladivostok), 23h. (Christchurch, Hastings, near New Plymouth, Wellington, and near Graz).

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July 13d. 11h. 12m. 20s. Epicentre 23°·5S. 70°·0W. N.1.

Position intermediate between those given by Jesuit Seismology Society of America and U.S. Coast and Geodetic Survey.

A = +·3137, B = -·8618, C = -·3987; $\delta = +7$;
D = -·940, E = -·342; G = -·136, H = +·375, K = -·917.

	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
	°	°	m. s.		s.	m. s.		s.	m.	m.
Montezuma	1·4	50	—		—	i 0 34		- 2	—	—
La Paz	7·2	14	i 2	2	P*	i 4 2		S _z	—	7·7
Santiago	9·9	183	2 4		-15	2 40		?	—	—
San Javier	12·2	186	2 34		-17	4 35		-33	—	—
Huancayo	12·5	335	i 3	12	+17	i 5 40		+25	—	—
La Plata	15·5	139	3 18		-17	6 4		-23	7·3	—
Rio de Janeiro	24·6	94	i 5	15	- 1	i 9 12		-22	i 12·5	13·7
Balboa Heights	33·8	344	e 6	49	+10	e 12 13		+10	16·8	—
San Juan	42·0	6	e 7	50	+ 1	i 14 6		0	i 20·3	—
Tacubaya	N. 51·5	324	9 7		+ 4	—		—	—	—
Columbia	58·4	350	e 9	56	+ 3	e 18 6		+11	e 25·8	—
Mazatlan	E. 58·6	320	9 44?		-11	—		—	—	—
Georgetown	62·8	355	i 10	24	0	i 18 53		+ 1	—	—
Philadelphia	63·6	356	i 10	46	+17	i 19 17		+15	i 26·8	—
Pennsylvania	64·7	354	i 10	35	- 2	e 19 15		- 1	e 32·5	42·3
St. Louis	65·0	343	e 10	40	+ 1	i 19 21		+ 1	i 26·9	37·2
Florissant	65·2	343	i 10	42	+ 2	i 19 24		+ 2	e 31·8	37·7
Weston	65·9	359	i 10	45	0	19 39		+ 8	—	—
Oak Ridge	66·0	359	i 10	45	0	i 19 45		+13	e 34·7	—
Ann Arbor	67·0	350	e 10	52	0	i 19 46		+ 1	i 30·2	31·2
Chicago	67·3	346	i 9	54	-60	i 18 39		-69	i 27·0	—
Chicago (Loyola)	67·4	346	e 10	55	+ 1	e 19 50		0	—	—
Toronto	67·7	353	i 10	55	- 1	i 19 49		- 4	31·7	—
Tucson	68·0	324	e 10	58	0	e 20 0		+ 3	e 32·5	—
Vermont	68·1	358	i 10	59	0	i 20 1		+ 3	28·1	—
East Machias	68·3	3	i 11	0	0	i 20 0		- 1	i 27·7	—
Madison	68·9	346	i 11	8	+ 4	i 20 12		+ 4	30·9	—
Ottawa	69·1	356	i 11	4	- 1	i 20 15		+ 5	32·7	—
Denver	71·1	332	e 11	16	- 1	i 20 30		- 4	—	—
La Jolla	72·2	320	e 11	21	- 3	e 20 44		- 3	—	—
Riverside	73·0	320	i 11	27	- 2	e 20 53		- 4	i 37·6	—
Mount Wilson	73·6	320	i 11	30 _a	- 2	e 20 54		-10	—	—
Pasadena	73·6	320	i 11	31 _a	- 1	i 21 8		+ 4	e 31·5	—
Halwee	74·9	322	i 11	38	- 2	i 21 22		+ 3	e 37·8	—
Tinemaha	75·7	322	i 11	43	- 1	e 21 28		0	e 31·8	—
Cape Town	76·0	121	11 36		-10	21 0		-32	33·7	38·4
Fresno	N. 76·3	321	e 11	46	- 2	e 21 26		- 9	—	—
Lick	77·8	321	e 11	57	0	e 21 57		+ 5	—	—
Branner	78·2	321	e 12	5	+ 7	—		—	—	—
Berkeley	78·6	321	e 11	59	- 1	e 22 1		+ 1	—	—
Bozeman	78·6	333	e 11	57	- 3	e 21 55		- 5	e 35·2	—
San Francisco	78·6	321	e 12	2	+ 2	e 22 3		+ 3	—	—
Ukiah	80·0	321	12 7		- 1	22 11		- 5	e 33·7	—
Ferndale	81·5	322	e 12	26	+10	e 22 30		- 2	—	—
Saskatoon	82·1	338	e 12	20	+ 1	e 22 32		- 6	—	—
Ivigtut	83·9	10	i 12	39 _a	+11	e 22 46		-10	43·7	—
San Fernando	84·9	47	i 12	34 _a	+ 1	i 23 12		+ 5	41·2	44·2
Seattle	85·3	328	12 41		+ 6	22 52		[- 9]	—	—
Victoria	86·2	328	i 12	38	- 1	i 23 15		- 4	e 41·1	48·0
Granada	87·0	48	i 12	44	+ 1	i 23 23		- 4	—	—
Almeria	87·6	49	i 12	41	- 5	i 23 17		[0]	e 41·5	51·1
Toledo	88·2	45	i 12	47	- 2	i 23 24		[+ 3]	40·0	50·1
Algiers	91·4	51	i 13	6	+ 2	e 24 30		+21	e 41·7	48·7
Tortosa	E. 91·7	46	13 8		+ 3	23 40		[- 3]	e 33·7	—
	N. 91·7	46	13 4		- 1	23 44		[+ 1]	e 33·7	53·7

Continued on next page.

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	Δ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	L. m.	M. m.
Christchurch	91.8	220	e	12 57 ^a	- 9	i	23 24	[-19]	37.1	41.9
Wellington	91.8	222		12 56	-10		23 48	[+ 5]	41.8	42.7
Arapuni	93.0	226		—	—		23 28	[-22]	37.7	44.7
Barcelona	93.0	45	e	13 11	0		24 1	{+ 2}	e 40.2	53.0
New Plymouth	93.4	224		—	—		23 20?	[-32]	41.7	43.7
Jersey	94.4	37		13 16	- 2		23 58	[0]	39.4	—
Rathfarnham Castle	94.4	32	i	13 23	+ 5	i	24 29	- 8	46.7	51.0
Apia	95.0	253	i	13 31	+11	i	24 20	[+19]	e 43.7	—
Carloforte	96.0	50		12 4	-81		23 16	[-50]	—	—
Bidston	96.1	33	i	13 27	+ 1	e	24 1	[- 5]	38.7	44.7
Oxford	96.2	35	e	13 19	- 7	i	23 49	[-18]	38.8	43.8
Honolulu	96.5	290	i	13 40	+13	i	24 8	[0]	44.0	—
Kew	96.5	36	i	13 26 ^a	- 1	i	24 9	[+ 1]	38.7	45.2
Stonyhurst	96.6	32	i	13 31	+ 3	i	24 1	[- 8]	42.7	44.3
Paris	96.8	39	i	13 27 ^a	- 2	i	24 19	[+ 9]	39.7	51.7
Sitka	97.3	330	e	13 31	0		24 7	[- 6]	e 44.2	—
Edinburgh	97.4	31	e	13 28	- 4	i	24 16	[+ 3]	41.7	55.2
Durham	97.5	32	e	13 50	+18	i	24 31	{- 3}	—	45.2
Besançon	98.1	41	e	17 40	PP		—	—	e 42.7	—
Neuchatel	98.7	42	e	13 38	0	e	24 37	{- 7}	—	—
Uccle	98.8	37		13 36	- 2	i	24 23	[+ 3]	42.7	45.8
Basle	99.3	42	e	13 38	- 2	e	24 40	{- 8}	—	—
De Bilt	99.8	36	i	13 41 ^a	- 2	e	24 28	[+ 3]	e 45.7	58.5
Scoresby Sund	99.8	14		13 43	0	e	24 38	{-14}	—	—
Strasbourg	99.8	40	e	13 40?	- 3		24 22	[- 3]	e 43.7	47.7
Zurich	99.8	42	e	13 41	- 2	e	24 25	[0]	—	—
Florence	100.1	46		13 44	0		25 40	+13	—	—
Karlsruhe	100.4	40		14 55	+70		25 32	+ 2	40.9	55.7
Stuttgart	100.7	41	i	13 45 ^a	- 2	i	24 33	[+ 4]	e 45.7	55.0
Padova	101.1	45	e	13 48	- 1		18 15	?	24.4	—
Melbourne	101.4	208	e	14 22	+32		24 53	{-10}	49.5	53.6
Göttingen	102.3	38	e	13 52	- 2	e	24 34	[- 3]	39.7	54.2
Triest	102.4	44		13 53 ^a	- 2		24 25	[-12]	44.4	51.2
Jena	103.0	40	e	13 58	+ 1	i	24 52	- 1	e 41.7	55.2
Laibach	103.1	39	e	18 15	PP	e	25 1	{-16}	e 42.9	—
Hamburg	103.1	36	e	13 55 ^a	- 3	e	24 54	[+13]	e 42.7	52.7
Cheb	103.2	41	e	13 56	- 2	i	25 2	{-15}	e 49.7	56.2
Bergen	103.4	29	(e 24 29)		S		24 29	[-13]	43.7	77.7
Graz	104.0	45	e	14 4	+ 2	i	25 1	{-22}	e 49.7	54.4
Zagreb	104.0	46	e	14 0 ^a	- 2	e	26 5	+ 3	e 52.4	63.7
Prague	105.0	41	e	14 0	- 6	e	24 46	[- 4]	e 41.7	54.7
Vienna	105.0	43	e	14 18	+12		24 51	[+ 1]	e 44.7	57.7
Copenhagen	105.2	35		14 7	- 1		24 55	[+ 4]	43.7	—
Tananarive	105.8	119		18 3	[- 1]		25 6	[+12]	e 43.7	57.7
College	106.2	334	e	14 11	- 1	e	25 59	{+20}	e 44.3	—
Belgrade	106.5	48	e	14 15 ^a	+ 1	e	24 58	[+ 1]	e 56.5	—
Budapest	E. 106.5	45	e	17 25	[-41]		28 11	?	e 44.7	54.7
	N. 106.5	45	e	17 55	[-11]		26 38	{+56}	45.7	50.7
Sofia	108.0	50	e	14 40	+19		25 22	[+18]	45.7	55.2
Upsala	109.0	32	e	14 35	+ 9	i	25 19	[+10]	e 44.7	50.8
Königsberg	109.3	37	i	18 53	PP		—	—	27.7	—
Lemberg	110.3	43	e	19 0	PP	e	26 30	{+21}	e 50.7	60.4
Bucharest	110.4	49	e	14 40	+ 7		25 30	[+15]	51.7	57.9
Sydney	110.6	215	e	14 4	-29	i	28 10	?	54.2	58.2
Riverview	110.6	215	e	14 34	+ 1		25 3	[-13]	45.7	56.2
Helwan	110.8	65	e	14 30	- 4		—	—	—	70.2
Czernowitz	111.1	44	e	14 22	-14		—	—	43.7	53.0
Ksara	115.5	62	e	16 40?	?		—	—	—	—
Adelaide	115.6	206	e	19 22	PP	i	35 41	SS	52.7	56.1
Sebastopol	115.7	50	e	18 40	[+ 6]	e	29 49	SKSP	60.7	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Yalta	116.1	50	e 18 42	[+ 7]	e 29 53	SKSP	50.7	—
Pulkovo	116.5	33	e 14 49	—14	e 25 45	+ 6	53.7	57.5
Simferopol	117.4	49	e 18 45	[+ 6]	e 29 50	SKSP	40.5	—
Moscow	119.1	38	e 15 11	— 4	27 8	— 2	54.2	71.4
Sotchi	119.9	52	e 18 12	[—34]	—	—	50.2	—
Piatigorsk	122.4	51	e 18 30	[—21]	—	—	50.2	—
Erevan	123.2	56	e 18 51	[— 2]	—	—	—	—
Tiflis	123.5	54	e 15 29	— 7	e 26 2	[— 1]	e 52.7	68.7
Grozny	124.3	52	e 18 59	[+ 3]	—	—	53.4	—
Perth	124.3	186	i 21 50	?	—	—	59.4	67.7
Baku	127.3	56	e 15 47	— 8	—	—	—	—
Sverdlovsk	131.3	33	e 16 4	—11	i 28 26	{— 4}	i 56.7	68.7
Samarkand	140.4	55	e 19 32	[+10]	e 32 34	SKSP	—	—
Tchimkent	141.7	50	e 19 37	[+13]	—	—	—	—
Tashkent	141.8	52	e 19 18	[— 6]	i 30 20	{+45}	—	55.9
Andijan	144.1	52	e 19 32	[+ 1]	—	—	62.7	—
Nemuro	144.7	313	19 32	[0]	—	—	—	—
Frunse	145.0	48	e 19 31	[— 3]	—	—	62.7	—
Bombay	145.1	90	26 35	?	30 1	{+ 7}	69.7	80.6
Kodaikanal	E. 146.2	107	i 19 34	[— 2]	30 2	{+ 1}	—	73.0
Obihiro	146.5	314	19 45	[+ 8]	—	—	—	—
Asahigawa	146.6	317	19 48	[+11]	—	—	—	—
Haboro	146.8	318	19 50	[+13]	—	—	—	—
Urakawa	147.1	312	19 48	[+11]	—	—	—	—
Sapporo	148.1	315	19 40	[+ 1]	—	—	—	—
Hakodate	148.6	313	19 27	[—13]	—	—	—	—
Aomori	149.0	311	19 47	[+ 7]	—	—	—	—
Malabar	149.2	174	i 19 50	[+10]	—	—	e 72.7	—
Morioka	149.2	309	19 56	[+16]	—	—	—	—
Mizusawa	E. 149.4	308	e 19 48	[+ 7]	31 16	{+57}	42.4	—
	N. 149.4	308	e 19 50	[+ 9]	30 39	{+20}	42.5	—
Akita	149.9	309	19 48	[+ 6]	—	—	—	—
Hyderabad	149.9	95	19 44	[+ 2]	33 49	SKSP	62.5	89.5
Sendai	149.9	306	19 45	[+ 3]	—	—	—	—
Batavia	150.2	173	i 19 40	[— 2]	—	—	e 47.7	—
Yamagata	150.3	306	19 59	{— 1}	—	—	—	—
Hokusima	150.4	306	19 46	[+ 4]	—	—	—	—
Aidu	150.7	306	20 7	{+ 5}	—	—	—	—
Tyosi	150.7	310	19 57	[+14]	—	—	—	—
Dehra Dun	150.8	69	20 10	{+ 8}	—	—	—	96.7
Titizima	150.8	284	19 56	{— 6}	—	—	—	—
Mito	150.8	303	20 0	{— 2}	—	—	—	—
Agra	150.9	76	19 39	[— 4]	30 12	{—15}	—	—
Kakioka	151.1	303	19 50	[+ 7]	—	—	—	—
Tukubasan	151.1	303	19 43	[0]	—	—	—	—
Niigata	151.3	308	20 6	{+ 1}	—	—	—	—
Kumagaya	151.5	304	19 53	[+ 9]	—	—	—	—
Palau	151.5	238	20 0	{— 6}	—	—	—	—
Tokyo	151.6	302	19 48	[+ 4]	—	—	—	—
Yokohama	151.7	301	20 2	{— 4}	—	—	—	—
Maebasi	151.9	304	19 39	[— 5]	—	—	—	—
Takada	152.2	305	19 58	{—11}	—	—	—	—
Misima	152.3	302	19 56	{—13}	—	—	—	—
Oiwake	152.3	304	19 49	[+ 4]	—	—	—	—
Hunatu	152.4	302	19 51	[+ 6]	—	—	—	—
Nagano	152.4	306	19 51	[+ 6]	—	—	—	—
Numadu	152.4	302	20 4	{— 6}	—	—	—	—
Kohu	152.5	302	19 53	[+ 8]	—	—	—	—
Wazima	153.1	308	19 50	[+ 4]	—	—	—	—
Husiki	153.3	306	19 57	[+11]	—	—	—	—
Vladivostok	153.3	322	19 46	[0]	e 30 44	{+ 3}	—	86.7

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Hamamatu	153.4	301	19 59	[+13]	—	—	—	—
Kanazawa	153.7	305	19 41	[-6]	—	—	—	—
Nagoya	153.9	302	e 19 58	[+11]	—	—	—	94.5
Gihu	154.0	302	19 55	[+8]	—	—	—	—
Ibukisan	154.3	302	19 37	[-10]	—	—	—	—
Hikone	154.4	302	20 1	{-18}	—	—	—	—
Kameyama	154.4	301	19 52	[+5]	—	—	—	—
Tu	154.4	301	20 24	{+5}	—	—	—	—
Kyoto	154.8	303	20 10	{-10}	—	—	—	—
Osaka	155.2	303	19 35	[-13]	—	—	—	—
Kobe	155.4	303	e 19 50	[+2]	—	—	e 44.0	73.0
Siomisaki	155.4	299	20 1	[+13]	—	—	—	—
Toyooka	155.4	305	19 54	[+6]	—	—	—	89.5
Sumoto	155.8	303	19 10	[-39]	e 43 46	SS	e 71.0	78.0
Wakayama	156.8	302	19 52	[+2]	—	—	—	—
Koti	157.1	301	19 48	[-2]	—	—	—	—
Medan	157.3	148	19 53	[+3]	—	—	i 62.7	—
Hamada	157.7	304	19 51	[0]	—	—	—	—
Hirosima	157.7	303	20 42	{+8}	—	—	—	—
Ooita	158.7	303	20 0	[+8]	—	—	—	—
Heizyo	159.5	323	20 7	[+14]	—	—	—	—
Hukuoka	159.5	303	e 18 58	?	33 53	SKSP	74.0	87.9
Hukuoka B	159.5	303	e 20 8	[+15]	e 28 11	?	e 44.3	—
Kumamoto	159.6	302	20 5	[+12]	—	—	—	—
Taikyu	159.7	312	e 20 7	[+14]	e 28 43	?	e 98.0	—
Husan	159.8	310	e 20 49	{+6}	e 24 29	?	—	—
Keizyo	159.8	318	e 20 10	[+16]	e 28 26	?	—	—
Unzendake	159.9	302	20 1	[+7]	—	—	—	—
Calcutta	N. 160.1	88	20 17	[+23]	—	—	—	103.7
Kagosima	160.1	298	20 2	[+8]	—	—	—	—
Zinsen	N. 160.1	318	e 19 49?	[-5]	e 27 33?	?	—	—
Nagasaki	160.3	302	20 26	{-19}	—	—	—	—
Tomie	161.1	302	20 29	{-20}	—	—	—	—
Nake	161.8	290	19 48	[-8]	—	—	—	—
Chiufeng	162.6	344	19 57a	[0]	i 31 38	{+5}	78.5	87.5
Manila	166.4	231	20 0a	[0]	31 26	{-27}	—	—
Isigakizima	167.0	277	19 40	[-21]	—	—	—	—
Zi-ka-wei	167.2	310	e 20 3	[+2]	—	—	58.4	86.6
Nanking	168.5	320	e 20 14	[+12]	32 23	{+19}	i 77.2	82.8
Giran	169.2	279	21 4	{-22}	—	—	—	—
Karenko	169.4	272	20 14	[+11]	—	—	—	—
Taihoku	169.4	281	e 20 19	[+16]	—	—	—	53.3
Taito	169.7	268	20 9	[+5]	—	—	—	—
Kosyun	170.0	264	20 2	[-2]	—	—	—	—
Arisan	170.1	273	20 7	[+3]	—	—	—	—
Taityu	170.2	276	20 11	[+7]	—	—	—	—
Tainan	170.6	269	20 31	[+27]	—	—	—	—
Phu-Lien	175.9	130	e 20 7	[0]	i 32 31	{-11}	72.7	—
Hong Kong	176.0	254	20 11	[+4]	36 21	SKSP	—	55.0

Additional readings :—

Montezuma $i = +55s.$
Rio de Janeiro $iSE = +9m.17s.$
Balboa Heights $e = +12m.20s., e = +14m.55s.$
San Juan $iP = +7m.53s., i = +8m.20s., iPcP = +9m.43s., i = +10m.44s., iS = +13m.30s., iSS = +17m.22s.$
Columbia $e = +13m.51s., eSS = +22m.48s.$
Pennsylvania $i = +12m.1s., e = +19m.36s., e = +20m.46s., e = +23m.59s., e = +28m.54s.$
Philadelphia $iPcP = +11m.1s., iPS = +20m.23s., e = +26m.25s. = SSSS + 0s.$
St. Louis $iPEN = +10m.42s., ipPEN = +10m.56s., isPEN = +11m.4s., iSSE = +19m.47s., iScSE = +20m.32s., iSSE = +23m.43s., iSSSE = +26m.5s.$
Florissant $ipP = +10m.57s., isPE = +11m.9s., iPPEN = +13m.10s., ipPPEN = +13m.25s., isSEN = +19m.47s., isPEN = +20m.2s., isSPEN = +20m.14s., iN = +20m.22s., isSEN = +23m.56s., isSSN = +24m.36s.$

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Weston ePKPP = +39m.10s.
 Oak Ridge iPE = +11m.0s., iSN = +19m.39s., iSE = +19m.41s., iN = +20m.47s. = ScS +10s., iN = +21m.41s.
 Ann Arbor ePP = +13m.52s., ePPPN = +15m.22s., iSS = +24m.40s., eSSS = +27m.34s.
 Chicago i = +12m.40s., i = +14m.30s., i = +22m.12s., i = +23m.9s., e = +25m.37s.
 Loyola iPP = +13m.15s.
 Toronto PPN = +13m.34s., iSSN = +24m.3s.
 Tucson eSS = +24m.48s., eSSS = +27m.40s.
 Vermont i = +11m.9s., +11m.40s., and +20m.41s.
 East Machias iPcP = +11m.18s., e = +15m.23s. = PPPP - 17s.
 Ottawa PPN = +13m.52s., SSS = +27m.40s.?
 Denver ePE = +11m.20s., iPcPEN = +11m.30s., iPcPEN = +11m.38s., iEN = +11m.42s., eEN = +20m.48s., iSSE = +20m.44s., iSSN = +20m.58s., eN = +25m.30s.
 La Jolla iPKPPKPZ = +39m.9s.
 Mount Wilson iSEZ = +21m.9s.
 Pasadena iSSN = +26m.9s., iPKPPKPZ = +39m.9s.
 Haiwee iPKPPKPZ = +39m.7s.
 Tinemaha ePKPPKP = +37m.54s.
 Cape Town PPE = +14m.21s., PPN = +14m.27s., PPPN = +16m.13s., PPPE = +16m.17s., PSE = +21m.33s., PSN = +21m.37s., SS = +25m.48s., SSS?E = +29m.32s., SSS?N = +29m.42s.
 Fresno ePSN = +22m.0s.
 Berkeley ePEN = +12m.2s., eSKSEN = +22m.4s., eSSEN = +27m.19s.
 Bozeman eSS = +26m.28s.
 Ukiah i = +22m.24s., PS = +22m.35s., SS = +27m.40s.
 Ferndale eE = +22m.49s.
 Ivigtut iS = +23m.20s., PS = +24m.22s., SS = +29m.10s., Lq = +35.7m.
 San Fernando iSKS = +22m.59s. = SKS + 1s., iSS = +29m.11s.
 Seattle e = +21m.55s., e = +23m.38s.
 Almeria PP = +16m.35s.
 Toledo i = +13m.27s., PP = +15m.51s., PS = +24m.15s., SS = +28m.42s., Lq = +35.8m.
 Algiers iPP = +16m.25s., iPPP = +18m.32s., iSKS = +23m.8s.
 Christchurch iP = +13m.10s., i = +16m.39s., iS = +22m.38s., iNZ = +23m.50s., iZ = +25m.10s., SSS = +30m.25s.
 Wellington pP = +13m.13s., i = +13m.53s., PP = +16m.39s., i = +18m.0s., PPP = +19m.4s., SKS = +23m.24s., PS = +25m.11s., PPS? = +16m.19s., SS = +29m.54s., Lr = +38m.0s., Lq = +33m.40s.
 Arapuni eS = +23m.46s., iPS = +25m.40s.?, iPPS = +27m.10s., iSS = +30m.16s., Lq? = +33.9m.
 Barcelona PS = +24m.49s.
 New Plymouth Lq = +33.7m.
 Jersey S? = +24m.7s.
 Rathfarnham Castle i = +13m.44s., SKS = +23m.43s., SS = +24m.43s., +31m.9s., +34m.58s.
 Apia iP = +13m.49s., iPP = +17m.22s., eSKS = +23m.49s., iPS = +25m.48s., eSS = +31m.2s.
 Bidston ePP = +17m.36s., iPS = +26m.30s., i = +35m.5s.
 Oxford iS = +24m.21s.
 Honolulu iPP = +17m.41s., S = +24m.52s., SS = +26m.12s.
 Kew ePP = +17m.30s., eEN = +24m.3s., iSKKSZ = +24m.27s., iZ = +26m.30s., iPS = +26m.37s., iSSE = +32m.15s., iN = +35m.11s.
 Stonyhurst iPP = +17m.37s., i = +24m.19s., i = +24m.24s., iPS = +26m.31s.
 Paris PP = +17m.25s., PS = +26m.41s.
 Sitka PP = +17m.40s., SKS = +23m.52s., S = +24m.26s., PS = +26m.32s., PPS = +27m.24s., eSSS = +35m.43s.
 Edinburgh e = +13m.34s., i = +17m.40s., +20m.53s., +24m.30s., +25m.21s., +26m.38s., +32m.5s., and +39m.15s.
 Neuchatel ePP = +17m.40s.
 Uccle PP = +17m.52s., iZ = +24m.38s., iSPZ = +26m.57s.
 Basle ePP = +17m.54s.
 De Bilt iPPZ = +17m.56s.
 Scoresby Sund e = +17m.20s., PP = +18m.4s., PS = +26m.58s.
 Strasbourg iPP = +17m.55s., iSKKS = +25m.40s.?, i = +25m.40s.?, iPS = +27m.10s., iSS = +32m.24s.
 Zurich ePP = +17m.50s., eS = +25m.27s.
 Florence i = +18m.25s.
 Stuttgart iPP = +17m.52s. and +18m.3s., e = +24m.45s., ePS = +27m.20s., eSS = +32m.40s., e = +33m.34s.
 Melbourne PKP = +18m.5s., PP = +18m.58s., SKKS = +25m.33s., PS = +28m.28s., SS = +34m.33s., i = +45m.10s.
 Göttingen ePPN = +17m.10s., ePPEZ = +18m.10s., eSKSEN = +24m.58s., ePSEZ = +27m.16s., eSSEN = +33m.22s.

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Triest $iPP = +18m.1s.$, $i = +18m.13s.$, $iN = +19m.5s.$, $iN = +24m.10s.$, $i = +24m.39s.$, $= +24m.55s.$ = SKKS + 1s. and $+25m.27s.$, $iPS? = +27m.29s.$, $i = +27m.40s.$ and $+28m.20s.$, $iSS = +33m.0s.$, $i = +42m.52s.$
 Jena $iN = +14m.5s.$, $i = +14m.10s.$, $e = +18m.8s.$, $eE = +24m.32s.$, $iE = +24m.57s.$ = SKKS - 1s., $eN = +25m.32s.$, $eEN = +27m.33s.$, $eN = +33m.5s.$
 Laibach $e = +27m.52s.$
 Hamburg $eZ = +18m.0s.$, $ePPE = +18m.27s.$, $eEZ = iE = +24m.57s.$, $eSKKS = +25m.1s.$, $ePSZ = +27m.40s.$, $ePPSN = +28m.40s.$, $iSSN = +33m.16s.$
 Cheb $ePP = +17m.27s.$, $e = +27m.49s.$
 Bergen $e = +26m.19s.$, $S = +33m.30s.$
 Graz $i = +27m.54s.$
 Zagreb $eNW = +14m.8s.$, $e = +18m.14s.$ = PP + 1s., $eNE = +18m.50s.$, $eZ = +21m.14s.$ and $+23m.16s.$, $e = +25m.4s.$, $eZ = +27m.59s.$, $e = +28m.4s.$, $eNW = +32m.8s.$, $eNEZ = +34m.7s.$
 Prague $ePP = +18m.34s.$, $ePPP = +21m.34s.$, $eSKKS = +25m.52s.$, $ePS = +27m.36s.$, $eSS = +33m.40s.$
 Vienna $PP = +18m.30s.$, $PS = +27m.42s.$
 Copenhagen $PP = +18m.22s.$, $+18m.39s.$, $e = +25m.7s.$, $e = +25m.55s.$, $eN = +26m.28s.$, $PSE = +27m.48s.$, $eN = iE = +28m.11s.$, $SS = +27m.52s.$
 Tananarive $iPPE = +18m.42s.$, $PSEN = +27m.48s.$, $SSEN = +33m.50s.$
 College $PP = +18m.44s.$, $ePS = +28m.4s.$, $e = +31m.35s.$, $eSS = +33m.38s.$
 Belgrade $ePP = +18m.58s.$, $ePS = +28m.14s.$
 Sofia $e = +18m.46s.$, $e = +28m.40s.?$
 Upsala $PPE = +18m.57s.$, $iE = +26m.20s.$, $iN = +26m.43s.$, $iE = +28m.40s.$
 Königsberg $iZ = +12m.20s.$, $eE = +18m.58s.$
 Bucharest $PPE = +19m.16s.$, $iE = +19m.45s.$, $PPPEN = +21m.12s.$, $SKKSEN = +26m.35s.$, $SEN = +27m.7s.$, $PSEN = +28m.45s.$
 Sydney $eP = +17m.52s.$, $SS = +34m.5s.$
 Riverview $eEN = +18m.55s.$, $= PP + 16s.$, $iEN = +29m.0s.$, $eEN = +33m.58s.$
 Helwan $PP = +19m.5s.$, $PPP = +21m.40s.$, $PS = +29m.5s.$
 Czernowitz $PP = +20m.22s.$, $PPP = +22m.13s.$
 Ksara $ePP = +19m.39s.$, $ePS = +29m.51s.$
 Adelaide $iP = +19m.39s.$, $i = +20m.13s.$, $iPKP? = +20m.59s.$, $iPP? = +25m.13s.$, $i = +27m.40s.$, $+29m.2s.$, $+29m.25s.$, $+29m.48s.$, $+36m.33s.$, and $+38m.40s.$, $iSS? = +42m.58s.$, $i = +48m.0s.$
 Pulkovo $PKP = +18m.37s.$, $PP = +19m.28s.$ and $+22m.12s.$, $e = +26m.54s.$, and $+28m.36s.$, $PS = +29m.20s.$, $PPS = +30m.56s.$, $SS = +36m.4s.$, $Lq = +47.7m.$
 Moscow $PKP = +18m.46s.$, $PP = +20m.10s.$, $PPP = +23m.7s.$, $e = +26m.1s.$, $e = +28m.20s.$, $PS = +30m.3s.$, $PPS = +31m.47s.$, $S = +36m.58s.$
 Tashkent $i = +19m.25s.$, $+19m.45s.$, and $+20m.4s.$, $e = +37m.52s.$
 Tiflis $ePKPZ = +18m.53s.$, $iZ = +19m.12s.$, $PPEZ = +20m.36s.$, $ePPPZ = +23m.18s.$, $iSKKSE = +27m.52s.$, $iPPSE = +32m.49s.$, $eSSE = +37m.17s.$
 Perth W.A. $P = +23m.15s.$, $PPP = +28m.50s.$, $PPPP = +31m.40s.$, $PPPPP = +33m.10s.$, $PS = +37m.10s.$, $PPS = +37m.40s.$, $i = +38m.40s.$, $SS = +42m.25s.$, $SSS = +47m.5s.$
 Baku $PKP = +19m.1s.$, $PP = +21m.4s.$, $i = +35m.17s.$
 Sverdlovsk $iPKP = +19m.6s.$, $iPP = +21m.36s.$, $iPKS = +22m.35s.$, $iPS = +31m.29s.$, $iPPS = +33m.37s.$, $SS = +38m.58s.$
 Bombay $PSKSE = +33m.17s.$, $PPSE = +35m.53s.$, $SSE = +41m.51s.$
 Kodaikanal $PPE = +23m.18s.$, $PPPE = +26m.33s.$, $PSKSE = +33m.20s.$, $SSE = +42m.55s.$
 Medan $ePN = +19m.57s.$, $iPN = +20m.25s.$
 Agra $SKPE = +23m.14s.$, $iPPPE = +26m.57s.$, $PSKSE = +33m.41s.$, $PPSE = +36m.42s.$, $SSE = +42m.52s.$, $SSSE = +48m.55s.$
 Vladivostok $e = +21m.39s.$, $+22m.30s.$, $+27m.14s.$, and $+29m.15s.$
 Kobe $ePE = +20m.2s.$, $PZ = +20m.5s.$, $eE = +39m.5s.$
 Sumoto $eZ = +24m.5s.$, $eE = +24m.25s.$, $eE = +44m.29s.$, $eZ = +44m.35s.$, $eE = +71m.2s.$, $eZ = +72m.23s.$, $eN = +73m.24s.$
 Hukuoka $PP = +24m.28s.$, $eSS = +44m.44s.$
 Taikyū $e = +24m.32s.$ = PP + 18s.
 Calcutta $PKP_2 = +22m.4s.$, $SKPN = +23m.52s.$, $PPN = +25m.54s.$
 Chiufeng $iZ = +20m.13s.$, $iPKP_2 = +20m.49s.$ = $PKP_2 - 7s.$, $iPKP_2N = +21m.5s.$, $iPP = +24m.43s.$, $iSKSPEN = +35m.13s.$, $iSSNZ = +45m.5s.$ = $SS - 6s.$, $iSSE = +45m.8s.$, $iSSSN = +51m.24s.$
 Manila $iPE = +20m.3s.$, $iPN = +20m.5s.$
 Zi-ka-wei $iZ = +20m.15s.$, $+25m.11s.$, and $+25m.23s.$
 Nanking $PKPEN = +20m.23s.$, $PKPZ = +21m.34s.$, $PP = +25m.10s.$, $SKS = +27m.4s.$, $PPPEZ = +28m.32s.$, $iEN = +33m.17s.$, $iEZ = +44m.1s.$, $SS = +46m.3s.$, $SSS = +53m.12s.$, $iSSSS = +58m.12s.$
 Phu-Lien $PP = +25m.25s.$, $e = +46m.40s.?$
 Hong Kong $PP? = +20m.28s.$, $? = +21m.57s.$ = $PKP_2 + 0s.$, $PPP = +25m.45s.$, $SS? = +48m.16s.$, $SSS? = +53m.44s.$

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July 13d. 19h. 16m. 10s. Epicentre 25°·2S. 69°·6W. (as on 1932 April 26d.). X.

$$A = +.3154, B = -.8481, C = -.4258; \quad \delta = +6;$$

$$D = -.937, E = -.349; \quad G = -.148, H = +.399, K = -.905.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago	8.2	186	2 14	P*	3 50	+21	—	—
La Paz	8.9	9	e 2 4	- 2	i 4 6	+20	4.7	5.5
La Plata	14.0	137	3 26	+11	—	—	6.9	—
Rio de Janeiro	E. 24.3	90	(e 5 20)	+ 7	(e 9 32)	+ 4	—	—
Weston	67.6	359	i 10 45	-11	—	—	—	—
Riverside	z. 74.5	320	i 11 37	0	—	—	—	—
Mount Wilson	z. 75.0	320	i 11 31	- 9	—	—	—	—
Pasadena	z. 75.0	320	i 11 30	-10	—	—	—	—
Tinemaha	77.3	322	e 11 43	-11	—	—	—	—
Sverdlovsk	132.6	35	e 19 6	[- 5]	e 22 34	PP	57.8	—
Andijan	145.0	56	e 19 31	[- 3]	—	—	—	—
Frunse	145.9	52	e 19 30	[- 6]	—	—	—	—

Rio de Janeiro readings have been *diminished* by 10m.
Copenhagen also records long waves.

July 13d. Readings also at 0h. (near Triest), 1h. (Hastings and near Tiflis), 2h. (Hastings), 4h. (Grozny, Piatigorsk, and near Tiflis), 5h. (near Mizusawa), 9h. (Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, and Mizusawa), 11h. (San Javier and Mizusawa), 12h. (Basle and near Zurich), 13h. (Ann Arbor), 15h. (near Santiago), 16h. (Santiago (2) and La Paz), 18h. (La Paz and near Santiago (2)), 19h. (La Paz), 20h. (La Paz and Santiago), 21h. (Mount Wilson, Pasadena, and near Santiago), 22h. (Santiago, La Paz (2), Grozny, near Mizusawa, and Nagoya), 23h. (La Paz, Santiago, Yalta (2), Simferopol (2), Grozny, Erevan, near Tiflis, Christchurch, and near Wellington).

July 14d. 9h. Shock: South-West Pacific.

Apia eP = 48m.42s., eL = 50.2m.
Christchurch eP = 50m.46s., eS = 55m.48s., L = 58m.53s., M = 61m.26s.
Wellington eP? = 53m.20s., eL = 57m.
Adelaide e = 53m.36s., eL = 67m.24s., M = 70m.36s.
Tiflis eN = 54m.45s., eZ = 65m.25s., eE = 69m.11s., eL = 128m., M = 139m.36s.
La Jolla ePZ = 57m.42s.
Pasadena iPZ = 57m.45s., eLZ = 83m.
Mount Wilson iPZ = 57m.46s.
Riverside iPZ = 57m.47s.
Tinemaha iP = 57m.55s.
Tucson eP = 58m.8s., e = 68m.14s., eS = 68m.44s., eL = 84m.48s.
Chiufeng ePEZ = 58m.52s., M = 70m.
Riverview e = 59m.12s., eL = 64m.48s., M = 66m.12s.
Sydney e = 59m.54s., L = 65m.33s., M = 68m.
Melbourne e = 63m.0s., i = 65m.5s., L = 68m.13s., M = 70m.24s.
Strasbourg e = 65m., eL = 129m.
Pulkovo e = 65m.30s.
Stuttgart eZ = 65m.45s., eL = 136m.
Sverdlovsk e = 66m.50s., 73m.52s., and 76m.56s., L = 100m.
La Paz eE = 67m.55s., L = 94m.0s., M = 96m.46s.
Huancayo e = 71m.35s., eL = 90m.30s.
Scoresby Sund 84m., L = 102m.
Tashkent e = 98m.0s., 109m.12s., 132m.0s., M = 133m.12s.
Long waves were also recorded at Ukiah, Honolulu, Vladivostok, Cape Town, Baku, Copenhagen, Paris, San Fernando, and Granada.

July 14d. Readings also at 0h. (near Manila), 1h. (La Paz and Santiago), 5h. (near New Plymouth and near Triest), 7h. (La Paz and Santiago), 8h., 11h. (2), and 12h. (La Paz), 13h. (Medan), 15h. (La Paz and San Juan), 16h. (Grozny, Piatigorsk, Sochi, Tiflis, and near Erevan), 17h. (La Paz), 18h. (La Paz, Ann Arbor, Scoresby Sund, Copenhagen, De Bilt, Paris, Strasbourg, Stuttgart, and near Reykjavik (2)), 20h. (near Mizusawa and Nagoya), 21h. (Chicago and Sverdlovsk), 22h. (Adelaide, Melbourne, Wellington, Calcutta, Mount Wilson, Pasadena, Tinemaha, Ukiah, Florissant, St. Louis, Philadelphia, and near Hukuoka B), 23h. (La Paz (2), Rio de Janeiro, Scoresby Sund, Granada, Strasbourg, Paris, De Bilt, Stuttgart, Kew, Edinburgh, Copenhagen, Sverdlovsk, Tashkent, and near Sumoto).

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July 15d. 1h. 54m. 56s. Epicentre 36°·5N. 141°·3E. R.1.
(as on 1934 Nov. 17d. and as given by Seismo. Bull., Central Met. Observatory Japan).

$$A = -.6274, B = +.5026, C = +.5948; \quad \delta = +2;$$

$$D = +.625, E = +.780; \quad G = -.464, H = +.372, K = -.804.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Onahama	0·5	324	-0 1k	- 8	0 11	- 2	—	—
Mito	0·6	260	0 10	+ 1	0 21	+ 6	—	—
Tyosi	0·8	205	0 7k	- 4	0 18	- 3	—	—
Tukubasan	1·0	254	0 13k	- 1	0 21	- 5	—	—
Utunomiya	1·1	273	0 16	0	0 35	+ 7	—	—
Hukusima	1·4	332	0 22k	+ 2	0 44	S*	—	—
Kiyosumi	1·5	215	0 27	SP	0 43	S*	—	—
Tokyo	1·5	237	0 20k	- 1	0 42	S*	—	1·3
Tokyo (I.U.)	1·5	237	0 20	- 1	0 39	0	—	—
Komaha	1·6	237	0 23	0	0 44	+ 3	—	—
Kumagaya	1·6	257	0 22	- 1	0 44	S*	—	—
Mitaka	1·6	240	0 22	- 1	0 43	+ 2	—	—
Yokohama	1·7	231	0 22	- 2	0 45	+ 1	—	—
Maebasi	1·8	267	0 35k	+ 9	1 2	+16	—	—
Sendai	1·8	350	0 27a	+ 1	0 51	S*	—	—
Isinomaki	1·9	0	0 29	+ 1	0 52	+ 3	—	—
Yamagata	1·9	337	0 35	+ 7	1 7	+18	—	—
Mera	2·0	216	0 26	- 3	0 58	S*	—	—
Oiwake	2·2	266	0 32	+ 1	1 10	S*	—	—
Hunatu	2·3	244	0 33	0	1 7	S*	—	—
Misima	2·3	234	0 32a	- 1	1 13	S*	—	—
Niigata	2·3	309	0 41	P _g	1 21	S*	—	—
Ito	2·4	229	0 34k	0	1 6	+4	—	—
Kohu	2·4	249	0 33	- 1	1 5	+3	—	—
Numadu	2·4	235	0 30	- 4	1 7	+5	—	—
Nagano	2·5	274	0 38	P*	1 11	S*	—	—
Takada	2·5	284	0 45	P _g	1 26	+22	—	—
Mizusawa	E. 2·6	357	e 0 43	+ 6	e 1 16	S*	—	—
	N. 2·6	357	c 0 40	+ 3	1 13	+ 6	—	—
Susaki	2·6	227	0 35	- 2	1 11	+ 4	—	—
Matumoto	2·7	264	0 39	0	1 12	+ 3	—	—
Ida	2·9	251	0 46k	P*	1 26	S*	—	—
Omaesaki	3·1	234	0 40	- 4	1 48	+28	—	—
Miyako	3·2	10	0 49	+ 3	1 30	S*	—	—
Morioka	3·2	358	0 48k	+ 2	1 30	S*	—	—
Takayama	3·2	266	0 50	+ 4	2 1	?	—	—
Akita	3·3	343	0 52	P*	1 41	S*	—	—
Toyama	3·3	274	0 52	P*	1 39	S*	—	—
Hamamatu	3·4	241	0 54	P*	1 24	- 3	—	—
Husiki	3·4	277	0 50	+ 1	1 25	- 2	—	—
Hatidyozima	3·6	201	0 48	- 3	1 23	- 9	—	—
Wazima	3·6	285	0 55	+ 4	2 4	+32	—	—
Kanazawa	3·7	271	0 54	+ 1	2 0	S*	—	—
Nagoya	3·7	249	0 54	+ 1	1 50	S*	—	2·2
Gihu	3·8	254	0 56	+ 2	1 44	+ 7	—	—
Ibukisan	4·1	255	0 59	+ 1	1 38	- 7	—	—
Kameyama	4·2	248	1 0	0	2 8	S*	—	—
Aomori	4·3	354	1 4	+ 3	2 20	S*	—	—
Hikone	4·3	255	1 3	+ 2	1 56	+6	—	—
Tu	4·3	248	0 57	- 4	2 4	S*	—	—
Kyoto	4·7	254	1 12	+ 5	—	—	—	—
Yagi	4·9	248	1 18	P*	2 31	S*	—	—
Osaka	5·0	251	1 24	P*	2 35	S*	—	—
Hakodate	5·3	355	1 20	+ 5	2 36	S*	—	—
Kobe	5·3	252	e 1 14	- 1	e 2 33	S*	—	2·8

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.
Toyooka	E.	5.3	262	1 17	+ 2	2 31	+16	—	2.3
	N.	5.3	262	e 1 22	+ 7	2 35	+20	—	3.0
	Z.	5.3	262	1 18	+ 3	2 28	+13	—	3.2
Siomisaki		5.4	237	(2 13)	- 4	2 13	- 5	—	—
Wakayama		5.5	249	1 31	P*	2 36	S*	—	—
Sumoto		5.6	249	1 9	-11	2 35	+12	—	2.6
Muroran		5.8	357	1 22	0	2 45	S*	—	—
Urakawa		5.8	10	1 6	-16	—	—	—	—
Okayama		6.2	255	1 49	P*	3 32	S _g ?	—	—
Obihiro		6.6	12	1 39	+ 5	3 2	+14	—	—
Sapporo		6.6	0	1 47	P*	3 11	S*	—	—
Koti		7.0	248	1 38	- 1	3 17	S*	—	—
Matuyama		7.4	253	1 49	+ 4	3 52	S _g	—	—
Nemuro		7.6	24	1 49	+ 1	3 2	-12	—	—
Miyazaki		9.3	244	2 11k	0	4 9	+13	—	—
Hukuoka B		9.4	255	e 2 42	+29	e 4 50	S _g	—	—
Titizima		9.5	176	2 7	- 7	—	—	—	—
Vladivostok		9.7	315	i 2 22	+ 5	e 4 22	+16	—	6.1
Nanking		19.0	263	e 3 20	-59	e 8 15	+29	e 11.5	13.5
Chiufeng		20.0	288	e 4 24	- 6	i 8 51	+45	e 11.4	14.4
Manila		28.4	225	5 32	-19	12 20	?	—	—
Frunse		50.4	298	e 8 44	-10	—	—	—	—
Andijan		52.6	298	e 8 51	-20	—	—	—	—
Tashkent		54.6	299	i 9 24	- 2	17 4	0	e 28.1	34.1
Sverdlovsk		55.3	320	i 9 28	- 3	17 14	+ 1	28.1	35.5
Moscow		67.4	323	e 10 50	- 4	20 6	+16	e 35.6	43.4
Baku		68.2	305	e 10 59	0	e 20 17	+18	34.6	44.2
Pulkovo		68.3	330	11 8	+ 8	e 20 16	+15	36.1	42.6
Tiflis		70.9	308	e 11 13	- 3	e 20 45	+13	37.1	47.0
Scoresby Sund		72.3	354	—	—	21 13	+25	41.1	—
Pasadena	Z.	77.8	56	e 11 59	+ 2	—	—	e 36.1	—
Copenhagen		78.0	333	11 58	+ 1	22 5	+11	41.1	—
Riverside	Z.	78.4	56	e 12 4	+ 5	—	—	—	—
Mount Wilson	Z.	79.4	56	i 11 59	- 6	—	—	—	—
Stuttgart		84.7	331	e 12 28	- 4	—	—	e 47.1	—
Triest		85.2	326	—	—	e 22 52	-18	—	45.8

Additional readings :—

Kobe eS₁N = +2m.27s.

Siomisaki +2m.54s. = S_g + 2s.

Chiufeng iN = +9m.35s.

Long-waves were also recorded at Hong Kong and other European stations.

July 15d. 11h. 50m. 22s. Epicentre 30°·6N. 141°·8E. (as on 1936 June 28d.) R.2.

A = -·6764, B = +·5323, C = +·5090 ; $\delta = -6$;
D = +·618, E = +·786 ; G = -·400, H = +·315, K = -·861.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya		6.2	319	e 1 35	+ 7	e 2 18	-20	—	—
Kobe		7.0	308	e 1 48	+ 9	—	—	—	4.5
Toyooka		7.7	313	1 40	- 9	—	—	—	—
Mizusawa		8.5	355	e 1 58	- 2	e 3 20	-16	—	—
Hukuoka B		10.2	290	2 25	+ 1	e 5 20	S _g	—	—
Taikyu		12.2	299	e 2 56	+ 5	—	—	i 7.3	—
Nanking		19.7	281	e 4 35	+ 9	e 9 11	+71	e 11.6	—
Chiufeng		22.9	302	e 5 0	0	e 8 57	- 6	—	14.7
Manila		24.9	235	5 23	+ 4	9 56	+17	—	—
Tashkent		58.0	304	e 16 38?	?	e 18 10	+21	e 27.6	36.2

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Sverdlovsk	60.1	322	10 3	- 2	18 16	- 1	28.6	—
Pulkovo	73.6	331	11 38	+ 6	20 59	- 5	37.6	46.1
Tiflis	75.0	311	e 11 38	- 2	e 21 15	- 5	e 39.1	48.0
Tinemaha	79.1	53	e 12 3	0	—	—	—	—
Simferopol	79.9	317	e 12 4	- 3	—	—	—	—
Yalta	80.2	316	e 12 8	- 1	—	—	—	—
Mount Wilson	z. 80.7	55	i 12 10k	- 2	—	—	—	—
Pasadena	80.7	55	i 12 10k	- 2	—	—	e 42.6	—
Riverside	81.3	55	i 12 14k	- 1	—	—	—	—
Copenhagen	83.5	334	—	—	22 44	- 8	45.6	—
Ksara	85.0	309	e 12 35	+ 2	e 24 0	PS	—	20.4
Tucson	86.8	55	e 12 42	0	e 23 14	-11	e 44.9	—
Stuttgart	90.2	331	—	—	e 23 38?	-20	e 52.6	—
Strasbourg	90.9	332	(e 12 38?)	-24	—	—	e 12.6	—
Granada	104.9	334	—	—	e 22 38	?	43.6	—
San Fernando	106.6	335	—	—	(22 38?)	?	22.6	—
La Paz	N. 149.3	70	i 19 50	[+ 9]	—	—	—	—

Additional readings :—

Kobe ePN = +1m.53s.

Tashkent iS = +19m.37s. = S_cS - 1s.

Riverside iZ = +12m.43s.

Long waves were also recorded at Hong Kong, Bombay, Baku, Moscow, De Bilt, Bidston, and Paris.

July 15d. 14h. 47m. 22s. Epicentre 37°·9N. 69·8E. X.

(given by the Russian stations and as on 1935 Dec. 19d.).

$$A = +.2725, B = +.7405, C = +.6143; \quad \delta = -4;$$

$$D = +.938, E = -.345; \quad G = +.212, H = +.577, K = -.789.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Samarkand	2.8	309	0 42	+ 2	e 1 22	+10	—	—
Tashkent	3.4	353	i 0 58	P*	—	—	i 1.9	3.5
Andijan	3.5	34	e 0 52	+ 2	e 1 42	S*	—	2.0
Tchimbkent	4.4	357	e 1 2	- 1	i 2 16	S _g	—	2.4
Frunse	6.2	34	e 1 25	- 3	i 2 49	+11	—	—
Tiflis	19.5	290	e 4 7	-17	e 7 55	- 1	e 15.1	—
Sverdlovsk	19.9	345	i 4 20	- 9	e 8 19	+15	10.6	—

Additional readings :—

Samarkand e = +1m.5s., iS_g = +1m.30s.

Andijan e = +1m.0s. and +1m.14s., S_g = +1m.52s.

Tiflis e = +4m.11s.

Sverdlovsk i = +8m.23s.

Long waves were also recorded at Baku.

July 15d. Readings also at 0h. (La Paz, near Santiago (2), and near Tiflis), 1h. (La Plata, Rio de Janeiro, and near Santiago), 2h. (Santiago and near Nagoya), 4h. (Drome and La Paz), 6h. (Tiflis and near San Javier), 7h. (Tiflis, Sverdlovsk, Manila, and near Sumoto), 10h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Tucson, La Paz, De Bilt, Strasbourg, Tiflis, Christchurch, Apia, and Wellington), 11h. (Adelaide, Melbourne, Riverview, Wellington, Honolulu, Huancayo, Ukiah, Tashkent, Simferopol, Yalta, Ksara, Sverdlovsk, and Stuttgart), 12h. (Hong Kong), 14h. (Strasbourg), 17h. (Tiflis, Tashkent, Baku, Sverdlovsk, La Plata, Santiago, Christchurch, New Plymouth, and near Wellington), 19h. (Alicante), 20h. (Santiago), 22h. (Baku, Sverdlovsk, Tiflis, Ksara, Tashkent, La Paz, La Plata, Rio de Janeiro, and Santiago), 23h. (Tiflis).

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July 16d. 7h. 7m. 53s. Epicentre 46°·2N. 118°·2W. N.2.

(given by U.S. Coast and Geodetic Survey).

A = -·3271, B = -·6100, C = +·7218; $\delta = +9$;
D = -·881, E = +·473, G = -·341, H = -·636, K = -·692.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Seattle	3·2	299	0 40	- 6	i 1 23	+ 1	—	—
Victoria	4·1	305	e 0 57	- 1	i 1 52	+ 7	2·0	2·4
Bozeman	5·0	93	1 13	+ 2	e 2 19	+11	—	—
Ferndale	7·2	220	e 1 51	+ 9	e 3 19	+15	—	—
Ukiah	8·0	209	e 1 55	+ 2	i 3 21	- 3	i 4·8	—
Berkeley	8·9	201	e 2 3	- 3	e 3 45	- 1	—	—
San Francisco	N. 9·0	202	i 1 48	-19	i 3 38	-11	—	—
Tinemaha	9·1	180	e 2 7	- 2	i 4 39	S*	—	—
Branner	9·2	200	e 1 52	-18	—	—	—	—
Lick	9·2	197	e 2 11	+ 1	—	—	—	—
Fresno	N. 9·6	188	e 2 14	- 2	e 3 28	-35	—	—
Denver	11·7	119	e 2 18	-26	e 4 19	-36	i 5·7	6·2
Mount Wilson	12·0	179	i 2 47	- 1	—	—	—	—
Pasadena	12·1	180	i 2 48	- 2	—	—	i 6·3	—
Riverside	12·2	177	i 2 50	- 1	—	—	—	—
La Jolla	13·4	176	e 3 3	- 4	—	—	—	—
Tucson	15·0	155	e 3 30	+ 2	e 6 28	+13	e 7·6	—
Sitka	15·1	322	e 3 33	+ 3	e 6 52	?	i 7·8	—
Madison	20·6	87	i 4 39	+ 3	e 8 37	SSS	11·0	—
Florissant	21·7	100	e 4 49	+ 1	e 8 46	+ 6	e 10·8	11·8
St. Louis	21·8	100	e 4 50	+ 1	e 8 50	+ 8	i 10·7	11·9
Chicago	22·3	90	e 7 51	?	e 9 52	+60	e 10·5	—
College	24·6	330	e 5 21	+ 5	e 9 45	+11	13·3	—
Ann Arbor	24·8	85	—	—	e 11 37	?	i 13·6	16·4
Toronto	27·3	80	—	—	e 10 37	+17	i 14·4	—
Ottawa	29·3	75	—	—	e 10 55	+ 2	e 14·6	—
Pennsylvania	29·4	85	—	—	e 13 39	?	e 15·1	17·4
Columbia	30·6	99	—	—	e 12 57	SSS	—	—
Vermont	31·2	75	—	—	e 12 16	+53	i 16·4	—
Philadelphia	31·6	85	—	—	e 10 53	-36	e 14·9	—
Oak Ridge	33·1	78	—	—	e 15 25	?	e 18·6	—
East Machias	35·0	74	—	—	e 17 13	S _c S	i 18·9	—
Ivigut	41·7	43	—	—	14 13	+11	21·1	—
Scoresby Sund	49·1	26	—	—	15 42	- 6	25·1	—
Rathfarnham Castle	64·9	38	—	—	25 44	SSS	e 37·2	40·6
Pulkovo	70·9	16	e 11 19	+ 3	e 20 34	+ 2	36·1	41·7
Sverdlovsk	77·0	1	11 50	- 2	e 21 43	0	34·1	—
Dakar	86·6	72	e 12 38	- 3	i 17 11	?	39·9	—
Tifis	90·8	13	e 14 8	+67	e 25 11	+67	46·1	60·4
Tashkent	92·2	354	—	—	e 23 47	[+·1]	e 46·1	54·6
Ksara	96·6	22	18 11	?	—	—	—	—

Additional readings :—

Bozeman e = +1m.28s. = P* + 6s., eS = +2m.34s. = S* + 7s.

Ferndale eEN = +3m.45s. = S_g - 7s.

Ukiah i = +2m.27s., e = +2m.44s. and +2m.47s., i = +3m.56s. = S* + 0s.,
i = +4m.28s.

Berkeley ePE = +2m.6s. = PPP + 0s., eN = +2m.46s. and +3m.8s.

Branner eE = +1m.59s., eN = +2m.45s.

Denver ePPN = +2m.37s., eE = +3m.13s., eN = +3m.19s., eE = +4m.3s.,
eEN = +4m.57s. = SS + 2s.

Sitka e = +7m.15s.

Florissant iSE = +8m.50s., eSSN = +9m.37s.

St. Louis iPEN = +4m.58s., iSE = +8m.53s., iN = +11m.43s.

College eSS = +11m.12s.

Ann Arbor eE = +12m.55s., i = +13m.13s.

Columbia e = +15m.16s., e = +16m.18s.

Vermont e = +13m.26s., +14m.42s., and +16m.16s.

Philadelphia eSS = +12m.21s.

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Oak Ridge $i = +17m.22s.$
 East Machias $i = +18m.12s.$
 Scoresby Sund $+19m.43s.$
 Rathfarnham Castle $e = +30m.42s.$
 Dakar $ePP = +15m.59s., ePPP = +18m.6s., ePS = +24m.18s.$
 Tashkent $e = +26m.7s., e = +35m.7s.$
 Ksara $ePS = +27m.24s.$

Long waves were also recorded at Honolulu, Huancayo, San Juan, La Paz, Nanking, Chiufeng, Baku, and several European stations.

July 16d. Readings also at 0h. (near Wellington), 1h. (Tifis, near Hukuoka B, near Sumoto, and near Sochi), 3h. (near San Javier and near Santiago), 4h. (La Paz and near Nagoya), 5h. (near Lick and near Manila), 7h. (Almata, Andijan, Frunse, Piatigorsk, Samarkand, and Tchimkent), 9h. (near La Paz), 11h. (La Paz, Chiufeng, Nanking, Sverdlovsk, near Hukuoka B, and near Nagoya), 13h. (Zagreb, Andijan, Semipalatinsk, Tashkent, near Samarkand, near Wellington and Hastings), 16h. (La Paz (2), Rio de Janeiro, and Weston), 17h. and 18h. (near Berkeley), 19h. (near Manila), 21h. (Apia and Berkeley), 22h. (Ksara, Simferopol, Yalta, Sverdlovsk, Tashkent, Tifis, Granada, Tucson, Mount Wilson, Pasadena, Tinemaha, and Ukiah), 23h. (De Bilt, Uccle, Paris, Strasbourg, Stuttgart, Tashkent, Frunse, Andijan, near Almata, and near Tifis (2)).

July 17d. 17h. 29m. 11s. Epicentre $1^{\circ}5N. 77^{\circ}0W.$ N.3.

$A = +.2249, B = -.9740, C = +.0262; \delta = -6;$
 $D = -.974, E = -.225; G = +.006, H = -.025, K = -1.000.$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Huancayo	13.6	173	e 3 7	- 3	e 5 11	-30	e 7.8	—
La Paz	20.0	154	4 32 _a	+ 2	i 8 9	+ 3	10.2	11.3
San Juan	20.0	32	e 4 0	-30	8 16	+10	e 10.5	—
Tucson	44.3	318	e 8 5	- 2	e 15 1	+21	e 20.8	—
Mount Wilson	z. 50.3	316	e 8 53	- 1	—	—	—	—
Pasadena	z. 50.4	316	e 8 56	+ 2	—	—	—	—
Tinemaha	52.0	319	i 9 6	0	—	—	—	—

Additional readings:—

Huancayo $e = +6m.58s.$
 La Paz $iSZ = +8m.16s.$
 San Juan $iS = +8m.35s., e = +9m.54s.$
 Tucson $eSS = +18m.7s.$

Long waves were also recorded at Rio de Janeiro, De Bilt, Sverdlovsk, and Tashkent.

July 17d. Readings also at 0h. (La Paz and near Tifis), 1h. (Branner, Lick, Weston, and near La Paz), 4h. (La Plata and near Santiago), 5h. (near Santiago), 8h. (Tifis), 10h. and 11h. (near Apia), 12h. (Frunse, Samarkand, Tashkent, near Andijan, and near Toyooka), 13h. (Sverdlovsk), 16h. and 18h. (near Nagoya), 20h. (Santiago).

July 18d. 17h. 48m. 39s. Epicentre $37^{\circ}4N. 141^{\circ}5E.$ R.1.

(as on 1935 March 30d., and determined for Seismo. Bull., Central Met. Observatory, Tokyo).

$A = -.6217, B = +.4945, C = +.6074; \delta = -2;$
 $D = +.623, E = +.783; G = -.475, H = +.378, K = -.794;$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Onahama	0.7	226	0 10 _k	0	0 19	+ 1	—	—
Hokusima	0.9	293	0 15 _k	+ 2	0 32	+ 9	—	—
Sendai	1.0	330	0 14 _k	0	0 27	+ 1	—	—
Aidu	1.1	279	-0 27 _k	?	-0 11	?	—	—
Isinomaki	1.1	352	0 15	- 1	0 27	- 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.
Mito	1.3	219	0 17	- 1	0 32	- 1	—	—
Yamagata	1.3	313	0 14	- 4	0 31	- 2	—	—
Kakioka	1.6	222	0 23k	0	0 40	- 1	—	—
Utunomiya	1.6	237	(0 28)	P _g	(0 46)	S*	—	—
Tukubasan	1.7	223	0 22k	- 2	0 40?	- 4	—	—
Tyosi	1.7	197	0 23	- 1	0 44	0	—	—
Mizusawa	1.8	350	i 0 27	+ 1	i 0 48	+ 2	—	—
Niigata	2.0	285	0 32	P*	0 59	S*	—	—
Kumagaya	2.1	234	0 30	0	0 53	- 1	—	—
Maebasi	2.2	241	0 31	0	0 59	+ 2	—	—
Tokyo	2.2	219	0 31	0	0 58	+ 1	—	—
Tokyo, I.U.	2.2	219	0 30	- 1	1 2	S*	—	—
Komaba	2.3	220	0 29	- 4	1 1	+ 2	—	—
Mitaka	2.3	222	0 32	- 1	1 3	+ 4	—	—
Miyako	2.3	10	0 14a	-19	0 42	-17	—	—
Morioka	2.3	353	0 33k	0	1 0	+ 1	—	—
Kiyosumi	2.4	205	0 34	0	1 7	+ 5	—	—
Yokohama	2.5	217	0 35	- 1	1 3	- 1	—	—
Akita	2.6	334	1 6	+29	1 43	+36	—	—
Kamakura	2.6	217	0 36	- 1	1 15	S*	—	—
Oiwake	2.6	246	0 38	+ 1	1 21	S _g	—	—
Takada	2.6	262	0 52	P _g	1 32	+25	—	—
Nagano	2.8	254	0 41	+ 1	1 27	S _g	—	—
Mera	2.9	209	0 40	- 1	1 28	S _g	—	—
Hunatu	3.0	228	0 41	- 2	1 16	- 1	—	—
Kohu	3.0	232	0 42	- 1	1 21	+ 4	—	—
Ito	3.1	219	0 46	+ 2	1 21	+ 1	—	—
Matumoto	3.1	248	0 50	P*	1 25	+ 5	—	—
Misima	3.1	222	0 43	- 1	1 24	+ 4	—	—
Susaki	3.4	216	0 45	- 4	1 32	+ 5	—	—
Aomori	3.5	351	0 52	+ 2	1 42	S*	—	—
Toyama	3.5	257	0 51	+ 1	1 57	+27	—	—
Husiki	3.7	261	1 6	P _g	1 39	+ 4	—	—
Wazima	3.7	274	0 54	+ 1	1 42	+ 7	—	—
Kanazawa	4.0	258	1 2	+ 5	2 7	S _g	—	—
Hamamatu	4.1	228	1 2k	+ 4	1 45	0	—	—
Gihu	4.3	243	1 3	+ 2	1 53	+ 3	—	—
Nagoya	4.3	240	e 1 2	+ 1	1 48	- 2	—	2.5
Hatidyozima	4.5	198	1 2	- 2	1 49	- 6	—	—
Hakodate	4.5	352	1 18	+14	2 23	S _g	—	—
Ibukisan	4.6	245	1 11	+ 5	2 6	+ 8	—	—
Hikone	4.8	244	1 9	+ 1	2 11	+ 8	—	—
Kameyama	4.8	238	1 12	+ 4	2 19	S*	—	—
Sapporo	5.7	359	1 30	+ 9	2 45	S*	—	—
Toyooka	5.7	252	1 21	0	2 37	+12	—	3.3
Kobe	5.8	244	1 33a	P*	e 2 35	+ 7	—	3.2
Wakayama	6.1	239	1 31	+ 4	2 58	S*	—	—
Sumoto	6.2	242	e 2 8	P _g	e 3 3	S*	—	3.2
Vladivostok	9.3	311	e 2 11	0	e 4 5	+ 9	4.7	13.2
Tashkent	54.4	300	—	—	e 16 53	- 8	e 29.0	33.6
Tiflis	70.4	309	e 11 24	+11	e 20 40	+14	37.0	—

Additional readings :—

Toyooka PEN = +1m.23s. = PPP + 1s., SN = +3m.4s.

Kobe eSE = +2m.39s.

Sumoto ePE = +2m.11s., eSN = +3m.8s.

Tashkent e = +21m.21s.

Utunomiya readings have been *increased* by 1 minute.

Long waves were also recorded at Baku, Pulkovo, Sverdlovsk, and Copenhagen.

July 18d. Readings also at 0h. (near Mizusawa), 1h. (near Port au Prince), 4h. (La Paz and La Plata), 5h. (Santiago (2), Frunse, Tashkent, and near Andijan (2)), 7h. (Samarkand), 10h. (Sitka and Tiflis), 11h. (Tiflis (2) and near Platigorsk), 12h. (Toledo), 14h. (Santiago), 15h. (Andijan, Frunse, and near Nagoya), 16h. (Seattle, San Fernando, near Almeria, Granada, and Toledo), 17h. (near Sumoto), 20h. (La Paz), 23h. (Andijan, Frunse, Tashkent, Sverdlovsk, Mizusawa, and near Tiflis).

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July 19d. 2h. 37m. 0s. Epicentre $0^{\circ}8'N$. $77^{\circ}8'W$. (as on 1935 Aug. 7d.). X.

$$A = +.2113, B = -.9773, C = -.0140; \quad \delta = -4;$$

$$D = -.977, E = -.211; \quad G = +.003, H = -.013, K = -1.000.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Huancayo	13.1	169	i 3 8	+ 5	e 5 41	+12	i 7.6	—
La Paz	19.8	151	4 32 ^a	+ 5	i 8 10	+ 8	10.2	13.0
San Juan	21.0	31	e 4 37	- 3	e 8 19	- 7	e 11.1	—
Philadelphia	39.2	3	e 8 25	+60	e 13 5	-19	e 18.3	—
Rio de Janeiro	41.1	127	e 14 0	S	(e 14 0)	+ 7	e 20.6	—
Weston	42.0	106	i 7 39	-10	—	—	—	—
Oak Ridge	42.1	7	i 8 51	+62	—	—	—	—
Tucson	44.3	319	e 8 9	+ 2	e 14 46	+ 6	e 21.0	—
Mount Wilson	50.3	316	i 8 56	+ 2	—	—	—	—
Tinemaha	52.0	319	i 9 10	+ 4	—	—	—	—
Paris	83.0	41	—	—	e 30 0?	?	41.0	—
Copenhagen	89.6	34	—	—	23 36	[+ 6]	47.0	—

Additional readings and notes :—

Huancayo i = +6m.49s.

San Juan e = +4m.41s., iS = +8m.40s., i = +9m.6s., eSS = +9m.54s.

Philadelphia eSS = +16m.4s.

Tucson eSS = +18m.0s.

Long waves were also recorded at La Plata, Scoresby Sund, Strasbourg, Stuttgart, De Bilt, and Ksara.

July 19d. Readings also at 1h. (Tifis, Ukiah, and near Tucson (2)), 2h. (La Paz), 6h. (La Paz), 7h. (Sebastopol and near Yalta), 10h. (Erevan, Grozny, Ksara, and Tifis (2)), 11h. (La Paz, La Plata, Mount Wilson, Riverside, Tinemaha, near Santiago (2), near Berkeley, San Francisco, and near Tifis), 12h. (Ksara), 13h. (near Tifis), 14h. (Frunse and near Andijan), 16h. (Tashkent, near Andijan, and Frunse), 17h. (Semipalatinsk, near Andijan, Frunse, near Tifis and near La Paz), 18h. (near Andijan, Frunse, and Tashkent), 20h. and 22h. (Triest).

July 20d. 23h. 54m. 32s. Epicentre $24^{\circ}4'N$. $120^{\circ}6'E$. X.

(as on 1936 April 20d., and near the position as given by Taihoku).

$$A = -.4636, B = +.7839, C = +.4131; \quad \delta = +8;$$

$$D = +.861, E = +.509; \quad G = -.210, H = +.356, K = -.911.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Taihoku	1.1	45	i 0 12	- 4	i 0 25	- 3	—	0.4
Hong Kong	6.2	252	1 46	P*	2 58	S*	3.3	4.0
Zi-ka-wei	6.8	6	—	—	e 3 17	S*	—	4.9
Nanking	7.8	351	1 46	- 5	e 3 18	- 1	4.0	—
Manila	9.8	178	—	—	4 48	S*	—	—
Hukuoka B	12.5	40	e 2 59	+ 4	e 7 12	?	—	—
Phu-Lien	13.4	256	—	—	e 6 51	+74	7.5	—
Taikyu	13.4	29	e 3 10	+ 3	—	—	—	—
Keizyo	14.2	21	e 6 10	S	(e 6 10)	+14	—	—
Chiufeng	16.1	248	e 3 46	+ 3	e 7 4	+23	e 8.6	10.8
Calcutta	29.6	273	—	—	e 10 57	- 1	—	22.3
Tashkent	45.5	305	—	—	e 15 4	+ 7	25.1	29.0
Sverdlovsk	53.5	324	e 9 20	+ 2	e 17 0	+11	—	30.7
Tifis	63.8	307	e 10 39	+ 8	e 19 10	+ 5	—	—
Riverview	65.1	151	e 10 10	-29	—	—	—	17.5
Moscow	66.2	322	—	—	e 24 17	SS	e 35.0	39.3
Pulkovo	69.2	328	—	—	e 20 15	+ 4	37.0	41.2
Copenhagen	79.6	327	—	—	24 32	?	41.5	—
Wellington	82.6	142	9 43	?	13 12	?	e 14.6	—
Stuttgart	84.7	322	—	—	e 24 48?	?	e 46.5	49.5
Tinemaha	97.3	44	i 17 56	PP	—	—	—	—
Pasadena	99.1	46	17 50 ^a	PP	—	—	—	—
Riverside	99.8	46	i 17 53	PP	—	—	—	—

For Notes see next page.

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NOTES TO JULY 20d. 23h. 54m. 32s.

Additional readings :—

Zi-ka-wei iZ = +3m.35s., +4m.1s., and +4m.7s.
Nanking PN = +1m.50s.
Keizyo eS = +7m.32s.
Chiufeng iN = +8m.10s.
Tashkent e = +18m.13s., +18m.48s., +20m.0s., +22m.2s., +22m.53s., and +23m.58s.
Riverview eE = +13m.43s.
Moscow e = +27m.33s.
Pulkovo i = +27m.44s.
Stuttgart eEN = iZ = +24m.53s, e = +28m.28s.
Tinemaha iZ = +18m.30s.
Pasadena eZ = +18m.23s.
Long waves were also recorded at Baku, Bidston, and Edinburgh.

July 20d. Readings also at 1h. (Apia, Wellington, Batavia, Mount Wilson, Riverside, Tinemaha, Sebastopol, Simferopol, and Yalta), 2h. (Drome, near Mizusawa, and Nagoya), 3h. (La Paz), 6h. (Sebastopol, Simferopol, Yalta, Sofia, Tifis, and Triest), 13h. (near Oak Ridge), 14h. (Tacubaya and near Hukuoka B), 16h. (Tacubaya), 17h. (Medan), 19h. (near Tifis), 20h. (Mizusawa and near Ksara), 21h. (La Paz and La Plata).

July 21d. Readings also at 0h. (Sverdlovsk, Tifis, Sebastopol, Yalta, Grozny, Sofia, Vienna, Kew, Hamburg, Jena, De Bilt, Uccle, Strasbourg, Paris, Neuchatel, Zurich, Triest, Basle, Toledo, Granada, and Scoresby Sund, presumably additional to the records of shock of July 20d. 23h.), 3h. (Tifis), 4h. (Apia, Pulkovo, Baku, Moscow, Sverdlovsk, Tifis, near Sebastopol, Simferopol, Yalta, and Piatigorsk), 5h. (Tashkent, Copenhagen, Hamburg, and Paris), 7h. (Medan), 8h. (near Tifis), 9h. (La Paz (2)), 11h. (Frunse, Andijan, and near Samarkand), 13h. (near Santiago), 15h. (Chiufeng), 17h. (Cape Town, Sydney, and Tashkent), 18h. (Sverdlovsk, Tifis, Pulkovo, Paris, Strasbourg, Granada, and San Fernando), 19h. (near Wellington), 20h. (near Sotchi) 23h. (Tifis, La Paz, and near Lick).

July 22d. 6h. Shock in Pacific :—

Christchurch eP = 11m.51s., eS = 20m.37s., LE = 31m.19s., M = 35m.45s.
Apia eP = 20m.21s., e = 21m.28s. and +21m.56s.
Mount Wilson ePZ = 30m.29s.
Pasadena iPZ = 30m.30s., eLZ = 54m.48s.
Riverside ePZ = 30m.31s.
Tinemaha eP = 30m.39s.
Tucson eP = 30m.52s., eS = 40m.49s., eL = 53m.
Chiufeng ePEZ = 31m.39s., SN = 42m.34s.
Batavia iPZ = 31m.42s., SE = 37m.48s.
Riverview e = 34m.12s. and 37m.0s., eL = 38m.30s., M = 40m.48s.
Adelaide e = 34m.51s., L = 41m.12s., M = 47m.18s.
Sverdlovsk eP = 37m.46s., e = 39m.38s., L = 75.0m.
Baku e = 38m.11s. and 41m.0s.
Tifis eZ = 38m.15s., eE = 41m.32s. and 48m.39s., eZ = 50m.52s., eN = 61m.16s., eL = 101.0m.
Copenhagen 38m.19s., L = 102m.
Simferopol e = 38m.26s.
Uccle eP = 38m.26s., e = 61m.30s.
Hamburg iZ = 38m.27s.
De Bilt iZ = 38m.31s., eL = 104m.
Stuttgart eZ = 38m.32s., e = 39m.11s., eL = 107m.
Kew ePKPZ = 38m.32s., eL = 100m.
Paris e = 38m.34s., eL = 103m.
Strasbourg eP = 38m.37s., e = 46m., eL = 56m., eL = 106m.24s.
Yalta e = 38m.40s.
Sebastopol e = 38m.41s.
Granada eP = 38m.45s., L = 106m.0s.
San Fernando eP = 38m.47s., L = 106m.30s.
Moscow e = 39m.7s. and 40m.37s.
Pulkovo e = 40m.48s., L = 100m.
Tashkent e = 42m.24s., 47m.12s., and 56m.0s.
Scoresby Sund 57m.12s., L = 89m.
Philadelphia e = 66m.35s., eL = 69m.40s.
Long waves were also recorded at Wellington, Honolulu, Huancayo, La Paz, Sitka, Oak Ridge, Ukiah, Ksara, Edinburgh, and Cheb.

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July 22d. 8h. 56m. 21s. Epicentre 28°·0N. 68°·1E. (as on 1935 May 15d.). X.

$$A = +.3293, B = +.8192, C = +.4695; \quad \delta = -4;$$

$$D = +.928, E = -.373; \quad G = +.175, H = +.436, K = -.883.$$

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Agra	E	8.8	90	(2 10)	+ 5	(3 40)	- 4	—	—
Samarkand		11.7	354	e 2 38	- 6	e 5 21	+26	—	—
Andijan		13.2	14	e 3 3	- 2	e 5 14	-18	e 6.5	—
Tashkent		13.3	3	e 2 58	- 8	i 5 19	-15	6.8	8.0
Frunse		15.8	17	e 3 39	0	e 6 33	- 1	—	—
Calcutta .	N	19.1	101	8 2	SS	10 26	?	11.1	12.1
Baku		19.5	315	e 4 25	+ 1	e 7 53	- 3	11.2	—
Tiflis		23.4	312	e 5 7	+ 2	e 9 16	+ 4	e 13.4	15.4
Grozny		23.7	317	e 5 6	- 1	e 9 20	+ 2	—	—
Ksara		28.1	290	e 5 32	-16	e 10 23	-11	—	17.6
Sverdlovsk		29.3	351	6 0	+ 1	—	—	13.6	—
Moscow		35.3	329	e 6 58	+ 6	—	—	e 17.2	22.6
Pulkovo		40.8	331	7 35	- 4	13 40	- 8	22.2	23.8

Additional readings and notes:—

Agra P*E = (+2m.35s.). P₂E = (+2m.57s.). S*E = (+4m.10s.); all readings have been *diminished* by 2m.

Tashkent i = +3m.2s., e = +3m.50s., i = +5m.58s. and +6m.44s.

Long waves were also recorded at Bombay, Hyderabad, Chiufeng, and other European stations.

July 22d. Readings also at 2h. (Grozny and near Tiflis), 3h. (Mount Wilson, Pasadena, Riverside, Tinemaha, and near La Paz), 5h. (Sebastopol (2)), 6h. (near Nagoya), 7h. (Almata, Frunse, Baku, Tashkent, near Andijan, and Samarkand), 9h. (Kobe and Tiflis), 10h. (Tiflis), 14h. (La Paz), 16h. (Sydney), 18h. (Frunse and near Andijan), 19h. (Oak Ridge and near Tiflis), 20h. (Sverdlovsk, Vladivostok, Nagoya, and near Mizusawa), 21h. (Tiflis).

July 23d. 6h. 20m. 13s. Epicentre 20°·2S. 174°·2W. (as on 1932 May 22d.). R.3.

$$A = -.9337, B = -.0948, C = -.3453; \quad \delta = +1;$$

$$D = -.101, E = +.995; \quad G = +.344, H = +.035, K = -.938.$$

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Apia		6.7	21	e 1 45	+10	e 2 40	-11	—	—
Wellington		23.1	201	(e 5 1)	- 1	e 5 1	P	11.2	11.8
Christchurch		25.8	203	(i 5 36 _a)	+ 9	—	—	12.8	16.6
Riverview		33.6	239	e 8 0	?	e 11 50	-10	e 17.8	19.2
Sydney		33.6	239	—	—	e 12 47	+47	17.4	19.1
Melbourne		39.3	235	—	—	e 14 42	+76	22.9	24.3
Adelaide		43.9	240	—	—	e 14 11	-23	21.7	24.8
Honolulu		44.5	22	e 8 47	+38	—	—	—	—
Pasadena		76.1	45	e 11 42	- 5	—	—	e 34.6	—
Ukiah		76.1	39	—	—	e 27 53	?	e 32.0	—
Mount Wilson	z.	76.2	45	i 11 44	- 3	—	—	—	—
Riverside	z.	76.5	45	e 11 44	- 5	—	—	—	—
Haiwee		77.4	43	e 11 54	0	—	—	—	—
Batavia		77.6	268	i 11 58	+ 3	i 21 55	+ 6	—	—
Tinemaha	z.	77.8	43	i 11 54	- 3	—	—	—	—
Tucson		80.1	50	e 12 6	- 2	e 22 14	- 3	e 35.2	—
Vladivostok		80.3	324	i 12 13	+ 4	e 22 24	+ 5	e 37.2	45.3
Victoria		82.2	32	e 12 10	- 9	e 22 40	+ 1	e 35.7	—
Sitka		83.7	20	e 12 47	+20	—	—	—	—
Chiufeng		88.5	315	i 12 54 _a	+ 4	i 23 46	+ 4	—	—

Continued on next page.

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Huancayo	94.0	105	—	—	e 23 32	[-23]	e 43.8	—
Florissant	97.9	52	e 13 28	- 6	e 24 59	- 9	—	—
La Paz	98.6	111	e 17 55	PP	—	—	48.3	54.5
Philadelphia	109.6	54	e 23 29	?	e 25 10	[- 1]	e 49.0	—
Ottawa	110.0	48	—	—	e 25 11	[- 2]	e 56.8	—
East Machias	115.9	49	e 29 14	PS	—	—	e 58.4	—
Tashkent	122.9	307	e 20 41	PP	i 25 58	[- 1]	—	—
Sverdlovsk	125.7	327	e 14 3	?	i 20 52	?	—	—
Scoresby Sund	127.0	12	21 5	PP	—	—	57.8	—
Pulkovo	136.7	342	19 3	[-14]	—	—	—	—
Moscow	137.3	334	e 19 24	[+ 6]	e 22 6	PP	—	—
Baku	137.5	308	e 19 37	[+19]	e 22 11	PP	78.8	89.0
Tiflis	140.8	312	e 19 32	[+ 9]	e 23 10	PP	—	—
Edinburgh	143.7	8	—	—	e 41 47?	SS	e 68.8	—
Copenhagen	144.1	353	19 24	[- 7]	—	—	—	—
Simferopol	146.0	323	e 19 42	[+ 6]	—	—	—	—
Yalta	146.2	322	i 19 43	[+ 7]	—	—	—	—
Hamburg	146.4	356	e 19 42	[+ 6]	—	—	e 78.8	—
Sebastopol	146.5	324	i 19 46	[+10]	—	—	—	—
Oxford	147.9	8	e 20 14	[+35]	—	—	—	—
De Bilt	148.1	0	e 19 47	[+ 8]	—	—	e 84.8	106.0
Kew	148.4	6	e 19 53	[+14]	—	—	e 80.8	—
Prague	149.3	349	e 19 12	[-29]	e 20 23	?	—	94.8
Uccle	149.3	3	e 19 51	[+10]	e 24 3	?	—	—
Ksara	150.1	303	i 19 48	[+ 6]	—	—	—	—
Paris	151.2	5	e 19 55	[+12]	e 23 47?	?	81.8	105.8
Stuttgart	151.3	355	e 19 57	[+14]	—	—	e 69.0	—
Strasbourg	151.6	357	e 19 57	[+13]	—	—	e 93.8	—
Zagreb	z. 153.1	344	e 19 50	[+ 4]	—	—	—	—
Triest	153.7	347	e 19 58	[+11]	—	—	—	93.0
San Fernando	160.6	31	20 3a	[+ 8]	e 32 45	{+83}	87.8	—
Granada	161.1	24	e 19 59	[+ 4]	—	—	84.8	—
Algiers	163.2	8	e 20 28	[+31]	—	—	—	—

Additional readings and notes:—

The New Zealand readings are not consistent. As a compromise Wellington S has been assumed to be P and Christchurch P has been increased by 9m.

Other readings are:—

Wellington P = 6h.18m.35s., eSS = +8m.6s., iSSS = +9m.21s.

Christchurch eS = +3m.59s., i = +10m.8s.

Riverview eN = +8m.5s.

Adelaide e = +17m.57s.

Vladivostok e = +13m.35s.

Chiufeng iZ = +13m.6s., iNZ = +13m.46s., eSKS = +23m.25s., ePSZ = +24m.49s.

Huancayo e = +22m.52s. and +30m.11s.

Philadelphia e = +26m.10s. and +31m.4s., eSS = +33m.51s., e = +34m.49s. and +37m.31s.

Ottawa eN = +26m.47s. and +34m.17s.

Tashkent i = +21m.14s., e = +21m.46s., e = +31m.35s., +33m.54s., +34m.30s., +37m.6s., +39m.50s., and +42m.53s.

Scoresby Sund +22m.35s., e = +31m.7s.

Stuttgart e = +20m.21s.

Pulkovo e = +22m.3s., +23m.24s., +27m.34s., +30m.36s., and +31m.46s.

Baku e = +41m.7s. and +65m.47s.

Tiflis eN = +42m.45s.

Copenhagen +20m.1s.

Simferopol e = +22m.0s.

De Bilt eZ = +20m.15s., eE = +68m.56s.

Ksara PP = +23m.33s., PPS = +36m.47s., SSS = +48m.59s.

Stuttgart e = +20m.21s.

Strasbourg i = +20m.33s., iPKP₂ = +21m.18s.

Zagreb e = +20m.7s. and eZ = +20m.23s.

Triest i = +20m.32s., e = +29m.28s., i = +37m.34s.

San Fernando i = +20m.14s.

Algiers iPKP₂ = +21m.19s.

Long waves were also recorded at Phu-Lien, Hong Kong, Perth, Rio de Janeiro, Bozeman, Cape Town, and Ivigtut.

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July 23d. 7h. 5m. 26s. Epicentre $30^{\circ}6'N$. $141^{\circ}8'E$. (as on July 15d.). R.2.

$$A = -0.6764, B = +0.5323, C = +0.5090; \quad \delta = -6;$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s	s.	m.	m.
Nagoya	6.2	319	e 1 30	+ 2	2 37	- 1	—	—
Sumoto	6.9	304	e 1 43	+ 5	e 3 40	S _r	—	—
Toyooka	7.7	313	1 51	+ 2	—	—	4.4	7.1
Mizusawa	8.5	355	e 1 56	- 4	e 3 20	-16	—	—
Hukuoka B	10.2	290	e 2 28	+ 4	e 5 40	S _r	—	—
Keizyo	14.1	304	e 3 20	+ 3	—	—	—	—
Vladivostok	14.8	331	3 25	- 1	—	—	6.6	8.9
Zi-ka-wei	z. 17.5	277	e 3 57	- 3	7 34	+21	10.7	11.9
Nanking	19.7	281	4 21	- 5	e 8 51	+51	e 11.9	—
Chiufeng	22.9	302	e 4 58	- 2	9 7	+ 4	—	14.6
Tashkent	58.0	304	e 10 9	+19	i 17 53	+ 4	28.6	36.1
Sverdlovsk	60.1	322	10 4	- 1	18 16	- 1	—	27.7
Moscow	72.4	325	11 25	0	21 34	+44	40.1	46.5
Grozny	73.5	311	e 11 36	+ 4	—	—	42.1	—
Pulkovo	73.6	331	11 30	- 2	20 59	- 5	32.6	42.5
Tiflis	75.0	311	e 11 39	- 1	e 21 39	+19	e 24.1	48.0
Scoresby Sund	78.3	355	—	—	21 54	- 3	—	—
Tinemaha	z. 79.1	53	e 12 3	0	—	—	—	—
Mount Wilson	z. 80.7	55	e 12 14	+ 2	—	—	—	—
Pasadena	z. 80.7	55	e 12 13	+ 1	—	—	—	—
Riverside	z. 81.3	55	e 12 14	- 1	—	—	—	—
Copenhagen	83.5	334	12 28	+ 2	22 47	- 5	—	—
Ksara	85.0	309	i 12 36	+ 3	24 8	+60	—	—

Additional readings :

Sumoto eN = +1m.46s., eE = +4m.1s., eN = +4m.51s.

Tashkent e = +10m.24s., e = +11m.33s., e = +14m.4s., e = +19m.19s., e = +22m.4s., e = +23m.55s.

Tiflis ePZ = +11m.43s.

Long waves were also recorded at Husan, Taikyū, Kobe, Zinsen, Phu-Lien, Hong Kong, Bombay, and Calcutta.

July 23d. Readings also at 1h. (Grozny), 2h. (Sverdlovsk, Frunse, Samarkand, Tashkent, and near Andijan), 5h. (near Andijan), 6h. (Chicago, Hong Kong, near Nanking, near Andijan, and Samarkand), 7h. (Chiufeng, Hong Kong, Mizusawa, Tiflis, near Batavia, Medan, and Malabar), 9h. (Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, near Batavia, and Malabar), 13h. (San Juan and Tucson), 14h. (Sebastopol, Pasadena, and Mount Wilson), 15h. (near Branner and Lick), 16h. (Tiflis), 17h. (Pasadena, Mount Wilson, and near Tiflis), 18h. (Merida, Oaxaca, Tacubaya, Madison (2), Tucson (3), Mount Wilson, Pasadena, Tinemaha, Chicago, Philadelphia (3), Florissant, St. Louis, and Scoresby Sund), 19h. (Tacubaya, Haiwee (3), Mount Wilson (3), Pasadena (3), Riverside (2), Tinemaha (3), Chicago, St. Louis, Florissant, Madison, Philadelphia, Ann Arbor, Seattle, Ottawa, East Machias, Bozeman, Ukiah, Tucson (2), Copenhagen, Pulkovo, Paris, Strasbourg, Stuttgart, Granada, San Fernando, Ivigtut, and Scoresby Sund), 20h. (Tashkent and Tiflis), 21h. (near Batavia and Malabar), 22h. (Berkeley, Branner, Lick, Fresno, and Tacubaya), 23h. (Branner, near Berkeley, and San Francisco).

July 24d. Readings at 2h. (Scoresby Sund), 4h. (Sumoto), 7h. (Andijan and near Tiflis), 8h. (Apia), 9h. (Mount Wilson, Pasadena, Riverside, and Tashkent), 10h. (Sverdlovsk and near Algiers), 11h. (Andijan, Frunse, and Samarkand), 14h. (Hastings, Scoresby Sund, and Tiflis), 17h. (San Francisco), 18h. (near New Plymouth and Wellington), 20h. (near Kobe, Sumoto, and Nagoya), 22h. (Tiflis).

July 25d. Readings at 0h. (Batavia, Medan (2), Tiflis, and Santiago), 1h. (Philadelphia, Florissant, Tucson (2), Pasadena, and Ukiah), 2h. (Pasadena, Philadelphia, Ukiah, Florissant, Tucson (2), Baku, Tiflis, Andijan, Frunse, Tashkent, Ksara, and near Erevan), 3h. (Mount Wilson), 4h. (near Mizusawa), 9h. (La Paz), 10h. (near Samarkand), 11h. (Sumoto and Tiflis), 13h. (Cheb), 15h. (near Berkeley, Branner, and Lick (5)), 16h. (near Lick (3)), 18h. (Mount Wilson, Pasadena, La Paz, Paris, Grozny, Tiflis, Piatigorsk, and near Sochi (3)), 19h. (Berkeley, Fresno, Lick, San Francisco, and Trieste), 20h. (Grozny, Tiflis, and Hastings), 22h. (near Batavia and Malabar), 23h. (Tiflis, near Grozny, near Berkeley, near Nagoya, near Basle, Neuchatel, and Zurich).

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July 26d. 7h. 36m. 57s. Epicentre 23°·6S. 71°·0W. N.1

A = +·2983, B = -·8664, C = -·4003; δ = -13;
D = -·946, E = -·326; G = -·130, H = +·379, K = -·916.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Montezuma	2·2	64	i 0 35	+ 4	i 0 46	-11	—	—
La Paz	7·6	21	i 1 59 _a	+11	i 3 49	S*	4·5	5·3
Santiago	9·8	178	2 9	- 9	3 52	-16	—	—
San Javier	12·1	183	2 49	- 1	5 0	- 5	—	—
Huancayo	12·2	340	e 3 3 _a	+12	i 5 51	S*	e 7·4	—
La Plata	16·0	138	3 30	-11	6 27	-11	7·5	—
Rio de Janeiro	E. 25·5	94	i 5 36	+11	i 9 55	+ 5	i 13·9	16·6
	N. 25·5	94	i 5 40	+15	i 9 53	+ 3	i 13·9	16·6
Balboa Heights	33·6	345	e 6 3	-34	—	—	—	—
San Juan	42·3	7	e 7 50	- 1	i 14 10	0	21·1	—
Tacubaya	N. 51·0	325	9 7	+ 8	16 30	+15	—	—
Columbia	58·4	350	e 9 54	+ 1	e 17 55	0	e 26·3	—
Georgetown	62·8	355	i 10 25	+ 1	i 18 54	+ 2	e 29·1	—
Philadelphia	63·7	357	e 10 28 _a	- 2	i 19 4	0	e 25·0	—
Fordham	64·5	358	i 10 36	+ 1	i 19 15	+ 1	e 30·9	—
St. Louis	64·8	343	e 10 37	0	e 19 15	- 2	e 39·4	—
Florissant	65·0	343	e 10 38	- 1	i 19 18	- 2	e 30·5	43·1
Oak Ridge	66·1	0	i 10 46	0	e 19 39	+ 5	e 28·1	—
Ann Arbor	66·9	350	—	—	e 19 45	+ 2	e 40·7	—
Chicago	67·2	346	e 10 56	+ 3	e 19 45	- 2	e 28·3	—
Tucson	67·6	324	e 10 56	0	e 19 56	+ 4	e 32·4	—
Toronto	67·7	354	i 10 48	- 8	i 19 39	-14	32·0	—
Vermont	68·1	359	e 11 2	+ 3	i 20 4	+ 6	e 30·6	—
East Machias	68·5	3	e 10 53	- 8	i 20 5	+ 2	e 34·7	—
Madison	68·8	346	i 11 3	0	e 20 0	- 7	—	—
Ottawa	69·1	357	i 11 6	+ 1	i 20 11	+ 1	e 32·1	—
La Jolla	71·6	320	i 11 22	+ 2	—	—	—	—
Riverside	72·5	320	i 11 25	- 1	e 20 55	+ 4	—	—
Mount Wilson	73·1	320	i 11 30	+ 1	—	—	—	—
Pasadena	73·1	320	e 11 30	+ 1	e 21 3	+ 5	e 34·2	—
Haiwee	74·4	323	i 11 39	+ 2	e 21 13	0	—	—
Tinemaha	75·3	323	i 11 43	+ 1	e 21 26	+ 2	—	—
Cape Town	76·7	121	11 46	- 4	21 28	-11	36·1	44·4
Lick	77·3	321	e 11 57	+ 3	—	—	—	—
Berkeley	78·1	321	i 12 0 _a	+ 2	i 21 36	-19	—	—
Bozeman	78·2	323	e 12 3	+ 5	e 21 59	+ 3	e 32·2	—
Ukiah	79·5	321	e 12 4	- 1	e 22 7	- 3	e 37·9	—
Seattle	84·9	328	—	—	e 22 59	[+ 1]	—	—
San Fernando	85·6	47	i 12 36 _a	0	i 23 11	- 3	40·6	53·1
Victoria	85·9	328	e 12 34	- 4	i 23 6	[0]	e 40·3	—
Ivigtut	86·8	11	e 12 41	- 1	i 23 21	- 4	35·0	—
Granada	87·8	47	i 12 47	0	i 23 41	+ 6	—	—
Almeria	88·4	48	e 12 45	- 5	(e 23 11)	[-12]	e 51·0	—
Toledo	88·9	45	e 12 59	+ 7	i 23 40	- 6	e 40·7	54·0
Christchurch	90·9	221	i 13 5 _k	+ 3	e 23 21	[-17]	i 42·1	46·6
Wellington	91·1	223	13 4	+ 1	23 31	[- 8]	37·6	43·1
Algiers	92·2	51	—	—	i 24 27	+10	e 42·1	64·1
Tortosa	N. 92·4	46	e 12 18	-51	24 25	+ 7	e 37·0	53·7
Barcelona	93·8	46	—	—	23 38	[-16]	—	57·6
Apia	94·1	253	—	—	e 24 39	+ 5	e 44·0	—
Jersey	95·0	37	—	—	26 43?	?	e 42·4	—
Rathfarnham Castle	95·0	32	i 13 34	+14	i 24 45	+ 3	43·1	51·1
Honolulu	95·6	291	—	—	24 3	[- 1]	44·0	—
Bidston	96·7	33	i 13 33	+ 5	e 24 59	[+50]	43·1	54·5
Oxford	96·8	36	—	—	e 24 3	[- 7]	e 42·6	54·4
Sitka	96·9	330	e 13 25	- 4	e 24 4	[- 6]	e 46·7	—
Kew	97·1	36	i 13 30 _a	0	e 25 2	+ 1	e 46·1	54·7
Stonyhurst	97·2	33	13 34	+ 3	e 24 20	[+ 8]	44·1	54·2
Paris	97·5	39	13 29	- 3	24 18	[+ 4]	44·1	57·1
Edinburgh	97·9	31	13 37	+ 3	26 36	?	e 48·0	54·0

Continued on next page.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Durham	98.1	33	13 40	+ 5	24 16	[- 0]	—	55.1
Neuchatel	99.4	42	e 17 37	PP	—	—	—	—
Uccle	99.4	38	e 13 42	+ 1	—	—	—	—
Basle	100.0	42	e 13 41	- 3	—	—	—	—
Scoresby Sund	100.2	15	13 45	+ 1	24 33	[+ 6]	35.1	—
De Bilt	100.5	37	i 13 46	0	e 25 26	- 5	e 46.1	76.2
Strasbourg	100.5	41	i 13 47 _a	+ 1	e 25 27	- 4	e 44.1	—
Zurich	100.5	42	e 13 44	- 2	e 25 24	- 7	—	—
Florence	100.8	47	13 33	- 14	—	—	43.0	—
Stuttgart	101.4	41	e 13 50	0	e 24 28	[- 5]	e 49.1	58.6
Triest	103.2	45	e 13 53	- 5	i 24 36	[- 5]	e 44.7	62.0
Cheb	103.8	40	e 18 16	PP	e 27 34	?	e 49.1	58.1
Bergen	103.9	29	—	—	e 24 47	[+ 2]	44.1	—
Zagreb	104.7	46	14 6	+ 1	e 24 44	[- 4]	e 46.1	54.1
Graz	104.8	45	e 18 3	PP	e 27 41	?	e 47.1	62.0
Prague	105.1	41	e 18 15	[+ 14]	e 27 43	?	e 43.1	65.1
Vienna	105.7	44	e 18 26	[+ 22]	e 27 45	?	e 54.1	—
Copenhagen	105.8	35	14 11 _k	+ 1	24 50	[- 4]	41.1	—
College	105.9	335	—	—	e 24 36	[- 18]	e 50.1	—
Tananarive	106.5	119	—	—	e 28 41	?	58.1	63.1
Budapest	107.2	45	18 48	PP	—	—	e 49.1	63.6
Belgrade	107.4	48	—	—	e 24 58	[- 3]	e 59.8	—
Sofia	108.8	51	e 18 21	[+ 7]	e 25 13	[+ 5]	—	65.0
Melbourne	109.1	210	—	—	i 25 7	[- 2]	51.7	—
Upsala	109.8	32	—	—	e 26 39	{ + 33}	e 47.1	60.8
Königsberg	110.0	37	—	—	e 26 55	{ + 48}	e 60.1	—
Riverview	110.0	217	—	—	e 25 27	[+ 14]	e 51.9	—
Bucharest	E. 111.2	49	e 17 33	[- 49]	e 28 45	?	—	62.1
Helwan	111.7	66	19 8	PP	—	—	—	68.8
Pulkovo	115.9	33	14 56	- 3	25 25	[- 12]	51.1	57.8
Ksara	116.4	63	e 14 56	- 6	29 46	SKSP	55.1	63.1
Sebastopol	116.4	50	e 19 3	[+ 27]	—	—	—	—
Yalta	116.8	51	e 18 42	[+ 5]	e 25 28	[- 12]	30.2	—
Moscow	119.7	38	20 12	PP	25 52	[+ 3]	e 65.1	67.9
Tiflis	124.3	54	e 16 3	?	e 28 52	?	52.1	77.8
Grozny	125.1	52	e 19 5	[+ 8]	e 27 57	{ + 7}	68.6	—
Baku	128.2	56	19 6	[+ 3]	28 15	{ + 5}	57.1	72.8
Samarkand	141.2	56	e 19 27	[+ 4]	—	—	—	—
Tashkent	142.5	52	i 19 28	[+ 3]	41 21	SS	e 61.5	90.4
Andijan	144.9	52	e 19 35	[+ 1]	—	—	—	—
Frunse	145.7	47	e 19 40	[+ 5]	—	—	—	—
Bombay	146.0	91	19 55	[+ 19]	29 40	{ - 20}	69.1	82.2
Almata	147.1	45	e 19 48	[+ 11]	—	—	—	—
Colombo	147.4	116	19 41	[+ 3]	33 25	SKSP	72.0	78.3
Mizusawa	148.7	308	(e 19 51)	[+ 11]	e 19 51	PKP	—	—
Batavia	Z. 150.1	175	i 19 44	[+ 2]	—	—	—	—
Agra	E. 151.8	76	19 52	[+ 8]	30 21	{ - 12}	—	—
Vladivostok	151.8	321	19 44	[0]	e 30 30	{ - 3}	—	55.0
Nagoya	153.1	302	e 19 51	[+ 5]	21 1	?	—	—
Medan	157.6	150	20 1	[+ 10]	—	—	—	—
Hukuoka B	158.8	303	20 19	[+ 27]	—	—	—	—
Calcutta	161.0	89	21 11	?	—	—	73.7	82.3
Chiufeng	162.5	343	19 58 _a	[+ 2]	31 20	{ - 12}	e 79.5	85.1
Manila	165.5	233	i 20 4 _a	[+ 4]	i 31 40	{ - 8}	—	—
Nanking	167.9	317	20 9	[+ 7]	—	—	80.0	—
Hong Kong	175.1	255	21 45	{ - 8}	32 24	{ - 15}	46.5	55.0
Phu-Lien	176.5	142	18 3	?	—	—	—	48.1

Additional readings :—

Montezuma i = +1m.11s.

Huancayo iP = +3m.14s.

San Juan P = +8m.1s., ePP = +9m.33s., e = +12m.9s. and +13m.35s., SS = +16m.55s., SSS = +17m.20s., i = +17m.36s. and +17m.45s.

Georgetown ePP = +14m.19s.

Philadelphia iP = +10m.30s., e = +11m.24s., e = +14m.39s., e = +19m.44s., e = +22m.8s., eSS = +22m.56s.

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Fordham eSS = +19m.28s., eSP = +19m.54s., i = +20m.42s., e = +20m.52s.,
e = +24m.35s., i = +27m.27s.
St. Louis ipPEN = +10m.45s., eSPN = +19m.49s., isSPN = +20m.24s., eSSN =
+23m.27s.
Florissant ipP = +10m.47s., iPPN = +13m.4s., iPPEZ = +13m.7s., iSSE =
+19m.32s., eSPN = +19m.54s., isSPE = +20m.28s., eScSEN = +20m.56s.,
iSSN = +23m.29s., eSSE = +23m.33s.
Oak Ridge i = +10m.49s., iNZ = +17m.12s.
Ann Arbor e = +20m.51s., eE = +28m.27s., e = +31m.51s.
Tucson eSS = +24m.43s., eSSS = +27m.53s.
Toronto SSN = +24m.24s.
Vermont eSP = +20m.59s.
East Machias iP = +11m.3s., e = +11m.8s., eScS = +21m.10s., e = +27m.38s.
Ottawa i = +21m.5s., e = +28m.3s.?; T_c = 7h.37m.6s.
Pasadena iPSE = +21m.37s.
Cape Town PPE = +14m.48s., PPN = +14m.53s., SN = +21m.31s., SSN =
+26m.3s., SSE = +26m.11s., eE = +31m.21s. = SSS - 1s., eN = +31m.24s.
Berkeley eSSN = +26m.49s.
Ukiah SS = +27m.18s.
San Fernando i = +12m.49s. and +23m.26s.
Ivigtut iP = +12m.43s., +22m.57s., +24m.24s., SS = +28m.57s.
Toledo iP = +13m.2s., i = +14m.6s., SKKS = +23m.51s., eL_q = 36·1m.
Christchurch, N.Z. iS = +23m.37s., iPS = +24m.6s., eSSN = +28m.47s., eE =
+30m.15s., SSSN = +32m.44s., G = +38m.33s.
Wellington ScS = +24m.2s., PPS? = +25m.3s., eSS = +30m.12s.
Apia e = +31m.3s.
Rathfarnham Castle e = +17m.19s. = PP + 14s., e = +22m.55s.
Honolulu SS = +31m.32s.
Bidston ePP = +13m.37s., iPPS = +26m.57s., eSS = +31m.31s., eSSS =
+35m.13s., e = +40m.39s.
Oxford i = +24m.52s.
Sitka e = +24m.48s., ePS = +26m.15s.
Kew ePP = +17m.41s., iPSEZ = +25m.19s., iPPS = +27m.0s., eSSEN =
+31m.43s., eSSSE = +35m.13s., eEN = +40m.40s.
Stonyhurst PR = +17m.29s., e = +26m.32s.
Paris PP = +17m.27s.
Uccle PPE = +17m.44s.
Basle ePP = +17m.51s.
Scoresby Sund PP = +17m.45s., +18m.15s., eE = +21m.33s., eZ = +22m.3s.,
SKKS = +25m.21s. PS = +29m.0s.
De Bilt iPPZ = +17m.51s., eEN = +26m.54s.
Strasbourg iP = +17m.48s., ePPP = +20m.11s., eSKS = +24m.16s., iSKKS =
+25m.3s.?, ePS = +26m.46s., iPPS = +27m.41s., iSS = +32m.28s., SSS =
+36m.6s.
Zurich ePP = +17m.50s.
Stuttgart ePP = +17m.57s., eSN = +25m.27s., eZ = +26m.33s., ePS = +27m.3s.,
e = +30m.48s., eSS = +32m.51s., eSSS = +39m.39s.
Triest iPP = +18m.9s., i = +24m.52s., iS = +25m.49s., iPS = +27m.20s., iPPS =
+28m.17s., SS = +32m.56s., eG = +42m.43s.
Zagreb e = +18m.9s. = PP + 9m., eNW = +25m.38s., e = +27m.40s. = PS + 5s.,
eNE = +28m.32s., eNW = +33m.21s. and +37m.3s.?
Prague e = +20m.12s., e = +33m.3s. = SS - 9s.
Copenhagen PP = +18m.29s., PPP = +20m.52s., eE = +22m.21s. = PPPP + 8s.,
SKKSE = +25m.49s., SN = +26m.6s., PSE = +27m.48s., PPSE =
+28m.45s., SS = +33m.40s.
College e = +26m.6s., eSPS = +28m.7s., eSS = +32m.43s.
Budapest eE = +19m.3s.?
Belgrade e = +26m.1s.
Melbourne i = +46m.45s.
Upsala iE = +28m.29s.
Königsberg eE = +28m.34s. = PS + 6s.
Riverview eN? = +23m.27s.
Bucharest eE = +21m.33s. = PPP + 12s., eE = +22m.57s.
Helwan PPP = +21m.30s., PS = +28m.41s., PPS = +29m.53s.
Pulkovo PP = +19m.36s., PPP = +22m.14s., SKKS = +26m.40s., e =
+27m.35s., PS = +29m.28s., PPS = +30m.41s., SS = +35m.21s., e =
+37m.0s., SSS = +39m.39s.
Ksara ePKP = +18m.26s., iPP = +19m.44s., SKP = +21m.14s., PPS = +30m.56s.
Yalta e = +19m.57s. = PP + 11s., e = +29m.38s. = SKSP + 9s.
Moscow PS = +30m.3s., SS = +36m.21s., SSS = +41m.23s.
Tiflis eN = +19m.6s., eE = +20m.40s. = PP + 1s., eN = +30m.46s. = PS + 5s.,
eE = +38m.52s.
Baku iPP = +21m.7s., PKS = +22m.38s., PS = +31m.22s.
Samarkand e = +22m.30s. = PP + 1s.
Tashkent PP = +22m.38s., PS = +32m.54s., PPS = +35m.14s.
Andijan e = +20m.6s., e = +21m.1s.
Bombay PPE = +22m.53s., PPPE = +26m.17s., PSKS = +33m.11s. =
SKSP + 0s., PPSE = +35m.47s., SSE = +42m.18s.

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Agra SKPE = +23m.20s. = PP-11s., PPPE = +27m.9s., PSKSPE = +33m.47s. =
 SKSP-4s., PPSE = +36m.51s.
 Vladivostok PP = +23m.25s.
 Calcutta PPN = +24m.54s.
 Chiufeng ePKPEN = +20m.2s., ePKP₂Z = +20m.52s., PP = +24m.34s., iN =
 +25m.29s., PPPZ = +28m.20s., PPPN = +28m.31s., SKSP?N = +35m.40s.,
 iN = +44m.54s. = SS-4s., SSE = +45m.3s.
 Manila iZ = +21m.3s., iE = +29m.30s.
 Nanking PKP₂ = +21m.13s., ePP = +24m.59s., SS = +45m.55s.
 Hong Kong ? = +26m.12s.
 Almeria S reading *increased* by 10 minutes.
 Long waves were also recorded at Sydney, Jena, Göttingen, Czernowitz, and
 Kodaikanal.

July 26d. Readings also at 0h. (near Berkeley), 1h. (near Santiago), 2h. (La Paz and Tiflis), 3h. (La Paz), 5h. (Florence, Vladivostok, Chiufeng, near Hukuoka, Hukuoka B, and Nagoya), 6h. (Tiflis and Tashkent), 7h. (near Nagoya), 9h. (Phu-Lien), 10h. (Tiflis and near Triest), 11h. (Mizusawa), 13h. (Almata, Frunse, Grozny, Tashkent, Tiflis, near Andijan, and Samarkand), 14h. (Tiflis), 16h. (near Nagoya), 17h. (Tiflis (2) and Grozny), 20h. (Malabar and Rio de Janeiro), 21h. (Santiago, La Paz, La Plata, Riverside, Mount Wilson, Pasadena, and Tinemaha), 22h. (Tortosa, De Bilt and Stuttgart), 23h. (near Samarkand).

July 27d. 20h. 1m. 18s. Epicentre 8°·5S. 113°·5E. (as on 1923 Dec. 31d.). R.3.

A = -·3944, B = +·9070, C = -·1478; $\delta = +5$;
 D = +·917, E = +·399; G = +·059, H = -·136, K = -·989.

The determination for 1923 Dec. 31d. was very rough. These observations fit this position and have been attributed to the same epicentre.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malabar	6·0	282	i 1 33	+ 8	i 2 45	+12	—	—
Batavia	7·0	289	1 40	+ 1	—	—	—	—
Medan	19·1	309	4 31	+11	i 8 11	+23	—	—
Perth	23·5	175	8 42	S	(8 42)	-32	—	—
Melbourne	40·8	140	—	—	e 13 25	-23	—	—
Nanking	40·9	7	e 7 44	+ 4	—	—	—	—
Sumoto	47·4	25	e 8 0	-32	—	—	—	—
Chiufeng	48·6	3	i 8 41	0	e 15 45	+ 4	—	—
Nagoya	49·0	26	e 8 43	- 1	—	—	—	—
Vladivostok	54·3	17	e 9 21	- 2	i 16 59	0	—	—
Andijan	62·1	325	e 10 16	- 3	—	—	—	—
Tashkent	64·2	324	10 27	- 7	e 18 52	-18	e 32·7	41·5
Grozny	80·2	317	e 12 10	+ 1	—	—	—	—
Tiflis	80·2	315	i 12 6	- 3	e 22 9	- 9	e 33·7	—
Moscow	89·2	327	e 12 49	- 5	e 23 12	[-16]	—	—
Pulkovo	94·0	330	e 13 8	- 8	23 43	[-12]	47·7	60·1
Pasadena	z. 126·2	53	i 18 54	[- 5]	—	—	—	—
Mount Wilson	z 126·3	53	i 18 53	[- 7]	—	—	—	—

Additional readings:—

Medan PE = +4m.41s., iE = +5m.35s.

Melbourne i = +18m.12s.

Sumoto S = +8m.30s.

Tiflis eN = +22m.44s.

Moscow PP = +16m.24s., PPS = +24m.48s.

Pulkovo PP = +17m.4s.

Long waves were also recorded at Copenhagen, De Bilt, and Strasbourg.

July 27d. Readings also at 2h. (Rio de Janeiro), 3h. (Granada, Stuttgart, Paris, De Bilt, La Plata, La Paz, Santiago, Mount Wilson, Pasadena, Riverside, and Tinemaha), 4h. (Strasbourg), 5h. (New Plymouth), 6h. (East Machias and La Paz), 7h. (Rio de Janeiro), 8h. (Christchurch), 9h. (Apia, Honolulu, Chiufeng, Vladivostok, Pulkovo, Ksara, Paris, Stuttgart, Pasadena, East Machias, Tucson, Huancayo, and near La Paz), 10h. (Apia, Baku, Tashkent, Copenhagen, De Bilt, Uccle, Strasbourg, Granada, Scoresby Sund, Pasadena, Riverside, and Tinemaha), 11h. (La Paz), 12h. (near Sumoto), 13h. (Sumoto), 15h. (near Grozny), 18h. (near Mizusawa), 20h. (near Batavia and Malabar).

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July 28d. 5h. 18m. 29s. Epicentre 3°·6S. 142°·8E. (as on 1935 Sept 23d.) R.1.

$$A = -.7949, B = +.6034, C = -.0628; \quad \delta = -10;$$

$$D = +.605, E = +.797; \quad G = +.050, H = -.038, K = -.998.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Palau	13·8	325	3 17	+ 4	6 13	+27	—	—
Manila	28·2	312	5 50	+ 1	10 52	+17	16·0	18·5
Titizima	30·7	358	6 9	- 2	—	—	—	—
Riverview	31·2	166	e 6 17	+ 1	e 12 19	+56	e 16·4	18·2
Sydney	31·2	166	e 4 43	?	e 10 43	-40	17·9	19·3
Adelaide	31·6	187	e 6 19	0	11 19?	-10	—	22·8
Kosyun	33·5	332	7 41	+65	—	—	—	—
Melbourne	34·3	177	e 9 15	?	12 9	- 2	16·7	22·5
Batavia	35·9	266	8 17	PP	14 21	?	—	—
Miyazaki	37·1	345	7 9	+ 2	—	—	—	—
Perth	38·0	219	i 13 11	S	(i 13 11)	+ 5	19·0	26·6
Hong Kong	38·1	315	7 18k	+ 2	13 15	+ 7	19·2	26·5
Koti	38·2	348	7 17	0	—	—	—	—
Mera	38·6	357	7 13	- 7	—	—	—	—
Sumoto	38·7	356	7 20k	- 1	e 13 16	- 1	e 17·7	19·4
Osaka	38·8	352	7 22	0	—	—	—	—
Kameyama	38·9	353	7 13	-10	—	—	—	—
Kobe	38·9	352	e 7 17	- 6	—	—	e 16·3	20·2
Hukuoka B	39·0	345	e 7 25	+ 1	e 13 25	+ 4	—	—
Nagoya	39·1	354	e 7 10	-14	i 8 57	?	—	—
Yokohama	39·1	357	7 23	- 1	—	—	—	—
Gihu	39·4	354	7 28	+ 1	13 26	- 1	—	—
Tokyo	39·4	357	7 24	- 3	—	—	—	—
Kohu	39·5	355	7 8	-20	—	—	—	—
Toyooka	N. 39·8	352	7 24	- 6	—	—	e 18·5	—
Mito	40·0	357	7 33	+ 1	—	—	—	—
Oiwake	40·1	355	7 35	+ 2	—	—	—	—
Maebasi	40·2	355	7 37	+ 3	—	—	—	—
Nagano	40·5	355	7 35	- 1	13 29	-15	—	—
Husan	40·8	344	e 7 58	+19	e 13 51	+ 3	—	—
Nanking	42·3	329	7 51	0	i 14 21	+11	21·5	30·9
Medan	44·7	280	8 12	+ 2	14 47	+ 1	—	—
Wellington	47·3	147	10 22	PP	e 16 10	+47	e 25·2	28·5
Vladivostok	47·7	350	e 9 35	+61	e 16 25	+56	21·1	24·8
Christchurch, N.Z.	47·8	151	8 37a	+ 2	e 15 1	-29	21·1	24·7
Chiufeng	50·1	334	i 8 51a	- 1	15 59	- 3	24·6	29·6
Calcutta	N. 59·2	299	10 10	+11	18 17	+12	28·5	—
Kodalkanal	E. 66·5	285	e 10 31?	-18	—	—	—	—
Bombay	72·4	292	e 11 24?	- 1	20 46	- 4	—	—
Almata	75·3	317	e 11 43	+ 1	—	—	—	—
Frunse	76·8	316	e 11 51	+ 1	—	—	—	—
Andijan	77·7	313	e 11 56	0	e 22 1	+10	—	—
Tashkent	80·2	313	i 12 6	- 3	i 22 13	- 5	—	46·0
Samarkand	81·5	311	e 12 15	- 1	—	—	—	—
College	84·7	23	e 13 55	+83	e 22 37	[-20]	e 34·6	—
Sitka	88·6	33	e 12 51	0	23 33	-10	e 34·8	—
Ukiah	95·4	51	e 16 1	PP	23 55	[- 8]	e 41·8	—
Berkeley	96·1	53	e 17 14	PP	e 23 59	[- 7]	e 43·7	—
Grozny	97·6	313	e 13 3	-29	—	—	—	—
Tiflis	98·4	311	e 13 36	0	e 25 10	- 2	—	—
Tinemaha	z. 99·3	54	e 13 41	+ 1	—	—	—	—
Pasadena	z. 99·5	56	13 44	+ 3	—	—	e 46·5	—
Mount Wilson	z. 99·6	56	13 36	- 6	—	—	—	—
Riverside	z. 100·2	56	13 41	- 3	—	—	—	—
Moscow	101·5	326	13 48	- 2	24 30	[- 3]	—	67·4

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.
Bozeman	103.8	44	—	—	24 31	[-13]	e 41.5	—
Pulkovo	104.3	331	13 59	- 4	24 39	[- 7]	e 50.5	59.2
Tucson	105.7	58	—	—	e 27 25	PS	e 44.1	—
Ksara	106.0	303	13 57	-14	—	—	—	—
Scoresby Sund	112.4	354	19 12	PP	28 49	PS	47.5	—
Copenhagen	114.6	332	19 31	[+59]	25 7	[-25]	53.5	—
Prague	116.5	325	—	—	e 45 31?	?	e 57.5	69.5
Cheb	117.6	326	20 0	PP	e 29 54	SKSP	e 56.5	67.5
Triest	119.0	321	16 13	?	i 28 33	?	—	58.3
Madison	119.3	40	—	—	e 29 31?	SKSP	—	—
Stuttgart	120.1	326	e 20 10	PP	—	—	e 59.5	73.5
De Bilt	120.2	331	e 20 17	PP	30 5	SKSP	e 59.5	77.0
Florissant	z. 120.4	47	e 20 14	PP	—	—	—	—
Strasbourg	121.0	326	i 20 22 _a	PP	e 30 16	SKSP	e 41.5	—
Edinburgh	121.0	337	—	—	30 31?	SKSP	—	—
Chicago	121.0	43	—	—	e 36 55	SS	e 53.5	—
Uccle	121.4	330	e 20 21	PP	e 30 15	SKSP	e 56.5	—
Kew	123.1	333	e 20 36	PP	—	—	e 63.5	68.5
Oxford	123.3	334	—	—	e 30 28	SKSP	—	78.0
Paris	123.5	329	e 20 39	PP	—	—	63.5	74.5
Rathfarnham Castle	124.2	338	e 20 36	PP	30 21	SKSP	63.5	—
Toronto	125.3	37	—	—	e 27 52	{+ 1}	e 51.5	—
Ottawa	126.4	33	—	—	e 27 55	{- 3}	e 51.5	—
Philadelphia	130.0	38	e 21 14	PP	e 26 23	[+ 4]	e 55.4	—
Oak Ridge	130.5	33	21 22	PP	—	—	e 66.5	—
Granada	134.4	321	e 19 18	[+ 4]	—	—	71.7	—
San Fernando	136.5	322	19 20 _k	[+ 3]	—	—	70.5	—
Huancayo	139.0	113	e 23 5	{- 1}	e 40 42	SS	57.0	—
La Paz	143.4	125	i 19 31	[+ 2]	29 59	{+15}	70.6	77.5
San Juan	148.1	61	e 19 40	[+ 1]	—	—	e 125.0	—

Additional readings :—

Manila iE = +7m.27s.
 Adelaide i = +7m.51s., i = +13m.31s., i = +13m.59s., e = +14m.55s., iS_cS? = +16m.56s., i = +17m.39s.
 Batavia PE = +8m.20s. = PPPP - 2s., SN = +15m.20s.
 Perth S = +16m.46s.
 Hong Kong PP = +8m.38s., SS = +16m.1s., S_cS = +17m.7s.
 Kobe ePN = +7m.20s., ePZ = +7m.22s.
 Medan SE = +15m.6s.
 Wellington iSS = +19m.55s.
 Christchurch GN? = +18m.1s.
 Vladivostok e = +11m.29s., e = +12m.53s., e = +19m.27s. and +20m.25s.
 Chiufeng PPZ = +10m.43s., S_cSN = +18m.43s., SSN = +19m.26s.
 Samarkand e = +12m.41s.
 Sitka eSKS = +23m.15s.
 Ukiah e = +37m.7s.
 Berkeley eE = +23m.44s., eZ = +26m.4s.
 Tiflis PPEZ = +17m.38s., eSKSE = +24m.16s.
 Tinemaha eZ = +18m.6s.
 Riverside eZ = +17m.47s. = PP - 1s.
 Moscow e = +16m.48s.
 Pulkovo PP = +18m.21s., e = +27m.28s., SS = +32m.37s.
 Ksara iPP = +18m.36s., PS = +28m.1s., PKKP = +29m.24s.
 Tucson i = +27m.55s., eSS = +33m.37s.
 Copenhagen PPP = +22m.2s., SE = +27m.16s., PS = +29m.10s., SSS = +40m.1s
 Triest e = +19m.15s., e = +40m.20s.
 Stuttgart ePS = +30m.19s.
 Florissant eZ = +20m.28s.
 Kew ePPPZ = +23m.7s., ePSEN = +30m.29s.
 Toronto eN = +37m.22s.
 Ottawa e = +37m.55s. = SS - 6s.
 Philadelphia ePKS = +22m.26s., ePS = +31m.10s., e = +32m.58s., eSS = +38m.18s., e = +46m.28s.
 Oak Ridge iZ = +22m.15s.
 San Fernando ePP = +22m.54s.
 Huancayo ePS = +32m.39s.
 La Paz iPKP, = +19m.53s., PPE = +23m.39s., SSE = +43m.5s.
 Long waves were also recorded at Ivigtut, Bergen, Columbia, Upsala, Cape Town, Rio de Janeiro, Stonyhurst, Honolulu, and Apia.

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July 28d. 7h. 52m. 41s. Epicentre 3°·6S. 142°·8E. (as at 5h.). R.1.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Palau	13.8	325	3 15	+ 2	6 10	+24	—	—
Manila	28.2	312	5 50	+ 1	10 31	- 4	15.0	—
Riverview	31.2	166	e 6 19	+ 3	e 11 23	0	e 17.9	22.6
Sydney	31.2	166	e 5 49	-27	e 13 31	?	17.6	18.8
Adelaide	31.6	187	e 6 19	0	i 11 23	- 6	—	22.7
Melbourne	34.3	177	e 8 12	?	12 12	+ 1	17.1	22.8
Batavia	35.9	266	i 8 39	?	15 21	SS	—	—
Miyazaki	37.1	345	7 7	0	12 35	-18	—	—
Perth	38.0	219	8 19	PP	13 9	+ 3	18.0	32.3
Hong Kong	38.1	315	7 18	+ 2	13 10	+ 2	—	22.8
Mera	38.6	357	7 26	+ 6	—	—	—	—
Sumoto	38.7	356	7 17 _a	- 4	e 17 39	S _c S	e 19.3	—
Osaka	38.8	352	7 24	+ 2	—	—	—	—
Kameyama	38.9	353	7 13	-10	—	—	—	—
Kobe	z. 38.9	352	e 7 20	- 3	—	—	—	20.0
Hukuoka B	39.0	345	e 7 23	- 1	e 13 5	-16	—	—
Nagoya	39.1	354	e 7 23	- 1	e 8 48	PP	—	—
Yokohama	39.1	357	7 30	+ 6	—	—	—	—
Tokyo	39.4	357	7 27	0	—	—	—	—
Kohu	39.5	355	7 25	- 3	—	—	—	—
Oiwake	40.1	355	7 34	+ 1	—	—	—	—
Maebasi	40.2	355	7 45	+11	—	—	—	—
Nagano	40.5	355	7 35	- 1	13 45	+ 1	—	—
Husan	40.8	344	—	—	e 13 50	+ 2	—	—
Nanking	42.3	329	7 55	+ 4	14 17	+ 7	21.5	—
Medan	44.7	280	e 8 20	+10	14 42	- 4	—	—
Wellington	47.3	147	i 10 9	P _c P	—	—	e 25.1	29.3
Vladivostok	47.7	350	i 9 33	+59	e 16 39	+70	24.3	34.9
Christchurch	47.8	151	i 8 39 _a	+ 4	i 15 0	-30	21.1	24.8
Chiufeng	50.1	334	i 8 51 _a	- 1	16 2	0	24.8	29.6
Honolulu	63.2	64	—	—	e 19 7	+10	e 27.3	—
Kodaikanal	E. 66.5	285	—	—	e 19 19?	-20	—	—
Bombay	72.4	292	i 11 27	+ 2	i 20 43	- 7	—	—
Almata	75.3	317	e 11 42	0	—	—	—	—
Frunse	76.8	316	e 11 44	- 6	—	—	—	—
Andijan	77.7	313	e 11 57	+ 1	e 21 50	- 1	—	—
Tashkent	80.2	313	i 12 8	- 1	i 22 8	-10	35.3	48.3
College	84.7	23	e 15 51	PP	e 22 51	[- 6]	e 34.4	—
Sitka	88.6	33	e 12 46	- 5	e 23 7	[-17]	e 36.9	—
Ukiah	95.4	51	(e 17 25)	PP	—	—	e 17.4	—
Berkeley	96.1	53	e 16 38	?	e 24 2	[- 4]	e 43.5	—
Grozny	97.6	313	e 13 31	- 1	—	—	—	—
Tiflis	98.4	311	e 13 34	- 2	e 25 21	+ 9	58.1	64.0
Tinemaha	z. 99.3	54	e 13 39	- 1	—	—	—	—
Pasadena	99.5	56	i 13 41 _a	0	—	—	e 47.3	—
Mount Wilson	z. 99.6	56	i 13 39 _a	- 3	—	—	—	—
Riverside	z. 100.2	56	i 13 42	- 2	—	—	—	—
Moscow	101.5	326	e 13 9	-41	—	—	—	—
Pulkovo	104.3	331	13 59	- 4	24 57	[+11]	53.3	61.6
Tucson	105.7	58	—	—	e 24 55	[+ 2]	e 44.1	—
Ksara	106.0	303	18 38	PP	—	—	—	—
Scoresby Sund	112.4	354	19 11	PP	28 47	PS	55.3	—
Copenhagen	114.6	332	19 31	PP	25 28	[- 4]	61.3	—
Hamburg	117.0	331	20 19?	?	—	—	e 61.3	76.3
Cheb	117.6	326	—	—	e 39 19?	SSS	e 60.3	67.3
Stuttgart	120.1	326	e 20 13	PP	e 30 19	PS	e 61.3	73.3
De Bilt	120.2	331	e 20 19	PP	30 7	SKSP	e.59.3	77.0
Chicago	121.0	43	—	—	e 37 19	SS	e 59.4	—
Edinburgh	121.0	337	e 23 19?	?	—	—	e 71.3	—
Strasbourg	121.0	326	—	—	(eL 31 19?)	SKSP?	e 31.3	—

Continued on next page.

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Uccle	121.4	330	e 20 26	PP	e 30 13	SKSP	e 52.3	—
Kew	123.1	333	e 20 36	PP	—	—	e 62.3	—
Paris	123.5	329	e 20 39	PP	—	—	68.3	73.3
Rathfarnham Castle	124.2	338	e 20 36	PP	—	—	62.3	—
Ottawa	126.4	33	—	—	e 30 55	SKSP	e 56.3	—
Philadelphia	130.0	38	e 22 12	{-21}	e 31 12	SKSP	e 55.0	—
Oak Ridge	z. 130.5	33	e 19 8	{ 0}	—	—	e 67.3	—
Granada	134.4	321	e 19 35	{+21}	—	—	82.8	—
San Fernando	136.5	322	22 56	{-3}	—	—	71.8	—
Huancayo	139.0	113	e 23 2	{-4}	e 37 49	?	e 60.3	—
La Paz	143.4	125	19 31k	{+2}	26 11	SKS	74.3	83.8
San Juan	148.1	61	e 19 30	{-9}	—	—	e 69.2	—

Additional readings :—

Sydney eP = +7m.39s.
 Adelaide i = +7m.12s. = PP - 6s. and +11m.29s., eSS = +13m.26s., e = +14m.25s., iS_cS? = +16m.57s., i = +17m.42s.
 Melbourne SSS = +14m.41s.
 Perth PPP = +8m.54s., P_cS = +13m.19s., SS = +15m.21s.
 Hong Kong PP = +8m.37s., SS = +15m.49s.
 Medan iN = +9m.2s.
 Christchurch iP_cPZ = +10m.16s., eP_cS = +14m.44s., GN? = +18m.6s., iE = +19m.43s. = SSS - 5s.
 Chiufeng S_cSN = +18m.48s.
 College eSS = +28m.53s.
 Sitka eS = +23m.31s.
 Berkeley eEZ = +26m.8s.
 Tifis ePPNZ = +17m.40s., eSKSE = +24m.12s., eN = +31m.56s. and +48m.1s.
 Tinemaha eZ = +17m.37s. = PP + 0s.
 Pasadena eZ = +17m.37s. = PP - 2s.
 Mount Wilson eZ = +17m.31s. = PP - 9s.
 Riverside eZ = +17m.17s.
 Moscow e = +18m.0s. = PP + 6s.
 Pulkovo PP = +18m.21s., SKKS = +25m.23s., PS = +27m.30s.
 Tucson ePS = +27m.47s., eSS = +33m.43s.
 Ksara PS = +28m.1s., PPS = +28m.59s.
 Copenhagen PPP = +22m.5s., S = +27m.23s., PS = +29m.13s.
 Kew ePPPZ = +23m.11s., ePSEN = +30m.29s.
 Philadelphia ePKS = +22m.27s., ePS = +31m.24s., e = +32m.56s., eSS = +38m.46s., e = +52m.39s.
 Oak Ridge iZ = +21m.28s. = PP + 7s., e = +22m.29s. = PKS - 7s.
 Huancayo ePS = +34m.1s., eSS = +41m.19s.
 La Paz PKP_? = +20m.24s., SKP?E = +22m.57s., SKPN = +23m.11s., PPE = +23m.53s., SSE = +43m.1s.
 Long waves were also recorded at Apia, Phu-Lien, Bozeman, Madison, Columbia, Ivigtut, Upsala, Prague, Cape Town, and Rio de Janeiro.

July 28d. Readings also at 3h. and 5h. (near Sumoto), 7h. (Florissant), 9h. (near Andijan and near Tananarive), 10h. (Calcutta and Tifis), 11h. (La Paz), 12h. (Sotchi), 17h. (Apia and near Oak Ridge), 18h. (Merida, Oaxaca, and Tacubaya), 20h. (Tifis), 21h. (Frunse and near Almata), 22h. (La Paz and near Mizusawa).

July 29d. 23h. 0m. 46s. Epicentre 12°·5N. 93°·5W. N.3.

A = -0.596, B = -0.9745, C = +0.2164; $\delta = +3$;
 D = -0.998, E = +0.061; G = -0.013, H = -0.216, K = -0.976.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.
Oaxaca	N. 5.5	326	1 19	+ 1	—	—	—
Tacubaya	N. 8.8	322	2 2	- 3	—	—	—
Tucson	25.3	325	e 5 22	- 1	e 9 43	- 3	e 11.6
San Juan	27.0	73	e 5 40	+ 2	—	—	—
Mount Wilson	z. 31.1	319	1 6 15	0	—	—	—
Pasadena	z. 31.2	319	1 6 16	0	—	—	—
Philadelphia	z. 31.9	29	—	—	e 11 9	-25	e 15.5
Tinemaha	z. 33.1	322	1 6 31	- 2	—	—	—

Additional readings :—

Philadelphia e = +13m.4s.
 Long waves were also recorded at De Bilt, Paris, Strasbourg, and Stuttgart.

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July 29d. Readings also at 0h. (near Santiago, Tifis, and near Nagoya), 2h. (Paris), 6h. (near Nagoya), 7h. and 8h. (Nanking), 9h. (Nanking, Sebastopol, Simferopol, and Yalta), 10h. (Strasbourg), 17h. (near Lick), 23h. (near Berkeley).

July 30d. 14h. 3m. 41s. Epicentre $13^{\circ}8'S$. $173^{\circ}2'W$. (as on 1936 March 20d.). X.

$$A = -.9643, B = -.1150, C = -.2385; \quad \delta = -2;$$

$$D = -.118, E = +.993; \quad G = +.237, H = +.028, K = -.971.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Apia	1.4	90	0 24	+ 4	i 0 41	+ 5	—	—
Christchurch	32.1	200	—	—	10 59	-38	14.2	18.1
Riverview	38.0	232	—	—	12 13	-53	e 18.5	23.7
Sydney	38.0	232	—	—	12 14	-52	18.7	21.6
Melbourne	44.1	229	—	—	i 12 22	?	21.9	25.3
Adelaide	48.2	235	—	—	15 13	-23	22.5	28.6
Pasadena	z. 70.9	46	e 11 10	- 6	—	—	e 39.5	—
Mount Wilson	z. 71.1	46	e 11 11	- 6	—	—	—	—
Riverside	z. 71.4	46	e 11 18	- 1	—	—	—	—
Haiwee	E. 72.1	45	e 11 22	- 1	—	—	—	—
Tinemaha	72.5	44	e 11 27	+ 1	—	—	—	—
Tucson	75.3	51	e 11 36	- 6	e 21 9	-15	e 31.8	—
Vladivostok	75.8	322	e 11 44	- 1	—	—	e 35.8	—
Chiufeng	84.7	314	i 12 32 _a	0	e 22 57	[0]	—	—
Huancayo	94.6	104	—	—	e 23 53	[- 6]	e 44.3	—
Tashkent	119.6	310	—	—	e 30 1	PS	e 40.8	47.3
Pulkovo	130.9	345	e 21 28	PP	e 31 57	?	68.3	75.8
Tifis	136.9	318	e 22 14	PP	e 32 1	SKSP	e 55.3	78.5
De Bilt	141.7	1	e 19 21	[- 3]	—	—	e 75.3	—
Kew	141.9	7	e 18 56	[-28]	—	—	e 71.3	—
Uccle	142.9	2	e 19 25	[- 2]	—	—	e 69.3	—
Paris	144.8	5	i 19 31	[- 2]	—	—	77.3	—
Stuttgart	145.0	357	e 19 31	[- 3]	—	—	e 78.3	—
Strasbourg	145.2	358	i 19 34 _a	[0]	—	—	e 46.3	—
Ksara	146.9	311	i 19 31	[- 6]	—	—	—	83.3

Additional readings:—

Wellington ($\Delta = 29^{\circ}4'$) eP? = 14h.3m.27s., eL = +12m.25s., M = +13m.19s.

Melbourne i = +18m.1s. = S_cS - 6s.

Adelaide e = +18m.17s.

Tucson ePS = +21m.57s., eSS = +26m.19s.

Chiufeng SN = +23m.15s.

Huancayo e = +22m.53s., e = +30m.49s. = SS + 4s., e = +41m.28s.

Tashkent e = +39m.43s.

Pulkovo e = +22m.31s. = PKS - 6s., e = +33m.36s.

Tifis eEN = +22m.52s.

Stuttgart eZ = +19m.50s.

Ksara PP = +23m.6s., PPS = +36m.20s.

Long waves were also recorded at La Paz, Honolulu, Copenhagen, Rio de Janeiro, Baku, and Scoresby Sund.

July 30d. Readings also at 0h. (Baku, Tashkent, Chiufeng, and Triest), 1h. (near La Paz), 6h. (near Manila), 8h. (Mizusawa and near Santiago), 9h. (Mount Wilson, Pasadena, and near Apia), 12h. (Tifis and near Apia), 14h. (Tashkent, Samarkand, and Strasbourg), 15h. (Tashkent), 18h. (Tifis, Pulkovo, Baku, Tashkent, Chiufeng, near Mizusawa, and Nagoya), 19h. (Copenhagen, Hamburg, Moscow, Simferopol, Yalta, Tashkent, Tifis, and Pulkovo), 20h. (near Berkeley), 21h. (Tifis, Mount Wilson, Pasadena, Tinemaha, La Paz, La Plata, and near Santiago), 23h. (Mizusawa).

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July 31d. 14h. 46m. 3s. Epicentre 45°·2N. 10°·0E. N.3.

A = +·6939, B = +·1224, C = +·7096; $\delta = +1$;
D = -·174, E = -·985; G = +·699, H = +·123, K = -·705.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.
Padova	1·3	81	e 0 22	+ 4	0 37	+ 4
Zurich	2·4	336	e 0 31	- 3	e 1 1	- 1
Ravensburg	2·6	354	e 0 37	0	e 0 59	- 8
Triest	2·7	80	e 0 37	- 2	1 9	0
Neuchatel	2·8	310	e 0 40	0	e 1 21	+ 9
Basle	2·9	324	e 0 44	+ 3	e 1 18	+ 4
Stuttgart	3·6	351	—	—	e 1 31	- 1
Strasbourg	3·7	336	e 0 57?	+ 4	i 1 46	S*

Additional readings:—

Zurich eP_g = +34s.

Basle e = +51s.

Stuttgart iS_g = +1m.43s.

July 31d. 17h. 41m. 15s. Epicentre 24°·0N. 110°·2W. (as on 1935 Nov. 4d.). R.2.

A = -·3154, B = -·8574, C = +·4067; $\delta = +2$;
D = -·938, E = +·345; G = -·140, H = -·382, K = -·914.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Tucson	8·3	356	e 1 49	- 9	e 3 18	-13	e 3·8	—
Tacubaya	N. 11·2	112	e 2 57?	+20	—	—	—	—
Riverside	N. 11·8	329	e 2 44	- 2	—	—	—	—
Pasadena	12·2	327	e 2 52k	+ 1	—	—	e 3·1	—
Mount Wilson	12·3	328	i 2 53	+ 1	—	—	—	—
Santa Barbara	13·4	324	e 3 31	+24	—	—	—	—
Haiwee	13·9	333	i 3 13	- 1	—	—	—	—
Tinemaha	14·8	334	i 3 26	0	—	—	—	—
Fresno	N. 15·2	329	e 3 32	+ 1	e 5 56	-24	—	—
Denver	16·3	14	—	—	e 7 1	+16	e 8·3	11·0
Lick	16·5	326	e 3 53	+ 5	e 7 15	+25	—	—
Branner	16·9	326	—	—	e 7 13	+14	—	—
Berkeley	17·2	326	e 4 0k	+ 3	e 7 12	+ 6	—	—
Ukiah	18·7	327	e 4 13	- 2	e 7 46	+ 6	e 8·8	—
Bozeman	21·6	358	e 4 52	+ 6	e 8 39	+ 1	e 11·4	—
Des Moines	22·3	35	—	—	e 9 53	+61	i 11·0	—
Florissant	22·3	44	e 4 53	- 1	i 8 49	- 3	i 11·1	14·3
St. Louis	22·3	44	e 4 53	- 1	e 8 50	- 2	e 10·7	12·9
Seattle	25·5	342	e 5 40	+15	e 9 46	- 4	e 13·6	—
Madison	25·6	37	e 5 27	+ 2	e 9 55	+ 4	e 12·9	—
Chicago	25·9	41	e 5 31	+ 3	e 9 46	-11	e 12·6	—
Victoria	E. 26·5	342	e 5 39	+ 5	e 10 30	+23	e 13·8	17·7
Columbia	27·2	62	e 5 45	+ 5	e 10 17	- 1	e 15·3	—
Ann Arbor	28·5	44	e 6 15	+23	e 11 3	+23	e 14·0	15·8
Toronto	N. 31·9	45	e 6 9	-13	i 11 24	-10	15·2	—
Philadelphia	33·4	53	e 10 12	?	e 11 58	+ 1	16·4	—
Fordham	34·6	53	—	—	e 12 12	- 3	e 17·3	—
Ottawa	35·0	44	e 6 45	- 4	e 12 15	- 6	e 16·8	—
Oak Ridge	36·8	50	7 9	+ 4	e 12 45	- 3	e 19·8	—
Sitka	37·7	339	e 7 16	+ 4	e 12 57	- 5	e 19·3	—
East Machias	40·5	48	e 7 48	+12	e 13 46	+ 2	i 20·7	—
San Juan	41·3	89	e 7 46	+ 3	—	—	e 20·3	—
Huancayo	49·6	132	—	—	e 16 45	+50	—	—
Scoresby Sund	66·9	21	—	—	19 42	- 1	32·8	—
Oxford	82·2	36	—	—	e 22 40	+ 1	—	41·5

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
De Bilt	85.4	33	—	—	e 22 45?	[-17]	e 38.8	50.9
Paris	85.8	38	—	—	e 30 45?	?	41.8	49.8
Copenhagen	86.7	28	—	—	23 21	- 3	42.8	—
Hamburg	86.9	31	—	—	e 22 45?	[-28]	e 41.8	—
Granada	87.8	50	e 12 51	+ 4	e 23 55	+20	—	—
Pulkovo	90.2	19	—	—	e 23 57	- 1	41.8	51.6
Triest	93.8	35	—	—	e 24 58	+27	e 43.0	46.4
Chiufeng	N. 102.8	326	—	—	e 26 45?	+54	—	—
Tiflis	N. 110.3	20	—	—	e 27 23	?	e 52.8	71.0
Ksara	113.8	31	e 19 23	PP	e 29 4	?	—	56.4
Tashkent	114.7	0	—	—	e 29 17	?	e 54.8	70.7

Additional readings :—

Berkeley eS = +7m.16s.

Bozeman e = +11m.5s.

Des Moines e = +10m.15s.

Florissant iP = +4m.56s., ipPE = +5m.2s., iSP = +5m.16s., eSEZ = +8m.52s.,

iSS = +9m.2s., iSSSEN = +9m.44s.

St. Louis iPEN = +4m.56s., ipPEN = +5m.0s., ipPE = +5m.1s., isPEN =

+5m.15s., eSSN = +9m.2s., eSSSEN = +9m.44s.

Seattle e = +12m.48s.

Ann Arbor e?N = +6m.39s., e = +11m.3s., eE = +13m.57s.

Philadelphia e = +11m.12s., eSS = +13m.58s., e = +16m.8s.

Fordham eSS = +14m.22s., eSSS = +15m.8s.

Oak Ridge eZ = +8m.29s. = PP + 6s., e = +18m.43s.

East Machias ePP = +9m.10s., eSS = +17m.1s., e = +18m.1s., e = +18m.37s.,

e = +20m.26s.

Scoresby Sund +23m.45s. = SS - 10s.

Triest i = +27m.45s.

Tiflis ePSN = +28m.44s.

Tashkent e = +30m.11s., e = +43m.45s.

Long waves were also recorded at College, Honolulu, Ivigtut, Baku, Moscow, and other European stations.

July 31d. Readings also at 0h. (near Manila), 2h. (near Basle, Neuchatel, and Zurich), 4h. (Manila), 5h. (Zagreb, Zurich, and near Triest), 8h. (Vladivstok, near Mizusawa, and near Nagoya), 9h. (Andijan and near Santiago (2)), 10h. (Tiflis, Triest, and near Santiago), 11h. (Bombay, Calcutta, Medan, Nanking, Chiufeng, and Phu-Lien), 13h. (Nagoya), 16h. (Jena), 17h. (near Erevan, Grozny, and Tiflis), 18h. (near Branner), 19h. (Philadelphia and Tucson), 21h. (near Oak Ridge), 22h. (near Berkeley).

August 1d. 6h. 24m. 33s. Epicentre 33°·3N. 106°·0E. N.2.

A = -·2304, B = +·8034, C = +·5490; $\delta = -6$;

D = +·961, E = +·276; G = -·151, H = +·528, K = -·836.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Chiufeng	10.6	47	e 3 41	+72	5 22	S*	5.8	6.5
Nanking	10.8	93	2 13	-19	5 8	S*	5.5	—
Phu-Lien	12.5	177	e 3 2	+ 7	5 59	+44	6.5	8.7
Hong Kong	13.2	145	6 15?	?	7 10	?	7.5	7.9
Zi-ka-wei	E. 13.2	95	e 3 4	- 1	i 7 24	?	—	—
Taiyu	15.8	121	—	—	7 39	+65	—	—
Talhoku	15.9	117	e 6 46	S	(e 6 46)	+10	—	9.2
Heizyo	16.9	64	e 3 50	- 3	—	—	—	—
Zinsen	17.3	70	e 3 49	- 9	e 8 51	L	(e 8.8)	—
Isigakizima	18.2	114	3 57	-12	—	—	—	—
Sinkyō	18.4	49	—	—	7 43	+10	—	—
Calcutta	N. 18.9	240	4 9	- 8	7 48	+ 4	e 10.5	11.6
Husan	19.1	77	e 4 22	+ 2	e 9 56	L	(e 9.9)	—
Nagasaki	20.0	84	4 36	+ 6	8 22	+16	—	—
Hukuoka B	20.3	82	e 4 31	- 2	e 8 24	+12	12.8	—
Unzendake	20.3	84	4 43	+10	—	—	—	—
Kumamoto	20.7	84	4 38	+ 1	—	—	—	—
Nake	20.7	97	4 24	-13	—	—	—	—
Ooita	21.4	83	4 51	+ 7	—	—	—	—
Miyazaki	21.4	88	4 42	- 2	8 28	- 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.
Hamada		21.6	77	—	—	8 47	+ 9	—	—
Vladivostok		22.5	56	e 4 51	- 5	i 8 58	+ 3	12.2	15.6
Koti		22.9	82	—	—	9 19	+16	—	—
Manila		23.1	141	5 12	+10	9 36	+29	12.5	—
Toyooka		23.8	75	e 4 9	-59	—	—	11.7	15.2
Sumoto	E.	23.9	78	e 5 6	- 3	9 30	+ 9	e 13.0	15.8
	N.	23.9	78	e 5 8	- 1	9 24	+ 3	e 12.8	16.0
	Z.	23.9	78	e 5 9	0	9 32	+11	e 13.1	15.9
Kobe	E.	24.2	78	e 5 15	+ 3	e 9 36	+ 9	—	13.4
	Z.	24.2	78	e 5 12	0	e 9 40	+13	—	14.1
Osaka		24.4	78	—	—	9 20	-10	—	—
Almata		24.7	303	5 24	+ 7	9 51	+15	13.0	—
Siomisaki		24.8	80	5 10	- 8	—	—	—	—
Kameyama		25.2	78	5 2	-20	—	—	—	—
Gihu		25.4	76	5 24	0	9 47	- 1	—	—
Husiki		25.5	72	5 45	+20	—	—	—	—
Semipalatinsk		25.5	320	e 5 20	- 5	e 9 37	-13	12.7	—
Nagoya		25.6	76	e 5 28	+ 3	8 24	?	13.8	—
Frunse		26.3	300	—	—	e 10 3	0	13.0	—
Nagano		26.5	73	5 37	+ 3	—	—	—	—
Kohu		26.8	75	5 47	+11	—	—	—	—
Oiwake		26.8	73	5 40	+ 4	10 8	- 4	—	—
Maebasi		27.2	73	5 57	+17	—	—	—	—
Andijan		27.7	294	e 5 38	- 6	e 11 7	+40	14.9	—
Hokusima		28.3	72	5 50	0	—	—	—	—
Hyderabad		29.4	246	10 56	S	(10 56)	+ 1	18.5	24.4
Tashkent		30.0	296	e 5 59	- 6	i 10 56	- 8	e 15.4	17.5
Medan		31.4	195	6 19	+ 2	i 11 27	+ 1	i 16.6	—
Samarkand		31.8	292	6 27	+ 6	11 27	- 5	17.5	—
Bombay		32.9	252	e 7 27	+56	11 48	- 1	16.2	18.5
Kodaikanal	E.	34.9	236	—	—	e 12 27?	+ 7	—	—
Colombo		35.8	228	12 37	S	(12 37)	+ 4	—	31.5
Batavia		39.5	178	i 7 33	+ 5	i 13 50	+21	i 22.0	—
Baku		44.7	294	e 10 11	PPP	14 44	- 2	23.0	26.2
Tiflis		48.2	299	e 8 35	- 3	e 15 31	- 5	e 25.0	29.5
Moscow		51.1	317	e 8 56	- 4	e 16 6	-10	23.9	30.6
Sotchi		51.5	302	e 9 1	- 2	—	—	—	—
Pulkovo		54.7	323	9 23	- 3	16 53	-12	28.0	30.8
Ksara		57.2	291	e 9 49	+ 4	17 39	0	—	—
Bucharest		60.7	306	e 10 27?	+18	18 22	- 3	—	39.5
Helwan		62.9	289	—	—	i 18 40	-14	—	—
Copenhagen		64.9	322	—	—	19 9	-10	31.5	—
Vienna		65.6	313	e 11 40	+58	—	—	e 35.3	—
Prague		66.0	315	—	—	e 25 27?	?	e 34.0	38.5
Bergen		66.4	328	—	—	e 24 5	SS	30.6	36.5
College		66.5	26	—	—	e 19 27	-12	e 32.5	—
Zagreb		66.8	310	e 10 47	- 4	—	—	e 36.0	—
Hamburg		67.1	320	—	—	e 19 27?	-19	—	36.5
Cheb		67.2	316	—	—	e 19 45	- 2	e 32.9	38.6
Triest		68.3	311	—	—	e 19 16	-45	33.1	36.3
Stuttgart		69.7	316	—	—	e 28 27?	SSSS	e 36.5	41.6
Scoresby Sund		69.8	344	—	—	20 10	- 9	35.5	—
De Bilt		70.3	320	—	—	e 20 16	- 9	e 33.5	44.4
Strasbourg		70.6	316	—	—	(e 20 27?)	- 1	e 20.4	—
Uccle		71.4	320	e 23 14	?	e 28 13	SSS?	e 33.5	39.3
Edinburgh		72.5	326	—	—	e 22 7	?	e 37.4	40.9
Kew		73.5	321	—	—	e 26 39	?	e 40.5	41.1
Paris		73.5	318	—	—	e 25 27?	SS	37.5	44.5
Oxford		73.9	322	—	—	e 20 55	-12	e 35.5	40.1
Toledo		82.4	313	—	—	e 26 12	?	e 37.2	46.4
Florissant	N.	106.3	13	—	—	e 40 46	SSSS	e 58.0	58.5
Philadelphia		106.7	1	—	—	e 24 57	[- 1]	e 52.1	—

For Notes see next page.

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NOTES TO AUGUST 1d. 6h. 24m. 33s.

Additional readings :—

Chiufeng iE = +3m.53s.
 Hong Kong ? = +6m.46s.
 Zi-ka-wei iE = +7m.44s., +7m.56s. and +8m.10s., iN = +8m.27s., iE = +9m.4s.
 Taihoku ePE? = +7m.55s., eS = +8m.44s.
 Hyderabad S = +15m.52s.
 Bombay SSEN = +13m.39s.
 Tiflis PZ = +8m.41s., eSSN = +18m.57s., eN = +21m.54s.
 Baku SS = +18m.3s.
 Ksara PS = +18m.9s.
 Bucharest eEN = +14m.15s., eN = +16m.27s.? eE = +20m.3s., +21m.18s.
 Copenhagen +23m.9s. = +26m.27s.
 Prague e = +29m.57s.
 College e = +27m.57s.
 Cheb e = +27m.16s.
 Trieste e = +23m.16s.
 Stuttgart e = +34m.27s.?
 Philadelphia ePS = +27m.33s.

Long waves were also recorded at Karenko, Hukuoka, Keizyo, Taito, Giran, Arisan, Tainan, Taikyū, San Juan, Ivigtut, Sitka, Tucson, Vermont, Oak Ridge, and other European stations.

Aug. 1d. 8h. 5m. 57s. Epicentre 24°·0N. 110°·2W. (as on July 31d.). R.3.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tucson		8·3	356	1 46	-12	e 3 40	+ 9	e 3·8	—
La Jolla	N.	10·8	327	e 2 29	- 3	—	—	—	—
Tacubaya	N.	11·2	112	3 20	+43	—	—	—	—
Riverside	Z.	11·8	329	e 2 49	+ 3	—	—	—	—
Pasadena		12·2	327	e 2 46	- 5	—	—	e 5·6	—
Mount Wilson	Z.	12·3	328	e 2 52	0	—	—	—	—
Santa Barbara	Z.	13·4	324	e 3 14	+ 7	—	—	—	—
Haiwee	E.	13·9	333	e 3 10	- 4	—	—	—	—
Tinemaha		14·8	334	e 3 24	- 2	—	—	—	—
Fresno	N.	15·2	329	e 2 31	-60	e 5 18	-62	—	—
Denver		16·3	14	—	—	e 7 17	+32	—	—
Lick		16·5	326	e 3 51	+ 3	—	—	e 8·2	—
Berkeley		17·2	326	e 4 3	+ 6	e 7 30	+24	—	—
Ukiah		18·7	327	e 4 18	+ 3	e 7 53	+13	—	—
Bozeman		21·6	358	e 5 4	+18	e 8 34	- 4	e 11·8	—
Des Moines		22·3	35	—	—	e 9 17	+25	i 11·6	—
Florissant		22·3	44	i 4 54	0	i 8 49	- 3	e 11·2	13·5
St. Louis		22·3	44	e 4 52	- 2	e 9 13	SS	i 11·2	12·2
Madison		25·6	37	e 5 28	+ 3	e 9 57	+ 6	e 13·2	—
Chicago		25·9	41	—	—	e 9 58	+ 1	i 13·1	—
Columbia		27·2	62	e 6 3	+23	e 10 35	+17	—	—
Ann Arbor		28·5	44	—	—	e 11 27	+47	e 15·2	16·8
Toronto	N.	31·9	45	—	—	e 11 38	+ 4	15·0	—
Philadelphia		33·4	53	e 7 45	PP	e 12 5	+ 8	i 17·2	—
Ottawa		35·0	44	—	—	e 12 3?	-18	18·0	—
Vermont		36·3	47	e 8 23	PP	e 13 6	+25	i 18·7	—
Oak Ridge		36·8	50	—	—	e 15 29	SS	e 21·0	—
Sitka		37·7	339	e 7 12	0	e 13 9	+ 7	—	—
East Machias		40·5	48	e 9 10	PP	e 14 7	+23	e 19·6	—
Ivigtut		55·7	32	—	—	13 0	?	27·0	—
Toledo		86·2	48	—	—	e 25 54	?	—	—
Granada		87·8	50	—	—	(e 23 41)	+ 6	23·7	49·2
Pulkovo		90·2	19	—	—	e 23 55	- 3	44·0	52·6
Triest		93·8	35	—	—	e 24 53	+22	e 35·0	46·7
Ksara		113·8	31	19 3?	PP	—	—	37·0	—

Additional readings :—

Tucson e = +2m.12s. and +3m.28s.
 Denver esSN = +7m.49s., eEN = +8m.6s., iN = +8m.33s., eP_cPN = +8m.49s., iE = +8m.53s., eN = +9m.23s., iE = +9m.53s.
 Ukiah ePP = +4m.31s., SS = +8m.11s.
 Bozeman eS = +8m.51s.
 Des Moines eSS = +10m.13s., e = +11m.3s.

Continued on next page.

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Florissant ipPE = +5m.16s., isPNZ = +5m.36s., isSEN = +9m.23s., eSSEN = +10m.4s.

St. Louis iPE = +5m.1s., ipPE = +5m.19s., iE = +5m.39s.

Columbia e = +10m.51s.

Ann Arbor e = +13m.39s., eE = +14m.33s.

Philadelphia e = +10m.32s., eS = +12m.10s., e = +13m.51s.

Vermont e = +9m.37s. and +12m.33s., eSS = +15m.23s., eSSS = +15m.53s.

Oak Ridge e = +19m.31s.

East Machias e = +14m.38s. and +18m.4s.

Long waves were also recorded at Honolulu, Branner, Huancayo, San Juan, Seattle, College, Scoresby Sund, Tashkent, Tifis, and other European stations.

Aug. 1d. Readings also at 1h. (Zurich), 2h. (Paris), 3h. (Andijan and near Mizusawa), 7h. (College, Sitka, Honolulu, and Chiufeng), 8h. (Jersey, Scoresby Sund, Pulkovo, Tashkent, and Tifis), 9h. (Jersey), 12h. (Tifis), 13h. (Philadelphia), 14h. (Balboa Heights, Haiwee, Mount Wilson, Pasadena, Tucson, Madison, and Florissant), 15h. (Ann Arbor, Philadelphia, Vermont, St. Louis, Bozeman, and Scoresby Sund), 17h. (Weston), 19h. (Baku, Tashkent, Tifis, and La Paz), 20h. (Berkeley, Branner, Ferndale, Ukiah, Tucson, and Ksara), 22h. (Belgrade), 23h. (Andijan, Frunse, Samarkand, and Grozny).

Aug. 2d. 1h. 0m. 11s. Epicentre 45°·0N. 40°·8E. N.3.
(as given by Seismological Stations of the Caucasus).

A = +·5353, B = +·4620, C = +·7071; $\delta = -2$;
D = +·653, E = -·757; G = +·535, H = +·462, K = -·707.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sotchi	1·6	208	0 27	P _g	i 0 49	S _g	—	—
Grozny	3·9	114	i 1 11	P _g	i 1 43	+ 3	—	3·5
Tifis	4·4	138	e 1 18	P _g	e 1 46	- 7	e 2·6	—
Yalta	4·7	266	i 1 7	0	i 1 58	- 2	—	—
Simferopol	4·7	272	i 1 7	0	i 1 58	- 2	—	—
Sebastopol	5·2	268	i 1 14	0	i 2 11	- 2	—	—
Moscow	10·9	351	—	—	e 4 49	+13	e 7·3	—
Pulkovo	16·1	341	e 3 41	- 2	i 6 24	-17	8·3	—

Additional readings:—

Sotchi i = +33s.

Grozny i = +1m.24s., iPP = +1m.27s., iS_g = +2m.16s., i = +2m.25s.

Long waves were also recorded at Baku, Tashkent, Copenhagen, and Hamburg.

Aug. 2d. 18h. 21m. 8s. Epicentre 38°·0N. 29°·5E. (as on 1933 July 19d.). R.3

A = +·6858, B = +·3880, C = +·6157; $\delta = -5$;
D = +·492, E = -·870; G = +·536, H = +·303, K = -·788.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Istanbul	3·1	354	1 10	P _g	1 44	P _g	—	—
Ksara	6·6	127	e 1 32?	- 2	e 3 12?	S _g *	—	—
Sofia	6·6	317	e 1 46	+12	—	—	—	—
Bucharest	N. 6·9	339	e 1 44	+ 6	e 3 20	S*	—	5·2
Sebastopol	7·2	23	e 1 44	+ 2	e 4 14	P _g	—	—
Yalta	7·4	27	1 43	- 2	e 4 9	P _g	—	—
Simferopol	7·7	25	e 1 50	+ 1	4 18	S _g	—	—
Tifis	12·3	68	e 2 54	+ 2	e 5 28	+18	7·2	8·8
Triest	14·0	308	e 4 15	+60	—	—	i 7·7	—
Baku	16·0	75	—	—	e 7 5	+27	e 9·9	—
Moscow	18·5	14	4 13	0	e 7 47	+11	—	—
Strasbourg	18·9	311	e 4 18	+ 1	e 8 0	SS	e 9·9	—
Copenhagen	21·1	332	4 40	- 1	8 46	+18	12·9	—
Pulkovo	21·8	1	4 48	- 1	e 8 53	S _g S	12·4	14·1
Tashkent	30·5	71	e 9 13	?	e 12 39	?	—	22·9

Additional readings:—

Ksara SS = +4m.12s.?

Bucharest eN = +3m.32s., SN = +4m.1s., iN = +4m.13s.

Tifis eN = +3m.8s.

Triest i = +8m.54s.

Moscow e = +4m.17s.

Long waves were also recorded at De Bilt, Stuttgart, and Hamburg.

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Aug. 2d. 22h. 41m. 9s. Epicentre 38°·0N. 29°·5E. (as at 18h.).

R.3.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Istanbul	3·1	354	0 59	P _g	—	—	—	—
Ksara	6·6	127	e 2 3?	P _g	e 3 19?	S*	—	—
Sofia	6·6	317	e 1 26	- 8	3 8	S*	—	—
Bucharest	6·9	339	e 1 43	+ 5	2 59	+ 3	—	—
Sebastopol	7·2	23	1 40	- 2	i 2 52	-12	—	—
Yalta	7·4	27	1 40	- 5	i 2 50	-19	—	—
Simferopol	7·7	25	e 1 45	- 4	3 1	-15	—	—
Tiflis	12·3	68	e 3 9	+17	e 5 33	+23	7·4	8·3
Grozny	13·4	61	e 3 32	+25	—	—	—	—
Triest	14·0	308	e 3 33	+18	e 6 48	S _g	—	—
Cheb	17·1	320	—	—	e 6 51?	-13	—	12·5
Moscow	18·5	14	e 4 8	- 5	e 7 30	- 6	e 11·6	13·4
Strasbourg	18·9	311	e 4 17	0	e 7 45	+ 1	e 8·9	—
Hamburg	20·5	326	—	—	e 7 51?	-25	—	—
Copenhagen	21·1	332	4 37	- 4	8 21	- 7	10·9	—
Pulkovo	21·8	1	e 4 48	- 1	e 8 31	-11	11·4	13·0
Paris	22·2	308	e 4 34	-19	—	—	e 13·6	—
Granada	26·2	278	e 5 32	+ 1	—	—	—	—
Tashkent	30·5	71	—	—	e 11 48	+36	—	20·5

Additional readings :—

Ksara e = +3m.43s.?

Sofia e = +2m.40s.

Bucharest eN = +2m.1s., iN = +2m.39s., +3m.22s., and +3m.41s. = S_g - 1s.

Triest i = +7m.29s. and +8m.12s.

Tashkent e = +13m.10s.

Long waves were also recorded at Zagreb, De Bilt, Stuttgart, and Vienna.

Aug. 2d. Readings also at 0h. (near Santiago), 2h. (Bombay), 3h. (Triest), 4h. (Oaxaca, Tacubaya, Belgrade, and near Sumoto), 6h. (Zurich), 7h. (San Juan), 9h. (La Paz (2), Tucson, and Ukiah), 10h. (near Santiago), 12h. (Wellington (2)), 15h. (Cheb), 16h. (Grozny), 19h. (Baku, Ksara, Tashkent, and Tiflis), 20h. (Copenhagen and Jena), 22h. (Oak Ridge, near Florissant, and St. Louis).

Aug. 3d. 4h. 1m. 36s. Epicentre 36°·5N. 31°·0E. (as on 1934 June 19d.).

X.

A = +·6890, B = +·4140, C = +·5948; $\delta = -10$;

D = +·515, E = -·857; G = +·510, H = +·306, K = -·804.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Istanbul	4·8	342	1 24?	P _g	2 2	- 1	—	—
Ksara	4·8	122	e 1 47	P _g	e 3 11	S _g	—	—
Sebastopol	8·3	12	e 2 30	P*	—	—	—	—
Yalta	8·3	16	e 2 4	+ 6	e 4 0	S*	—	—
Sofia	8·5	319	e 2 18	P*	e 3 49	+13	—	—
Simferopol	8·7	15	e 2 10	+ 7	e 3 36	- 5	—	—
Bucharest	8·7	336	e 2 42	P _g	14 20	S*	—	—
Tiflis	11·9	60	e 2 33	-14	e 6 0	S*	e 7·4	9·2
Grozny	13·2	54	e 3 50	+45	—	—	—	—
Zagreb	14·6	314	—	—	e 6 41	+36	—	—
Baku	15·3	69	—	—	e 7 25	?	e 10·0	—
Triest	15·8	311	e 3 44	+ 5	i 7 55	?	i 9·2	—
Moscow	19·7	11	4 27	+ 1	8 3	+ 3	—	—
Stuttgart	20·0	314	e 4 30	0	e 8 0	- 6	e 10·4	—
Strasbourg	20·8	313	i 4 38 _a	0	i 8 20	- 2	e 9·4	—
Copenhagen	23·0	332	—	—	9 0	- 5	12·4	—
Pulkovo	23·3	359	e 5 4	0	e 9 17	+ 7	12·4	14·2
De Bilt	24·0	319	—	—	e 11 24?	?	e 14·4	15·1
Granada	27·5	282	—	—	e 10 24	0	—	—
Tashkent	29·9	69	—	—	e 12 0	+57	e 16·4	23·1

For Notes see next page.

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NOTES TO AUGUST 3d. 4h. 1m. 36s.

Additional readings:—

Sebastopol e = +5m.34s. and +7m.11s.

Yalta e = +5m.38s.

Bucharest iN = +4m.36s. and +5m.24s.

Zagreb eNE = +6m.47s. and +7m.28s., eNW = +8m.28s.

Tashkent e = +13m.29s.

Long waves were also recorded at Vienna, Cheb, and Hamburg.

Aug. 3d. 10h. 8m. 10s. Epicentre 26°·0N. 125°·0E. N.3.

A = -·5155, B = +·7363, C = +·4384; $\delta = +7$;
D = +·819, E = +·574; G = -·251, H = +·359, K = -·899.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	3·3	254	i 0 48 _a	+ 1	i 1 16	- 9	—	i 1·3
Nanking	8·1	319	i 1 57	+ 2	e 3 24	- 2	—	—
Manila	12·0	199	2 47	- 1	4 46	-17	—	—
Chiufeng	15·9	335	i 3 40 _a	0	6 37	+ 1	—	—
Vladivostok	18·0	16	e 4 15	+ 8	8 51	+86	—	—
Tashkent	48·0	303	e 11 47	?	—	—	e 25·1	28·9
Grozny	65·0	308	e 10 26	-13	—	—	—	—
Tiflis	E. 66·0	306	—	—	e 18 58	-34	—	—
Sotchi	69·2	309	e 10 50	-16	—	—	—	—

Additional readings:—

Vladivostok SS = +9m.50s.

Tashkent e = +14m.50s. and +16m.21s., i = +17m.50s., e = +20m.16s., and +22m.15s.

Aug. 3d. Readings also at 6h. (Grozny), 7h. (near Mizusawa and Nagoya), 12h. (Grozny), 13h. (Tiflis, Ksara, and Trieste), 14h. (De Bilt, Strasbourg, Stuttgart, near Berkeley, Branner, and Lick), 16h. (Chiufeng), 17h. (Almeria, Ksara, Baku, Tashkent, Grozny, Tiflis, near Erevan, and near Manila), 20h. (Granada).

Aug. 4d. 14h. 9m. 47s. Epicentre 20°·0N. 121°·0E. (as on 1929 April 5d.). R.3.

A = -·4840, B = +·8055, C = +·3420; $\delta = +5$;
D = +·857, E = +·515; G = -·176, H = +·293, K = -·940.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	5·1	6	1 22	P*	2 26	S*	—	2·8
Manila	5·4	180	i 1 3 _a	-14	i 2 7	-11	—	—
Hong Kong	6·7	292	1 32	- 3	2 53	+ 2	3·6	5·4
Nanking	12·2	351	2 59	+ 8	e 6 1	S*	i 8·5	11·6
Phu-Lien	13·5	276	3 9	0	—	—	7·2	9·2
Sumoto	18·9	38	4 19	+ 2	8 3	SSS	—	—
Kobe	E. 19·4	37	4 15	- 8	—	—	—	—
Chiufeng	20·5	349	e 4 40	+ 5	i 8 36	+20	11·3	14·3
Nagoya	20·7	38	e 4 39	+ 2	5 54	?	—	—
Vladivostok	24·9	19	e 5 23	+ 4	e 9 42	+ 3	10·6	17·4
Mizusawa	E. 25·8	38	(5 33)	+ 6	e 5 33	P	—	—
Medan	27·2	237	5 41	+ 1	10 8	-10	—	—
Batavia	N. 29·7	209	e 5 41	-21	—	—	—	—
Calcutta	N. 30·5	280	8 50	?	13 50	?	e 17·2	19·8
Agra	E. 39·9	288	e 7 16	-15	13 24	-11	—	—
Colombó	42·0	260	9 27	PP	—	—	21·2	25·9
Kodaiikanal	E. 43·0	265	7 58	+ 1	14 13	- 8	22·0	25·0
Almata	43·4	313	e 8 39	+29	—	—	—	—
Frunse	45·0	311	e 8 11	- 2	e 14 55	+ 5	—	—
Bombay	45·3	277	e 10 5	P _c P?	i 14 50	- 5	—	32·3

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.
Andijan	46.1	307	e 8 23	+ 2	e 15 14	+ 8	—	—
Tashkent	48.5	309	9 31	+51	i 15 42	+ 2	25.3	32.1
Samarkand	50.0	305	e 8 57	+ 6	—	—	—	—
Baku	63.1	308	10 33	+ 7	i 19 0	+ 4	e 30.2	—
Grozny	65.9	310	e 10 55	+10	—	—	e 39.2	—
Tiflis	66.7	308	10 57	+ 7	e 19 49	+ 8	e 35.2	44.8
Erevan	67.2	306	e 11 27	PcP	—	—	—	—
Moscow	69.9	323	e 15 46	PPPP?	e 20 18	- 2	e 30.7	42.3
Sotchi	70.2	310	e 11 33	PcP	—	—	—	—
Pulkovo	73.2	329	11 36	+ 6	20 55	- 4	38.2	44.9
Simferopol	73.9	313	e 11 32	- 2	—	—	—	—
Yalta	73.9	311	e 11 9	-25	e 21 5	- 2	—	—
Ksara	75.1	300	i 11 40 _a	- 1	21 40	+19	—	—
Helwan	79.9	298	—	—	i 22 7	- 8	—	—
Copenhagen	83.4	327	—	—	22 44	[- 3]	38.2	—
Prague	84.8	322	—	—	e 22 43	[-15]	e 44.2	56.2
Hamburg	85.7	326	—	—	e 22 13?	[-51]	e 45.2	54.2
Cheb	86.0	323	—	—	e 22 53	[-13]	e 49.2	54.8
Triest	87.1	318	e 11 36	-68	i 23 7	[- 7]	—	e 48.9
Stuttgart	88.4	322	e 12 48	- 2	e 23 13	[-10]	e 47.2	58.2
De Bilt	89.0	325	—	—	e 23 22	[- 4]	e 46.2	57.4
Strasbourg	89.4	322	e 12 55	0	e 23 13	[-16]	e 43.2	—
Edinburgh	90.8	331	—	—	e 23 13?	[-24]	e 48.2	57.2
Kew	92.1	327	e 16 13?	?	e 30 14	SS	e 50.2	59.5
Paris	92.1	325	e 13 15	+ 8	—	—	50.2	58.2
Bidston	92.2	329	—	—	e 30 12	SS	e 50.2	61.2
Oxford	92.5	327	—	—	e 23 35	[-12]	—	59.2
Granada	102.6	318	18 20	PP	—	—	59.2	—

Additional readings:—

Taihoku eEN = +1m.24s., SN = +2m.31s.

Hong Kong ? = +1m.42s., ? = +1m.51s. = P* + 0s.

Kobe eN = +4m.21s., eZ = +4m.24s.

Chiufeng iPP = +4m.59s., iSE = +8m.38s., SSE = +9m.3s.

Medan PN = +6m.3s.

Batavia PE = +6m.29s.

Calcutta SSN = +15m.16s.

Agra PPPE = +9m.9s., SSSE = +16m.38s.

Kodaikanal iSSSE = +17m.38s.

Bombay eN = +10m.13s.?

Samarkand e = +9m.13s.

Tiflis e = +13m.13s. = PP + 4s., eSSN = +24m.11s., eSSSN = +27m.13s.

Moscow e = +16m.58s., e = +23m.55s.

Yalta e = +14m.30s.

Ksara PP = +14m.38s., PS = +22m.20s., SS = +27m.1s.

Stuttgart eS = +23m.34s., ePS = +24m.35s.

Long waves were also recorded at Stonyhurst, San Fernando, Bergen, Upsala, and Jersey.

Aug. 4d. Readings also at 1h. (Huancayo, Mount Wilson, Pasadena, Riverside, Tucson, and San Juan), 2h. (Paris, Stuttgart, Strasbourg, Scoresby Sund, Tucson, near La Jolla, Riverside, Pasadena, and Mount Wilson), 3h. (Haiwee, La Jolla, Tinemaha, Mount Wilson, Pasadena, Riverside, Tucson, Guadalajara, Merida, Oaxaca, and Tacubaya), 4h. (Huancayo, Bozeman, Ukiah, Sitka, Scoresby Sund, Paris, Stuttgart, Strasbourg, Phu-Lien, Nagoya, and near Sumoto), 5h. (Philadelphia), 6h. (Madison, Ukiah, Bozeman, Florissant, Sitka, Haiwee, Mount Wilson, Pasadena, Tucson, Tinemaha, Scoresby Sund, Strasbourg, and Stuttgart), 8h. (Philadelphia), 9h. (Bozeman, Tucson, Kobe, Sumoto, and Nagoya), 10h. (Philadelphia and near Apia), 11h. (La Paz, Mount Wilson, Pasadena, Riverside, and Tinemaha), 12h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Grozny, Oaxaca, and Tacubaya), 15h. (Tiflis), 17h. (Andijan (2), Frunse, Tashkent, near Samarkand, and near Branner), 18h. (Tiflis, Tashkent, Andijan, Samarkand, Baku, Zagreb, Sotchi, near Erevan, and Grozny), 20h. (near Manila), 22h. (near Wellington).

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Aug. 5d. 9h. 36m. 38s. Epicentre $39^{\circ}5N$. $15^{\circ}0E$. (as on 1928 Feb. 6d.). R.3.

$$A = +.7453, B = +.1997, C = +.6361; \quad \delta = -2;$$

$$D = +.259, E = -.966; \quad G = +.614, H = +.165, K = -.772.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Triest	6.2	352	i 1 30 a	+ 2	i 2 39	+ 1	—	—
Zagreb	6.3	6	e 1 32	+ 2	e 2 42	+ 1	—	3.0
Belgrade	6.7	36	—	—	e 2 44	- 7	—	—
Vienna	8.8	6	e 2 22?	+17	—	—	—	—
Zurich	N. 9.1	332	e 2 9 a	0	e 3 52	+ 1	—	—
Neuchatel	N. 9.5	324	e 2 13	- 1	—	—	—	—
Basle	9.7	329	e 2 15	- 2	e 3 59	- 7	—	—
Tiflis	N. 22.6	75	—	—	e 7 24	-93	—	—

Belgrade gives also eNW = +3m.0s., +3m.25s., and +3m.46s.

Aug. 5d. Readings also at 3h. (Reykjavik and Samarkand), 4h. (De Bilt, Kew, and Edinburgh), 7h. (Yalta), 10h. (Andijan), 12h. (Phu-Lien and near Santiago), 14h. (Manila), 15h. (Oak Ridge), 18h. (Frunse and near Almata), 22h. (Montezuma), 23h. (Andijan, La Paz, La Plata, and Rio de Janeiro).

Aug. 6d. Readings at 0h., 1h., and 3h. (near Medan), 4h. (Andijan), 5h. (Andijan, Samarkand, Tortosa, Triest, near Bucharest, and Sofia), 6h. and 8h. (Reykjavik), 10h. (Tacubaya), 12h. (Mount Wilson, near Lick, and near Samarkand), 19h. (near Nagoya), 20h. (near Andijan).

Aug. 7d. 21h. 51m. 34s. Epicentre $52^{\circ}5N$. $158^{\circ}W$. N.3.

$$A = -.5644, B = -.2280, C = +.7934; \quad \delta = +1;$$

$$D = -.375, E = +.927; \quad G = -.736, H = -.297, K = -.609.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
College	13.4	19	e 3 12	+ 5	e 5 37	0	6.5	—
Sitka	13.7	62	e 3 14	+ 3	—	—	e 6.1	—
Mount Wilson	z. 33.7	107	i 6 42	+ 4	—	—	—	—
Pasadena	z. 33.7	107	i 6 42	+ 4	—	—	—	—
Florissant	47.3	79	i 8 30	- 1	e 15 21	- 2	e 24.6	—
St. Louis	47.5	79	i 8 31	- 1	i 15 23	- 3	—	—
Weston	55.9	63	i 9 27	- 8	—	—	—	—
Chiufeng	N. 57.0	295	e 17 47	S	(e 17 47)	+11	—	—
Pulkovo	67.5	356	e 10 44	-11	e 20 47	S _c S	40.4	—
Copenhagen	71.5	7	—	—	20 32	- 7	38.4	—
San Juan	76.6	77	—	—	e 21 14	-24	e 41.8	—
Tashkent	77.6	326	e 17 30	PP	e 22 18	+29	e 37.4	43.0
Tiflis	83.7	343	e 12 0	-27	e 22 49	[0]	e 43.9	54.6

Additional readings:—

College e = +4m.58s.

Florissant i = +10m.24s.

St. Louis iE = +8m.55s., eE = +10m.25s., iE = +15m.31s., eN = +18m.21s.

San Juan e = +21m.28s. and +25m.50s.

Tashkent e = +21m.38s. and +30m.26s.

Long waves were also recorded at Honolulu, Ukiah, Madison, Chicago, Granada, and Baku.

Aug. 7d. Readings also at 0h. (Sumoto), 2h. (Taikyū), 4h. (Tiflis and near Grozny), 6h. (Ivigtut and Scoresby Sund), 7h. (Edinburgh (2), Tiflis, Triest, Ravensburg, near Basle, Neuchatel, and Zurich), 10h. (Medan), 11h. (Frunse and near Samarkand), 13h. (Jena, Stuttgart, Yalta, Ravensburg, near Triest, near Basle, Neuchatel, and Zurich), 16h. (Graz), 18h. (Nagoya and near Mizusawa), 19h. (Baku, Tashkent, and Tiflis), 23h. (near Batavia and Malabar).

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Aug. 8d. 4h. 12m. 43s. Epicentre 33°·3N. 25°·9E. (as on 1934 Nov. 21d.). R.1.

$$A = +.7519, B = +.3651, C = +.5490; \quad \delta = +5;$$

$$D = +.437, E = -.900; \quad G = +.494, H = +.240, K = -.836.$$

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Helwan	5.8	124	e 1 30	+ 8	2 42	+14	—	—
Ksara	8.4	85	e 2 5?	+ 6	3 53?	+19	—	—
Sofia	9.6	349	e 2 17	+ 1	e 4 1	- 2	—	5.3
Bucharest	11.1	1	e 2 32	- 4	i 4 55	+14	—	6.4
Belgrade	12.3	342	e 2 47k	- 5	e 4 51	-19	—	8.0
Sebastopol	12.8	25	2 58	- 1	—	—	—	—
Yalta	12.9	30	2 46	-15	—	—	—	—
Simferopol	13.3	25	3 4	- 2	3 47	?	—	—
Zagreb	14.6	334	e 3 27	+ 4	6 16	+11	e 7.9	8.8
Sotchi	14.9	43	e 3 28	+ 1	—	—	8.1	—
Florence	15.5	317	3 37	+ 2	6 46	+19	—	—
Triest	15.5	328	3 32	- 3	6 14	-13	8.0	9.7
Graz	15.9	333	i 3 37	- 3	i 7 5	+29	e 8.3	10.6
Padova	16.2	324	e 3 51	+ 7	8 29	?	—	—
Erevan	16.4	61	e 4 2	+16	—	—	—	—
Vienna	16.6	338	e 3 44	- 5	e 6 54	+ 2	e 9.3	11.3
Tiflis	17.1	55	3 53	- 2	i 6 59	- 5	9.9	—
Grozny	18.4	52	e 4 11	0	—	—	—	—
Prague	18.9	337	e 5 10	+53	e 8 3?	+19	e 9.3	12.3
Algiers	19.0	286	i 4 29	+10	i 8 11	+25	10.8	—
Zurich	19.2	322	e 4 19	- 2	e 7 47	- 3	—	—
Cheb	19.5	333	e 4 21	- 3	e 7 52	- 4	e 10.3	11.3
Basle	19.8	321	e 4 28	+ 1	e 8 4	+ 2	—	—
Neuchatel	19.8	320	e 4 28	+ 1	e 8 3	+ 1	—	—
Stuttgart	19.9	327	e 4 26	- 3	e 8 6	+ 2	e 9.8	13.1
Baku	20.4	62	4 33	- 1	8 21	+ 7	10.9	12.7
Strasbourg	20.4	324	i 4 35a	+ 1	8 18	+ 4	e 11.3	—
Barcelona	20.5	300	4 39	+ 4	e 8 30	+14	e 11.5	13.2
Jena	21.5	333	e 4 32	-13	e 8 12	-24	e 10.3	13.5
Tortosa	21.5	297	4 51	+ 6	8 54	S _c S	—	—
Paris	23.3	318	e 5 17?	+13	e 9 47	SS	13.3	14.3
Almeria	23.4	287	i 5 11	+ 6	e 9 24	+12	—	—
Uccle	23.5	325	5 7	+ 2	9 13	- 1	11.3	—
Moscow	23.8	15	e 5 1	- 7	9 0	-19	14.4	16.1
De Bilt	24.0	329	5 10	0	9 22	- 1	e 11.3	17.4
Copenhagen	24.3	341	5 11	- 2	9 17	-11	11.3	—
Granada	24.3	288	i 5 23	+10	9 43	+15	—	—
Toledo	24.8	293	e 5 27	+ 9	i 9 55	+18	e 12.4	—
Jersey	26.1	316	5 32	+ 2	10 7	+ 7	17.0	—
Kew	26.3	323	e 5 35	+ 3	e 10 7	+ 4	e 12.3	12.8
San Fernando	26.4	285	6 18	PP	10 52	+47	—	—
Pulkovo	26.6	5	i 5 30	- 5	9 48	-21	13.3	17.3
Oxford	26.9	321	—	—	e 10 6	- 8	e 13.5	18.2
Upsala	27.1	350	e 5 40	+ 1	e 10 6	-11	e 13.3	17.5
Bidston	28.7	322	—	—	e 10 57	+14	e 12.3	12.9
Stonyhurst	28.7	323	—	—	10 37	- 6	16.3	18.0
Edinburgh	30.2	326	—	—	11 7	0	i 17.3	—
Bergen	30.3	340	—	—	e 12 12	+63	16.3	19.3
Samarkand	33.4	66	e 6 35	0	—	—	—	—
Tashkent	35.1	63	7 15	+25	12 58	+35	e 16.3	20.5
Andijan	37.4	65	e 6 17	-53	—	—	—	—
Frunse	38.9	61	e 7 14	- 9	—	—	—	—
Semipalatinsk	42.8	49	e 7 44	-11	—	—	—	—
Scoresby Sund	45.2	339	—	—	18 47	SSS	23.3	—
Ivigtut	53.7	325	—	—	16 53	+ 1	29.3	—
Chiufeng	69.4	55	e 11 3	- 4	e 20 8	- 6	e 34.9	—
Ottawa	74.2	314	—	—	e 21 17?	+ 6	34.3	—
Vladivostok	78.1	46	11 59	+ 1	—	—	—	22.6
San Juan	81.7	286	—	—	e 22 30	- 4	—	—
Florissant	86.8	316	e 12 48	+ 6	e 23 9	[- 3]	e 40.6	42.4

For Notes see next page.

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NOTES TO AUGUST 8d. 4h. 12m. 43s.

Additional readings:—

Sofia S = +5m.1s.
 Bucharest P_gN = +3m.17s., PPN = +3m.39s., PSSEN = +4m.33s., SSEN = +5m.33s. = S* + 5s.
 Belgrade eNW = +3m.21s., eNE = +5m.24s.
 Zagreb eZ = +3m.39s., e = +3m.46s., eNE = +3m.55s., e = +4m.22s. and +4m.40s., e = +5m.18s., eNE = +5m.50s., eNWZ = +6m.34s., eNW = +6m.51s., eNWZ = +7m.44s.
 Trieste iPP = +3m.42s., iSS? = +6m.30s.
 Tiflis L_g = +8m.47s.
 Stuttgart ePP = +4m.55s.
 Jena iP = +4m.36s.
 Tortosa PN = +4m.55s.
 Jersey S? = +10m.16s.
 Kew e = +10m.21s.
 Oxford SS = +11m.25s.
 Florissant eZ = +12m.53s., iEZ = +12m.55s., eN = +23m.4s., e = +23m.31s., eN = +36m.41s.
 Long waves were also recorded at Kodaikanal, Bombay, Durham, Rathfarnham Castle, and Cape Town Univ.

Aug. 8d. Readings also at 3h. (Apia), 4h. (Simferopol and Yalta), 6h. (Nagoya), 11h. (Chiufeng and Mizusawa), 12h. (Copenhagen and Stuttgart), 14h. (Bucharest), 16h. (Ksara, Tiflis, and near Erevan), 19h. (Mizusawa), 21h. (near Sumoto), 23h. (La Paz).

Aug. 9d. 16h. 7m. 9s. Epicentre 19°·5N. 120°·5E. (as on 1934 April 12d.). R.3.

A = -·4784, B = +·8122, C = +·3338; δ = -4;
 D = +·862, E = +·508; G = -·169, H = +·288, K = -·943.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	4·9	174	i 1 11k	+ 1	i 2 12	+ 7	—	—
Hong Kong	6·5	297	1 26	- 6	3 21	S _g	4·0	4·6
Nanking	12·6	353	e 3 45	+49	6 32	S _g	i 9·1	—
Phu-Lien	13·1	278	e 3 11	+ 8	—	—	7·8	—
Sumoto	19·6	39	e 4 23	- 2	e 8 1	+ 3	e 13·8	—
Kobe	20·0	39	e 4 25	- 5	—	—	—	—
Chiufeng	20·9	350	e 4 41	+ 2	8 35	+11	e 11·4	14·2
Nagoya	21·4	40	4 43	- 1	e 5 44	?	—	—
Vladivostok	25·5	20	e 5 16	- 9	e 10 29	+39	14·6	18·8
Mizusawa	E. 26·5	38	(5 34)	0	5 34	P	—	—
Medan	26·5	236	e 6 23	+49	—	—	15·8	—
Calcutta	N. 30·0	281	—	—	i 12 58	SSSS?	—	24·6
Tashkent	48·4	309	i 7 19	-80	i 14 15	-83	e 23·8	29·8
Grozny	65·8	310	e 10 47	+ 3	—	—	—	—
Tiflis	66·7	308	e 10 59	+ 9	e 19 47	+ 6	e 37·8	42·6
Moscow	70·0	324	—	—	e 20 20	- 1	—	—
Pulkovo	73·3	328	—	—	e 21 0	0	39·8	46·6
Ksara	75·0	301	e 11 49?	+ 9	—	—	—	—
Scoresby Sund	86·3	348	—	—	e 23 6	-14	40·8	—
Edinburgh	90·9	332	—	—	e 24 33	+29	e 48·8	—

Additional readings:—

Kobe eZ = +4m.33s.
 Hong Kong ? = +1m.55s. and +2m.53s.
 Chiufeng SSN = +9m.5s.
 Ksara ePP = +15m.38s., ePS = +21m.52s., eSS = +26m.13s.
 Scoresby Sund +28m.51s.
 Long waves were also recorded at Bombay, Baku, and other European stations.

Aug. 9d. Readings also at 0h. (near Berkeley), 2h. (near Apia), 3h. (La Paz and Montezuma), 4h. (Tacubaya), 8h. (Ksara), 9h. (Tiflis), 10h. (Reykjavik), 11h. (near Nagoya), 12h. (Tucson), 13h. (Granada), 15h. (near Nagoya), 16h. (Taikyu and near Santiago), 22h. (Chiufeng and Phu-Lien), 23h. (Madison).

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Aug. 10d. 6h. 31m. 57s. Epicentre 36°·5N. 31°·0E. (as on Aug. 3d.). X.

A = +·6890, B = +·4140, C = +·5948; $\delta = -10$;

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Istanbul	4·8	342	1 0	- 8	—	—	—	—
Ksara	4·8	122	e 1 9?	+ 1	e 2 15	+12	—	4·6
Sebastopol	8·3	12	e 1 57	- 1	—	—	e 4·5	—
Yalta	8·3	16	e 2 1	+ 3	—	—	e 4·3	—
Sofia	8·5	319	e 2 9	+ 9	e 4 9	S*	—	—
Simferopol	8·7	15	e 1 57	- 6	—	—	e 6·3	—
Tiflis	N. 11·9	60	e 3 5	+18	e 5 25	+25	e 7·0	—
Grozny	13·2	54	e 3 3	- 2	—	—	—	—
Triest	15·8	311	e 3 29	-10	—	—	e 7·8	9·5
Cheb	19·1	321	—	—	e 8 3?	SS	—	12·0
Moscow	19·7	11	e 4 5	-21	—	—	—	13·2
Stuttgart	20·0	314	e 4 15	-15	e 7 51	-15	e 10·0	—
Strasbourg	20·8	313	e 4 38	0	e 8 16	- 6	e 12·0	—
Copenhagen	23·0	332	—	—	8 49	-16	14·0	—
Pulkovo	23·3	359	e 4 53	-11	e 9 12	+ 2	14·0	15·8
Uccle	23·8	315	—	—	e 9 10	- 9	—	—
De Bilt	24·0	319	—	—	e 9 3?	-20	e 12·0	15·6
Paris	24·1	310	e 6 10	+59	—	—	12·0	—
Kew	26·7	314	—	—	e 10 9	- 1	—	—

Long waves were also recorded at Belgrade, Baku, Tashkent, Granada, and Edinburgh.

Aug. 10d. Readings also at 1h. (Taikyū), 4h. (Andijan, Frunse, and Samarkand), 5h. (Tiflis), 8h. (Tucson), 12h. (Ferndale, near Hastings, near Kobe, and Sumoto), 13h. (Prague and near Hukuoka B), 14h. (near Sumoto and near Tananarive), 16h. (Strasbourg and near Lick), 19h. (Grozny), 22h. (Triest).

Aug. 11d. Readings at 2h. (near Wellington), 4h. (near Santiago), 6h. (near Sumoto), 7h. (Tucson), 10h. (Honolulu, Mount Wilson, Riverside, and Tinemaha), 11h. (Ravensburg, near Basle, Chur, Neuchatel, Zurich, and near Apia), 13h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 16h. (Grozny), 17h. (near Triest), 18h. (Tiflis), 20h. (near Oak Ridge and near Apia), 21h. (La Paz), 23h. (near Wellington).

Aug. 12d. 22h. 24m. 20s. Epicentre 37°·0N. 28°·7E. (as on 1933 Aug. 17d.). R.3.

A = +·7005, B = +·3835, C = +·6018; $\delta = -6$;
D = +·480, E = -·877; G = +·528, H = +·289, K = -·799.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Istanbul	4·1	4	0 20	-38	1 10	-35	—	—
Ksara	6·7	116	e 1 39	+ 4	i 3 23	S*	—	—
Sofia	7·0	326	e 1 46	+ 7	3 52	S _g	—	—
Bucharest	7·7	346	e 2 15	P*	e 3 16	0	3·7	5·3
Sebastopol	8·4	24	e 2 4	+ 5	—	—	e 7·0	—
Yalta	8·5	27	e 1 53	- 7	e 3 6	-30	—	—
Simferopol	8·9	25	e 1 4	?	e 3 41	- 5	e 5·5	—
Sotchi	10·6	48	—	—	e 4 40	+12	—	—
Erevan	12·7	70	e 3 43	+45	—	—	e 7·2	—
Zagreb	12·9	317	e 3 10	+ 9	e 7 15	S _g ?	e 8·2	—
Tiflis	13·3	64	e 3 4	- 2	e 5 40	+ 6	e 7·1	9·0
Triest	14·1	313	e 3 8	- 9	—	—	i 7·7	—
Grozny	14·4	59	e 2 35	-46	—	—	—	—
Baku	16·8	72	e 3 46	- 6	e 7 15	+18	9·7	—
Stuttgart	18·4	316	e 4 15	+ 4	e 7 45	+12	e 10·5	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Strasbourg	19.1	314	e 4 27	+ 7	e 8 5	SS	e 10.7	—
Moscow	19.6	15	e 4 19	- 6	e 7 59	+ 1	11.2	14.9
Hamburg	21.0	328	—	—	e 8 40?	+14	—	14.7
Copenhagen	21.6	335	4 44	- 2	8 46	+ 8	11.7	—
Uccle	22.1	316	—	—	e 9 5	+17	e 11.7	—
De Bilt	22.4	320	—	—	e 9 9	+16	e 11.7	14.9
Pulkovo	22.7	4	e 4 52	- 6	e 9 2	+ 3	11.7	14.3
Kew	25.0	315	—	—	e 9 59	+18	—	—
Granada	25.6	281	e 5 27	+ 2	—	—	—	—
Tashkent	31.5	69	e 9 32	?	e 11 40	+12	e 18.7	23.0

Additional readings :—

Ksara $i = +5m.17s.$

Bucharest $eN = +2m.32s., +2m.58s.,$ and $+3m.23s., iN = +3m.45s.$

Tiflis $eE = +6m.50s.$

Triest $i = +9m.2s.$

Copenhagen $+8m.10s.$

Tashkent $e = +13m.18s.$ and $+15m.56s.$

Long waves were also recorded at Paris, Cheb, Prague, and Edinburgh.

Aug. 12d. Readings also at 2h. (Calcutta, Frunse, Samarkand, Tashkent, Grozny, Tiflis, Ksara, and near Sumoto), 3h. (Medan (2) and Pulkovo), 6h. (Christchurch), 11h. (Adelaide, Melbourne, Christchurch, Wellington, Tashkent, and near Santiago), 12h. (Oak Ridge), 14h. (Sumoto), 15h. (Oak Ridge), 19h. (Oak Ridge), 21h. (Mount Wilson, Pasadena, Tinemaha, and near Apia), 22h. (near Santiago (2)), 23h. (Mount Wilson, Pasadena, Riverside, Tinemaha, near Batavia, and Malabar).

Aug. 13d. 1h. 51m. 38s. Epicentre $36^{\circ}1N. 140^{\circ}3E.$ R.3.
(as given by Japanese Stations and as on 1936 Feb. 10d.).

$$A = -.6217, B = +.5161, C = +.5892; \quad \delta = +3;$$

$$D = +.639, E = +.769; \quad G = -.453, H = +.376, K = -.808.$$

	Δ	Az.	P.	O-C.	S.m	O-C.
	°	°	m. s.	s.	m. s.	s.
Tukubasan	0.2	306	0 6	+ 3	0 13	+ 8
Tokyo Imp. Univ.	0.6	226	0 11	+ 2	0 21	+ 6
Komaba	0.7	228	0 12	+ 2	0 22	+ 4
Mitaka	0.8	234	0 13	+ 2	0 22	+ 1
Kiyusumi	1.0	179	0 16	+ 2	0 29	+ 3
Kamakura	1.0	218	0 15	+ 1	0 28	S*
Susaki	1.8	217	0 25	- 1	0 45	- 1
Nagoya	2.9	251	0 38	- 3	1 32	S _g
Mizusawa	3.1	12	e 0 42	- 2	e 1 21	+ 1
Sumoto	N. 4.8	250	—	—	e 2 10	+ 7

Sumoto gives also $eE = +2m.14s., eN = +2m.33s.$

Aug. 13d. 20h. 2m. 44s. Epicentre $8^{\circ}7N. 126^{\circ}2E.$ N.1.

$$A = -.5838, B = +.7977, C = +.1513; \quad \delta = +4;$$

$$D = +.807, E = +.591; \quad G = -.089, H = +.122, K = -.988.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	7.8	320	i 1 55 _a	+ 4	i 3 39	+20	—	—
Palau	8.3	99	1 44	-14	3 10	-21	—	—
Kosyun	14.3	339	3 28	+ 9	—	—	—	—
Taito	14.9	341	3 27	0	6 26	+13	—	—
Tainan	15.4	339	3 41	+ 7	6 36	+12	—	—
Arisan	15.7	342	3 40	+ 2	6 36	+ 5	—	—
Karenko	15.9	343	3 41	+ 1	—	—	—	—
Taiyu	16.3	342	3 50	+ 5	6 50	+ 5	—	—
Giran	16.6	346	3 57	+ 8	7 7	+15	—	—
Taihoku	16.9	345	3 55	+ 2	7 10	+11	—	—

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.
Naha	17.5	4	3 55	- 5	7 21	+ 8	—	—
Hong Kong	18.0	321	4 5	- 2	7 29	+ 4	8.8	12.6
Nake	19.9	9	4 30	+ 1	8 12	+ 8	—	—
Phu-Lien	22.4	305	4 57	+ 2	9 4	+11	10.8	15.9
Zi-ka-wei	z. 22.9	350	4 46	-14	8 57	- 6	—	16.6
Kagosima	23.2	9	5 20	+17	—	—	—	—
Miyazaki	23.7	10	5 6 ^a	- 1	9 17	- 1	—	—
Titizima	23.8	38	5 14	+ 6	—	—	—	—
Tomie	24.0	5	5 10	0	—	—	—	—
Nagasaki	24.3	7	5 22	+ 9	9 55	+27	—	—
Nanking	24.3	344	i 5 13	0	i 9 32	+ 4	12.6	18.0
Unzendake	24.3	7	5 22	+ 9	—	—	—	—
Batavia	z. 24.4	234	5 20	+ 6	—	—	e 14.3	—
Malabar	24.4	232	5 49	PPPP	—	—	—	—
Kumamoto	24.5	8	5 15	0	—	—	—	—
Simidu	24.9	12	5 16	- 3	9 37	- 2	—	—
Ooita	25.0	10	5 23	+ 3	—	—	—	—
Hukuoka	25.2	7	5 19	- 3	e 9 1	-43	—	—
Hukuoka B	25.2	7	e 5 26	+ 4	e 9 49	+ 5	—	—
Koti	25.8	13	5 25	- 2	9 55	0	—	—
Matuyama	25.8	12	5 27	0	9 46	- 9	—	—
Siomisaki	26.3	18	5 26	- 6	—	—	—	—
Husan	26.5	4	e 6 13	PPP	10 3	- 4	—	—
Hamada	26.7	10	5 34	- 1	10 11	+ 1	—	—
Wakayama	26.8	17	5 33	- 3	10 4	- 8	—	—
Sumoto	26.9	17	4 38	-59	9 4	-70	11.3	—
Kobe	27.2	17	e 5 35	- 5	e 10 10	- 8	e 11.2	14.9
Talkyu	27.2	4	5 41	+ 1	10 29	+11	13.9	—
Osaka	27.3	17	5 40	- 1	10 10	-10	—	—
Hatidyozima	27.5	24	5 33	-10	—	—	—	—
Tu	27.7	18	5 50	+ 6	10 27	0	—	—
Kameyama	27.8	18	5 45	0	10 18	-10	—	—
Medan	27.8	262	5 38	- 7	e 10 4	-24	e 18.3	—
Toyooka	28.0	15	5 50	+ 3	10 36	+ 4	—	18.6
Hamamatu	28.1	22	6 4	+16	—	—	—	—
Omaesaki	28.1	22	6 4	+16	—	—	—	—
Nagoya	28.2	19	e 5 51	+ 2	—	—	11.5	—
Ibukisan	28.3	19	5 56	+ 6	—	—	—	—
Gihu	28.4	19	5 43	- 8	10 13	-25	—	—
Zinsen	N. 28.8	0	e 5 54	0	e 10 44	- 1	—	—
Misima	28.9	22	6 4	+ 9	—	—	—	—
Mera	29.0	23	6 30	+34	—	—	—	—
Hunatu	29.2	21	5 50	- 8	—	—	—	—
Kohu	29.2	21	5 47	-11	10 47	- 4	—	—
Tokyo	29.7	22	6 40	+38	—	—	—	—
Husiki	29.8	18	6 2	- 1	—	—	—	—
Oiwake	29.8	20	6 4	+ 1	—	—	—	—
Nagano	30.0	19	6 9	+ 4	—	—	—	—
Maebasi	30.1	21	6 12	+ 6	—	—	—	—
Wazima	30.3	16	6 12	+ 4	—	—	—	—
Sendai	32.4	22	6 17	- 9	11 24	-17	—	—
Chiufeng	32.6	346	i 6 27 ^a	- 1	11 34	-11	15.6	23.3
Mizusawa	E. 33.2	21	e 6 36	+ 2	e 11 39	-15	—	—
	N. 33.2	21	e 6 30	- 4	e 11 43	-11	—	—
Vladivostok	34.8	7	i 6 45	- 2	i 12 11	- 7	e 17.8	26.9
Sapporo	36.8	18	7 13	+ 8	12 37	-11	—	—
Calcutta	N. 38.8	296	7 28	+ 6	13 35	+17	—	29.0
Perth	41.8	194	7 16	-31	(i 14 6)	+ 3	—	—
Adelaide	45.2	167	8 17	+ 3	i 14 41	-13	e 19.6	36.0
Colombo	45.9	271	8 21	+ 1	15 48	+45	28.0	29.1

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.
Hyderabad	47.2	286	8 4	-26	15 30	+ 9	23.0	31.5
Kodaikanal	48.0	277	i 8 39	+ 3	15 33	0	24.2	32.8
Riverview	48.7	152	7 40	-61	e 15 37	- 6	e 24.4	27.7
Sydney	48.7	152	—	—	i 15 52	+ 9	16.5	27.8
Melbourne	49.7	161	e 8 54	+ 5	i 15 58	+ 1	23.1	26.8
Dehra Dun	49.8	303	9 6	+16	20 16	SSS?	32.4	35.3
Bombay	52.6	288	i 9 13	+ 2	16 54	+17	24.3	36.5
Frunse	56.4	317	e 9 37	- 2	—	—	29.8	—
Tashkent	59.6	313	i 10 2	0	i 18 14	+ 3	29.3	37.4
Samarkand	60.9	311	e 10 6	- 5	—	—	35.8	—
Christchurch	67.0	146	e 10 53	+ 1	19 39	- 6	32.1	35.5
Honolulu	73.8	70	e 11 37	+ 4	i 21 4	- 2	e 33.3	—
Baku	74.0	310	11 35	0	21 21	+13	36.3	47.6
Grozny	77.1	313	11 54	+ 1	21 43	- 1	40.7	—
Tiflis	77.8	311	i 11 56	- 1	21 50	- 2	37.3	50.7
Erevan	78.1	310	e 12 1	+ 3	e 22 38	+43	—	—
Piatigorsk	79.0	314	—	—	e 21 22	-43	43.6	—
College	80.4	26	e 12 10	0	22 13	- 7	—	—
Sotchi	81.5	313	e 12 16	0	e 21 35	-57	46.0	—
Moscow	82.0	326	i 12 17	- 1	22 27	-10	37.8	49.0
Tananarive	82.3	250	17 51	?	22 8	-32	40.3	53.3
Simferopol	85.3	315	e 12 33	- 2	e 23 8	- 3	46.1	—
Ksara	85.4	303	i 12 36 ^a	+ 1	23 17	+ 5	—	—
Pulkovo	85.4	331	i 12 34	- 1	i 23 3	[+ 1]	42.3	54.1
Yalta	85.4	315	e 12 33	- 2	e 22 57	[- 5]	48.8	—
Sebastopol	85.8	315	e 12 47	+10	e 23 12	- 4	—	—
Sitka	87.3	33	e 12 34	-11	23 6	[- 9]	e 35.6	—
Helwan	89.9	300	i 12 57	0	23 51	- 4	—	61.3
Czernowitz	90.3	319	e 14 16?	+77	—	—	47.3	—
Bucharest	91.0	316	e 13 16	+14	24 14	+ 9	46.3	50.3
Upsala	91.6	332	e 13 5	0	23 57	-14	e 42.3	51.4
Sofia	93.4	314	e 13 46	+33	e 23 46	[- 6]	—	61.3
Copenhagen	95.7	329	13 22	- 2	24 43	- 5	45.3	—
Vienna	96.4	321	e 13 26	- 1	—	—	e 51.3	64.3
Bergen	96.8	335	—	—	e 30 16?	?	51.3	—
Prague	96.9	324	e 13 28?	- 1	e 24 53	- 6	e 40.3	52.3
Graz	97.3	320	e 18 1	PP	e 26 15	?	e 45.8	64.6
Hamburg	97.3	328	e 13 16?	-15	24 10	[- 3]	e 50.3	62.3
Scoresby Sund	97.4	350	13 40	+ 8	24 58	- 6	45.3	—
Zagreb	97.5	318	e 13 52	+20	24 59	- 5	e 48.3	52.3
Seattle	97.6	40	—	—	e 23 16?	[-58]	—	—
Cheb	98.1	323	e 13 34	- 1	e 24 14	[- 2]	e 50.3	60.8
Triest	99.0	319	e 13 36	- 3	i 24 12	[- 9]	e 48.2	56.1
Ukiah	100.0	48	e 13 46	+ 2	—	—	e 46.3	—
Stuttgart	100.5	324	e 13 44 ^a	- 2	e 25 21	-10	e 50.3	65.7
Chur	101.1	322	e 14 46	+57	—	—	—	—
Berkeley	101.2	49	—	—	e 24 16	[-16]	—	—
De Bilt	101.2	328	e 13 48	- 1	e 24 25	[- 7]	e 53.3	67.6
Strasbourg	101.4	323	i 13 51	+ 1	i 25 33	- 6	47.3	55.3
Zurich	101.5	323	e 15 16	?	—	—	—	—
Uccle	102.3	327	e 13 53	- 1	i 24 35	[- 2]	e 50.3	57.2
Durham	103.0	332	—	—	24 35	[- 5]	—	62.3
Edinburgh	103.1	334	13 56	- 2	i 24 35	[- 6]	48.3	66.5
Stonyhurst	104.0	332	e 18 16	[+19]	—	—	50.3	57.8
Paris	104.3	326	i 14 2	- 1	e 24 40	[- 6]	56.3	68.3
Kew	104.4	329	e 14 0	- 4	e 25 49	-16	55.3	68.2
Tinemaha	104.4	49	e 14 6	+ 2	—	—	—	—
Bidston	104.6	332	e 14 10	+ 5	e 25 55	-12	50.3	67.8
Oxford	104.7	329	18 28	[+28]	—	—	e 48.3	—
Pasadena	105.6	51	e 18 16	[+13]	—	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Mount Wilson z.	105.7	51	e 14 16	+ 6	—	—	—	—
Rathfarnham Castle	106.1	333	e 14 52	+40	e 28 21	?	e 56.3	70.3
Jersey	106.6	328	—	—	e 25 34	{- 8}	e 62.3	—
Barcelona	108.4	319	e 28 12	PS	—	—	e 58.3	68.7
Cape Town	109.5	238	—	—	e 25 10	[- 1]	60.2	62.2
Tortosa	109.7	319	e 20 16?	?	—	—	e 49.3	60.1
Ivigtut	110.0	357	18 56	PP	—	—	51.3	—
Tucson	112.0	50	e 18 33	[+ 9]	e 34 46	SS	e 51.3	—
Toledo	112.5	320	28 34	PS	—	—	e 53.2	63.8
Granada	114.4	318	19 32	+ 1	—	—	58.5	—
San Fernando	116.5	318	—	—	e 27 44	{+ 52}	61.8	76.8
Madison	118.9	29	—	—	e 29 16?	?	—	—
Chicago	120.8	30	e 20 17	PP	e 27 16	{- 6}	i 52.8	—
Florissant	121.6	33	e 20 20	PP	e 25 51	[- 4]	e 51.1	62.4
St. Louis E.	121.8	33	e 20 38	PP	e 25 52	[- 4]	—	—
Ottawa	122.5	18	e 20 26	PP	e 25 52	[- 6]	53.3	—
Toronto N.	122.7	22	e 15 29	- 3	e 28 16?	{+ 41}	55.3	—
Oak Ridge	126.3	16	e 19 1	[+ 1]	—	—	e 57.3	—
Philadelphia	127.5	20	e 20 54	PP	e 30 53	SKSP	e 54.8	—
Columbia	130.1	30	e 22 28	PKS	—	—	51.3	—
San Juan	150.3	24	e 19 58	[+ 16]	e 33 59	SKSP	e 76.8	—
Huancayo	158.6	101	e 19 57	[+ 5]	—	—	e 76.9	—
Rio de Janeiro N.	162.8	214	e 23 46	PKS?	—	—	—	—
La Paz	164.0	121	e 20 11	[+ 13]	i 31 31	{- 9}	78.3	—

Additional readings:—

Hong Kong PP = +4m.20s., SS = +7m.45s., P_cP = +8m.10s.
 Zi-ka-wei iN = +9m.8s.
 Nanking iSN = +9m.37s.
 Unzendake i = +6m.27s.
 Medan iEN = +11m.40s. = SS + 3s.
 Toyooka ePE = +6m.6s.
 Chiufeng iSZ = +11m.37s.
 Calcutta PPPN = +9m.13s., SSSN = +16m.38s.
 Perth gives S as iP.
 Adelaide e = +10m.11s.? i = +15m.58s., and +17m.58s. = SS + 4s.
 Colombo PP = +15m.6s.
 Kodaikanal iPPE = +10m.32s., iSSE = +19m.30s., iSSSE = +20m.56s.
 Riverview eZ = +8m.44s., iN = +10m.38s. = PP + 11s., eE = +15m.42s., iN = +15m.44s., iN = +19m.11s.
 Melbourne i = +10m.47s., i = +18m.37s. = S_cS - 6s., iSS? = +19m.6s. = SS - 11s.
 Bombay PPEN = +11m.6s.
 Christchurch SSN = +24m.3s., eN = +26m.55s.
 Tifis eZ = +15m.3s.
 College eSS = +26m.46s.
 Moscow PP = +15m.44s., PPP = +18m.54s., SS = +27m.58s.
 Tananarive PSE = +22m.48s., SSE = +28m.15s., N = +34m.14s., E = +38m.31s.
 Ksara ePP = +16m.0s., SS = +29m.14s.
 Pulkovo SKS = +22m.55s.
 Sitka e = +22m.25s., eSKS = +22m.52s., e = +22m.59s., i = +23m.23s., ePS = +24m.17s., e = +25m.11s.
 Bucharest PPE = +16m.54s., SKSEN = +23m.34s. = SKS - 5s., PSE = +25m.22s., PPSE = +25m.52s.
 Upsala SKSE = +23m.32s.
 Copenhagen PP = +17m.18s., PE = +21m.0s., +21m.56s., SKS = +23m.55s.
 PS = +25m.52s., PPS = +26m.34s.
 Scoresby Sund +17m.28s. = PP + 5s.
 Zagreb e = +18m.1s. and +21m.50s., eE = +23m.55s.
 Trieste PP = +17m.41s., SKKS = +25m.9s., S? = +25m.25s., e = +26m.33s. = PS - 2s., SS = +32m.25s.
 Ukiah ePS = +26m.34s.
 Stuttgart e = +16m.52s., ePP = +17m.53s., ePS = +27m.34s.
 De Bilt ePPZ = +17m.59s.
 Strasbourg ePKP = +16m.57s., ePP = +18m.3s., iPPS = +28m.4s., eSSSS = +42m.17s.
 Uccle PP = +18m.10s., SKKS = +25m.35s.
 Edinburgh e = +18m.12s. = PP + 6s., i = +25m.52s.
 Paris PP = +18m.22s.
 Kew ePPEN = +18m.12s., ePPZ = +18m.23s., eSKSEN = +24m.14s., ePSEN = +27m.40s., ePPSEZ = +28m.24s., eSSEZ = +33m.12s.

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Tinemaha eZ = +18m.5s. = PP - 11s.
 Bidston ePP = +18m.18s., eSKS = +24m.13s., ePS = +27m.40s.
 Mount Wilson iZ = +18m.20s. = PP - 5s.
 Rathfarnham Castle i = +19m.42s., e = +20m.26s. = PPP - 11s.
 Cape Town e = +28m.40s. and +34m.40s.
 Tucson e = +19m.27s., ePS = +28m.41s.
 San Fernando eS = +29m.54s., eSS = +37m.51s.
 Chicago ePS = +30m.9s., eSS = +37m.27s.
 Florissant eE = +20m.37s., iSKKSN = +27m.21s., iPSN = +30m.10s., ePSEZ = +30m.11s., iPPSN = +31m.33s., eSSEN = +36m.35s.
 St. Louis iE = +27m.18s.
 Ottawa eE = +28m.22s., eE = +37m.10s. = SS + 5s.
 Toronto eN = +20m.17s.
 Oak Ridge ePPN = +20m.51s., ePPE = +20m.54s., eSSE = +37m.55s.
 Philadelphia eSS = +37m.52s., eSSS = +42m.26s.
 Columbia e = +51m.16s.
 San Juan ePKP = +20m.18s., ePP = +23m.39s., ePPP = +26m.36s., ePPS = +36m.38s.
 Huancayo e = +20m.5s., e = +23m.33s., eSS = +43m.37s.
 La Paz SKSE = +26m.58s., SKKS = +30m.31s., SSE = +42m.44s.
 Long waves were also recorded at Karlsruhe, Jena, Wellington, Basle, and Almeria.

Aug. 13d. Readings also at 0h. (Batavia), 1h. (near Santiago), 2h. (Ivigtut), 3h. (Kodaikanal), 5h. (Tucson), 6h. (Ksara and Tifis (2)), 8h. (near Santiago), 10h. (Tchinkent, Tashkent, Samarkand, and near Frunse), 11h. (Baku, Grozny, Tifis, Pulkovo, and Copenhagen), 12h. (near Kobe, Sumoto (2), and Nagoya), 13h. (Montezuma and near La Paz), 14h. (Huancayo, Mount Wilson, Pasadena, Riverside, Tinemaha, Grozny, and near Sumoto), 15h. (Granada, Toledo, and Tifis), 16h. (Copenhagen, Edinburgh, Kew, Paris, De Bilt, Strasbourg, Stuttgart, Chur, Neuchatel, Zurich, Triest, Istanbul, Pulkovo, Grozny, Ksara, Tifis, and Granada), 17h. (Tashkent), 19h. (Belgrade), 20h. (near Christchurch), 23h. (Batavia).

Aug. 14d. 22h. 34m. 57s. Epicentre 8°·7N. 126°·2E. (as on 13d.). R.2.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	7.8	320	2 5	+14	4 23	S _g ?	5.2	—
Palau	8.3	99	3 12	+74	—	—	—	—
Taito	14.9	341	4 43	+76	—	—	—	—
Hong Kong	18.0	321	4 3	-4	7 51	+26	9.2	11.7
Phu-Lien	22.4	305	e 5 3?	+8	e 9 13	+20	—	—
Miyazaki	23.7	10	5 6	-1	9 16	-2	—	—
Nanking	24.3	344	i 5 9	-4	i 9 33	+5	e 11.9	16.3
Batavia	24.4	234	i 5 22	+8	9 55	+25	—	—
Hukuoka B	25.2	7	e 5 24	+2	e 9 32	-12	—	—
Wakayama	26.8	17	5 33	-3	10 12	0	—	—
Sumoto	26.9	17	e 5 33	-4	e 10 16	+2	e 15.3	—
Taikyu	27.2	4	e 4 43	-57	—	—	—	—
Kameyama	27.8	18	5 27	-18	—	—	—	—
Medan	27.8	262	5 55	+10	—	—	e 19.0	—
Chiufeng	32.6	346	6 27 _a	-1	11 33	-12	—	20.1
Calcutta	N. 38.8	296	e 8 28	+66	—	—	—	—
Kodaikanal	E. 48.0	277	e 8 3?	-33	—	—	—	—
Agra	E. 49.1	299	e 8 43	-1	—	—	—	—
Bombay	52.6	288	e 9 18	+7	e 16 53	+16	—	36.5
Tashkent	59.6	313	i 10 0	-2	18 10	-1	e 30.0	36.6
Baku	74.0	310	11 35	0	21 10	+2	36.8	41.8
Grozny	77.1	313	11 59	+6	21 51	+7	47.0	—
Tifis	77.8	311	e 11 57	0	e 21 49	-3	39.6	47.4
Erevan	78.1	310	e 12 33	+35	—	—	—	—
Sotchi	81.5	313	e 12 21	+5	—	—	—	—
Moscow	82.0	326	i 12 18	0	e 22 27	-10	e 43.6	49.2
Simferopol	85.3	315	e 11 45	-50	—	—	—	—
Ksara	85.4	303	i 12 36	+1	—	—	—	—
Pulkovo	85.4	331	12 35	0	23 2	-10	46.0	52.4
Sitka	87.3	33	—	—	e 22 33	[-42]	—	—

Continued on next page.

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Bucharest	91.0	316	—	—	23 3?	[-36]	—	—
Copenhagen	95.7	329	13 27	+ 3	24 51	+ 3	49.0	—
Zagreb	97.5	318	e 13 23	- 9	—	—	—	—
Triest	99.0	319	e 13 0	-39	i 24 21	[0]	e 48.0	54.0
Stuttgart	100.5	324	e 13 44	- 2	e 25 23	- 8	e 53.0	65.0
De Bilt	101.2	328	13 53	+ 4	e 24 29	[- 3]	e 53.0	67.7
Strasbourg	101.4	323	e 14 53	+63	e 24 3?	[-30]	e 63.0	—
Uccle	102.3	327	—	—	e 25 3?	-44	e 53.0	—
Edinburgh	103.1	334	—	—	e 24 39	[- 2]	e 58.0	—
Paris	104.3	326	e 14 3?	0	—	—	57.0	—
Kew	104.4	329	—	—	e 32 3?	?	e 50.0	67.1
Tucson	112.0	50	e 19 13	PP	e 29 25	?	e 47.6	—
Granada	114.4	318	e 19 3?	PP	—	—	65.0	—

Additional readings:—

Hong Kong PP = +4m.12s., SS = +8m.17s.

Batavia PEN = +5m.25s.

Sumoto ePZ = +5m.39s.

Chiufeng SE = +11m.41s.

Ksara ePP = +15m.53s., ePS = +23m.56s.

Copenhagen +23m.57s., PS = +25m.57s.

De Bilt PPZ = +18m.5s.

Strasbourg ePS? = +25m.33s.?

Tucson e = +28m.41s.

Long waves were also recorded at Hyderabad, Philadelphia, Scoresby Sund, and other European stations.

Aug. 14d. Readings also at 1h. (Sumoto), 3h. (Basle, Chur, Neuchatel, and Zurich), 4h. (Adelaide, Riverview, Batavia, Chiufeng, Tashkent, and De Bilt), 5h. (Samarkand and Stuttgart), 6h. (Christchurch and Wellington), 8h. (Nagoya), 10h. (College, Sitka, Mount Wilson, Pasadena, Riverside, Tinemaha, and Vladivostok), 12h. (Baku, Tashkent, Pulkovo, De Bilt, Copenhagen, Paris, Uccle, Strasbourg, Stuttgart, Granada, Mount Wilson, Pasadena, Tinemaha, Hong Kong, Chiufeng, Nanking, and near Taihoku), 14h. (Tiflis and near Santiago), 17h. (Erevan, Tiflis, Piatigorsk, and near Grozny), 18h. (Vladivostok), 20h. (Branner, Chiufeng, Nanking, Hong Kong, Copenhagen, De Bilt, and Strasbourg), 21h. (Copenhagen, Bucharest, Strasbourg, Stuttgart, Sophia, and Triest).

Aug. 15d. Readings at 2h. (Chiufeng, Baku, Tashkent, Tiflis, Ksara, Moscow, Pulkovo, Copenhagen, De Bilt, Bucharest, Triest, Paris, Stuttgart, Granada, Huancayo, Philadelphia, Tucson, Ukiah, Pasadena, Tinemaha, Honolulu, Riverview, Christchurch, Wellington, and near Apia), 3h. (Vladivostok, Moscow, Strasbourg, Uccle, San Fernando, Scoresby Sund, Oak Ridge, La Paz, Rio de Janeiro, and near Apia), 4h. (near Nagoya), 5h. (Chiufeng, Ksara, Copenhagen, De Bilt, Stuttgart, Paris, Granada, Honolulu, Tucson, Ukiah, Riverview, Christchurch, Wellington, and near Apia), 6h. (Huancayo, Philadelphia, Scoresby Sund, Oak Ridge, Strasbourg, Almeria, near Granada, and near Apia), 8h. (Sumoto), 13h. (Medan), 14h. (Nagoya), 15h. (Triest, Tiflis, Ksara, Sofia, Mount Wilson, and near Sotchi), 16h. (Chiufeng, Nanking, Fresno, and near Phu-Lien), 21h. (near Malabar), 22h. (Triest and Zagreb).

Aug. 16d. 21h. 37m. 8s. Epicentre 26°·6N. 55°·6E. N.3.

A = +·5051, B = +·7378, C = +·4478; $\delta = 0$;

D = +·825, E = -·565, G = +·253, H = +·369, K = -·894.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Baku	14.6	342	e 3 23	0	6 4	- 1	8.9	—
Erevan	16.4	329	e 3 58	+12	—	—	—	—
Tiflis	17.5	332	i 3 59	- 1	e 7 12	- 1	9.8	11.0
Bombay	17.6	112	—	—	e 7 45	+30	—	—
Ksara	18.5	297	e 4 5	- 8	7 45	+ 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.
Grozny	18.5	338	4 15	+ 2	e 7 41	+ 5	—	—
Tashkent	18.5	34	i 4 12	- 1	i 7 43	+ 7	e 8.4	14.0
Tchimkent	19.4	33	e 4 24	+ 1	—	—	—	—
Agra	E. 20.0	83	e 4 28	- 2	e 8 31	SSS	—	—
Piatigorsk	20.2	334	e 3 38	-54	e 7 30	-40	—	—
Sotchi	21.3	328	e 4 41	- 2	e 8 38	+ 6	—	—
Helwan	21.6	285	4 37	- 9	8 52	+14	—	15.6
Frunse	22.4	38	e 4 31	-24	—	—	—	—
Yalta	24.8	322	5 19	+ 1	e 9 32	- 5	—	—
Simferopol	25.2	323	e 5 22	0	e 9 42	- 2	—	—
Sebastopol	25.3	322	e 5 30	+ 7	e 9 53	+ 7	—	—
Moscow	31.9	341	e 6 24	+ 2	e 11 3	-31	16.4	19.2
Pulkovo	37.4	340	e 7 8	- 2	e 12 50	- 7	22.9	—
Triest	38.2	312	e 7 16	- 1	e 13 8	- 1	—	e 23.2
Chur	41.3	312	e 7 39	- 4	—	—	—	—
Zurich	42.1	313	e 7 49k	0	e 13 57	-11	—	—
Copenhagen	42.5	326	—	—	14 9	- 4	28.9	—
Hamburg	43.0	322	e 7 52?	- 5	—	—	—	—
De Bilt	45.3	319	8 15	0	14 55	0	e 24.9	—
Uccle	45.5	316	—	—	e 14 55	- 2	e 24.9	—
Granada	50.6	298	e 10 52?	PP	—	—	—	—
Scoresby Sund	60.9	338	—	—	18 40	+12	34.9	—

Additional readings:—

Ksara iPP = +4m.25s.

Grozny i = +7m.57s.

Moscow SS = +13m.10s.

Pulkovo PP = +8m.29s., SSS = +16m.10s.

Long waves were also recorded at Strasbourg, Stuttgart, and Paris.

Aug. 16d. Readings also at 0h. (near Tananarive (2)), 1h. (Tifis), 2h. (La Paz, San Juan, near Branner, and Lick), 3h. (near Santiago), 4h. (Wellington, Christchurch, Madison, near La Paz, near Samarkand, and near Sumoto), 5h. (Apia and Florissant), 7h. (Oak Ridge), 8h. (Huancayo, Tifis, Chiufeng, Nanking, Phu-Lien, Calcutta, Medan, Tashkent, Pulkovo, Copenhagen, De Bilt, and near Samarkand), 10h. (Frunse, Grozny, and near Samarkand), 13h. (Adelaide, Melbourne, Riverview, Arapuni, Christchurch, Monowai, Wellington, Tashkent, Ksara, Moscow, De Bilt, Strasbourg, and Granada), 14h. (Pasadena, Tucson, Scoresby Sund, Graz, Prague, Uccle, Edinburgh, Paris, Stuttgart, Toledo, San Fernando, Copenhagen, Tifis, Pulkovo, and Huancayo), 15h. (Oak Ridge), 16h. (Agra, Bombay, Calcutta, Baku, Grozny, Tifis, Pulkovo, Tashkent, and near La Paz), 17h. (Ksara, Copenhagen, and Paris), 18h. (Honolulu and Tacubaya), 19h. (La Paz), 20h. (Ferndale).

Aug. 17d. 6h. 14m. 28s. Epicentre 21°1S. 174°4W. (as on 1936 March 6d.). X.

A = -.9285, B = -.0910, C = -.3600; $\delta = -1$;

D = -.098, E = +.995; G = +.358, H = +.035, K = -.933.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	7.7	19	e 1 50	+ 1	i 3 8	- 8	3.5	—
Christchurch	24.9	203	e 5 22	+ 3	e 9 47	+ 8	12.1	14.2
Adelaide	43.3	241	e 13 30	?	e 14 34	+ 9	e 20.7	23.2
Pasadena	76.9	44	i 11 50	- 1	—	—	—	—
Riverside	z. 77.3	44	i 11 51	- 3	—	—	—	—
Tinemaha	78.6	41	i 11 59	- 1	—	—	—	—
Tucson	80.8	49	i 12 12	0	e 22 24	0	e 37.0	—
Vladivostok	80.9	323	e 12 14	+ 1	e 22 28	+ 3	—	—
Huancayo	93.9	105	—	—	e 23 56	[+ 1]	e 43.5	—
Tashkent	123.2	307	e 15 32	- 3	—	—	e 67.8	73.3
Samarkand	125.0	305	e 12 20	?	—	—	—	—
Pulkovo	137.5	341	i 22 53	PKS	—	—	e 70.5	80.9
Moscow	138.1	334	e 22 2	PP	—	—	—	—
Tifis	141.2	311	e 19 21	[-.2]	—	—	e 73.2	—
Copenhagen	145.0	351	19 35	[+ 1]	—	—	81.5	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simferopol	146.5	322	e 18 42	[-54]	—	—	—	—
Yalta	146.8	322	e 19 45	[+ 8]	—	—	—	—
Sebastopol	147.1	322	e 19 38	[+ 1]	—	—	—	—
De Bilt	149.0	1	e 19 44	[+ 4]	—	—	e 83.5	—
Ksara	150.4	300	e 19 52	[+10]	e 29 29	{-56}	73.4	82.5
Stuttgart	152.2	355	e 19 44	[0]	e 23 44	PP	e 84.5	—
Zurich	153.6	356	e 19 56	[+ 9]	—	—	e 76.9	—
Chur	154.0	355	e 19 54	[+ 7]	—	—	—	—
Neuchatel	154.1	357	e 20 3	[+16]	—	—	—	—
Granada	162.0	24	e 19 32?	[-24]	—	—	e 88.5	—

Additional readings :—

Apia i = +3m.20s.

Adelaide eS? = +18m.2s. = S_cS + 0s.

Tucson e = +34m.32s.

Huancayo e = +31m.6s.

Tiflis e = +23m.9s. = PKS - 3s., eN = +78m.57s.

Ksara e = +18m.37s., e = +77m.31s.

Stuttgart eZ = +23m.44s. = PP + 11s.

Long waves were also recorded at Wellington, Melbourne, Riverview, Philadelphia, Baku, Scoresby Sund, Uccle, Strasbourg, Edinburgh, and San Fernando.

Aug. 17d. 14h. 0m. 4s. Epicentre 4°·8S. 155°·8E.

N.3.

A = -·9089, B = +·4085, C = -·0837; $\delta = -2$;
D = +·410, E = +·912; G = +·076, H = -·034, K = -·996.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Palau	24.5	298	5 31	+16	—	—	—	—
Riverview	29.4	188	e 5 53	- 7	e 10 21	-34	12.6	16.5
Sydney	29.4	188	e 9 26	P _c P?	i 12 56	?	14.0	14.9
Adelaide	34.1	205	e 6 48	+ 7	i 11 16	-52	e 14.7	29.0
Melbourne	34.5	195	e 6 43	- 2	i 11 45	-29	15.7	18.3
Arapuni	37.9	154	—	—	12 56?	- 9	—	—
Manila	39.6	300	7 31	+ 2	13 16	-14	17.9	—
Wellington	40.2	158	7 23	-11	13 22	-17	19.9	22.9
Christchurch	41.5	162	e 1 41	?	(13 29)	-30	16.8	21.1
Miyazaki	43.4	329	8 5	+ 5	13 51	+24	—	—
Kobe	44.0	336	—	—	e 16 35	?	—	31.8
Nagasaki	44.9	329	8 56?	+44	—	—	—	—
Hukuoka B	45.3	330	e 8 23	+ 8	14 51	- 4	—	—
Hamada	45.5	333	8 18	+ 1	—	—	—	—
Taikyu	48.0	331	e 9 27	+51	—	—	—	—
Batavia	48.7	266	e 8 38	- 3	15 15	-28	—	—
Hong Kong	48.9	305	9 4	+21	15 39	- 6	22.9	27.4
Zinsen	N. 50.2	330	—	—	e 16 7	+ 3	—	—
Nanking	51.0	319	e 8 59	0	i 16 20	+ 5	e 23.8	29.2
Vladivostok	52.6	338	e 9 7	- 4	e 16 45	+ 8	e 26.4	35.1
Chiufeng	57.8	325	e 9 41	- 8	17 43	- 4	—	33.0
Colombo	76.7	278	11 50	0	21 23	-16	—	50.0
College	80.9	20	—	—	e 22 14	-11	—	—
Agra	E. 81.4	298	i 12 29	+14	i 22 10	-21	—	—
Sitka	82.8	31	—	—	e 23 1	+16	e 35.2	—
Bombay	84.9	289	e 12 56	+23	e 22 41	[-17]	—	—
Ukiah	86.1	50	—	—	e 23 14	- 4	—	—
Berkeley	86.6	52	e 12 11	-30	e 23 23	0	e 44.0	—
Frunse	86.9	313	e 12 29	-14	e 23 7	[- 6]	—	—
Pasadena	89.4	56	i 12 56	+ 1	—	—	e 39.5	—
Mount Wilson	Z. 89.5	56	i 12 55	0	—	—	—	—
Tinemaha	Z. 89.7	53	e 12 58	+ 2	—	—	—	—
La Jolla	90.0	57	e 12 58	+ 1	—	—	—	—
Riverside	Z. 90.0	56	i 12 58	+ 1	—	—	—	—
Tashkent	90.6	312	i 13 17	+17	24 15	+13	e 41.5	55.6

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Samarkand	92.2	309	e 12 55	-13	—	—	—	—
Tucson	95.4	58	e 13 30	+ 8	e 24 32	-14	e 44.4	—
Baku	105.3	311	e 14 25	+17	e 26 31	{+58}	51.9	—
Grozny	107.8	314	e 19 0	PP	—	—	56.2	—
Tifis	108.8	313	e 14 41	+16	e 26 26	{+28}	e 53.9	68.3
Moscow	109.5	328	e 19 5	PP	—	—	56.4	66.0
Madison	111.2	44	—	—	e 28 56?	PS	—	—
Pulkovo	111.3	334	e 19 6	PP	—	—	54.9	63.5
Florissant	111.5	50	e 29 11	PS ?	—	—	e 50.5	62.0
Chicago	112.9	46	e 29 43	PS	—	—	e 55.4	—
Scoresby Sund	114.3	359	19 44	PP	—	—	53.9	—
Yalta	115.6	317	—	—	(e 34 56)	SS?	e 34.9	—
Ksara	117.4	305	e 18 25	[-14]	36 29	SS	56.9	—
Ottawa	119.7	39	—	—	e 25 56?	[+ 7]	65.9	—
Ivigut	120.8	13	30 20	PS	—	—	59.9	—
Copenhagen	121.3	337	19 56?	PP?	—	—	59.9	—
Vermont	121.7	39	—	—	e 26 6	[+10]	e 63.3	—
Philadelphia	122.3	45	—	—	e 25 46	[- 1]	e 57.6	—
Hamburg	123.8	337	—	—	e 31 56?	?	e 60.9	74.9
Vienna	124.5	328	e 18 51	[- 5]	—	—	e 72.9	—
Edinburgh	126.2	345	e 20 56?	PP	—	—	e 58.9	—
Huancayo	126.4	109	e 22 45	?	e 37 56	SS	e 60.9	—
De Bilt	126.8	337	e 19 32	[+31]	e 21 5	PP	e 58.9	80.9
Triest	127.5	327	e 20 56	PP	—	—	—	e 75.7
Stuttgart	127.7	332	e 19 26	[+24]	—	—	e 63.9	—
Uccle	128.2	338	e 19 27	[+24]	—	—	e 58.9	—
Bidston	128.4	344	e 25 56?	PPPP	—	—	e 85.8	—
Strasbourg	128.5	333	e 18 56?	[- 8]	e 38 44	SS	e 59.9	—
Kew	129.3	341	—	—	e 25 56?	[-21]	e 64.9	85.8
Oxford	129.3	341	e 21 39	PP	—	—	—	—
Paris	130.5	337	e 19 15	[+ 7]	—	—	71.9	80.9
La Paz	131.6	117	e 23 0	PKS	—	—	69.4	82.8
Toledo	140.5	335	e 21 17	PP?	—	—	e 74.1	—
Granada	142.5	333	e 18 56?	[-29]	—	—	69.9	—
San Fernando	144.3	335	e 19 41	[+ 9]	e 26 40	[+ 6]	72.4	—
Rio de Janeiro	146.6	147	e 19 56?	[+19]	—	—	—	—

Additional readings and note :—

Riverview eSE = +10m.26s., iN = +10m.38s.
 Arapuni SS? = +16m.44s.
 Wellington SS = +15m.59s.
 Christchurch eS = +8m.51s.; the reading entered for S is given as SSS.
 Batavia SE = +15m.29s.
 Hong Kong SS = +18m.44s.
 Nanking SN = +16m.24s.
 Chiufeng ePNZ = +9m.48s., iNZ = +10m.14s., SN = +17m.53s., iScSN = +19m.35s.
 College e = +22m.38s., eSS = +28m.8s.
 Berkeley eE = +12m.31s., eN = +23m.43s., eN = +41m.27s.
 Pasadena iZ = +13m.7s., iZ = +13m.28s.
 Tinemaha iZ = +13m.8s.
 La Jolla eZ = +13m.28s.
 Riverside iZ = +13m.9s., iZ = +13m.29s.
 Tashkent iSKS = +23m.44s., SKKS = +23m.51s., PPS = +26m.6s., SS = +29m.38s., esSS = +32m.56s.
 Tucson eSS = +31m.32s., eSSS = +35m.20s.
 Baku PP = +18m.12s., e = +22m.10s., e = +28m.37s.
 Tifis ePKPZ = +18m.19s., eSS = +34m.18s., eN = +53m.56s.
 Moscow e = +28m.6s.
 Pulkovo e = +28m.53s.
 Scoresby Sund +29m.18s. = PS + 9s.
 Ksara PP = +19m.48s., PPP = +22m.23s.?, PPS = +31m.6s.
 Ottawa e = +36m.56s.?
 Vermont e = +32m.6s., eSS = +37m.8s., e = +57m.6s.
 Philadelphia eSS = +37m.32s., eSSS = +42m.18s.
 Huancayo e = +31m.48s., e = +54m.20s.
 Triest e = +29m.13s., +38m.27s., and +43m.30s.
 Stuttgart ePP = +21m.2s., ePPS = +32m.56s., eSS = +38m.30s.

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Uccle e = +21m.20s., e = +22m.41s., e = +32m.49s., and +38m.42s.
 Strasbourg ePP = +21m.11s., ePPP = +23m.37s., ePPS = +32m.56s.? eSS = +38m.44s.

Oxford e = +22m.26s., i = +22m.54s.

Paris e = +21m.56s.?

La Paz SSN = +41m.16s.

San Fernando ePKP_s = +20m.33s.

Long waves were also recorded at Apia, Perth, Honolulu, Seattle, Bozeman, San Juan, Cape Town, Durham, Stonyhurst, Jena, Bergen, Belgrade, Cheb, Almeria, Perth, and Phu-Lien.

Aug. 17d. Readings also at 5h. (Christchurch), 6h. (Scoresby Sund, Edinburgh, Copenhagen, Pulkovo, Moscow, Tashkent, and Strasbourg), 7h. (Erevan and Grozny), 10h. (Tiflis), 11h. (Cape Town), 12h. (Baku, Tiflis, Tashkent, and Paris), 15h. (Nagoya), 16h. (Cape Town), 17h. (Adelaide, Riverview, Wellington, Christchurch, Manila, Nanking, Chiufeng, Vladivostok, Tiflis, Tashkent, Pulkovo, Scoresby Sund, Mount Wilson, Pasadena, Riverside, Tinemaha, Uccle, and De Bilt), 18h. (Hong Kong, Tiflis, Scoresby Sund, Paris, De Bilt, Tashkent, Copenhagen (2), Pulkovo, Strasbourg, Stuttgart, and Vladivostok), 19h. (Paris), 20h. (near Mizusawa), 21h. (Tacubaya, Manzanillo, and Sotchi), 22h. (Ferndale).

Aug. 18d. 0h. 27m. 53s. Epicentre 46°·4N. 8°·1E. (as on 1933 Sept. 24d.). X.

A = +·6827, B = +·0972, C = +·7242; δ = -1.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Neuchatel	1·0	306	i 0 17	+ 3	i 0 25	- 1
Zurich	1·0	19	i 0 16	+ 2	i 0 24	- 2
Chur	1·1	65	e 0 27	S	(e 0 27)	- 1
Basle	1·2	343	i 0 15	- 2	i 0 23	- 8
Ravensburg	1·8	37	—	—	e 0 54	+ 8
Ebingen	1·9	18	—	—	e 0 48	- 1
Stuttgart	2·5	18	—	—	e 1 8	+ 4

Ravensburg gives also iS_g = +56s.

Aug. 18d. 7h. 7m. 19s. Epicentre 19°·1N. 105°·0W. (as on 1933 April 9d.). R.1.

A = -·2446, B = -·9128, C = +·3272; δ = +9;
 D = -·966, E = +·259; G = -·085, H = -·316, K = -·945.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manzanillo	N. 0·7	95	0 15	+ 5	—	—	—	—
Guadalajara	N. 2·1	42	0 21	- 9	—	—	—	—
Tacubaya	N. 5·5	86	1 18	0	—	—	—	—
Oaxaca	E. 8·1	103	1 58	+ 3	—	—	—	—
Tucson	14·2	339	i 3 23	+ 5	e 6 23	+27	7·2	—
La Jolla	17·6	324	i 4 6k	+ 4	—	—	—	—
Riverside	18·5	326	e 4 16	+ 3	e 8 3	+27	—	—
Mount Wilson	19·0	325	e 4 23	+ 4	—	—	—	—
Pasadena	19·0	325	i 4 21k	+ 2	e 8 13	+27	e 9·8	—
Santa Barbara	20·2	323	e 4 34	+ 2	—	—	—	—
Haiwee	20·5	329	e 4 39	+ 4	e 8 39	SS	—	—
Denver	20·6	2	e 4 38	+ 2	e 8 37	+19	—	11·8
Tinemaha	21·4	330	e 4 47	+ 3	e 8 58	+24	—	—
Fresno	N. 21·9	327	e 4 53	+ 3	—	—	—	—
Lick	23·3	325	e 5 7	+ 3	9 29	+19	—	—
St. Louis	E. 23·4	30	i 5 5	0	—	—	—	—
Florissant	23·5	30	e 5 5	0	9 27	+13	i 11·7	14·9
Branner	23·7	324	e 5 13	+ 6	—	—	—	—
Berkeley	24·0	325	e 5 13k	+ 3	e 9 35	+12	—	—
Ukiah	25·5	326	e 5 11	-14	e 9 47	- 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.
Columbia	26.0	50	e 5 28	- 1	e 10 10	+12	e 15.8	—
Bozeman	27.0	351	e 5 49	+11	e 10 27	+12	e 14.9	—
Chicago	27.1	29	—	—	e 10 12	- 5	e 13.5	—
Madison	27.4	25	e 4 41?	-61	—	—	e 14.5	—
Ann Arbor	29.4	33	i 5 59	- 1	e 13 41	?	e 16.2	—
Georgetown	31.2	44	i 6 15	- 1	e 11 13	-10	e 15.2	—
Toronto	32.6	35	e 6 26	- 2	11 49	+ 4	15.8	—
Philadelphia	33.0	45	i 6 29	- 3	e 12 2	+11	18.0	—
Fordham	34.4	44	e 6 39	- 5	—	—	e 18.0	—
Ottawa	35.7	35	e 6 55	0	e 12 31	- 1	e 15.3	19.2
Oak Ridge	36.6	43	i 7 3	0	—	—	e 20.7	—
Vermont	36.7	39	—	—	e 12 53	+ 6	e 19.8	—
Weston	36.7	43	i 7 5	+ 1	—	—	—	—
San Juan	36.8	85	e 7 1	- 4	e 12 46	- 2	e 16.7	—
Huancayo	42.8	135	e 7 51	- 4	i 14 15	- 3	—	—
Sitka	44.1	337	—	—	e 14 45	+ 8	e 22.3	—
Honolulu	49.4	282	—	—	e 20 41?	SSSS	—	—
La Paz	50.8	133	e 8 55	- 2	i 16 6	- 6	23.4	27.8
Iviglut	57.6	29	i 9 47	0	17 52	+ 8	28.7	—
Scoresby Sund	69.8	20	11 7	- 2	—	—	34.7	—
De Bilt	86.7	35	12 41	- 1	e 23 21	- 3	—	—
Uccle	86.8	37	—	—	e 23 11	[- 1]	e 39.7	—
Granada	87.2	52	i 12 41	- 3	—	—	e 43.7	—
Copenhagen	88.6	30	12 49	- 2	23 47	+ 4	40.7	—
Stuttgart	90.6	37	e 13 5	+ 5	e 23 41	[+ 5]	e 43.7	53.7
Pulkovo	93.2	21	13 10	- 2	23 48	[- 3]	44.7	52.8
Triest	94.8	38	—	—	i 22 41	?	—	e 46.2
Vladivostok	98.8	321	e 26 41	PS	—	—	59.2	70.0
Sverdlovsk	103.1	8	i 18 14	PP	25 51	- 3	44.7	59.3
Simferopol	105.9	28	e 18 10	[+ 5]	—	—	—	—
Yalta	106.3	29	e 18 36	PP	—	—	—	—
Chiufeng	109.5	327	—	—	e 28 41	?	—	e 69.7
Grozny	112.1	22	e 19 13	PP	—	—	—	—
Tiflis	113.1	24	e 19 12	PP	e 29 2	—	e 58.7	69.5
Ksara	115.9	36	i 19 39	PP	—	—	57.5	—
Tashkent	119.4	4	19 56	PP	25 45	[- 3]	62.7	73.5

Additional readings:—

Denver ePE = +4m.43s., epPE = +4m.48s., ePcPN = +8m.33s., eE = +8m.41s., eN = +8m.45s., eSSN = +8m.57s., eE = +10m.25s., eN = +10m.53s., eE = +11m.37s.

Fresno eN = +6m.16s.

Florissant ipPE = +5m.20s., iPPNZ = +5m.56s., iPPPN = +6m.5s., iNZ = +8m.4s., iPcPNZ = +8m.33s., iSSN = +9m.52s., iSSZ = +9m.54s., eSSN = +10m.43s., iSSPN = +12m.31s., iScSEN = +16m.6s.

Berkeley eSZ = +9m.43s., eSE = +9m.49s.

Ann Arbor e? = +14m.41s., e = +15m.41s.

Georgetown iPP = +7m.3s., i = +9m.8s. = PcP - 5s., e = +11m.33s.

Toronto ePPN = +7m.19s.

Philadelphia e = +7m.25s., e = +11m.47s., eSS = +14m.17s., e = +14m.49s., e = +15m.34s., eZ = +16m.51s.

Fordham ePP = +7m.54s., eSS = +14m.51s., eZ = +18m.43s., e = +19m.51s.

Ottawa ePP = +8m.13s., T₀ = 7h.7m.24s.

Vermont e = +17m.2s., iScS = +17m.26s.

San Juan ePP = +8m.18s., eS = +12m.33s., e = +15m.32s., eSSS = +15m.59s.

Huancayo eSSS = +17m.47s.

Sitka eSS = +17m.59s., eScS = +18m.11s.

De Bilt PPZ = +16m.5s.

Copenhagen = +16m.17s. = PP + 2s.

Stuttgart ePPZ = +16m.41s.?

Pulkovo PP = +16m.55s., PS = +25m.32s.

Sverdlovsk SS = +33m.6s.

Ksara ePS = +29m.29s.

Tashkent PS = +30m.5s.

Long waves were also recorded at Strasbourg, Wellington, Paris, College, Edinburgh, Seattle, Kew, Prague, Moscow, Sydney, Baku, and San Fernando.

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Aug. 18d. Readings also at 0h. (Agra and Christchurch), 2h. (Pulkovo, Manila, Hong Kong, Chiufeng, Tashkent (2), and Tifis), 3h. (Copenhagen), 6h. (near Santiago), 7h. (Scoresby Sund, near Santiago, and near Sumoto), 9h. (La Paz and Tacubaya), 12h. (Mount Wilson, Pasadena, Tinemaha, and near Malabar), 13h. (Moscow, Tifis, Tashkent, Vladivostok, Hong Kong, Phu-Lien, Bombay, Chiufeng, Nanking, Calcutta, Medan, Des Moines, near La Paz, and near Santiago), 14h. (Tifis), 16h. and 17h. (Scoresby Sund), 23h. (Tifis, near Manila, near Mizusawa, near Batavia, and Malabar).

Aug. 19d. 12h. Asiatic shock :—

Tifis eP = 5m.5s., e = 7m.17s., iL = 8m.49s.
 Grozny eP = 5m.7s., e = 9m.45s.
 Erevan eP = 5m.31s.
 Helwan eP = 6m.5s., eS = 9m.34s., M = 14m.48s.
 Simferopol eP = 6m.23s., e = 10m.20s.
 Yalta eP = 6m.26s., e = 10m.15s.
 Baku e = 6m.30s. and 8m.11s., L = 8m.48s.
 Ksara eP = 6m.34s.?, S = 9m.40s.?, S_g = 11m.46s.
 Tashkent iP = 9m.33s., iS = 11m.32s., L = 11m.48s., M = 14m.6s.
 Samarkand e = 10m.47s.
 Frunse e = 16m.55s.
 Long waves were also recorded at Stuttgart and Chiufeng.

Aug. 19d. Readings also at 0h. (Chiufeng), 1h. (Grozny, Tifis, and near Erevan), 4h. (Almeria and near Berkeley), 7h. (Tifis), 8h. (La Paz and Huancayo), 9h. (near Manila), 13h. (Nagoya (2) and Tucson), 15h. (Oak Ridge), 17h. (Alicante, Tifis, and near Branner), 19h. (Tifis), 20h. (Tacubaya), 21h. (near Oak Ridge), 22h. (near Santiago (2)), 23h. (Mizusawa).

Aug. 20d. 2h. 8m. 49s. Epicentre 30°·5N. 51°·7E. (as on 1934 March 13d.). R.2.

$$A = +.5340, B = +.6762, C = +.5075; \quad \delta = -4;$$

$$D = +.785, E = -.620; \quad G = +.315, H = +.398, K = -.862.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	10·0	352	e 3 18	+57	4 48	S*?	6·2	—
Erevan	11·3	331	e 3 19	+40	—	—	e 6·6	—
Tifis	12·5	336	e 2 55	0	e 5 18	+ 3	—	—
Grozny	13·6	342	e 3 20	+10	—	—	e 7·7	—
Ksara	13·8	288	e 3 14	+ 1	i 5 58	+12	—	—
Samarkand	15·5	50	3 35	0	e 8 30	L	(e 8·5)	—
Sotchi	16·2	327	e 3 42	- 2	—	—	—	—
Helwan	17·6	273	3 59	- 3	7 31	SSSS	—	12·7
Tashkent	17·8	48	i 4 6	+ 2	i 7 25	+ 5	e 8·9	12·1
Yalta	19·6	320	4 22	- 3	e 8 3	+ 5	—	—
Simferopol	20·0	321	4 28	- 2	e 8 17	+11	—	—
Frunse	22·0	49	e 5 1	+10	e 9 6	+20	—	—
Bombay	E. 22·3	116	e 6 11?	?	—	—	—	—
Bucharest	24·5	312	e 5 16	+ 1	(e 9 36)	+ 4	e 9·6	—
Sofia	25·7	306	e 5 29	+ 3	e 10 3	+10	e 15·2	—
Moscow	27·1	343	e 5 39	0	e 10 15	- 2	14·7	17·2
Pulkovo	32·6	341	e 6 13	-15	e 11 33	-12	17·2	22·7
Triest	33·1	309	e 6 27	- 6	11 48	- 4	e 14·3	19·3
Calcutta	N. 33·7	94	13 28	S	17 8	?	19·0	20·8
Uccle	40·3	314	—	—	e 16 40	SSS?	e 20·2	—
Chiufeng	52·3	61	—	—	e 16 55	+22	e 27·2	31·7
Vladivostok	63·0	54	—	—	e 25 49	SSS	e 34·4	41·9

Additional readings :—

Baku e = +5m.32s.
 Tifis eN = +5m.8s., eZ = +6m.36s., iEN = +6m.39s.
 Ksara iSS = +7m.40s., iP_cP = +8m.31s.
 Helwan e = +7m.49s.
 Pulkovo e = +7m.21s. and +13m.17s.
 Calcutta PPPN = +13m.55s., iN = +18m.0s.
 Long waves were also recorded at Cape Town and other European stations.

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Aug. 20d. 23h. 32m. 41s. Epicentre $36^{\circ}2'N$. $70^{\circ}7'E$. (as on 1936 June 29d.). R.3.

$$A = +.2667, B = +.7616, C = +.5906; \quad \delta = -3;$$

$$D = +.944, E = -.331; \quad G = +.195, H = +.558, K = -.807.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Samarkand	4.5	321	1 7	+ 3	2 21	S _g	—	2.9
Tashkent	5.2	349	i 1 14	0	2 10	- 3	2.7	3.1
Frunse	7.3	20	i 1 40	- 4	i 2 57	- 9	—	—
Almata	8.5	32	e 2 30	+30	—	—	—	—
Semipalatinsk	15.8	23	e 3 30	- 9	e 6 31	- 3	—	—
Baku	16.8	291	e 3 57	+ 5	e 7 20	+23	—	—
Bombay	17.4	173	e 4 26	+27	i 7 22	+11	—	—
Hyderabad	20.0	158	7 57	S	(7 57)	- 9	9.9	12.9
Grozny	20.4	298	4 39	+ 5	—	—	—	—
Calcutta	N. 20.6	127	—	—	i 8 7	-11	—	—
Tiflis	20.8	293	i 4 40k	+ 2	8 37	+15	—	—
Erevan	20.9	289	e 4 47	+ 8	e 8 13	-11	—	—
Piatigorsk	22.4	299	e 3 57	-58	e 8 35	-18	—	—
Sotchi	24.7	298	e 5 23	+ 6	e 9 21	-15	—	—
Kodaikanal	E. 26.7	165	—	—	e 10 19?	+ 9	—	—
Ksara	28.5	276	e 6 36	PP	e 12 5	SSS	—	—
Yalta	28.8	298	e 6 55	PPPP	e 11 4	+19	—	—
Simferopol	29.0	300	e 5 56	0	e 11 29	+41	—	—
Sebastopol	29.2	298	e 6 25	+27	e 11 53	+62	—	—
Moscow	29.7	320	e 6 1	- 1	e 10 50	- 9	e 16.8	21.1
Pulkovo	35.0	325	e 6 43	- 6	12 9	-12	18.3	19.7
Chiufeng	35.6	70	—	—	e 12 17	-13	—	—
Triest	43.1	301	e 8 21	+23	—	—	—	—
Copenhagen	43.3	316	7 57	- 2	14 24	- 1	—	—
Hamburg	44.8	314	e 8 8	- 3	—	—	23.3	—
Stuttgart	45.7	307	e 8 39	+21	e 14 57	- 3	—	—
De Bilt	47.8	311	8 30	- 5	15 27	- 3	e 25.3	—
Granada	57.9	296	—	—	e 17 19	-29	—	—

Additional readings:—

Samarkand $iP_g = +1m.26s.$, $iPP = +1m.35s.$, $i = +1m.45s.$

Frunse $i = +1m.52s.$, $i = +2m.32s.$

Almata $e = +3m.17s.$

Bombay $iE = +7m.16s.$

Hyderabad $S = +9m.29s.$

Grozny $i = +5m.12s.$

Sotchi $e = +10m.3s.$

Ksara $eSS = +13m.58s.$

Simferopol $e = +16m.1s.$

Chiufeng $eE = +10m.13s.$

Triest $eE = +9m.24s.$, $i = +9m.39s.$

Copenhagen $= +9m.43s.$, $= +17m.49s.$

Stuttgart $eZ = +9m.47s.$, $e = +18m.37s.$

De Bilt $eSS = +19m.27s.$

Granada $e = +7m.49s.$

Long waves were also recorded at Strasbourg, Paris, Kew, and Edinburgh.

Aug. 20d. Readings also at 0h. (Tiflis), 1h. (La Paz), 5h. (near Mizusawa), 7h. (College), 9h. (Kobe), 11h. (Edinburgh, near Kobe, Nagoya, and Sumoto), 13h. (Oaxaca), 15h. (Belgrade, Bucharest (2), Sofia, Triest, De Bilt, Stuttgart, Strasbourg, and Ksara), 16h. (Almata, Grozny, Tiflis, Frunse, near Tchimkent, Samarkand, near San Juan, San Francisco, near Berkeley, Branner, Fresno, and Lick), 23h. (Mount Wilson, Pasadena, Riverside, and Tinemaha).

Aug. 21d. Readings at 0h. (Edinburgh), 3h. (near Manila), 5h. (Mount Wilson, Tucson, Pasadena, and Tinemaha), 6h. and 8h. (near Manila), 13h. (Sverdlovsk, Tashkent, Pulkovo, Copenhagen, De Bilt, Stuttgart, Kew, and Pennsylvania), 15h. (Sverdlovsk, Tashkent, Pulkovo, Copenhagen, near Nagoya, and near Sumoto), 17h. (Strasbourg), 18h. (near Nagoya), 22h. (Mount Wilson, Pasadena, Tinemaha, near Almeria, and Granada).

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Aug. 22d. 6h. 51m. 39s. Epicentre 22°·3N. 121°·3E. R.1.

(as on 1936 May 28d. and near position 22°·2N. 121°·2E. suggested by Taihoku)

A = -·4807, B = +·7906, C = +·3795; $\delta = +14$;
D = +·854, E = +·520; G = -·197, H = +·324, K = -·925.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taito	0·5	343	0 10	+ 3	0 20	+ 7	—	—
Kosyun	0·6	240	0 5k	- 4	0 12	- 3	—	—
Takao	1·0	288	0 1k	-13	0 14	-12	—	—
Arisan	1·3	339	0 22a	+ 4	0 43	+10	—	—
Tainan	1·3	305	0 24a	+ 6	0 40	+ 7	—	—
Karenko	1·8	9	0 28a	P*	0 53	S _g	—	—
Taityu	2·0	343	0 30	+ 1	1 0	S _g	—	—
Hokoto	2·1	307	1 11	+41	1 41	+47	—	—
Giran	2·5	10	0 39a	P*	1 14	S*	—	—
Taihoku	2·8	4	0 44a	P*	1 23	S*	—	1·7
Isigakizima	3·4	52	0 51k	+ 2	1 25	- 2	—	—
Hong Kong	6·6	271	1 31	- 3	2 43	- 5	3·5	5·8
Naha	7·0	54	1 42	+ 3	2 59	S*	—	—
Manila	7·7	183	i 1 47a	- 2	i 3 47	S*	—	—
Zi-ka-wei	N. 8·9	0	e 2 4	- 2	3 44	- 2	—	—
Nake	9·6	49	2 15	- 1	4 4	+ 1	—	—
Nanking	10·0	348	2 22	+ 1	4 26	+13	4·8	5·8
Tomie	12·3	31	2 57	+ 5	5 19	+ 9	—	—
Kagosima	12·4	40	2 57	+ 3	5 33	+20	—	—
Nagasaki	12·9	34	3 5	+ 4	5 36	+11	—	—
Unzendake	13·1	35	3 11	+ 8	5 48	+19	—	—
Miyazaki	13·2	41	3 3k	- 2	5 40	+ 8	—	—
Kumamoto	13·4	36	3 11k	+ 4	—	—	—	—
Phu-Lien	13·7	266	i 3 9	- 2	6 3	+19	6·9	9·1
Ituhara	13·8	29	3 24k	+11	7 40	?	—	—
Hukuoka	13·9	33	3 17k	+ 3	5 59	+10	—	11·1
Hukuoka B	13·9	33	3 16k	+ 2	5 58	+ 9	8·0	11·1
Ooita	14·2	37	3 29	+11	5 59	+ 3	—	—
Husan	14·5	26	3 23	+ 1	6 16	+13	7·8	8·9
Simidu	14·7	42	3 29k	+ 4	7 17	+69	—	—
Taikyu	15·1	24	3 32k	+ 2	6 26	+ 9	8·2	9·1
Matuyama	15·4	39	3 41k	+ 7	6 48	+24	—	—
Hirosima	15·5	36	3 45	+10	6 41	+14	—	—
Koti	15·5	41	3 34	- 1	6 49	+22	—	—
Hamada	15·8	34	3 42	+ 3	6 43	+ 9	—	—
Muroto	15·8	43	3 37	- 2	6 56	+22	—	—
Zinsen	15·9	15	i 3 44k	+ 4	i 6 44	+ 8	e 8·1	10·8
Keizyo	16·1	17	i 3 46k	+ 3	i 6 48	+ 7	8·5	9·6
Tadotu	16·2	40	3 43	- 1	7 9	+26	—	—
Tokusima	16·5	42	3 55	+ 7	7 11	+21	—	—
Dairen	16·6	1	4 0	+11	7 1	+ 9	—	—
Okayama	16·6	39	2 27	-82	6 3	-49	—	—
Siomisaki	17·0	46	3 53a	- 1	7 18	+16	—	—
Sumoto	17·0	42	i 3 57k	+ 3	i 7 21	+19	9·4	10·5
Wakayama	17·1	42	3 55k	0	7 22	+18	—	—
Heizyo	17·2	12	4 2	+ 5	7 25	+19	8·9	10·5
Kobe	17·4	41	4 3k	+ 4	7 31	+20	—	9·9
Osaka	17·6	42	4 7	+ 5	7 21	+ 6	—	—
Yagi	17·6	43	4 6	+ 4	7 33	+18	—	—
Toyooka	17·8	39	e 4 9k	+ 5	7 37	+17	9·9	11·5
Kyoto	17·9	42	4 8	+ 3	7 39	+17	—	—
Kameyama	18·3	43	4 13k	+ 3	7 47	+16	—	—
Chiufeng	18·4	347	e 4 11	0	7 41	+ 8	i 9·3	10·1
Hikone	18·4	42	4 24	+13	7 58	+25	—	—
Yingkow	18·4	2	3 23a	-48	6 51	-42	—	—

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.
Ibukisan	18.5	40	4 18k	+ 5	7 57	+21	—	—
Gihu	18.8	42	4 17k	+ 1	7 57	SS	—	—
Nagoya	18.8	43	4 19	+ 3	(7 58)	SS	8.0	—
Hamamatu	19.0	45	4 23k	+ 4	8 3	SS	—	—
Omaesaki	19.2	47	4 27k	+ 6	8 7	SS	—	—
Kanazawa	19.4	41	4 17 a	- 6	7 36	-18	—	—
Titizima	19.5	72	4 29	+ 5	—	—	—	—
Iida	19.5	45	4 33k	+ 9	10 21	L	(10.4)	—
Fengtien	19.6	5	3 18	-67	6 59	-59	—	—
Hatidyozima	19.6	52	4 29	+ 4	8 16	+18	—	—
Palau	19.6	138	4 17	- 8	8 18	+20	—	—
Husiki	19.9	41	4 34k	+ 5	8 22	+18	—	—
Toyama	19.9	40	4 34	+ 5	8 18	+14	—	—
Ito	20.0	47	4 35	+ 5	8 27	+21	—	—
Numadu	20.0	46	4 35	+ 5	7 42	-24	—	—
Misima	20.0	46	4 32k	+ 2	8 19	+13	—	—
Hunatu	20.1	45	4 36k	+ 5	8 22	+14	—	—
Kohu	20.1	45	4 34k	+ 3	8 28	+20	—	—
Matumoto	20.1	41	4 33k	+ 2	8 19	+11	—	—
Wazima	20.2	38	4 34k	+ 2	8 25	+15	—	—
Mera	20.5	47	4 36 a	+ 1	8 22	+ 6	—	—
Nagano	20.5	42	4 39k	+ 4	8 28	+12	—	—
Oiwake	20.5	41	4 40	+ 5	8 29	+13	—	—
Yokohama	20.7	46	4 39k	+ 2	8 38	+18	—	—
Takada	20.8	40	4 38k	0	8 42	+20	—	—
Kiyosumi	20.9	49	4 47	+ 8	—	—	—	—
Kumagaya	20.9	43	4 41k	+ 2	8 40	+16	—	—
Maebasi	20.9	43	4 41	+ 2	8 52	+28	—	—
Tokyo	20.9	46	4 43k	+ 4	8 34	+10	—	—
Tukubasan	21.4	43	4 44k	0	8 59	SS	—	—
Kakioka	21.5	43	4 44 a	- 1	8 40	+ 4	—	—
Tyosi	21.7	47	4 46 a	- 2	8 50	+10	—	—
Mito	21.8	43	4 50k	+ 1	8 51	+ 9	—	—
Sinkyō	21.9	8	4 1	-49	7 57	-47	—	—
Aidu	22.2	23	4 32 a	-21	9 20	L	(9.3)	—
Onahama	22.4	45	4 53 a	- 2	8 56	+ 3	—	—
Hukusima	22.6	43	4 57k	0	9 0	+ 3	—	—
Vladivostok	22.7	20	i 4 58	0	i 9 4	+ 5	11.2	14.0
Yamagata	22.8	43	5 1	+ 2	—	—	—	—
Sendai	23.2	43	5 0k	- 3	9 10	+ 2	—	—
Akita	23.6	39	5 29	+23	9 56	SS	—	—
Mizusawa	23.9	40	i 5 11	+ 2	i 9 18	- 3	11.7	—
Morioka	24.2	39	4 14k	-58	8 33	-54	—	—
Aomori	24.7	37	5 19	+ 2	—	—	—	—
Miyako	24.7	40	4 54	-23	9 36	0	—	—
Sapporo	26.6	32	5 35	0	11 40	SSSS	—	—
Asahigawa	27.6	36	5 51	+ 7	—	—	—	—
Haboro	27.7	35	5 59	+15	—	—	—	—
Medan	28.8	234	i 5 52	- 2	i 10 41	- 4	e 15.3	—
Nemuro	29.1	37	5 58	+ 1	10 39	-11	—	—
Calcutta	N. 30.3	276	6 22	+14	11 17	+ 8	—	—
Batavia	31.8	208	i 6 19	- 2	11 25	- 7	e 24.4	—
Sikka	32.0	27	6 13 a	-10	11 38	+ 3	—	—
Malabar	32.4	207	6 22	- 4	11 35	- 6	e 17.3	—
Dehra Dun	39.3	290	7 21	- 5	13 11	-15	20.5	22.4
Agra	E. 39.4	285	i 7 23	- 4	i 13 10	-17	—	—
Hyderabad	40.5	270	7 44	+ 8	13 46	+ 2	18.6	25.6
Semipalatinsk	42.6	322	i 7 57	+ 4	14 15	0	17.6	—
Colombo	42.7	255	7 56	+ 2	14 16	0	20.9	24.6
Kodaikanal	E. 43.6	262	i 8 1	- 1	i 14 31	+ 1	i 20.7	25.5

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Frunse	43.7	309	8 5	+ 3	14 36	+ 5	22.3	—
Andijan	44.9	305	e 8 11	- 1	14 50	+ 1	26.3	—
Bombay	45.3	274	8 15	0	14 52	- 3	21.4	27.6
Tchimkent	47.2	307	8 32	+ 2	15 24	+ 3	25.3	—
Tashkent	47.3	307	i 8 28	- 3	15 18	- 5	23.3	33.3
Samarkand	48.9	303	8 46	+ 3	15 46	+ 1	—	—
Perth	54.5	185	8 56	-29	16 56	- 6	24.9	27.3
Sverdlovsk	55.6	325	i 9 36	+ 3	17 20	+ 3	31.6	34.0
Adelaide	59.5	164	e 9 53	- 8	17 57	-12	e 24.7	34.6
Baku	61.9	306	i 10 19	+ 1	i 18 46	+ 5	30.6	37.6
Riverview	62.9	152	e 10 22	- 3	i 18 46	- 8	c 28.8	35.9
Sydney	62.9	152	e 10 3	-22	i 18 33	-21	30.9	39.1
Melbourne	64.1	158	10 34	+ 1	18 58	-11	26.2	38.8
Tiflis	65.6	307	10 38k	- 4	i 19 27	0	31.8	33.5
Piatigorsk	66.5	310	9 53	-56	18 41	-58	34.8	—
Moscow	68.2	322	i 10 58	- 1	i 19 57	- 2	34.3	43.6
Sotchi	68.9	310	e 11 5	+ 1	20 6	- 2	36.6	—
College	70.3	26	11 12	- 1	20 22	- 3	34.5	—
Pulkovo	71.3	328	i 11 17	- 2	i 19 21	-76	36.3	45.3
Simferopol	72.6	312	e 11 24	- 2	i 20 49	- 3	33.3	—
Yalta	72.6	311	e 11 23	- 3	i 20 47	- 5	40.5	—
Sebastopol	73.0	312	e 11 27	- 2	i 20 53	- 4	40.3	—
Honolulu	74.1	72	i 11 38	+ 3	i 21 10	0	34.3	—
Ksara	74.2	300	i 11 34k	- 2	21 12?	+ 1	34.4	42.4
Apia	74.8	112	e 11 42	+ 3	i 21 11	- 7	35.3	—
Upsala	77.4	330	e 11 52	- 2	i 21 40	- 7	e 35.3	50.7
Lemberg	77.6	318	e 12 3	+ 8	e 21 55	+ 6	e 47.5	50.3
Bucharest	78.1	313	e 12 0	+ 2	i 21 52	- 3	—	47.1
Sitka	78.3	32	i 11 59	0	e 21 47	-10	36.5	—
Arapuni	79.0	140	—	—	22 9	+ 4	33.3	42.3
Helwan	79.1	298	i 12 3	0	21 58	- 8	—	54.2
Sofia	80.6	312	e 12 10	- 1	i 22 16	- 6	—	—
Wellington	80.6	142	12 7	- 4	22 6	-16	39.3	41.3
Christchurch	80.9	145	i 12 12a	- 1	i 22 13	-12	37.7	44.0
Belgrade	81.7	315	i 12 16	- 1	i 22 25	- 9	e 34.5	62.1
Copenhagen	81.7	327	12 14k	- 3	22 27	- 7	40.3	—
Bergen	82.6	334	i 12 37	+16	22 33	-10	39.9	47.3
Vienna	82.9	319	e 12 21	- 2	22 40	- 6	42.3	52.3
Tananarive	83.0	246	12 27	+ 4	22 41	- 6	—	48.0
Prague	83.2	322	12 22	- 2	i 22 42	- 7	e 39.3	54.3
Hamburg	83.7	326	e 12 25k	- 2	e 22 52	- 2	e 40.3	54.3
Scoresby Sund	83.7	349	i 12 26a	- 1	i 22 45	[- 4]	—	—
Zagreb	84.2	317	e 12 26	- 3	e 22 46	[- 7]	e 43.3	46.8
Cheb	84.4	322	i 12 30	0	i 22 51	[- 4]	e 23.0	54.1
Jena	84.4	323	e 12 29	- 1	e 22 49	[- 6]	e 39.3	55.3
Göttingen	85.0	324	i 12 31a	- 2	e 22 56	[- 3]	e 41.3	49.3
Laibach	85.0	318	i 11 30	-63	i 21 57	[-62]	e 47.8	—
Triest	85.6	318	i 12 35k	- 1	i 23 3	[0]	e 40.6	48.0
Stuttgart	86.8	322	i 12 43k	+ 1	e 23 14	[+ 2]	e 43.3	56.8
Karlsruhe	87.1	323	13 38	+54	i 24 32	+64	46.0	—
De Bilt	87.2	326	i 12 44k	0	i 23 23	- 6	e 42.4	50.3
Chur	87.6	321	e 12 45	- 1	e 21 25	?	—	—
Padova	87.7	318	e 12 51?	+ 5	23 13?	[- 5]	—	—
Strasbourg	87.7	323	i 12 43	- 3	e 23 25	- 9	e 43.3	57.6
Zurich	87.9	321	e 12 47	0	e 23 29	- 7	—	—
Florence	88.1	317	12 49	+ 1	i 23 31	- 7	—	—
Uccle	88.3	326	i 12 48k	- 1	i 23 34	- 6	41.3	51.2
Basle	88.4	321	e 13 5	+15	e 23 33	- 8	—	—
Durham	88.8	331	12 51	- 1	23 16	[- 9]	—	56.3
Edinburgh	88.8	332	i 12 52	0	i 23 25	[0]	42.3	57.1

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Neuchatel	89.0	321	e 12 49	- 4	e 23 39	- 7	—	—
Besançon	89.4	322	e 12 53	- 2	e 23 41	- 9	e 48.3	—
Seattle	89.8	37	e 12 55	- 1	23 21	[-10]	—	—
Kew	90.3	328	i 12 58	- 1	i 23 54	- 5	e 47.3	58.5
Bidston	90.4	331	i 12 55	- 4	i 23 47	[+12]	38.3	57.7
Paris	90.5	324	i 12 59	- 1	i 23 45	[+ 9]	46.3	56.3
Oxford	90.6	329	i 13 0	- 1	e 23 26	[-10]	e 41.6	59.2
Rathfarnham Castle	91.9	331	i 13 5	- 1	23 53	[+ 9]	43.3	61.3
Jersey	92.6	327	i 13 11	+ 2	23 47	[- 1]	50.3	—
Ukiah	94.0	44	—	—	e 23 37	[-18]	e 43.4	—
Barcelona	95.0	319	e 17 6	PP	e 24 34	- 8	e 47.3	61.1
Berkeley	95.3	45	e 13 21 _a	- 1	e 23 50	[-12]	—	—
Branner	95.6	45	e 13 23	0	e 23 59	[- 5]	—	—
Lick	96.0	45	e 13 26	+ 1	e 23 57	[- 9]	—	—
Ivigtut	96.1	355	17 15	PP	23 50	[-16]	—	—
Tortosa	E. 96.4	318	e 13 4	-23	23 22	[-46]	e 52.3	63.5
Algiers	97.1	314	i 13 34	+ 4	24 54	- 7	51.3	58.3
Bozeman	97.1	34	e 13 31	+ 1	24 3	[- 9]	e 47.4	—
Fresno	N. 97.6	45	e 13 32	0	24 8	[- 6]	—	—
Tinemaha	98.3	44	e 13 32	- 4	e 24 12	[- 5]	—	—
Santa Barbara	z. 98.4	47	e 13 40	+ 4	—	—	—	—
Toledo	99.6	320	e 13 44	+ 2	25 18	- 5	e 44.5	62.4
Haiwee	99.9	45	e 13 40	- 3	24 15	[-10]	—	—
Pasadena	100.1	46	i 13 42 _k	- 2	i 24 20	[- 6]	e 45.7	—
Almeria	100.6	317	e 13 41	- 5	i 24 16	[-13]	e 56.6	65.1
Riverside	z. 100.8	46	e 13 44	- 3	—	—	—	—
Granada	101.1	318	i 13 49	0	e 25 31	- 5	—	—
La Jolla	101.5	47	e 13 50	0	i 24 27	[- 6]	—	—
San Fernando	103.1	319	e 14 4	+ 6	26 4	+10	52.8	68.3
Tucson	106.1	44	e 14 11	- 1	e 24 49	[- 6]	e 49.3	—
Chicago	110.6	23	e 18 21	[+ 1]	—	—	e 52.8	—
Ottawa	110.6	12	e 18 3	[-17]	e 27 57	?	49.3	—
Ann Arbor	111.4	19	e 28 51	PS	—	—	e 51.2	67.8
Toronto	111.4	16	e 18 6	[-16]	—	—	49.3	—
Cape Town	112.0	241	28 46	PS	e 34 57	SS	50.3	60.3
Florissant	112.1	26	e 14 39	- 2	e 25 8	[-15]	50.3	69.8
St. Louis	E. 112.3	26	e 19 15	PP	25 12	[-11]	e 50.0	57.8
East Machias	112.5	6	e 19 25	PP	—	—	e 55.3	—
Oak Ridge	114.1	10	e 18 39	[+ 9]	—	—	e 55.3	—
Weston	114.3	10	i 19 23	PP	—	—	—	—
Pennsylvania	114.4	16	e 19 33	PP	—	—	e 59.2	69.9
Philadelphia	115.9	13	19 39	PP	i 25 22	[-15]	e 51.3	—
Georgetown	116.4	15	e 18 39	[+ 3]	e 25 28	[-11]	—	—
Columbia	119.8	21	e 20 3	PP	e 25 37	[-13]	e 55.8	—
Tacubaya	N. 122.5	47	e 18 58	[+ 7]	—	—	—	—
Dakar	125.2	309	i 18 57	[0]	e 26 3	[- 3]	66.8	75.2
San Juan	138.7	10	19 15	[- 5]	e 32 7	SKSP	e 59.4	—
Huancayo	161.1	60	e 19 59	[+ 4]	—	—	e 78.3	—
Santiago	164.7	139	—	—	e 33 21	?	—	—
Rio de Janeiro	165.7	264	e 20 21	[+21]	e 31 35	{-14}	e 51.3	—
La Paz	169.4	59	i 20 5 _k	[+ 2]	i 31 55	{-14}	78.6	103.9

Additional readings :—

Taihoku PN? = +47s.

Hong Kong ? = +2m.52s.

Zi-ka-wei iE = +2m.52s., iZ = +3m.2s., SSZ? = +3m.54s., iE = +4m.0s., iN = +4m.4s., iZ = +4m.28s., iE = +4m.36s., iE = +4m.44a. = SS - 1s., iN = +5m.32s., +6m.33s., +6m.44s., +7m.36s., and +8m.16s., iZ = +9m.16s., +10m.14s., +10m.38s., +11m.14s., +11m.44s., +13m.4s., and +15m.21s.

Zinsen iSZ = +6m.51s.

Sumoto PZ = +4m.2s., SN = +7m.44s.

Kobe iN = +5m.51s., iE = +5m.58s., SN = +7m.49s.

Toyooka eSZ = +7m.41s.

Chiufeng iPEN = +4m.14s.

Calcutta P_cPN = +9m.33s.

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Agra eN = +8m.17s., PPPE = +9m.1s., eN = +13m.19s., SSSE = +15m.48s.
Hyderabad PP = +9m.22s.
Kodaikanal iSSE = +17m.16s., iSSSE = +18m.16s.
Bombay SSN = +18m.4s., SSSSEN = +18m.56s.
Perth SS = +21m.11s.
Sverdlovsk L_0 = +25.4m.
Adelaide i = +10m.6s., +12m.4s. = PP - 1s., +13m.27s. = PPP + 3s., +19m.40s.
= S_cS - 9s. and +22m.13s., e = +22m.54s.
Riverview eEN = +10m.26s., iEN = +20m.13s. = S_cS + 0s.
Tiflis iPEZ = +10m.41s., eSSN = +24m.3s., eSSSN = +27m.3s., eN = +27m.27s.
College ePP = +13m.32s., eS = +20m.34s., ePS = +20m.47s., e = +26m.12s.,
eSSS = +28m.23s., e = +29m.27s.
Ksara iPP = +14m.25s.
Apia ePP = +14m.44s., eSS = +26m.7s.
Upsala iP = +11m.54s., PPE = +14m.51s., PPPE = +16m.40s., PPPPE =
+17m.57s., SS = +27m.28s., SSS = +30m.28s.
Bucharest iPEN = +12m.3s., PEN = +15m.6s., iN = +15m.36s., PPPN =
+16m.46s., iN = +17m.9s., iSSN = +27m.21s., SSSN = +30m.16s.
Sitka i = +12m.16s., e = +13m.33s., +13m.59s., +14m.38s., +15m.1s.,
+21m.32s., +22m.8s., and +22m.10s., eSS = +26m.49s.
Arapuni SS = +27m.45s.
Helwan PP = +15m.6s., i = +15m.56s., PS? = +22m.18s.
Sofia iP = +12m.13s.
Wellington SS = +27m.21s.? L_0 ? = +33.4m.
Christchurch SS = +27m.32s., SSS = +30m.48s., GN = +32m.0s.
Belgrade eZ = +14m.58s., eNW = +17m.36s.
Copenhagen e = +12m.32s., ? = 13m.9s., PP = +15m.21s., PPP = +17m.21s.,
PPPP = +18m.33s., SE = +22m.22s., e = +23m.30s., SS = +27m.21s., eE =
+28m.27s., SSSS = +33m.45s.
Bergen PP = +15m.36s., SS = +28m.21s.
Vienna PP = +15m.46s., PPP = +17m.48s., e = +23m.45s., SS = +28m.8s.,
PKKP = +30m.42s.
Tananarive N = +12m.44s., eN = +22m.1s., N = +34m.9s., E = +38m.6s.
Prague ePP = +15m.21s.? eSS = +28m.9s.
Hamburg iZ = +12m.28s., ePPE = +15m.46s., eSE = +22m.46s.
Scoresby Sund PP = +15m.39s., PS = +23m.37s., PPS = +23m.56s., SS =
+28m.39s.
Zagreb i = +12m.32s., iZ = +12m.37s., eNW = +12m.47s., eZ = +12m.54s.,
iPP = +15m.47s., e = +22m.51s., e = +23m.3s., ePS = +23m.42s., eNE =
+23m.55s., eSS = +28m.38s., eSSSS = +35m.21s.?
Cheb ePP = +15m.48s.
Jena iP = +12m.33s., ePPEN = +15m.45s., iPPZ = +15m.48s., iSE = +22m.53s.,
iSN = +22m.55s., eN = +28m.21s., eE = +29m.21s.
Göttingen iP_cPNZ = +12m.34s., ePP = +15m.53s., eSSSEN = +28m.39s.
Triest PP? = +15m.58s., i = +22m.56s., iPS = +24m.13s.
Stuttgart iPZ = +13m.26s., iPP = +16m.6s., ePPP = +17m.57s., ePPS =
+24m.33s., eSS = +28m.57s., eSSS = +33m.21s.
De Bilt iPPZ = +16m.10s., eE = +30m.13s.
Strasbourg eZ = +14m.1s., eN = +14m.22s., ePP = +16m.12s., eZ = +17m.4s.,
ePPP = +18m.19s., e = +19m.17s. = PPPP - 2s., eSKS = +23m.1s.,
iSKKS = +23m.29s.
Zurich ePP = +16m.5s.
Uccle iZ = +12m.52s., iPP = +16m.16s., iE = +23m.20s., iN = +23m.22s. and
+23m.56s., iSSN = +29m.55s.
Basle ePP = +16m.18s., e = +29m.43s.
Durham PP = +16m.21s., S = +23m.37s.
Edinburgh i = +16m.23s., +23m.35s., +24m.18s., +25m.2s., +29m.38s.,
+34m.49s., and +36m.41s.
Besançon ePP = +16m.27s.
Seattle e = +24m.26s. = PS - 3s.
Kew iPP = +16m.35s., eSKSEN = +23m.25s., eSKKSEN = +23m.32s., iSPZ =
+24m.53s., iSSN = +30m.9s., iSSE = +30m.49s., eSSSEN = +35m.5s.
Bidston iPP = +16m.32s., eSKS = +23m.27s., eSKKS = +23m.36s., iSS =
+30m.6s., eSSS = +34m.37s.
Paris PP = +16m.36s., SS = +30m.13s.
Oxford iPP = +16m.34s., i = +25m.23s.
Rathfarnham Castle e = +13m.21s., i = +16m.36s., SKS = +23m.19s., PS =
+25m.9s.
Jersey PP = +16m.52s., S? = +25m.8s., ? = +30m.23s., ? = +32m.51s.
Ukiah eSKS = +23m.47s., eSKKS = +24m.11s., eS = +24m.41s., ePS =
+25m.33s., ePPS = +25m.52s., e = +39m.3s.
Berkeley eE = +16m.15s., eZ = +16m.24s.
Branner ePE = +13m.25s., eE = +24m.2s.
Ivigtut SS = +32m.3s.
Algiers PP = +17m.17s., SKS = +24m.1s., SS? = +31m.21s.?
Bozeman ePP = +17m.28s., e = +17m.40s., e = +24m.48s.

Continued on next page.

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Tinemaha eZ = +16m.40s.
 Santa Barbara eZ = +16m.3s.
 Toledo PP = +17m.44s., SKS = +24m.13s.
 Haiwee eENZ = +16m.42s.
 Pasadena iZ = +16m.49s., iPPZ = +17m.44s., iZ = +18m.19s., eSKKSE = +25m.4s., iSZ = +25m.20s., ePSZ = +26m.38s., iScSPZ = +27m.4s., iPKPPKZ = +38m.12s.
 Almeria PP = +17m.54s.
 Riverside eZ = +16m.50s.
 La Jolla ePPZ = +17m.58s.
 San Fernando SKS = +24m.36s., SS = +32m.42s.
 Tucson e = +17m.19s., ePP = +18m.32s., eS = +26m.13s., ePS = +27m.46s., eSS = +33m.45s., eSSS = +37m.39s., e = +46m.51s.
 Chicago e = +19m.26s., ePS = +28m.56s., eSS = +34m.57s., e = +35m.25s., e = +48m.46s.
 Ottawa e = +34m.45s.
 Ann Arbor eN = +45m.15s.
 Toronto eE = +19m.6s. and +28m.28s.
 Cape Town +39m.0s.
 Florissant ePKPNZ = +18m.18s., iPP = +19m.18s., iPPPNZ = +19m.31s., iNZ = +20m.4s., iPPPNZ = +21m.49s., iPPPNZ = +23m.42s., iSKSE = +25m.12s., iSKKSEN = +26m.8s., eSN = +26m.44s., eSPN = +28m.15s., iSPNZ = +28m.20s., iSSPZ = +28m.44s., iPPSNZ = +29m.3s., ePPSNZ = +30m.8s., iSSSEN = +35m.8s., eSSSEN = +39m.33s.
 St. Louis ePPPE = +21m.50s., iSKKSE = +26m.15s., eSSPE = +28m.47s., ePPSE = +29m.8s., eSSE = +35m.12s.
 East Machias e = +23m.31s., ePS = +28m.55s.
 Oak Ridge ePPZ = +19m.40s., ePPPZ = +23m.46s., eE = iN = +29m.16s., eNZ = +30m.20s., iZ = +30m.40s.
 Pennsylvania e = +24m.0s.
 Philadelphia ePPP = +22m.15s., iPS = +29m.38s., eSS = +35m.33s.
 Georgetown ePP = +19m.46s., iPS = +29m.30s.
 Columbia ePSKS = +29m.57s., ePS = +30m.2s., eSS = +36m.45s.
 Dakar ePP = +20m.58s., eSKSP = +31m.32s.
 San Juan ePP = +22m.6s., e = +22m.55s., e = +24m.1s., eSS = +40m.24s., e = +41m.21s., eSSS = +45m.52s.
 Huancayo ePP = +24m.24s., ePPP = +28m.21s., eSSS = +43m.51s., e = +48m.2s., eSSS = +50m.49s., e = +65m.55s.
 Rio de Janeiro ePPE = +24m.52s., ePPN = +24m.58s.
 La Paz iPKP,E = +21m.10s., iPPZ = +25m.5s., iN = +26m.14s., SKS = +27m.3s., iPPPN = +28m.7s., iN = +29m.18s., iZ = +29m.33s., iSKSP = +35m.35s., SSE = +46m.5s., SSN = +46m.21s., SSSE = +50m.26s., SSN = +50m.41s., LqE = +74m.4s.
 Long waves were also recorded at Reykjavik, La Plata, Bagnères, Czernowitz, and Grozny.

Aug. 22d. 11h. 9m. 22s. Epicentre 22°·3N. 121°·3E. (as at 6h.).

R.2.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	2.8	4	0 41k	+ 1	1 20	+ 8	1.5	1.6
Hong Kong	6.6	271	1 29	- 5	2 48	0	3.0	4.0
Manila	7.7	183	1 30	-19	3 30	+14	—	—
Zi-ka-wei	z. 8.9	0	e 2 1	- 5	3 47	+ 1	—	—
Nanking	10.0	348	2 28	+ 7	4 48	+35	5.4	5.7
Phu-Lien	13.7	266	e 3 8	- 3	—	—	9.6	—
Hukuoka B	13.9	33	e 3 17	+ 3	e 6 21	+32	—	—
Husan	14.5	26	3 24	+ 2	e 6 12	+ 9	e 8.4	—
Taikyu	15.1	24	3 31	+ 1	e 6 24	+ 7	e 8.0	—
Zinsen	N. 15.9	15	e 3 40	0	e 6 41	+ 5	—	—
Keizyo	16.1	17	e 3 43	0	e 6 46	+ 5	e 9.1	—
Sumoto	17.0	42	3 57	+ 3	e 7 34	+32	—	—
Kobe	17.4	41	e 4 2a	+ 5	—	—	—	—
Chiufeng	18.4	347	e 4 4	- 7	i 7 37	+ 4	9.1	10.6
Nagoya	18.8	43	e 4 19	+ 3	5 22	?	—	5.7
Vladivostok	22.7	20	i 4 55	- 3	i 9 4	+ 5	i 12.2	19.0
Mizusawa	23.9	40	5 9	0	5 37	PPPP	—	—
Semipalatinsk	42.6	322	e 7 52	- 1	e 14 11	- 4	—	—
Frunse	43.7	309	e 8 7	+ 5	—	—	—	—
Bombay	45.3	274	—	—	e 14 38†	-17	—	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Tashkent	47.3	307	e 9 14	+43	e 15 18	- 5	23.6	26.0
Sverdlovsk	55.6	325	i 9 34	+ 1	i 17 17	0	25.6	30.3
Tiflis	65.6	307	e 10 38	- 4	19 27	0	38.1	—
Moscow	68.2	322	10 59	0	e 19 49	-10	35.1	48.6
Pulkovo	71.3	328	11 14	- 5	20 28	- 9	38.6	43.3
Simferopol	72.6	312	e 11 23	- 3	—	—	—	—
Yalta	72.6	311	e 11 24	- 2	—	—	—	—
Sebastopol	73.0	312	e 11 31	+ 2	—	—	—	—
Ksara	74.2	300	e 11 45	+ 9	e 21 25	+14	—	—
Copenhagen	81.7	327	12 15	- 2	22 26	- 8	44.6	—
Stuttgart	86.8	322	e 12 47	+ 5	—	—	e 46.6	—
Strasbourg	87.7	323	e 12 46	0	—	—	e 53.6	—
Edinburgh	88.8	332	e 11 53	-59	—	—	e 44.6	56.6

Additional readings:—

Hong Kong ? = +1m.37s.

Zi-ka-wei iZ = +4m.29s. and +4m.58s., iE = +5m.11s., iZ = +5m.21s., iE = +5m.45s. and +6m.9s., iZ = +6m.33s. and +8m.23s.

Phu-Lien eN = +7m.1s., i = +8m.5s.

Tiflis eZ = +19m.52s.

Stuttgart e = +40m.38s.?

Long waves were also recorded at Scoresby Sund, Kew, Rathfarnham Castle, Paris, Uccle, Hamburg, and De Bilt.

Aug. 22d. Readings also at 2h. (near Trieste), 3h. (Tacubaya and near Wellington), 5h. (Fresno and Tucson), 8h. (Strasbourg), 9h. (Christchurch), 12h. (Tacubaya), 13h. (Merida, Puebla, Tacubaya, Tucson, La Jolla, Pasadena, Riverside, Mount Wilson, and Tinemaha), 14h. (near Manila), 17h. (Andijan), 18h. (Tacubaya).

Aug. 23d. 20h. 46m. 2s. Epicentre 3°·1S. 67°·0E.

N.3.

A = +.3902, B = +.9192, C = -.0541; δ = +11;
D = +.921, E = -.391; G = -.021, H = -.050, K = -.999.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Colombo	16.3	52	4 51	+66	6 51	+ 6	—	9.2
Kodaikanal	E. 16.9	37	i 3 51	- 2	i 7 5	+ 6	8.1	10.0
Bombay	22.7	13	e 4 58?	0	i 9 10	+11	—	—
Hyderabad	23.4	28	5 7	+ 2	9 26	+14	11.4	13.9
Tananarive	24.7	230	10 1	S	(10 1)	+25	11.8	14.3
Agra	E. 32.0	18	—	—	e 11 1	-34	—	—
Calcutta	N. 33.0	37	e 8 6	?	—	—	—	—
Batavia	39.8	95	i 7 48	+18	10 9?	?	—	—
Tchimkent	45.5	2	e 8 19	+ 2	—	—	—	—
Frunse	46.5	8	e 8 23	- 2	—	—	—	—
Ksara	47.1	323	e 8 38	+ 9	e 15 46?	+26	—	—
Tiflis	49.1	337	e 8 48	+ 4	e 16 2	+14	e 22.5	—
Yalta	55.9	332	e 9 40	+ 5	—	—	—	—
Simferopol	56.3	332	e 9 35	- 3	—	—	—	—
Sebastopol	56.3	331	e 9 43	+ 5	—	—	—	—
Sverdlovsk	60.2	356	i 10 8	+ 2	18 19	0	27.0	—
Chiufeng	62.2	40	e 10 20	0	18 43	- 2	—	—
Vienna	z. 67.6	326	e 10 56	0	—	—	—	—
Pulkovo	69.1	341	11 7	+ 2	20 10	0	—	—
Chur	70.9	322	e 11 18	+ 2	—	—	—	—
Zurich	71.7	322	e 11 24	+ 3	—	—	—	—
Stuttgart	71.9	324	e 11 26	+ 4	e 20 47	+ 3	e 36.0	—
Basle	72.4	322	e 11 9	-16	—	—	—	—
Strasbourg	72.7	324	i 11 29 _a	+ 2	e 20 57	+ 4	e 34.0	—
Copenhagen	73.6	332	11 36 _a	+ 4	21 4	0	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Vladivostok	74.2	44	11 33	- 3	21 3	- 8	—	—
De Bilt	75.7	326	e 11 34	-10	—	—	e 36.0	—
Paris	z. 76.0	321	e 11 50	+ 4	—	—	—	—
Granada	76.6	309	e 8 58?	?	e 17 58?	PPPP	—	—
Rio de Janeiro	107.3	246	e 13 58?	-20	—	—	—	—
Lick	144.9	12	e 19 39	[+ 5]	—	—	—	—
Tinemaha	145.7	7	i 19 41	[+ 6]	—	—	—	—
Haiwee	146.7	6	i 19 44	[+ 7]	—	—	—	—
Santa Barbara	148.0	10	e 19 48	[+ 9]	—	—	—	—
Mount Wilson	z. 148.5	7	i 19 46	[+ 6]	—	—	—	—
Pasadena	z. 148.6	7	i 19 47	[+ 7]	—	—	—	—
Riverside	z. 148.8	6	e 19 46	[+ 6]	—	—	—	—
La Jolla	z. 150.0	6	e 19 50	[+ 8]	—	—	—	—

Additional readings:—

Tananarive S = +11m.4s.

Batavia SE? = +8m.39s.

Tiflis eN = +11m.36s. = PPPP + 7s. and +20m.50s. = SSSS + 13s.

Stuttgart e = +14m.52s.

Lick eEN = +19m.42s.

Tinemaha eN = +21m.13s.

Mount Wilson iZ = +23m.12s. = PKS - 13s.

Pasadena iZ = +23m.17s. = PKS - 8s.

Long waves were also recorded at Baku and Hong Kong.

Aug. 23d. 21h. 12m. 17s. Epecentre 6°·1N. 94°·7E. N.1-

A = -·0815, B = +·9910, C = +·1063; $\delta = +2$;
D = +·997, E = +·082; G = -·008, H = +·106, K = -·994.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Medan	4.7	121	i 1 1	- 6	—	—	—	—
Colombo	14.8	275	3 22	- 4	5 49	-21	7.2	—
Batavia	17.2	135	i 4 0	+ 3	i 7 16	+10	—	—
Calcutta	17.5	340	4 9	+ 9	7 37	+24	9.0	—
Kodaikanal	17.6	285	i 4 4	+ 2	i 7 29	+14	—	10.3
Malabar	18.5	137	4 7	- 6	i 7 23	-13	—	—
Phu-Lien	18.7	37	i 4 22 _a	+ 7	i 7 57	+17	9.7	12.8
Hyderabad	19.5	306	4 27	+ 3	8 11	+15	10.1	16.1
Bombay	24.8	302	i 5 18	0	i 9 48	+11	12.7	15.0
Hong Kong	24.8	46	5 19	+ 1	9 43	+ 6	12.4	16.5
Agra	26.3	325	5 38	+ 6	i 10 21	+18	—	14.4
Manila	27.2	69	i 5 39 _a	- 1	10 9	- 9	12.3	—
Dehra Dun	28.8	329	6 13	+19	11 23	+38	14.9	17.7
Kosyun	29.8	54	6 6	+ 3	—	—	—	—
Tainan	29.8	53	6 5	+ 2	—	—	—	—
Taito	30.4	53	6 13	+ 4	—	—	—	—
Arisan	30.5	53	6 13 _a	+ 4	11 13	+ 1	—	—
Taityu	30.8	52	6 14	+ 2	—	—	—	—
Karenko	31.4	52	6 22	+ 5	—	—	—	—
Taihoku	31.9	52	6 27 _a	+ 5	11 38	+ 4	16.2	21.9
Giran	31.9	52	6 22	0	—	—	—	—
Isigakizima	33.6	53	6 38	+ 1	—	—	—	—
Nanking	34.3	37	i 6 45 _a	+ 2	12 14	+ 3	18.2	22.5
Zi-ka-wei	35.4	41	6 53 _k	0	12 29	+ 2	19.7	23.4
Naha	37.3	52	7 13	+ 4	12 58	+ 2	—	—
Chiufeng	39.0	25	i 7 26 _a	+ 2	i 13 26	+ 5	19.5	—
Palau	39.5	85	i 7 26	- 2	—	—	—	—
Nake	39.7	51	7 29 _a	0	13 31	- 1	—	—
Andijan	40.0	333	7 28	- 4	13 36	0	—	—
Dairen	40.8	32	7 38	- 1	13 56	+ 7	—	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Frunse	40.9	337	7 40	0	i 13 54	+ 4	24.2	—
Samarkand	41.8	326	e 7 53	+ 6	14 8	+ 5	—	—
Tashkent	41.9	331	i 7 47	- 1	i 14 10	+ 5	20.7	29.7
Kagosima	42.1	48	7 50	+ 1	—	—	—	—
Nagasaki	42.2	46	7 51 _a	+ 1	14 12	+ 3	—	—
Unzendake	42.4	46	8 0	+ 8	—	—	—	—
Yingkow	42.4	32	7 10	-42	—	—	—	—
Ituhara	42.5	44	7 54	+ 1	—	—	—	—
Tchimkent	42.5	332	7 50	- 3	14 17	+ 4	—	—
Zinsen	42.7	37	7 52	- 2	i 14 20	+ 4	e 22.3	28.8
Saga	42.7	45	8 5	+11	—	—	—	—
Kumamoto	42.8	46	7 55 _a	0	—	—	—	—
Husan	42.9	42	7 56 _a	0	14 17	- 2	20.8	—
Miyazaki	42.9	47	7 55 _a	- 1	14 0	-19	—	—
Hukuoka	43.0	45	8 0	+ 3	e 14 30	+ 9	22.0	—
Hukuoka B	43.0	45	7 57	0	e 14 20	- 1	20.9	26.0
Keizyo	43.0	38	7 57 _a	0	14 21	0	21.2	28.3
Taikyu	43.0	41	i 7 57 _a	0	i 14 25	+ 4	20.9	30.1
Perth	43.1	153	7 38	-20	—	—	17.7	18.2
Heizyo	43.2	35	8 1	+ 3	14 28	+ 4	e 21.0	28.3
Ooita	43.7	45	8 0	- 2	—	—	—	—
Simidu	44.4	48	8 7 _a	- 1	14 43	+ 2	—	—
Hamada	44.8	45	8 11	0	14 47	0	—	—
Hirosima	44.8	45	8 11	0	—	—	—	—
Matuyama	44.8	47	8 10 _a	- 1	—	—	—	—
Koti	45.2	47	8 15 _a	+ 1	14 54	0	—	—
Muroto	45.6	48	8 18	0	—	—	—	—
Tadotu	45.7	47	8 19 _a	+ 1	—	—	—	—
Semipalatinsk	45.9	347	i 8 20	0	i 15 4	+ 1	17.7	—
Okayama	46.1	47	8 28	+ 7	—	—	—	—
Tokusima	46.2	47	8 24	+ 2	—	—	—	—
Sumoto	46.6	47	8 25 _a	0	15 14	+ 1	e 23.4	31.3
Wakayama	46.7	47	8 26 _a	0	15 15	+ 1	—	—
Siomisaki	46.8	48	8 25 _a	- 2	15 16	0	—	—
Kobe	47.0	48	8 28 _a	- 1	e 15 15	- 4	—	26.1
Toyooka	47.1	45	i 8 27	- 2	15 22	+ 2	25.2	32.1
Yagi	47.3	48	8 34	+ 3	—	—	—	—
Miyadu	47.4	45	8 31	- 1	—	—	—	—
Kyoto	47.5	48	8 33	+ 1	15 27	+ 1	—	—
Hikone	48.0	48	8 34	- 2	15 31	- 2	—	—
Kameyama	48.0	48	8 36 _a	0	15 36	+ 3	—	—
Tu	48.0	48	8 38	+ 2	15 43	+10	—	—
Ibukisan	48.2	47	8 38	0	—	—	—	—
Gihu	48.4	47	8 40 _a	+ 1	15 40	+ 2	—	—
Nagoya	48.5	47	8 40	0	—	—	e 19.8	28.2
Hamamatu	48.8	48	8 41	- 1	15 44	0	—	—
Kanazawa	48.9	45	8 37	- 6	15 38	- 7	—	—
Omaesaki	49.2	48	8 25	-20	—	—	—	—
Husiki	49.3	45	8 51	+ 5	15 56	+ 5	—	—
Iida	49.3	47	8 47	+ 1	—	—	—	—
Toyama	49.3	45	8 48	+ 2	—	—	—	—
Vladivostok	49.4	36	8 48	+ 1	e 15 52	0	22.8	32.5
Wazima	49.5	44	8 47 _a	0	15 56	+ 2	—	—
Matumoto	49.7	46	8 51	+ 2	—	—	—	—
Titizima	49.7	59	8 48	- 1	15 51	- 6	—	—
Hatidyozima	49.8	50	8 48	- 2	—	—	—	—
Numadu	49.8	48	8 50	0	—	—	—	—
Kohu	49.9	48	8 50	- 1	16 10	+11	—	—
Misima	49.9	48	8 50	- 1	15 58	- 1	—	—
Hunatu	50.0	48	8 50	- 1	16 0	- 1	—	—
Ito	50.0	48	8 52	+ 1	—	—	—	—

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	Δ °	Az. °	P. m. s.	O - C. s.	S. m. s.	O - C. s.	L. m.	M. m.
Nagano	50.1	45	8 53	+ 1	—	—	—	—
Oiwake	50.2	46	8 54	+ 1	16 14	+10	—	—
Takada	50.3	45	8 55	+ 1	16 9	+ 4	—	—
Mera	50.5	48	8 53	- 2	—	—	—	—
Maebasi	50.6	46	8 55	- 1	16 15	+ 6	—	—
Yokohama	50.6	48	8 54 _a	- 2	—	—	—	—
Kumagaya	50.7	48	8 52	- 5	16 21	+10	—	—
Tokyo	50.8	48	8 58	+ 1	—	—	—	—
Niigata	51.2	45	9 2	+ 2	—	—	—	—
Tukubasan	51.2	46	8 58 _a	- 2	—	—	—	—
Kakioka	51.3	46	8 59 _a	- 2	16 15	- 4	—	—
Mito	51.6	46	9 3 _a	0	—	—	—	—
Tyosi	51.6	48	9 3 _a	0	16 19	- 4	—	—
Aidu	51.8	45	8 50 _a	-15	16 6	-19	—	—
Hukusima	52.1	45	9 7 _a	0	16 29	- 1	—	—
Yamagata	52.3	45	9 9	0	—	—	—	—
Baku	52.7	317	i 9 15	+ 3	i 16 44	+ 6	—	—
Akita	52.8	43	9 27	+15	—	—	—	—
Tananarive	52.8	240	i 9 4	- 8	i 16 40	+ 1	26.3	29.0
Isinomaki	53.0	45	9 13	- 1	—	—	—	—
Mizusawa	53.2	44	i 9 16	+ 1	i 16 45	0	21.7	—
Morioka	53.5	44	9 19 _a	+ 1	16 49	0	—	—
Aomori	53.7	42	9 20	+ 1	16 55	+ 3	—	—
Hakodate	54.2	41	9 36	+13	—	—	—	—
Muroran	54.6	40	9 23	- 3	—	—	—	—
Sapporo	55.2	40	9 30 _a	0	17 15	+ 3	—	—
Urakawa	55.7	41	9 9	-25	16 52	-27	—	—
Haboro	56.0	37	10 10	+34	—	—	—	—
Asahigawa	56.1	38	9 42	+ 5	—	—	—	—
Erevan	56.3	314	—	—	17 47	+20	34.7	—
Obihiro	56.3	40	9 36	- 2	17 14	-13	—	—
Tiflis	56.7	316	9 42	+ 1	i 17 33	+ 1	27.4	39.3
Grozny	56.8	319	9 47	+ 5	i 17 26	- 8	33.5	—
Sverdlovsk	57.3	338	i 9 48	+ 3	i 17 42	+ 2	30.4	32.9
Nemuro	58.0	41	9 49	- 1	17 49	0	—	—
Adelaide	58.2	138	i 9 43	- 9	i 17 37	-15	e 23.9	31.3
Platigorsk	58.8	318	i 9 57	+ 1	i 17 58	- 2	—	—
Sikka	59.3	34	12 36	PP	—	—	—	—
Ksara	60.9	304	i 10 11 _a	0	i 18 32	+ 4	—	—
Sotchi	60.9	318	10 10	- 1	i 18 25	- 3	35.4	—
Helwan	63.9	300	e 10 31	0	i 18 43	-23	—	34.0
Melbourne	64.1	137	10 24	- 9	18 53	-16	32.2	41.0
Yalta	65.0	316	i 10 38	- 1	i 19 13	- 7	40.7	—
Simferopol	65.1	317	i 10 39	0	i 19 15	- 6	40.7	—
Sebastopol	65.4	317	10 39	- 2	i 19 17	- 8	38.7	—
Riverview	66.6	130	e 10 32	-17	i 19 20	-20	e 30.0	35.4
Sydney	66.6	130	i 10 55	+ 6	i 19 33	- 7	35.7	45.2
Moscow	66.9	329	i 10 50	- 1	i 19 41	- 2	35.7	42.3
Bucharest	70.5	315	e 11 16	+ 2	20 24	- 3	33.7	41.7
Ozernowitz	E. 71.4	318	e 11 33	+14	20 43?	+ 5	21.5	—
Pulkovo	72.0	331	i 11 20	- 3	20 39	- 6	38.7	42.3
Sofia	72.2	313	e 11 22	- 2	i 20 44	- 3	37.7	43.7
Lemberg	72.9	320	e 11 37	+ 9	e 20 59	+ 3	43.5	—
Belgrade	74.5	314	i 11 35	- 2	i 21 5	- 9	e 38.8	48.4
Vienna	77.7	318	i 11 53 _a	- 3	21 44	- 7	e 36.7	—
Zagreb	77.8	315	e 11 53	- 4	i 21 54	+ 2	e 40.7	—
Upsala	78.2	330	i 11 55	- 3	i 21 46	-10	e 40.7	50.7
Laibach	78.8	315	e 10 49	?	i 20 59	-64	e 34.0	—
Prague	79.1	320	i 12 3	0	i 21 58	- 8	e 35.7	47.7
Triest	79.3	315	i 12 3	- 1	i 21 56	-12	—	49.9
Cheb	80.4	320	i 12 7	- 3	i 22 11	- 9	e 41.7	53.4
Copenhagen	80.6	326	i 12 9	- 2	22 12	-10	—	—
Padova	80.6	315	e 12 12	+ 1	22 10	-12	—	—
Jena	80.9	320	e 12 11	- 2	i 22 15	-10	36.7	47.2
Florence	81.1	313	i 12 13	- 1	i 22 13	-14	—	—

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	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
	°	°	m. s.		s.	m. s.		s.	m.	m.
Göttingen	82.0	322	i 12	16	- 2	i 22	27	-10	—	50.7
Hamburg	82.0	323	i 12	17 _a	- 1	i 22	29	- 8	—	—
Cape Town	82.1	234	i 12	21	+ 2	i 22	21	-17	37.7	42.2
Chur	82.3	316	e 12	17	- 3	e 22	28	-12	—	—
Stuttgart	82.5	318	i 12	19 _a	- 2	i 22	34	- 8	e 39.7	49.2
Zurich	82.9	317	e 12	20 _a	- 3	e 22	35	-11	—	—
Strasbourg	83.4	318	i 12	22 _a	- 3	i 22	43	[- 4]	e 41.7	49.7
Basle	83.6	317	e 12	24	- 2	e 22	44	[- 4]	—	—
Neuchatel	84.0	317	e 12	27	- 1	e 22	48	[- 4]	—	—
Bergen	84.4	331	12	24	- 6	22	49	[- 6]	43.7	—
Besançon	84.7	317	e 12	31	- 1	i 22	55	[- 2]	—	—
De Bilt	84.9	322	i 12	32 _a	- 1	e 22	51	[- 7]	e 43.7	60.0
Christchurch	85.5	134	i 12	43 _a	+ 7	i 22	43	[-20]	37.4	43.1
Uccle	85.5	321	i 12	34 _a	- 2	i 22	54	[- 9]	e 40.7	57.1
Wellington	86.6	131	12	34	- 7	22	47	[-24]	36.7	48.7
Paris	86.9	318	i 12	41 _a	- 2	i 23	14	[+ 1]	45.7	52.7
Algiers	87.7	306	i 12	49	+ 3	i 23	26	- 8	38.7	44.7
Barcelona	87.9	311	12	38	- 9	23	25	[+ 6]	36.2	59.1
Kew	88.3	321	i 12	49 _a	0	e 23	11	[-11]	37.7	50.2
Durham	88.6	325	i 12	50	- 1	23	37	- 6	—	53.7
Bagnères	89.2	313	—	—	—	e 22	45	[-43]	e 36.7	—
Tortosa	89.2	310	i 12	52	- 2	i 23	39	- 9	36.4	37.2
Edinburgh	89.3	326	i 12	54	0	i 23	41	- 8	45.7	57.3
Stonyhurst	89.3	324	i 12	53	- 1	i 23	31	[+ 3]	48.7	62.3
Bidston	89.7	323	i 12	51	- 5	i 23	35	[+ 4]	37.7	50.1
Jersey	89.8	319	12	54	- 2	i 23	19	[-12]	—	—
Rathfarnham Castle	91.6	324	i 13	2	- 3	i 23	42	[0]	37.7	54.7
Almeria	92.0	307	e 12	52	-15	e 23	27	[-17]	e 49.2	—
Granada	92.3	308	i 12	43?	-25	i 23	43?	[- 3]	—	—
Scoresby Sund	92.8	343	i 13	10 _k	0	e 24	7	-15	—	—
Toledo	92.8	311	i 13	8	- 2	i 24	9	{+12}	e 44.0	54.1
Apia	94.9	103	—	—	—	i 24	33	- 8	—	—
San Fernando	95.1	307	e 13	21	0	i 24	24	{+ 9}	—	57.7
College	95.7	22	13	13	-11	24	30	{+10}	e 44.2	—
Honolulu	103.9	66	e 13	59	- 2	e 24	35	[-10]	46.7	—
Sitka	105.0	25	e 14	4	- 2	24	56	[+ 6]	e 46.5	—
Ivigtut	106.8	342	i 18	41	PP	25	16	[+18]	—	—
Seattle	116.5	27	e 19	36	PP	—	—	—	—	—
Ukiah	122.8	34	e 20	29	PP	e 25	36	[-23]	e 57.7	—
Bozeman	123.3	21	e 20	31	PP	—	—	—	e 59.9	—
Berkeley	124.2	35	e 18	51	[- 4]	—	—	—	—	—
Lick	124.9	35	e 18	56	[- 1]	e 26	39	[+34]	—	—
Fresno	126.4	34	e 18	58	[- 2]	—	—	—	—	—
East Machias	126.6	344	e 21	0	PP	—	—	—	e 59.0	—
Tinemaha	127.0	33	i 18	59	[- 2]	—	—	—	—	—
Haiwee	127.8	33	i 19	1	[- 1]	—	—	—	—	—
Ottawa	127.8	351	19	1	[- 1]	29	7	{+59}	55.7	—
Santa Barbara	128.1	36	i 19	2	[- 1]	—	—	—	—	—
Vermont	128.3	348	e 18	55	[- 9]	e 27	55	{-16}	e 53.7	—
Mount Wilson	z. 129.2	35	18	54	[-11]	i 32	12	?	—	—
Pasadena	129.2	35	18	59	[- 6]	—	—	—	e 56.7	—
Riverside	z. 129.7	35	e 18	59	[- 7]	e 32	8	?	—	—
Oak Ridge	129.8	346	i 19	4	[- 2]	i 38	50	SS	e 67.7	—
Weston	129.9	346	i 19	5	[- 2]	—	—	—	—	—
Toronto	130.0	355	i 21	17	PP	i 38	50	SS	60.7	—
La Jolla	z 130.6	36	e 19	1	[- 7]	—	—	—	—	—
Ann Arbor	131.6	358	e 21	25	PP	e 28	25	{- 7}	e 59.5	—
Des Moines	131.7	7	i 22	31	PKS	—	—	—	—	—
Chicago	132.1	2	e 19	13	[+ 3]	—	—	—	61.1	—
Pennsylvania	132.6	353	21	27	PP	39	13	SS	e 77.2	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Georgetown	134.4	351	19 15	[+ 1]	—	—	—	—
Tucson	134.6	31	e 19 10	[- 4]	—	—	64.1	—
Florissant	134.9	5	i 19 13	[- 2]	e 25 50	[- 43]	68.2	81.9
St. Louis	E. 135.0	5	i 19 17	[+ 2]	e 26 19	[- 14]	—	—
Columbia	139.3	355	e 19 13	[- 7]	—	—	e 63.2	—
La Plata	141.7	218	22 31	PP	—	—	64.6	—
San Juan	149.1	322	e 19 36	[- 4]	e 33 30	SKSP	e 69.4	—
Santiago	149.5	204	—	—	e 37 43?	?	—	—
Tacubaya	151.1	27	e 19 42	[- 1]	—	—	—	—
La Paz	160.2	237	19 56	[+ 2]	26 43	SKS	76.4	85.6
Huancayo	168.5	238	e 20 0	[- 2]	e 31 35	{-29}	e 70.7	—

Additional readings :—

Malabar iP = +4m.11s.
Bombay PPEN = +5m.54s., SSEN = +10m.56s.
Hong Kong PE = +5m.23s., PP = +5m.47s., ? = +8m.33s., SS = +10m.13s.
Agra iN = +10m.8s.
Taihoku iE = +7m.35s.
Nanking iPP = +8m.4s., SSE = +15m.0s., SSZ = +15m.14s., S_cSZ = +16m.48s.
Zi-ka-wei iZ = +7m.23s., +7m.37s., and +7m.43s., PPZ = +8m.18s., PPPZ = +8m.43s., PPPPZ = +8m.53s., iZ = +10m.39s., +13m.1s., +13m.34s., and +14m.45s., SSZ = +14m.55s., SSSZ = +15m.41s., SSSSZ = +16m.1s., iZ = +17m.11s.
Chiufeng iPP = +9m.1s., iE = +13m.9s., iSSZ = +15m.54s., iS_cSEZ = +17m.30s.
Husan ? = +9m.45s., ? = +17m.54s. = SSS - 1s.
Keizyo iSSE = +17m.46s.
Taikyuu PP = +9m.43s., S_cS? = +17m.51s.
Heizyo i = +17m.55s. = SSS - 9s.
Zinsen iEN = +7m.56s.
Sumoto eEZ = +10m.19s.
Kobe = +8m.31s., PP = +10m.27s., eSE = +15m.17s., eSZ = +15m.21s., eN = +18m.37s. = SSS + 5s., eZ = +20m.15s.
Toyooka PZ = +8m.29s., ePEN = +8m.31s.
Tananarive iE = +9m.6s., SSE = +20m.31s., SSEN = +21m.52s.
Tiflis eP_cPN = +10m.45s., ePPE = +11m.39s., iSKS = +19m.28s., SSN = +22m.11s., eN = +25m.24s.
Adelaide i = +10m.13s., +13m.24s. = PPPP - 6s., +13m.45s., +18m.39s., and +19m.18s.
Piatigorsk i = +19m.39s. = S_cS - 5s.
Ksara iP_cP = +11m.0s., iPS = +19m.1s., S_cS = +19m.59s.
Helwan PPP = +13m.49s.
Melbourne i = +10m.43s., PPT + +14m.28s.
Riverview eN = +10m.36s., iEZ = +10m.41s., iZ = +11m.2s., iEN = +20m.32s. = S_cS - 8s., iN = +23m.48s. = SS - 3s.
Bucharest iPEN = +11m.18s., PPEN = +13m.43s., PPPN = +14m.55s., PSN = +20m.44s., L = +21m.15s., SSE = +24m.28s.
Czernowitz iE = +11m.36s., PPE = +14m.31s.
Sofia iP = +11m.24s., PS = +21m.3s.
Belgrade iP_cPNW = +11m.57s., iPPPNW = +16m.31s.
Vienna P_cP = +12m.15s., PP = +15m.6s., PPP = +16m.54s., SS = +26m.55s.
Zagreb i = +11m.56s., iZ = +12m.3s., iNE = +12m.15s., eNE = +12m.23s., eZ = +12m.40s., iZ = +12m.51s., i = +13m.2s. and +14m.20s., eNE = +14m.42s. and +14m.51s. = PP + 6s., eZ = +14m.54s. and +16m.13s., e = +18m.23s., i = +21m.42s., e = +22m.8s. and +22m.16s., i = +24m.8s., e = +33m.9s.
Upsala SSN = +27m.2s.
Laibach iNE = +11m.31s. and +14m.1s.
Prague eE = +18m.41s.
Triest pP = +13m.18s., sP? = +13m.41s., SP? = +22m.59s., SS = +24m.28s., SS = +27m.25s.
Copenhagen ipP = +12m.31s., e = +17m.19s., +18m.1s. = PPPP - 4s., +18m.43s., eE = +23m.13s., SS = +27m.13s.
Jena iPZ = +12m.12s., iEW = +12m.31s., iNS = +12m.35s., eE = +18m.43s., eZ = +18m.55s., eN = +18m.59s., e = +19m.39s., iN = +22m.33s., iNS = +22m.55s., iE = +23m.13s., iZ = +23m.27s., eN = +27m.15s.
Göttingen iP_cPZ? = +12m.40s., ePPNZ = +15m.43s.
Cape Town = +15m.11s., PPN = +15m.31s., PPE = +15m.36s., PPPE = +17m.20s., +17m.43s., iSN = +22m.23s., P = 22m.55s., eSSE = +27m.11s., eSSNS = +27m.31s., eE = +28m.31s., eE = +32m.41s., eN = +33m.1s.
Stuttgart iZ = +12m.34s., iPPEZ = +12m.41s., ePPEZ = +15m.47s., iSPE = +23m.25s., iNZ = +23m.49s.
Strasbourg ipP = +12m.45s., iPP = +15m.47s., iPS = +23m.33s., iSS = +28m.23s., iSSSS = +34m.20s.
De Bilt ipPZ = +12m.55s., iPPZ = +15m.49s., iZ = +16m.5s., iN = +22m.58s.

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Christchurch iPE = +12m.47s., iPN = +12m.49s., eE = +21m.55s., SEN = +22m.46s., SS = +28m.5s., SSSE = +31m.9s., eE = +32m.17s.
 Uccle ipPZ = +12m.57s., iPPZ = +15m.56s., iEZ = +19m.43s., iSKSN = +23m.1s., iZ = +23m.35s., iPE = +24m.20s., SSE = +29m.41s.
 Wellington pP = +12m.53s., SP? = +13m.18s., i = +13m.53s., PP = +15m.51s., S_cS? = +22m.58s., sS = +23m.19s., i? = +23m.43s., SS = +28m.35s., SSS = +32m.12s.
 Paris PP = +16m.12s., PS = +24m.21s.
 Algiers SKS = +23m.6s., PS = +24m.20s., SS = +29m.23s., SSS = +33m.43s.
 Kew iEZ = +13m.11s., ePPEZ = +16m.37s., eEZ = +20m.1s., iS = +23m.31s., ePSE = +24m.21s., ePPSE = +24m.48s., iPPSZ = +24m.58s., iSSEN = +28m.46s., iEZ = +29m.10s., eE = +30m.10s., iN = +36m.3s.
 Edinburgh i = +13m.17s., +16m.26s. - PP + 6s., i = +20m.51s., +23m.14s., +23m.41s., +24m.7s., +25m.8s., and +29m.47s.
 Stonyhurst i = +13m.15s., iPP = +16m.33s., iS = +23m.40s., iPS = +24m.51s., i = +25m.55s.
 Bidston e = +13m.10s., ePP = +16m.35s., e = +36m.0s.
 Jersey PP = +16m.43s., ? = +17m.43s., ? = +20m.22s., S = +23m.43s.
 Rathfarnham Castle e = +13m.24s., +14m.50s., i = +20m.30s., e = +24m.22s. and +24m.50s., i = +28m.50s.
 Almeria PP = +17m.4s., PS = +23m.56s.
 Scoresby Sund iZ = +13m.34s., e = +16m.37s., iPP = +16m.57s., e = +23m.41s., i = +24m.7s., e = +24m.31s., PS = +25m.11s., PPS = +26m.7s., SS = +30m.33s.
 Toledo PP = +16m.44s., SKS = +24m.35s.
 San Fernando SKS = +23m.23s.
 College PP = +17m.11s., PS = +23m.41s.
 Honolulu ePP = +18m.13s.
 Sitka P = +14m.9s., PP = +18m.21s., e = +24m.34s., e = +27m.28s., PS = +27m.45s., SS = +33m.43s., SSS = +37m.23s.
 Ivigtut e = +26m.7s., PS = +28m.27s., e = +33m.10s. and +33m.31s. = SS - 4s., e = +43m.43s.?
 Seattle ePP = +19m.52s., e = +20m.44s., ePS = +29m.19s., eSS = +35m.37s.
 Ukiah eSKSP = +21m.53s., ePS = +30m.21s., e = +32m.2s.
 Bozeman e = +32m.9s. and +32m.29s., eSS = +37m.20s.
 Berkeley eN = +18m.53s., eE = +18m.55s., eZ = +20m.29s., iEN = +20m.43s. = PP + 5s., eZ = +21m.36s.
 Fresno eN = +20m.57s. = PP + 4s.
 East Machias ePS = +30m.56s., eSS = +38m.8s.
 Tinemaha eZ = +19m.56s., i = +21m.5s. = PP + 8s.
 Haiwee e = +21m.9s. = PP + 6s., iPKSZ = +22m.14s.
 Ottawa PP = +21m.7s., S_cP_cP = +22m.18s., SS = +38m.1s.
 Santa Barbara iZ = +21m.10s. = PP + 5s., iZ = +23m.5s.
 Vermont iP = +21m.12s., SKP = +22m.21s., iSS = +38m.11s., i = +40m.46s.
 Mount Wilson iZ = +18m.59s., eZ = +21m.10s. = PP - 2s., iPKSZ = +22m.18s.
 Pasadena iEZ = +19m.3s., ePPZ = +20m.48s., iZ = +21m.17s. = PP + 5s., eZ = +21m.55s., iPKSEZ = +22m.18s., iE = +22m.27s.
 Riverside iNZ = +19m.5s., eZ = +21m.17s. = PP + 2s., iPKSNZ = +22m.19s.
 Oak Ridge iPPZ = +21m.7s., iSKP = +22m.21s., iNZ = +22m.50s., iN = +41m.5s.
 Weston iPP = +21m.21s., i = +22m.21s.
 Toronto iN = +22m.23s.
 La Jolla eNEZ = +21m.24s., iPKS = +22m.24s.
 Ann Arbor i = +22m.37s. = PKS - 3s., +28m.55s., +31m.37s., and +39m.7s. = SS + 7s., e = +43m.49s. = SSS + 8s.
 Chicago ePP = +21m.52s., iPKS = +22m.52s., ePPS = +32m.42s., e = +38m.43s., eSS = +38m.52s., e = +54m.17s.
 Pennsylvania e = +22m.35s.: readings have been *diminished* by an hour.
 Georgetown pPKP = +19m.35s. = +19m.52s.
 Tucson iPP = +21m.53s., ePKS = +22m.38s., ePPP = +24m.47s., e = +34m.37s., eSS = +40m.23s., e = +59m.43s.
 Florissant ePKPEN = +19m.15s., iPPKPZ = +19m.36s., iPPNZ = +21m.44s., iNZ = +22m.27s., iSKPNZ = +22m.43s., iSKPE = +22m.46s., iPKPEN = +23m.13s., iPPPN = +24m.38s., iPPZ = +24m.46s., eSKKSEN = +28m.12s., eSSE = +39m.39s., eSSN = +39m.42s., ePPSSN = +40m.30s., eSSSN = +45m.10s.
 St. Louis iSKPEN = +22m.48s., iPKPE = +23m.11s., ePPPE = +24m.43s., eSKSE = +27m.7s., eSKKSE = +28m.39s., eSSE = +39m.44s.
 Columbia e = +22m.59s., e = +23m.20s., ePPS = +34m.25s., eSS = +40m.17s.
 San Juan PKP, = +19m.43s., PP = +23m.13s., e = +42m.8s., iSS = +42m.25s., i = +43m.36s., SSS = +48m.5s.
 La Pas PKP, E = +20m.50s., PPN = +24m.23s., iPPPE = +28m.6s., iSKKS = +30m.56s., SKSP = +34m.23s., SSE = +45m.33s., SSSN = +50m.43s.
 Tacubaya iE = +23m.35s. = PP + 8s.
 Huancayo iPKP = +20m.2s., ePP = +24m.43s., ePPP = +28m.46s., eSS = +46m.11s., eSSS = +53m.53s.

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Aug. 23d. Readings also at 0h. (near Santiago), 4h. (Chicago), 5h. (Erevan), 6h. (near Erevan and Tiflis), 8h. (Andijan and near San Javier and near Santiago), 10h. (Ukiah, Mount Wilson, Pasadena, Riverside, Tinemaha, near Ferndale, and near Tiflis), 15h. (Tiflis and near Algiers (2)), 19h. (Calcutta, Phu-Lien, Hong Kong, Chiufeng, Nanking, and Tiflis), 20h. (Sverdlovsk, Tashkent, and Vladivostok), 21h. (Sebastopol, Simferopol, Yalta, Tiflis, and near Wellington), 22h. (Oak Ridge, Sebastopol (2), Simferopol (2), Yalta (2), and near Nagoya), 23h. (near Taihoku).

Aug. 24d. 22h. 21m. 56s. Epicentre 53°·0S. 138°·5E. (as on 1931 Dec. 25d.). X.

$$A = -.4507, B = +.3988, C = -.7986; \quad \delta = -7;$$

$$D = +.663, E = +.749; \quad G = +.598, H = -.529, K = -.602.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Melbourne	15.8	19	i 4 17	+38	i 6 32	- 2	i 7.1	8.5
Adelaide	18.0	0	i 4 1	- 6	e 7 0	-25	—	10.0
Riverview	21.2	30	(i 4 32)	-10	i 4 32	P	e 8.3	13.2
Sydney	21.2	30	e 4 28	-14	8 16	-14	11.1	11.6
Perth	26.7	313	10 4?	S	(10 4?)	- 6	—	13.5
Wellington	26.9	79	5 36	- 1	10 9	- 5	13.3	—
Batavia	53.5	320	9 20	+ 2	—	—	—	—
Colombo	77.6	300	21 54	S	(21 54)	+ 5	—	38.2
Hong Kong	78.3	337	21 49	S	(21 49)	- 8	—	40.1
Cape Town	78.7	227	22 25	PS	—	—	36.1	42.0
Kodaikanal	E. 81.7	299	—	—	e 22 4?	-30	—	—
Nanking	86.8	343	e 12 48	+ 6	e 23 10	[- 2]	e 38.9	—
Calcutta	N. 87.1	315	—	—	i 23 4?	-24	—	55.2
Bombay	N. 91.4	300	—	—	e 24 4	- 5	—	48.8
Chiufeng	95.1	344	e 12 30	-51	i 23 54	[- 8]	e 43.5	51.9
Agra	E. 95.8	309	e 15 21	?	i 24 39	-10	—	—
Vladivostok	96.3	356	e 13 23	- 3	e 24 43	-11	i 38.1	63.8
La Paz	N. 106.8	154	25 4	S	(25 4)	[+ 6]	51.1	60.0
Huancayo	108.8	145	e 19 4	[+50]	—	—	e 46.1	—
Tashkent	111.5	311	e 18 48	[+25]	25 39	[+19]	e 49.1	61.9
Baku	120.4	298	e 20 27	PP	—	—	51.1	65.3
Ksara	123.6	283	e 19 30	[+36]	—	—	—	—
Tiflis	124.1	295	19 14	[+19]	—	—	51.6	66.0
Mount Wilson	z. 124.4	78	i 18 57	[+ 1]	—	—	—	—
Grozny	124.7	298	e 19 10	[+14]	—	—	—	—
Tinemaha	z. 126.3	76	e 18 57	[- 3]	—	—	—	—
Sverdlovsk	126.8	318	e 19 7	[+ 6]	38 36	SS	53.1	71.3
Tucson	127.3	85	e 19 3	[+ 1]	e 26 40	[+28]	e 58.6	—
Sitka	130.4	46	e 19 46	[+38]	—	—	—	—
Yalta	131.8	292	e 22 42	PKS	—	—	—	—
Simferopol	132.1	293	e 22 44	PKS	—	—	—	—
Moscow	136.4	306	e 23 10	PKS	—	—	e 63.1	77.1
San Juan	140.5	143	e 19 36	[+14]	—	—	e 67.6	—
Pulkovo	141.7	309	e 21 18	?	29 25	{- 9}	70.1	79.0
Zagreb	143.0	282	e 20 4?	[+37]	—	—	e 83.1	—
Florissant	144.0	94	e 19 40	[+ 9]	e 30 49	{+61}	e 56.4	71.9
Triest	144.2	282	e 20 6	[+34]	e 33 30	SKSP?	e 72.7	88.2
Cheb	147.2	287	e 20 4?	[+27]	e 28 4?	?	e 77.1	93.6
Zurich	148.1	280	e 19 45	[+ 6]	—	—	—	—
Stuttgart	148.4	283	e 19 44	[+ 5]	—	—	e 71.1	98.1
Basle	148.8	280	e 19 47	[+ 7]	—	—	—	—
Strasbourg	z. 149.1	282	e 19 46	[+ 6]	—	—	e 76.1	—
Copenhagen	149.2	297	19 40	[0]	—	—	—	—
Granada	149.4	255	e 20 4	[+23]	—	—	70.1	—
Hamburg	149.9	292	e 19 51	[+ 9]	—	—	e 75.1	90.1

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.
San Fernando	150.4	251	e 21 17	?	—	—	74.1	86.6
De Bilt	152.1	288	e 20 10	{+ 2}	43 10	SS	e 74.1	100.4
Uccle	152.1	284	e 20 4	{- 4}	e 43 12	SS	e 63.1	—
Paris	152.4	279	e 20 25	{+15}	—	—	79.1	91.1
Philadelphia	153.7	108	e 19 54	[+ 7]	—	—	64.6	—
Kew	155.1	284	e 20 32	{+10}	—	—	e 77.1	93.7
Ottawa	156.7	95	e 21 4?	{+35}	e 49 4?	SSS	63.1	—
Edinburgh	157.8	293	—	—	45 13	?	76.1	94.1
Ivigtut	171.0	22	32 4?	?	—	—	80.1	—

Additional readings :—

Adelaide e = +5m.48s.

Perth i = +11m.39s.

Wellington pP = +6m.6s., PP? = +7m.33s., i = +8m.14s., PcP = +8m.42s., SS = +10m.59s., i = +11m.24s. = SSSS + 3s., +11m.42s., +11m.54s., and +14m.4s., ScS = +16m.6s., sScS = +17m.2s.

Batavia iN = +12m.28s. = PPPP + 0s., iE = +14m.40s., iEN = +20m.52s.

Hong Kong S? = +26m.41s. = SS - 6s., ? = +32m.14s.

Cape Town E = +22m.58s., N = +23m.2s., e = +27m.26s., e = +27m.36s.

Vladivostok PP = +17m.22s., PPP = +20m.1s., PS = +26m.41s., SS = +32m.34s

Huancayo e = +28m.54s., +29m.28s., and +34m.46s.

Tashkent PP = +19m.57s., PS = +29m.31s.

Baku PS = +30m.11s., PPS = +32m.8s.

Ksara epP = +20m.8s.

Tifis eZ = +21m.0s.

Tinemaha eZ = +19m.2s.

Tucson e = +29m.16s., e = +52m.34s.

Sitka e = +20m.16s.

San Juan e = +21m.11s., eSKP = +22m.27s. = PP + 3s., eSSS = +46m.10s.

Pulkovo PP = +22m.55s., e = +25m.8s., PPS = +36m.20s., SS = +41m.22s.

Florissant eZ = +22m.17s. and +27m.59s. = PPPP + 7s.

Triest e = +20m.24s., i = +20m.34s.

Stuttgart e = +20m.16s., e = +23m.16s. = PP + 5s.

Strasbourg ipPKP = +20m.28s., ePP = +23m.43s., epPP = +24m.14s., ePPP = +27m.11s., eSS = +42m.34s.

Copenhagen +20m.31s., PP = +23m.37s., SS = +42m.40s.

Philadelphia e = +20m.25s., eSKP = +23m.28s., ePP = +24m.16s., eSS = +43m.19s., eSSS = +49m.4s.

Kew ePPZ = +25m.6s.

Long waves were also recorded at Apia, Rio de Janeiro, La Plata, Tananarive, Phu-Lien, Hyderabad, College, Ukiah, Honolulu, Scoresby Sund, Rathfarnham Castle, Tortosa, Bidston, Stonyhurst, and Prague.

Aug. 24d. Readings also at 2h. (Hong Kong and Medan), 5h. (Tifis), 6h. (Oak Ridge), 7h. (Zagreb and near Santiago (2)), 11h. (Christchurch, Wellington, and near Grozny), 13h. (Frunse and near Andijan), 15h. (Phu-Lien), 18h. (Florissant), 19h. (Oak Ridge), 21h. (near Sumoto), 22h. (Strasbourg (2)).

Aug. 25d. 5h. 58m. 31s. Epicentre 24°·0N. 110°·2W. (as on 1d.). X.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tucson	8.3	356	e 1 51	- 7	e 3 23	- 8	3.6	—
Pasadena	12.2	327	e 2 53	+ 2	e 5 48	+40	—	—
Mount Wilson	E. 12.3	328	e 2 53	+ 1	—	—	—	—
Haiwee	13.9	333	e 3 14	0	—	—	—	—
Tinemaha	14.8	334	i 3 27	+ 1	—	—	—	—
St. Louis	E. 22.3	44	e 5 19	+25	—	—	e 11.4	—
Florissant	22.3	44	—	—	e 9 18	+26	e 11.6	—

Additional readings :—

St. Louis iE = +5m.34s.

Long waves were also recorded at Ukiah, Bozeman, Chicago, Philadelphia, Toronto, East Machias, Ottawa, Scoresby Sund, and Paris.

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Aug. 25d. 18h. 43m. 5s. Epicentre 19°0S. 177°0W. (as on 1930 April 30d.). X.

$$A = -.9442, B = -.0495, C = -.3256; \quad \delta = -2;$$

$$D = -.052, E = +.999; \quad G = +.325, H = +.017, K = -.946.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	7.3	45	e 1 49	+ 5	e 3 9	+ 3	—	—
Melbourne	38.5	232	—	—	e 17 21	SS	28.9	—
Adelaide	42.2	238	—	—	e 19 21	?	e 21.6	24.2
La Jolla	z. 77.1	48	e 11 48	- 5	—	—	—	—
Pasadena	z. 77.2	47	i 11 51	- 2	—	—	—	—
Mount Wilson	z. 77.3	47	i 11 52	- 2	—	—	—	—
Riverside	z. 77.6	47	i 11 53	- 2	—	—	—	—
Vladivostok	77.8	324	e 12 10	+13	e 22 30	+38	41.3	48.0
Haiwee	78.4	46	e 12 0	+ 1	—	—	—	—
Tinemaha	78.7	45	i 12 1	0	—	—	—	—
Tucson	81.4	51	e 12 13	- 2	e 22 19	-12	e 38.4	—
Chiufeng	85.7	316	i 11 57 _a	-40	e 23 26	+11	—	—
Huancayo	96.8	106	—	—	e 24 3	[- 7]	e 44.9	—
Philadelphia	111.0	54	—	—	e 24 55	[-23]	e 56.2	—
Ottawa	111.0	48	—	—	e 28 55?	?	57.9	—
Tashkent	120.0	308	20 30	PP	26 1	[+11]	e 66.9	70.5
Sverdlovsk	123.3	326	19 7	[+13]	28 5	{+26}	62.9	72.8
Pulkovo	134.8	340	e 20 2	[+47]	e 24 46	?	75.9	78.8
Tifis	138.0	312	e 18 57	[-22]	e 35 18	?	e 77.5	82.7
Simferopol	143.4	321	e 19 45	[+16]	—	—	—	—
Yalta	143.6	321	e 19 44	[+15]	—	—	—	—
Sebastopol	144.0	321	e 19 23	[- 8]	—	—	—	—
Hamburg	z. 145.0	352	e 19 44	[+10]	—	—	—	—
De Bilt	146.9	358	e 19 47	[+10]	e 42 43	SS	e 82.9	90.6
Ksara	147.2	305	e 19 50	[+12]	—	—	—	—
Kew	147.5	4	e 19 48	[+10]	—	—	e 79.9	—
Uccle	148.2	358	e 19 54	[+15]	—	—	e 81.9	—
Stuttgart	149.9	352	e 19 51	[+ 9]	e 24 1	?	e 84.9	—
Strasbourg	150.2	352	e 19 53	[+11]	i 24 9	?	e 82.9	—
Paris	150.3	1	e 19 55?	[+13]	—	—	80.9	—
Granada	161.0	16	e 20 14	[+19]	—	—	84.5	—

Additional readings :—

Apia eP* = +2m.5s., eS* = +3m.30s. i = +3m.43s., e = +10m.18s.

Melbourne i = +27m.42s.

Vladivostok ePP = +15m.10s., PPP = +17m.10s., e = +24m.4s., SS = +28m.19s., SSS = +31m.37s.

Tucson ePS = +23m.5s.

Chiufeng iEN = +24m.51s.

Huancayo eSS = +31m.1s.

Philadelphia e = +51m.55s.

Ottawa eN = +47m.55s.?

Tashkent PS = +30m.34s., SS = +37m.37s.

Sverdlovsk PS = +31m.18s.

Pulkovo e = +23m.1s.

Ksara ePP = +23m.32s., ePPS = +36m.48s.

Strasbourg i = +20m.9s.

Long waves were also recorded at Wellington, Honolulu, College, Uklah, Florissant, Baku, Scoresby Sund, Copenhagen, Edinburgh, and Bidston.

Aug. 25d. Readings also at 0h. (Chiufeng, Tifis (3), Mizusawa, and Nagoya), 2h. (near Santiago), 4h. (near Mizusawa), 9h. (Kobe and near Nagoya), 12h. and 15h. (near Nagoya), 16h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Christchurch, and Tashkent), 17h. (Riverview, Sverdlovsk, and Paris), 18h. (Christchurch), 19h. (Phu-Lien), 21h. (Medan and near Apia), 22h. (Nagoya, Sumoto, and near La Paz).

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Aug. 26d. 11h. 34m. 50s. Epicentre 44°·6N. 153°·0E. N.2.

A = -·6344, B = +·3233, C = +·7022; $\delta = +7$;
D = +·454, E = +·891; G = -·626, H = +·319, K = -·712.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	10·3	242	e 2 29	+ 4	i 4 18	- 3	—	—
Vladivostok	15·2	272	—	—	e 5 50	-30	e 8·2	11·2
Nagoya	15·4	238	e 3 31	- 3	6 34	+10	—	—
Chiufeng	27·4	275	5 47	+ 5	e 10 21	- 1	—	19·0
Sverdlovsk	55·1	318	i 9 33	+ 3	e 17 14	+ 3	26·2	—
Tashkent	58·5	299	i 9 58	+ 4	i 17 56	0	e 28·2	37·7
Tinemaha	z. 64·1	63	i 10 34	+ 1	—	—	—	—
Scoresby Sund	64·9	358	10 39	+ 1	19 18	- 1	37·2	—
Pulkovo	65·6	332	10 40	- 2	19 23	- 4	42·2	43·4
Moscow	65·9	326	10 47	+ 2	—	—	—	—
Pasadena	66·0	65	i 10 45	0	—	—	—	—
Mount Wilson	z. 66·1	65	i 10 45	- 1	—	—	—	—
Riverside	z. 66·6	65	i 10 47	- 2	—	—	—	—
Tucson	72·0	62	e 11 22	- 1	—	—	e 36·2	—
Tifis	72·5	312	e 11 26	0	e 20 51	0	e 48·2	—
Copenhagen	74·3	338	—	—	21 16	+ 4	43·2	—
Simferopol	75·4	320	e 11 58	+15	—	—	—	—
Yalta	75·7	319	e 10 3	?	e 21 20	- 8	—	—
De Bilt	79·4	340	12 4	- 1	—	—	e 44·2	—
Uccle	z. 80·8	341	e 12 12	0	e 23 10	+46	—	—
Kew	81·2	343	e 12 12	- 2	—	—	e 47·2	—
Stuttgart	81·4	337	e 12 13	- 2	e 23 10	+39	e 47·2	—
Strasbourg	z. 82·0	338	e 12 14	- 4	e 23 18	+41	45·2	—
Ksara	83·0	311	e 12 24	+ 1	e 24 37	+110	47·7	53·2
Paris	z. 83·6	341	e 12 10?	-16	e 23 29	+36	51·2	—

Additional readings:—

Nagoya S = +4m.33s.

Tifis eSSEZ = +25m.48s. = SSSS + 2s.

Long waves were also recorded at Edinburgh, Prague, and Granada.

Aug. 26d. 16h. 8m. 12s. Epicentre 40°·4N. 70°·0E. (as given by the stations). N.3.

A = +·2605, B = +·7156, C = +·6481; $\delta = -2$;
D = +·940, E = -·342; G = +·222, H = +·609, K = -·762.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent	1·1	330	i 0 16	0	—	—	i 0·6	0·7
Andijan	1·8	79	e 0 25	- 1	0 52	S _g	—	0·9
Tchimkent	1·9	351	0 34	P _g	1 6	S _g	—	—
Samarkand	2·5	252	e 0 45	P _g	i 1 21	S _g	—	1·5
Frunse	4·2	52	e 1 0	0	i 2 13	S _g	—	—
Sverdlovsk	17·5	343	—	—	e 7 39	+26	—	—

Additional readings:—

Andijan iP_g = +28s.

Tchimkent iP_g = +38s.

Samarkand iPP = +53s., i = +1m.3s. and +1m.13s.

Frunse iP_g = +1m.12s., iPP = +1m.20s., i = +2m.6s.

Sverdlovsk e = +8m.46s., i = +9m.28s.

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Aug. 26d. 21h. 19m. 31s. Epicentre 6°·0S. 110°·0W. N.3.

A = -·3401, B = -·9345, C = -·1045; $\delta = -12$;
D = -·940, E = +·342; G = +·036, H = +·098, K = -·995.

Very poor.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tacubaya	N.	27·5	23	5 33	-10	10 3	-21	—	—
Huancayo		34·7	102	e 6 22	-24	e 11 30	-47	—	—
Tucson		38·3	359	7 11	-7	e 13 1	-10	e 17·9	—
La Jolla	N.	39·5	351	e 7 28	0	—	—	—	—
Riverside		40·6	350	i 7 37k	0	—	—	—	—
Mount Wilson		40·9	350	i 7 41	+ 1	—	—	—	—
Pasadena		40·9	350	i 7 41k	+ 1	e 13 53	+ 3	e 18·9	—
Santa Barbara		41·5	348	i 7 46	+ 2	—	—	—	—
La Paz	E.	42·3	107	e 7 56	+ 5	13 29	-41	19·0	22·7
Haiwee		42·8	351	e 7 57	+ 2	—	—	—	—
Tinemaha		43·8	351	i 8 3	0	—	—	—	—
Berkeley		45·3	346	—	—	i 14 59	+ 4	—	—
Ukiah		46·8	345	—	—	e 15 19	+ 3	—	—
Florissant		48·3	21	—	—	e 14 42	-55	—	—
San Juan		49·7	60	e 9 43	+54	e 14 53	-64	e 21·9	—
Bozeman		51·7	359	—	—	e 16 17	-7	e 27·5	—
Honolulu		54·3	302	—	—	e 23 59	SSS	—	—
Philadelphia		56·0	33	—	—	e 16 34	-49	e 26·0	—
Ottawa		59·8	27	—	—	e 17 29?	-44	e 23·5	—
Rio de Janeiro	N.	66·3	112	e 19 0	S	(e 19 0)	-36	—	—
Christchurch		77·0	226	—	—	23 46?	?	e 32·7	35·2
Ivigtut		83·2	25	—	—	22 11	-38	40·5	—
Scoresby Sund		95·0	19	—	—	24 22	{+ 7}	40·5	—
Edinburgh		104·3	34	—	—	26 29?	+25	e 51·5	—
Kew		106·9	37	—	—	e 34 29?	SS	e 47·5	—
Paris		109·2	40	—	—	e 21 29?	?	89·5	—
De Bilt		110·0	35	e 19 11	PP	—	—	e 50·5	—
Strasbourg	Z.	112·6	38	e 19 3	PP	—	—	e 43·5	—
Copenhagen		112·8	30	28 35	PS?	34 35	SS?	46·5	—
Stuttgart		113·5	38	e 18 29?	[+ 1]	—	—	e 47·5	—
Vladivostok		114·4	314	—	—	e 28 2	?	i 53·7	63·9
Pulkovo		118·4	21	e 19 46	PP	—	—	54·5	58·8
Sverdlovsk		128·6	6	e 21 15	PP	e 38 10	SS	51·5	69·2
Tiflis	N.	137·8	28	e 23 9	PKS	—	—	e 67·5	85·0
Tashkent		144·7	1	—	—	e 41 15	SS	e 71·5	86·0

Additional readings:—

Huancayo ePP = +7m.8s., eSS = +12m.52s., e = +13m.40s.

Tucson e = +15m.54s.

Berkeley iN = +15m.3s., eN = +18m.35s., eE = +19m.39s.

Ukiah e = +18m.59s., eSSS = +19m.59s.

Florissant eE = +18m.14s.

San Juan ePPP = +11m.0s., e = +18m.47s. = S_cS + 4s.

Philadelphia e = +16m.44s., eS_cS = +19m.2s., eSS = +20m.23s., eSSS = +22m.23s.

Ottawa eN = +21m.29s.?

Rio de Janeiro eSN = +26m.29s. = SSS + 6s.

Scoresby Sund = +25m.29s., SS = +30m.29s.

Pulkovo e = +29m.35s., e = +35m.30s.

Tiflis eN = +52m.59s.

Tashkent e = +15m.41s., e = +21m.55s., e = +22m.17s., e = +42m.31s., e = +47m.11s., e = +54m.11s., e = +64m.59s.

Long waves were also recorded at Baku, Chiufeng, Apia, Cape Town, Sydney, Oak Ridge, Seattle, Sitka, College, Granada, Stonyhurst, Hamburg, Uccle, San Fernando, and Bombay.

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Aug. 26d. Local shocks recorded in Europe :—

I

Chur eP = 22h.12m.9s., eS = 12m.15s.
 Zurich eP_g = + 22h.12m.14s., i = 12m.16s., eS_g = 12m.23s.
 Ravensburg S_g = 22h.12m.26s., iE = 12m.33s.
 Basle eP_g = 22h.12m.29s., eS_g = 12m.46s.
 Neuchatel iP_g = 22h.12m.35s., iS_g = 12m.57s.
 Stuttgart eS_g = 22h.12m.55s.
 Toledo P = 22h.14m.39s., S = 16m.54s., L = 17m.26s.
 Strasbourg e = 22h.14m.41s.

II

Bagnères e = 22h.16m.38s. and 16m.42s., S_g? = 16m.46s., i = 16m.47s., e = 16m.51s.
 Barcelona P = 22m.17m.1s., S = 17m.18s., L = 17m.20s.
 Tortosa iP_N = 22m.17m.9s., PE = 17m.12s., PSN = 17m.31s., LE = 17m.33s.
 Drome P_g = 22h.17m.10s., P = 17m.25s., i = 17m.45s., e = 17m.51s., S_g? = 17m.54s.
 Strasbourg eP = 22h.18m.6s., e = 20m.43s. and 21m.41s., i = 23m.19s.
 Neuchatel eP = 22h.18m.31s., e = 19m.51s.
 Almeria e = 22h.20m.4s.
 Basle eP = 22h.20m.19s., e = 27m.19s.
 Zurich eP = 22h.20m.26s., e = 27m.33s.
 Stuttgart eS_g = 22h.21m.7s.

III

Bagnères eP_g = 22h.23m.44s., e = 23m.48s., iS_g = 23m.51s., i = 23m.55s. and 24m.2s.
 Barcelona P = 22h.24m.8s., S = 24m.27s.
 Tortosa PN = 22h.24m.17s., SN = 24m.39s., LN = 24m.43s.
 Drome e = 22h.24m.53s., i = 24m.58s., S_g? = 25m.0s.
 Almeria e = 22h.27m.15s.
 Strasbourg e = 22h.27m.52s., i = 29m.13s.
 Stuttgart eS_g = 22h.28m.16s.

IV

Chur eP_g = 23h.33m.8s., eS_g = 33m.13s.
 Zurich eP_g = 23h.33m.13s., eS_g = 33m.21s.
 Ravensburg S_g = 23h.33m.24s., iE = 33m.31s.
 Basle eP_g = 23h.33m.26s., eS_g = 33m.44s.
 Stuttgart eP_g = 23h.33m.32s., eS_g = 33m.53s.
 Neuchatel eP_g = 23h.33m.33s., iS_g = 33m.55s.
 Strasbourg e = 23h.34m.0s. and 34m.25s.

Aug. 26d. Readings also at 1h. (near Nagoya), 3h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Sverdlovsk, and Tashkent), 4h. (Paris), 6h. (Ksara, Piatigorsk, near Erevan, and Tifis), 8h. (Philadelphia, San Juan, Tucson, Paris, and near Santiago), 11h. (near Hastings, Wellington, and San Juan), 14h. and 19h. (near Andijan), 21h. (Andijan, near Branner, and Toledo), 22h. (Mount Wilson (2), Pasadena (2), Riverside, and Tinemaha (2)).

Aug. 27d. 3h. 4m. 51s. Epicentre 6°·1N. 94°·7E. (as on 1936 Aug. 23d.). R.3.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Medan	4·7	121	i 1 6	- 1	i 2 0	0	—	—
Batavia	17·2	135	—	—	7 38	+32	—	—
Calcutta	N. 17·5	340	e 4 46	+46	—	—	—	—
Kodafkanal	E. 17·6	285	e 3 9?	-53	—	—	—	—
Bombay	24·8	302	i 5 24	+ 6	i 8 35	-62	—	—
Andijan	40·0	333	e 4 38	?	—	—	—	—
Frunse	40·9	337	e 7 30	-10	—	—	—	—
Tashkent	41·9	331	e 8 12	+24	i 14 8	+ 3	—	42·0
Nagoya	48·5	47	e 8 34	- 6	—	—	—	—
Vladivostok	49·4	36	—	—	e 15 34	-18	26·0	—

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.
Tiflis	56.7	316	e 9 42	+ 1	e 17 33	+ 1	—	—
Sverdlovsk	57.3	338	i 9 51	+ 6	i 17 48	+ 8	28.1	—
Theodosia	64.3	318	e 10 35	+ 1	—	—	—	—
Simferopol	65.1	317	e 10 51	+12	—	—	—	—
Moscow	66.9	329	e 10 52	+ 1	—	—	—	—
Pulkovo	72.0	331	e 11 22	- 1	(20 9)	-36	20.1	—
Vienna	77.7	318	e 11 54	- 2	e 21 45	- 6	—	—
Copenhagen	80.6	326	—	—	22 9?	-13	—	—
Chur	82.3	316	e 12 19	- 1	e 22 30	-10	—	—
Stuttgart	82.5	318	e 12 20	- 1	e 22 32	-10	—	—
Zurich	82.9	317	e 12 22	- 1	e 22 38	- 8	—	—
De Bilt	84.9	322	—	—	e 24 9?	+62	e 58.1	—
Tinemaha	z. 127.0	33	e 19 1	[0]	—	—	—	—
Mount Wilson	z. 129.2	35	e 19 7	[+ 2]	—	—	—	—
Pasadena	z. 129.2	35	e 19 5	[0]	—	—	—	—

Additional readings :—

Batavia iE = +10m.59s.

Andijan e = +10m.42s.

Tashkent e = +11m.2s., i = +17m.6s., e = +17m.34s. = SSS + 3s.

Pulkovo e = +15m.53s.

Stuttgart e = +23m.29s.

Mount Wilson eZ = +22m.22s.

Pasadena iZ = +22m.21s.

Long waves were also recorded at Phu-Lien.

Aug. 27d. Readings also at 1h. (near Andijan), 2h. (Mount Wilson, Riverside, and near Hukuoka B), 5h. (Nagoya, near Hukuoka B, and near Santiago), 6h. (La Plata), 7h. (Huancayo, La Paz, Montezuma, La Jolla, Mount Wilson, Pasadena, Riverside, Tinemaha, San Javier, and near Santiago (2)), 8h. (Haiwee, Mount Wilson, Pasadena, Riverside, and Tinemaha), 9h. (near Taihoku), 10h. (Apia), 14h. (Sofia), 17h. (Tiflis and near Oak Ridge), 20h. (near Tiflis (2) and near Tucson), 23h. (La Paz, Simferopol, Theodosia (4), Yalta, near Andijan, and near Sumoto).

Aug. 28d. 0h. 19m. 50s. Epicentre 33°·5N. 46°·5E. (as on 1930 Dec. 5d.). X.

A = +.5740, B = +.6049, C = +.5519; $\delta = -3$;
D = +.725, E = -.688; G = +.380, H = +.401, K = -.834.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Erevan	6.8	346	e 1 55	P*	—	—	e 3.8	—
Baku	7.4	20	e 2 21	P _g	e 2 35	-34	—	4.9
Tiflis	8.3	351	e 1 51	- 7	e 3 22	- 9	e 3.8	4.9
Ksara	8.8	275	e 2 15	+10	e 3 47	+ 3	—	—
Grozny	9.8	357	—	—	e 4 14	+ 6	—	—
Tashkent	19.6	60	i 4 26	+ 1	i 8 5	+ 7	e 9.8	15.3
Andijan	21.8	63	4 49	0	—	—	e 12.6	—
Moscow	23.1	347	—	—	e 8 53	-14	14.0	16.4
Frunse	23.8	59	e 5 10	+ 2	—	—	—	—
Sverdlovsk	25.3	18	e 5 19	- 4	e 9 43	- 3	15.2	—
Copenhagen	32.3	324	—	—	11 34	- 6	16.2	—

Additional readings :—

Tiflis eNZ = +2m.17s., eE = +14m.1s.

Ksara S_g = +4m.35s., P_cP = +8m.55s.

Long waves were also recorded at Pulkovo, Hamburg, De Bilt, Strasbourg, and Stuttgart.

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Aug. 28d. 6h. 38m. 48s. Epicentre 7°·5S. 156°·5E. (as on 1936 April 19d.). R.3.

$$A = -.9092, B = -.3953, C = -.1305; \quad \delta = -6;$$

$$D = +.399, E = +.917; \quad G = +.120, H = -.052, K = -.991.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	26.8	190	e 5 34	- 2	e 10 26	+14	e 14.1	15.4
Sydney	26.8	190	e 4 30	-66	e 10 17	+ 5	13.8	14.7
Adelaide	32.0	209	e 4 16	?	i 11 28	- 7	—	18.6
Melbourne	32.1	197	—	—	e 10 29	-68	14.1	16.9
Manila	41.6	302	i 7 52	+ 7	13 4	-56	—	—
Nagoya	46.5	339	e 8 25	0	—	—	—	—
Batavia	z. 49.3	268	8 1	-45	—	—	—	—
Hong Kong	51.1	307	16 22?	S	(16 22)	+ 6	23.5	26.2
Honolulu	53.3	57	—	—	e 17 12?	+26	e 24.2	—
Nanking	53.5	319	e 9 22	+ 4	e 17 2	+13	—	—
Vladivostok	55.3	339	e 9 35	+ 4	i 17 24	+11	28.5	34.3
Chiufeng	60.4	326	e 10 4	- 3	e 18 24	+ 3	—	—
Sitka	84.8	31	—	—	e 23 0	- 6	—	—
Bombay	86.5	290	—	—	e 23 12	-10	—	—
Frunse	89.2	314	e 13 12	+18	—	—	—	—
Pasadena	90.4	56	i 13 3a	+ 4	—	—	—	—
Mount Wilson	90.5	56	i 13 5a	+ 5	—	—	—	—
Andijan	90.5	311	e 12 59	- 1	e 24 8	+ 7	—	—
Tinemaha	90.7	53	i 13 6	+ 5	—	—	—	—
La Jolla	z. 90.9	58	e 13 6	+ 4	—	—	—	—
Riverside	z. 91.0	56	i 13 6	+ 4	—	—	—	—
Tashkent	92.9	311	e 14 46	+95	i 24 20	- 3	e 39.3	47.8
Tucson	96.2	58	e 13 30	+ 4	—	—	e 43.7	—
Sverdlovsk	99.5	327	e 13 47	+ 6	e 25 21	- 1	41.2	60.2
Tiflis	E. 111.1	312	e 13 47	-49	e 27 15	{+60}	—	—
Moscow	112.2	327	—	—	e 26 12	{-10}	—	—
Pulkovo	114.0	334	19 33	PP	—	—	64.2	71.1
Scoresby Sund	117.0	359	—	—	29 48	SKSP	57.2	—
Ksara	119.5	306	i 20 23	PP	—	—	—	—
Copenhagen	124.1	336	20 45	PP	—	—	63.2	—
Hamburg	126.6	336	e 21 12?	PP?	—	—	—	—
Edinburgh	129.0	345	22 12?	?	—	—	—	—
De Bilt	129.6	337	e 19 12	[+ 6]	—	—	e 64.2	—
Stuttgart	130.4	332	e 19 12	[+ 4]	—	—	e 67.2	—
Uccle	130.9	337	e 21 31	PP	—	—	e 61.2	—
Strasbourg	131.2	333	e 21 30	PP	—	—	23.2?	—
Kew	132.1	340	e 19 18	[+ 8]	—	—	e 71.2	—
Paris	133.2	337	e 19 12?	[0]	—	—	74.2	—
San Juan	137.2	71	e 19 42	[+24]	e 22 16	PP	—	—
Granada	145.2	332	19 12?	[-22]	—	—	—	—

Additional readings:—

Adelaide e = +13m.18s. = SS + 1s.

Hong Kong S? = +20m.28s.

Chiufeng SN = +20m.2s.

Tashkent ePP = +16m.48s., e = +26m.53s.

Tucson ePS = +26m.10s., eSS = +31m.6s.

Sverdlovsk PP = +17m.51s.

Tiflis ePKP = +17m.52s., ePP = +18m.57s., eE = +19m.21s., ePKKPE = +28m.35s.

Pulkovo PS = +29m.22s., PPS = +30m.21s.

Ksara ePS = +30m.22s.

De Bilt eZ = +21m.19s. = PP + 4s., eEN = +22m.37s.

Stuttgart e = +21m.28s., e = +22m.34s. = PKS - 1s.

Uccle e = +22m.41s. = PKS + 4s.

Strasbourg e = +22m.33s. = PKS - 6s.

Kew ePPZ = +21m.39s., ePKS = +22m.41s.

Long waves were also recorded at Ukiab, Christchurch, Wellington, and Perth.

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Aug. 28d. 22h. 16m. 32s. Epicentre 42°·8N. 0°·2W. (given by Strasbourg). N.3.

$$A = +.7337, B = -.0026, C = +.6794; \quad \delta = -9;$$

$$D = -.003, E = -1.000; \quad G = +.679, H = -.002, K = -.734.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bagnères	0.4	55	i 0 54	?	1 2	?	—	—
Tortosa	2.1	165	i 0 27	- 3	0 50	- 4	0.9	—
Barcelona	2.2	129	0 18	-13	0 37	-20	0.6	—
Drome	3.9	65	e 1 21	P _g	e 2 6	S _g	—	—
Toledo	4.1	226	e 1 37	P _g	i 2 28	S _g	—	—
Alicante	4.4	184	1 25	P _g	—	—	—	—
Almeria	6.2	198	e 3 14	S _g	e 3 26	?	—	—
Granada	6.2	206	e 1 41	S*	i 3 28	S _g	—	—
Besançon	6.3	42	—	—	e 2 40	+ 9	—	—
Paris	6.3	16	e 2 39	S	(e 2 39)	- 2	3.5	3.5
Neuchatel	N. 6.5	49	e 1 36	+ 4	e 3 11	S*	—	—
Basle	N. 7.3	46	e 2 1	P*	e 3 31	S*	—	—
Zurich	7.7	50	e 1 44	- 5	e 3 45	S*	—	—
San Fernando	7.8	218	—	—	e 5 1	?	e 5.7	—
Chur	8.0	57	e 1 55	+ 2	e 3 58	S*	—	—
Strasbourg	8.0	40	e 2 26	P _g	e 4 6	S _g	—	—
Uccle	8.6	20	e 2 19	P*	e 3 37	- 2	—	—
Kew	8.7	359	—	—	e 3 46	+ 5	5.5	—
Stuttgart	8.9	44	e 3 4	?	e 4 34	S*	—	5.4
Oxford	9.0	356	—	—	e 3 57	+ 8	—	5.5
Edinburgh	13.3	352	e 1 46	?	—	—	e 7.5	—

Additional readings:—

Bagnères i = +1m.12s.

Drome PP = +1m.23s., i = +1m.37s. and +2m.3s., SS = +2m.13s. and +2m.28s.

Toledo i = +2m.1s.

Strasbourg i = +4m.25s., e = +4m.29s., i = +5m.39s.

Uccle e = +4m.28s., iN = +4m.34s. and iZ = +5m.21s.

Kew eN = +4m.45s., eE = +4m.50s., eNZ = +5m.0s., eZ = +5m.26s.

Oxford e = +4m.48s., i = +5m.2s. and +5m.17s.

Long waves were also recorded at Trieste, Cheb, Jena, De Bilt, Göttingen, Hamburg, Stonyhurst, Bidston, Copenhagen, Pulkovo, and Sverdlovsk.

Aug. 28d. Readings also at 1h. (Sofia, Bucharest, Kobe, near Nagoya, and Sumoto), 2h. (Belgrade, Tashkent, Ksara, Pulkovo, Copenhagen, Sverdlovsk, Hong Kong, Vladivostok, Batavia, Nanking, Chiufeng, Kodaikanal, and near Medan), 6h. (Kodaikanal), 7h. (Tucson and near Tifis), 10h. (Santiago and near Balboa Heights), 11h. (Ksara), 12h. (Manzanillo and Tacubaya), 13h. (near Wellington), 14h. (near La Paz), 15h. (Oak Ridge), 18h. (Bagnères and near Tortosa), 19h. (near Wellington), 22h. (Andijan).

Aug. 29d. 12h. 41m. 58s. Epicentre 38°·6N. 71°·9E. (as on 1934 Sept. 1d.). R.3.

$$A = +.2428, B = +.7428, C = +.6239; \quad \delta = -5;$$

$$D = +.951, E = -.311; \quad G = +.194, H = +.593, K = -.782.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	2.2	9	0 33	+ 2	1 3	S*	—	1.3
Tashkent	3.4	325	i 0 52	+ 3	i 1 54	+27	—	3.0
Samarkand	3.9	287	1 1	+ 5	1 51	+11	—	—
Frunse	4.8	25	e 1 9	+ 1	2 7	+ 4	—	2.7
Agra	E. 12.5	154	e 2 51	- 4	5 3	-12	—	—
Semipalatinsk	13.2	24	e 3 4	- 1	—	—	e 6.7	—
Baku	17.1	284	—	—	e 7 42	+38	e 9.2	—
Sverdlovsk	19.7	344	4 28	+ 2	8 21	+21	10.8	12.0
Bombay	19.7	177	e 4 25	- 1	e 8 14	+14	—	—
Grozny	20.2	292	e 5 42	+70	e 8 28	+18	15.5	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Tiflis	20.9	288	4 37	- 2	e 8 32	+ 8	e 12.0	—
Calcutta	N. 21.4	134	—	—	i 8 34	0	11.8	—
Hyderabad	21.9	163	8 54	S	(8 54)	+10	12.9	13.4
Piatigorsk	22.1	294	e 4 8	-44	—	—	—	—
Sotchi	24.6	294	e 5 46	PP	—	—	—	—
Moscow	28.5	319	e 7 4	+72	e 11 48	SS	e 15.0	18.3
Yalta	28.6	294	e 7 57	?	—	—	—	—
Kodaikanal	E. 28.8	168	—	—	e 10 2?	-43	—	—
Sebastopol	29.0	296	—	—	e 10 23	-25	—	—
Ksara	29.2	272	e 5 49	- 9	e 11 48	+57	—	—
Pulkovo	33.6	323	e 6 42	+ 5	e 11 3	-57	16.0	19.0
Chiufeng	33.9	73	—	—	e 13 35	?	—	20.2
Edinburgh	51.0	316	—	—	e 12 2?	?	e 28.0	—

Additional readings:—

Andijan $iP_g = +36s.$, $iPP = +43s.$

Samarkand $iPP = +1m.16s.$, $i = +1m.31s.$, $iS_g = +2m.8s.$

Frunse $iP^* = +1m.19s.$, $iP_g = +1m.25s.$, $iPP = +1m.31s.$, $i = +1m.41s.$,
+1m.59s., and +2m.19s.

Calcutta N $i = +10m.54s.$

Hyderabad S = +11m.24s.

Long waves were also recorded at Hong Kong, Nanking, Scoresby Sund, and other European stations.

Aug. 29d. 22h. 22m. 2s. Epicentre $10^{\circ}0N.$ $56^{\circ}5E.$ (as on 1928 July 4d.). R.3.

A = +.5436, B = +.8212, C = +.1736; $\delta = +1$;
D = +.834, E = -.552; G = +.096, H = +.145, K = -.985.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Bombay	E. 18.2	59	i 3 57	-12	i 7 28	- 1	—	10.6
Kodaikanal	20.6	87	i 4 36	0	i 8 22	+ 4	10.0	11.1
Hyderabad	22.6	68	4 51	- 6	8 59	+ 2	10.9	15.3
Colombo	23.3	97	5 4	0	9 24	+14	11.9	15.9
Baku	30.9	351	—	—	e 10 18	-60	16.7	19.2
Tashkent	33.2	19	i 6 33	- 1	i 11 41	-13	e 15.5	21.3
Tiflis	33.3	343	e 6 37	+ 3	e 11 55	0	18.7	22.6
Andijan	33.8	22	e 6 37	- 2	—	—	—	—
Grozny	34.6	346	e 6 54	+ 8	—	—	—	—
Piatigorsk	35.9	343	i 6 28	-29	—	—	—	—
Sotchi	36.6	339	e 8 18	PP	—	—	—	—
Sverdlovsk	46.9	4	i 8 31	+ 3	e 15 10	- 7	24.0	—
Moscow	48.1	348	e 9 12	+35	e 16 1	+27	e 26.0	31.9
Zagreb	49.7	323	e 9 3	+14	—	—	—	—
Pulkovo	53.5	345	e 9 15	- 3	e 16 40	- 9	28.0	35.0
Stuttgart	55.2	324	—	—	e 17 13	+ 1	e 30.0	—
Copenhagen	57.1	333	—	—	17 41	+ 3	32.0	—
Hamburg	57.2	329	e 12 58?	?	—	—	—	—
De Bilt	59.0	327	e 10 4	+ 7	e 18 5	+ 2	e 29.0	—
Paris	59.2	321	e 9 58?	- 1	—	—	34.0	—
Chiufeng	60.6	49	—	—	e 18 17	- 6	—	35.6
Kew	61.8	324	—	—	e 18 58?	+19	—	—
Bidston	64.1	325	—	—	e 18 58?	-11	—	—
Scoresby Sund	76.7	341	—	—	21 44	+ 5	44.0	—

Additional readings:—

Kodaikanal SSE = +9m.6s.

Baku e = +14m.15s.

Moscow e = +11m.6s.

Long waves were also recorded at Strasbourg, Granada, and Cape Town.

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Aug. 29d. Readings also at 1h. (near Tortosa), 2h. (Sverdlovsk, Pulkovo, Moscow, Tiflis, Ksara, Copenhagen, Zagreb, De Bilt, Uccle, Paris, Strasbourg, Stuttgart, Triest, near Kobe, Sumoto, and Toyooka), 4h. (near Wellington), 6h. (Bucharest), 9h. (Huancayo, Balboa Heights, San Juan, Oak Ridge, Weston, Tucson, Philadelphia, Haiwee, La Jolla, Mount Wilson, Pasadena, Riverside, and Tinemaha), 10h. (Yalta), 14h. (near Oak Ridge (2) and near La Paz), 17h. (Chiufeng), 18h. (near Berkeley, Branner, Lick, Fresno, and San Francisco), 19h. (Chiufeng, Tashkent, Tiflis, Sverdlovsk, Sebastopol, Yalta, Simferopol, Pasadena, Riverside, and Tinemaha), 20h. (Scoresby Sund, Copenhagen, and Pulkovo), 21h. (Edinburgh).

Aug. 30d. 21h. Shock in South-west Pacific.

Nagoya e = 37m.24s.
 Manila PEZ = 37m.33s., SEN = 44m.35s.
 Nanking eP = 38m.17s., S = 47m.0s.
 Chiufeng e = 38m.57s., eE = 48m.14s.
 Tinemaha eZ = 40m.10s., iZ = 40m.51s.
 Mount Wilson eZ = 40m.38s., iZ = 40m.43s.
 Pasadena iZ = 40m.42s.
 Riverside eZ = 40m.43s., iZ = 40m.47s.
 Haiwee e = 40m.50s.
 Tashkent e = 47m.0s., 51m.2s., 52m.51s., 60m.51s., 61m.50s., eL = 76m.0s.,
 M = 80m.42s.
 De Bilt eZ = 47m.36s. and 50m.6s., eL = 95m.
 Paris e = 47m.40s.
 Granada e = 48m.0s.
 Sebastopol eP = 49m.41s.
 Theodosia eP = 49m.43s.
 Ksara ePKP = 49m.44s., i = 51m.6s., e = 52m.21s., L = 105m.
 Yalta eP = 49m.46s.
 Simferopol eP = 49m.48s.
 Kew e = 50m.
 Strasbourg e = 50m., eL = 63m.
 Stuttgart eL = 50m.6s.
 Sverdlovsk e = 52m.29s., L = 80m.

Aug. 30d. Readings also at 0h. (near Hukuoka B), 8h. (Tucson and near Andijan), 9h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 11h. (near Sumoto), 13h. (near Andijan), 15h. (near Hukuoka B), 17h. (Perth, Sydney, Manila, Nanking, Tashkent, Sverdlovsk, Pulkovo, Copenhagen, De Bilt, Kew, Strasbourg, and Stuttgart), 18h. (Paris, near Sumoto), 19h. (Kobe and near Sumoto).

Aug. 31d. 17h. 18m. 31s. Epicentre 33°·7N. 135°·2E. (as on 1935 June 22d.). X.

$$A = -\cdot5903, C = +\cdot5862, D = +\cdot5548; \quad \delta = -11.$$

	Δ	Az.	P.	O - C.	S.	O - C	M.
	°	°	m. s.	s.	m. s.	s..	m.
Sumoto	0·7	338	e 0 10	0	0 20	+ 2	0·4
Kobe	1·0	359	0 17k	+ 3	1 0 33	+ 7	0·6
Toyooka	1·9	350	0 28	0	0 45	- 4	1·0
Nagoya	2·0	45	e 0 42	+13	1 7	S _z	—
Hukuoka B	4·0	268	e 0 52	- 5	1 33	- 9	—

Aug. 31d. Readings also at 4h. (Sumoto), 5h. (Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, Weston, and Wellington), 7h. (near Mizusawa), 11h. (near Branner, Lick, and near Wellington), 12h. (San Javier and near Santiago), 15h. (La Jolla, Mount Wilson, Pasadena, Riverside, Tinemaha, and Nagoya), 17h. (Manzanillo), 19h. (Andijan (2) and Medan), 21h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 22h. (near Balboa Heights).

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Sept. 1d. Readings at 0h. (Medan), 3h. (De Bilt, Uccle, Jena, Paris, Strasbourg, Stuttgart, Ksara, Mount Wilson, Pasadena, Riverside, Tinemaha, Cape Town, and near Apia), 8h. (Samarkand, Paris, Strasbourg, Stuttgart, De Bilt, Ksara, Belgrade (2), Padova, Triest, Zagreb, and near Sofia), 9h. (Andijan), 10h. and 14h. (Tiflis), 17h. (Tiflis and near Sumoto).

Sept. 2d. 2h. 16m. 53s. (I) } Epicentre 38°·2N. 123°·3E. X.
 2h. 43m. 59s. (II) } (as on 1936 July 10d.) X.
 8h. 11m. 12s. (III) } X.

$$A = -.4135, B = +.6568, C = +.6184; \quad \delta = 0;$$

$$D = +.836, E = +.549; \quad G = -.340, H = +.517, K = -.786.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Heizyo	2.1	66	e 0 25	- 5	i 0 50	- 4	—	—
II	2.1	66	i 0 28k	- 2	i 0 53	- 1	—	—
III	2.1	66	i 0 33k	+ 3	i 0 57	+ 3	—	—
I Zinsen	N.	2.7	105	e 0 45	+ 6	e 1 9	—	—
II		2.7	105	e 0 39	0	e 1 13	—	1.2
III	N.	2.7	105	e 0 39	0	e 1 16	—	—
I Keizyo	3.0	102	e 0 41	- 2	e 1 7	-10	—	—
II	3.0	102	e 0 43	0	i 1 11	- 6	—	—
III	3.0	102	e 1 2	+19	e 1 21	+ 4	—	—
I Taikyū	4.8	117	—	—	e 2 14	+11	—	—
II	4.8	117	—	—	e 2 18	S*	—	—
III	4.8	117	e 1 3	- 5	—	—	e 6.0	—
I Husan	5.5	121	—	—	e 2 39	S*	—	—
II	5.5	121	—	—	e 2 41	S*	—	—
III	5.5	121	—	—	e 2 47	S*	—	—
II Chiufeng	5.9	292	—	—	e 2 52	S*	—	—
II Nanking	7.1	212	e 2 4	P*	e 3 46	S _r	—	—
II Hukuoka B	7.4	126	e 3 35	S*	e 3 58	S _s	—	—
I Vladivostok	8.2	51	e 3 26	S	(e 3 26)	- 3	4.3	4.7
II	8.2	51	e 4 7	S	(4 7)	S*	e 4.3	4.7

Additional readings:—

Keizyo II eSE = +1m.15s.

Husan I e = +2m.49s., II e = +2m.54s., III e = +2m.57s.

Sept. 2d. 5h. 3m. 9s. Epicentre 35°·0N. 137°·2E. (as on 1935 Dec. 23d.) X.

$$A = -.6010, B = +.5566, C = +.5736; \quad \delta = +2.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Nagoya	0.3	311	0 5	+ 1	0 11	+ 3	0.2
Kobe	1.7	259	0 22k	- 2	i 0 40	- 4	0.7
Sumoto	2.0	251	e 0 27	- 2	e 0 46	- 5	1.0
Toyoooka	2.0	285	e 0 32	P*	1 0	S _r	1.1

Toyoooka gives also PE = +39s. = P_r + 5s.

Sept. 2d. 9h. 15m. 36s. Epicentre 46°·7N. 152°·0E. N.2.

$$A = -.6055, B = +.3220, C = +.7278; \quad \delta = +1;$$

$$D = +.469, E = +.883; \quad G = -.643, H = +.342, K = -.686.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	11.0	230	i 2 33	- 2	i 4 19	-19	—	—
Vladivostok	14.6	263	i 3 24	+ 1	e 6 19	+14	7.4	13.2
Nagoya	16.1	230	3 41	- 2	6 21	-20	—	—
Kobe	17.5	233	3 58k	- 2	e 7 7	- 6	—	—
Sumoto	17.9	232	e 4 1	- 4	e 7 18	- 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.
Keizyo	20.6	253	e 4 35	- 1	e 8 35	+17	—	—
Husan	20.7	244	e 4 37	0	8 51	SSSS	—	—
Zinsen	20.8	254	e 4 38	0	e 8 10	-12	—	—
Hukuoka B	21.0	237	e 4 37	- 3	e 8 22	- 4	—	—
Chiufeng	26.7	270	i 5 34 _a	- 1	10 2	- 8	—	—
Nanking	29.2	252	e 5 57	- 1	i 10 37	-14	—	—
Sitka	43.8	49	—	—	e 14 42	+ 9	—	—
Sverdlovsk	53.1	317	i 9 18	+ 3	e 16 39	- 4	23.4	—
Tashkent	56.9	297	9 42	0	16 42	-53	e 17.5	21.6
Pulkovo	63.4	332	10 31	+ 3	18 49	-11	36.4	—
Tinemaha	z. 63.8	63	i 10 33	+ 2	—	—	—	—
Haiwee	z. 64.6	64	i 10 38	+ 2	—	—	—	—
Mount Wilson	z. 65.8	65	i 10 46	+ 2	—	—	—	—
Pasadena	65.8	65	i 10 45 _k	+ 1	—	—	—	—
Riverside	z. 66.4	65	i 10 47	- 1	—	—	—	—
La Jolla	z. 67.2	66	i 10 54	+ 1	—	—	—	—
Baku	68.8	307	e 11 3	0	e 19 44	-23	e 35.4	—
Tifis	e. 71.2	311	i 11 13	- 5	e 20 21	-14	e 36.6	—
Tucson	71.6	62	(e 11 20)	0	—	—	e 11.3	—
Theodosia	72.7	319	e 11 25	- 2	—	—	—	—
Simferopol	73.3	320	e 11 31	0	—	—	—	—
Yalta	73.7	319	e 11 31	- 2	—	—	—	—
De Bilt	77.2	341	i 13 18	+85	e 21 38	- 7	e 42.4	—
Stuttgart	79.2	337	e 12 3	- 1	e 22 0	- 7	—	—
Zagreb	79.7	331	e 12 9	+ 3	e 22 3	- 9	—	—
Strasbourg	79.8	338	i 12 7 _a	0	e 21 49	-25	e 39.4	—
Paris	80.9	341	i 12 14	+ 1	—	—	57.4	—
Ksara	81.1	311	i 12 10 _a	- 4	e 22 21	- 6	—	—

Additional readings :—

Kobe eSN = +7m.10s.

Chiufeng ipP? = +5m.59s., eSE = +10m.6s., iN = +10m.49s., iZ = +12m.5s.

Sverdlovsk e = +18m.55s.

Mount Wilson iZ = +11m.15s., +11m.23s., +11m.56s., and +12m.56s.

La Jolla eZ = +11m.47s.

Strasbourg ePP = +14m.53s.

Ksara epP = +12m.40s., esP = +12m.52s., esS = +23m.11s.

Long waves were also recorded at Copenhagen.

Sept. 2d. 10h. 1m. 3s. Epicentre 41°·6N. 46°·5E. N.3.
(given by U.S.S.R. stations of the Caucasus).

A = +.5148, B = +.5424, C = +.6639; $\delta = -2$;
D = +.725, E = -.688; G = +.457, H = +.482, K = -.748.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tifis	1.3	275	i 0 10	- 8	—	—	i 0.5	—
Grozny	1.8	342	i 0 23	- 3	i 0 50	S*	—	—
Erevan	2.1	227	0 11	-19	—	—	—	0.8
Baku	2.8	115	e 0 46	P*	e 1 13	+ 1	2.2	—
Platigorsk	3.5	315	e 0 49	- 1	i 1 37	+ 7	—	1.9
Sotchi	5.3	293	e 1 45	P _s	e 2 45	S _s	—	—
Yalta	9.4	292	—	—	e 4 32	S _s *	—	—
Simferopol	9.6	294	—	—	e 4 52	S*	e 6.2	—
Ksara	11.4	231	e 1 57?	?	—	—	—	8.0
Moscow	15.3	340	—	—	e 7 2	+40	—	—
Samarkand	15.7	95	e 5 20	?	—	—	—	—
Sverdlovsk	17.7	26	3 57	- 6	7 15	- 2	11.0	12.8
Andijan	19.4	85	e 4 26	+ 3	e 8 16	SSS	—	—
Pulkovo	20.7	337	e 4 38	+ 1	e 8 37	+17	11.0	—

Additional readings :—

Grozny iP_s = +25s., iPP = +28s.

Erevan P_s = +13s., i = +15s.

Baku e = +54s., +1m.46s., and +1m.56s.

Platigorsk i = +1m.29s.

Sotchi i = +2m.53s.

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Sept. 2d. 11h. 57m. 19s. Epicentre 41°·6N. 46°·5E. (as at 10h.). X.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Tiflis	1.3	275	i 0 16	- 2	—	+	i 0.6	—
Grozny	1.8	342	0 27	+ 1	i 0 54	S _g	—	—
Erevan	2.1	227	0 15	-15	—	—	—	0.9
Baku	2.8	115	e 0 44	P*	—	—	2.0	—
Piatigorsk	3.5	315	e 0 48	- 2	—	—	—	—
Sotchi	5.3	293	e 1 42	P _g	e 2 34	S*	—	3.5
Theodosia	8.8	296	—	—	e 5 4	S _g	—	—
Yalta	9.4	292	—	—	e 4 46	S _g *	—	—
Simferopol	9.6	294	—	—	e 5 22	S _g	—	—
Sebastopol	9.9	292	—	—	e 5 11	S _g	—	—
Ksara	11.4	231	e 2 41	+ 1	e 4 57	S*	—	8.7
Moscow	15.3	340	e 3 30	- 2	e 6 50	+28	e 9.7	10.3
Samarkand	15.7	95	3 46	+ 8	—	—	—	—
Tashkent	17.0	83	—	—	(e 6 53)	- 9	e 6.9	11.4
Sverdlovsk	17.7	26	i 3 58	- 5	e 7 13	- 4	i 12.0	12.9
Andijan	19.4	85	e 4 19	- 4	8 22	+28	—	—
Pulkovo	20.7	337	e 4 34	- 3	e 8 31	+11	11.2	13.6
Semipalatinsk	24.8	58	e 5 21	+ 3	—	—	—	—

Additional readings:—

Grozny i = +30s., iPP = +32s.

Erevan P_g = +17s., iPP = +24s., i = +32s., iPS = +36s., iSS = +49s.

Piatigorsk i = +52s.

Sotchi e = +1m.52s., +2m.9s., and +2m.50s.

Yalta e = +5m.36s., +6m.29s., and +7m.20s.

Simferopol e = +6m.36s.

Ksara eSS = +6m.5s.

Long waves were also recorded at Copenhagen.

Sept. 2d. 13h. 12m. 26s. Epicentre 41°·6N. 46°·5E. (as at 10h. and 11h.). R.2.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Tiflis	1.3	275	i 0 17	- 1	—	—	i 0.6	—
Grozny	1.8	342	i 0 30	+ 4	—	—	—	—
Erevan	2.1	227	0 17	-13	0 48	- 6	—	1.3
Baku	2.8	115	0 43	+ 3	e 1 20	S*	2.0	—
Piatigorsk	3.5	315	e 0 48	- 2	i 1 35	+ 5	—	2.4
Sotchi	5.3	293	e 0 40	-35	—	—	—	2.5
Theodosia	8.8	296	e 1 38	-27	e 4 25	S*	6.6	—
Yalta	9.4	292	e 2 6	- 7	—	—	6.6	—
Simferopol	9.6	294	e 2 25	+ 9	—	—	7.1	—
Sebastopol	9.9	292	e 3 14	?	—	—	—	—
Ksara	11.4	231	e 2 41	+ 1	e 5 7	+19	—	—
Moscow	15.3	340	e 3 25	- 7	e 6 27	+ 5	e 7.6	10.9
Samarkand	15.7	95	e 3 47	+ 9	e 5 22	-69	e 7.2	—
Tashkent	17.0	83	e 3 56	+ 2	i 7 4	+ 2	9.0	11.7
Sofia	17.1	281	e 4 3	+ 8	—	—	—	—
Tchinkent	17.2	80	e 3 56	- 1	e 7 20	SSS	—	—
Sverdlovsk	17.7	26	i 4 0	- 3	e 7 13	- 4	i 12.1	13.0
Andijan	19.4	85	e 4 18	- 5	e 8 25	+31	—	—
Frunse	20.7	77	e 4 34	- 3	e 8 27	+ 7	—	—
Pulkovo	20.7	337	4 32	- 5	8 24	+ 4	11.1	13.7
Vienna	z.	22.1	298	e 4 53	+ 1	—	—	—
Zagreb		22.3	291	5 7	+13	e 9 6	+14	—
Almata		22.4	74	e 5 2	+ 7	—	—	—
Prague		23.6	302	5 4	- 2	e 9 22	+ 6	e 12.9
Triest		23.9	291	e 5 13	+ 4	e 9 23	+ 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.
Semipalatinsk	24.8	58	e 5 14	- 4	—	—	—	—
Cheb	24.9	302	e 10 46	S	(e 10 46)	SSSS	e 15.6	18.6
Jena	25.5	302	e 5 28	+ 3	—	—	—	—
Copenhagen	26.1	314	5 25	- 5	10 16	+16	14.6	—
Hamburg	27.0	309	e 6 10	+32	i 11 6	+51	e 15.6	17.6
Stuttgart	27.0	298	e 5 39	+ 1	e 11 22	SS	e 16.2	—
Strasbourg	27.9	298	e 6 18	+32	(e 10 34?)	+ 4	e 10.6	—
De Bilt	29.7	305	—	—	e 11 34?	+35	e 16.6	21.8
Scoresby Sund	44.1	333	—	—	e 18 34	SSSS	23.6	—
Chiufeng	51.2	66	—	—	e 16 16	- 2	e 20.4	33.3

Additional readings :—

Grozny $iP_g = +32s.$, $iPP = +34s.$
 Erevan $iP_g = +19s.$, $iPP = +22s.$ and $+25s.$, $i = +29s.$
 Baku $e = +50s.$, $+56s.$, and $+1m.47s.$
 Piatigorsk $iP^* = +55s.$, $i = +1m.7s.$, $eS_g = +1m.48s.$
 Sochi $e = +1m.5s.$, $+1m.12s.$, $+1m.20s.$, $+1m.28s.$, $+1m.36s.$, and $+1m.46s.$
 Simferopol $e = +5m.38s.$
 Ksara $i = +5m.52s.$, $eSS = +6m.30s.$
 Sverdlovsk $iL_a = +10.7m.$
 Andijan $e = +5m.14s.$
 Frunse $e = +5m.10s.$
 Trieste $iP = +5m.44s.$, $e = +10m.56s.$ and $+18m.37s.$
 Long waves also recorded at Vladisvostok, Cape Town, and other European stations.

Sept. 2d. Readings also at 0h. (near Balboa Heights), 4h. (near Christchurch), 6h. (near Santiago (2) and San Javier), 9h. (near Nagoya and near Santiago), 10h. (Apia, near Batavia, Malabar, and near Tifis), 11h. (Bucharest and near Santiago), 12h. (Grozny and near Tifis), 13h. (Tifis), 14h. (Nagoya near Sumoto, and near Oak Ridge (3)), 15h. (Tifis, Ksara, and Oak Ridge), 17h. (Tifis and near Santiago), 18h. (Santiago (2)), 19h. (Grozny, Tifis, and Santiago), 21h. (Tifis, near Nagoya, and near Granada), 23h. (Tifis, Tucson, and San Juan).

Sept. 3d. 5h. 5m. 58s. Epicentre $13^{\circ}5N.$ $92^{\circ}5W.$ (as on 1935 Oct. 7d.). X.

$A = -.0424$, $B = -.9714$, $C = +.2334$; $\delta = -11$;
 $D = -.999$, $E = +.044$; $G = -.010$, $H = -.233$, $K = -.972$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Oaxaca	N. 5.5	312	1 22	+ 4	—	—	—	—
Merida	N. 8.0	20	1 47	- 6	—	—	—	—
Tacubaya	N. 8.8	313	2 3	- 2	—	—	—	—
St. Louis	25.2	4	i 5 24	+ 2	i 9 42	- 2	—	—
Tucson	25.2	321	e 5 22	0	e 9 51	+ 7	e 12.8	—
Florissant	25.4	4	i 5 22	- 2	e 9 44	- 4	e 17.0	18.9
San Juan	25.8	76	e 6 11	+44	e 11 11	?	e 13.9	—
Chicago	28.7	6	—	—	e 11 2	+19	—	—
Philadelphia	30.5	27	—	—	e 12 8	+56	e 17.0	—
Mount Wilson	z. 31.1	316	i 6 15	0	—	—	—	—
Pasadena	31.1	316	i 6 16	+ 1	—	—	e 14.6	—
Toronto	32.2	18	e 8 40	?	11 43	+ 5	e 17.0	—
Tinemaha	z. 32.9	320	i 6 33	+ 2	—	—	—	—
Weston	34.2	29	i 6 43	+ 1	—	—	—	20.8
Ottawa	34.9	21	—	—	e 12 2?	-18	e 17.0	—
Copenhagen	87.1	33	—	—	23 32	+ 4	45.0	—
Ksara	111.8	45	e 20 24	?	e 30 20	PS	—	67.0

Additional readings :—

St. Louis $ipPN = +5m.33s.$, $isPN = +5m.43s.$, $iN = +5m.52s.$ = $PP + 0s.$, $iPPN = +6m.2s.$, $iN = +6m.30s.$ and $+6m.59s.$, $isSN = +9m.57s.$, $eSSN = +10m.39s.$, $eSSN = +10m.56s.$
 Florissant $eNZ = +9m.38s.$, $iNZ = +9m.49s.$, $iN = +9m.53s.$, $eN = +9m.58s.$
 San Juan $eS = +11m.46s.$
 Philadelphia $e = +14m.30s.$
 Long waves were also recorded at Puebla, Huancayo, Scoresby Sund, Ivigtut, Pulkovo, Sverdlovsk, and other European and American stations.

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Sept. 3d. 12h. 23m. 4s. Epicentre 13°·0S. 166°·8E. (as on 1933 July 30d.). X.

$$A = -.9486, B = +.2225, C = -.2249; \quad \delta = -7;$$

$$D = +.228, E = +.974; \quad G = +.219, H = -.051, K = -.974.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	20·8	95	—	—	e 8 41	+19	—	—
Riverview	25·2	213	e 5 20	- 2	9 46	+ 2	e 11·4	14·0
Sydney	25·2	213	—	—	i 9 36	- 8	13·5	15·4
Wellington	29·1	167	—	—	i 11 54	+64	15·9	16·9
Christchurch	31·0	170	(e 5 41)	-33	e 5 41	S	11·8	15·6
Melbourne	31·5	214	—	—	e 11 18	-10	15·6	16·7
Adelaide	33·6	224	e 6 38	+ 1	i 11 50	-10	e 15·3	17·7
Perth	50·3	239	i 15 56	S	(i 15 56)	- 9	—	26·6
Hong Kong	62·5	304	10 22	0	18 58	+10	—	34·4
Vladivostok	64·5	332	e 17 16	?	e 19 22	+ 8	e 24·9	33·8
Chiufeng	70·9	321	i 11 18a	+ 2	20 35	+ 3	e 35·3	38·4
Tucson	90·5	57	—	—	e 24 14	+13	e 41·9	—
Kodaikanal	E. 91·6	280	e 12 56?	- 9	—	—	—	—
Tashkent	104·2	310	e 19 41	PP	i 25 53	-10	e 46·9	57·0
Pulkovo	123·4	336	e 20 41	PP	e 30 38	SKSP	63·9	73·0
Yalta	128·9	317	e 22 34	?	—	—	—	—
Ksara	131·0	303	e 19 6	[- 3]	—	—	—	—
Copenhagen	132·9	341	19 17	[+ 5]	—	—	72·9	—
De Bilt	138·2	343	i 19 25	[+ 6]	—	—	e 71·9	89·3
Uccle	139·6	343	e 23 27	PKS	—	—	e 74·9	—
Stuttgart	139·8	336	e 19 26	[+ 5]	—	—	e 73·9	—
Strasbourg	140·4	338	e 19 26	[+ 4]	—	—	e 70·9	—
Paris	141·9	345	e 18 56	[-28]	—	—	75·9	90·9
Almeria	154·3	340	—	—	e 30 4	{-43}	—	—
Granada	154·3	342	e 19 56	[+ 9]	—	—	86·9	—

Additional readings:—

Sydney e = +8m.32s.

Christchurch eP? = 12h.21m.57s.

Melbourne e = +13m.27s. and +13m.49s.

Adelaide e = +10m.14s.

Hong Kong SS? = +23m.13s.

Vladivostok e = +20m.37s. and +23m.42s.

Tucson ePS = +25m.26s., eSS = +30m.8s.

Tashkent e = +27m.5s., i = +33m.10s., e = +37m.0s., +41m.32s., and +43m.2s.

Ksara iPP = +21m.29s., ePPP = +24m.21s., ePPS = +33m.9s. and eSS =

+39m.9s.

Copenhagen = +22m.50s. = PKS + 4s.

De Bilt eZ = +22m.11s. = PP + 1s.

Stuttgart ePP = +22m.21s.

Strasbourg i = +22m.32s. = PP + 8s.

Long waves were also recorded at Honolulu, Cape Town, Scoresby Sund, Sverdlovsk, and other American and European stations.

Sept. 3d. 19h. 51m. 48s. Epicentre 30°·6N. 141°·8E. (as on 1936 July 23d.). R.3.

$$A = -.6764, B = +.5323, C = +.5090; \quad \delta = -6;$$

$$D = +.618, E = +.786; \quad G = -.400, H = +.315, K = -.861.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	6·2	319	e 1 26	- 2	2 39	+ 1	—	3·0
Sumoto	6·9	304	1 37k	- 1	4 26	?	—	—
Kobe	7·0	308	e 1 38	- 1	—	—	—	5·0
Mizusawa	8·5	355	e 1 59	- 1	i 3 15	-21	—	—
Hukuoka B	10·2	290	e 2 34	+10	e 6 8	?	—	—
Vladivostok	14·8	331	e 3 19	- 7	e 5 58	-12	6·6	9·6
Zi-ka-wei	z. 17·5	277	e 4 7	+ 7	—	—	—	12·0
Chiufeng	22·9	302	e 4 55	- 5	9 9	+ 6	—	15·8
Hong Kong	26·0	258	10 15	S	(10 15)	+17	—	27·7
Tashkent	58·0	304	e 9 45	- 5	e 17 46	- 3	e 30·9	37·1

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sverdlovsk	60.1	322	i 10 7	+ 2	18 17	0	31.2	—
Moscow	72.4	325	e 16 17	PPPP	—	—	e 33.7	43.2
Pulkovo	73.6	331	e 11 49	+17	e 21 26	+22	31.2	48.3
Tiflis	75.0	311	e 11 29	-11	e 20 35	-45	e 42.2	48.3
Copenhagen	83.5	334	—	—	22 50	- 2	44.2	—
Ksara	85.0	309	e 12 31	- 2	e 22 19	-49	—	—

Additional readings :—

Sumoto SN = +4m.32s.

Kobe eZ = +4m.9s., eE = +4m.14s.

Hong Kong PP? = +11m.39s., S? = +16m.30s., SS? = +18m.52s.

Tashkent e = +18m.0s. and +19m.26s. = S_cS - 12s., esSS = +24m.2s.

Sverdlovsk i = +10m.19s.

Moscow e = +17m.15s.

Tiflis e = +11m.48s.

Ksara ePPP = +17m.3s.

Long waves were also recorded at Baku and some European stations.

Sept. 3d. Readings also at 0h. (Branner), 1h. (near Bagnères), 4h. (Samarkand), 5h. (Frunse), 6h. (Frunse and near Andijan), 7h. (Cape Town), 8h. (near Apia), 9h. (Frunse, Samarkand, near Branner, and Lick), 10h. (Sverdlovsk and Tashkent), 11h. (Melbourne and Riverview), 12h. (Perth, Tucson, Sverdlovsk, and Tashkent), 14h. (Christchurch, Riverview, Sydney, Chiufeng, Vladivostok, near Hukuoka B, and near Nagoya), 15h. (Sverdlovsk, Copenhagen, and Tashkent), 16h. (Mizusawa, near Nagoya), 17h. (near Drome), 21h. (Tashkent, Sverdlovsk, Vladivostok, Chiufeng, Mizusawa (2), near Nagoya (2), and near Malabar), 22h. (Copenhagen, La Jolla, Mount Wilson, Pasadena, and near Tucson), 23h. (Florissant).

Sept. 4d. 8h. 9m. 40s. Epicentre 30°·6N. 141°·8E. (as on Sept. 3d.).

R.1.

$$A = -.6764, B = +.5323, C = +.5090; \quad \delta = -6;$$

$$D = +.618, E = +.786; \quad G = -.400, H = +.315, K = -.861.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	6.2	319	e 1 25	- 3	—	—	7.1	10.7
Sumoto	E. 6.9	304	1 38	0	e 3 24	+28	4.5	6.2
	N. 6.9	304	1 38	0	e 3 8	+12	4.6	5.6
	Z. 6.9	304	1 40	+ 2	e 3 25	+29	4.1	5.1
Kobe	7.0	308	e 1 37	- 2	e 3 22	S*	e 3.7	4.9
Toyooka	7.7	313	e 1 56	+ 7	—	—	e 4.6	7.2
Mizusawa	8.5	355	e 1 52	- 8	i 3 15	-21	—	—
Hukuoka	10.2	290	2 28	+ 4	4 27	+ 9	—	6.9
Hukuoka B	10.2	290	2 25 _a	+ 1	4 37	+19	—	6.9
Husan	11.7	296	2 45	+ 1	6 54	S _c	—	—
Keizyo	E. 14.1	304	e 3 17	0	e 7 47	?	—	—
Zinsen	14.4	303	e 3 21	0	e 6 10	+ 9	e 8.3	—
Zi-ka-wei	Z. 17.5	277	i 4 4 _k	+ 4	7 16	+ 3	12.4	17.3
Taihoku	18.8	258	e 4 21	+ 5	e 7 59	+17	—	—
Nanking	19.7	281	4 27	+ 1	e 8 33	+33	e 11.8	14.3
Chiufeng	22.9	302	4 56	- 4	i 9 6	+ 3	11.7	15.0
Manila	24.9	235	i 5 21	+ 2	i 10 7	+28	14.3	—
Hong Kong	26.0	258	5 30	+ 1	10 23	+25	—	19.1
Phu-Lien	33.1	260	6 20 _f	-13	12 12	+20	—	—
Calcutta	N. 48.1	273	—	—	e 14 15	?	—	23.5
Medan	48.8	245	e 9 19	+37	15 52	+ 8	e 30.3	—
Batavia	Z. 49.7	228	8 59	+10	—	—	—	—
Frunse	53.8	303	e 9 20	0	—	—	—	—
College	54.3	29	—	—	e 16 56	- 3	e 28.8	—
Honolulu	54.5	84	—	—	i 17 16	+14	25.3	—

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.
Agra	E. 55.2	283	9 29	- 1	i 17 11	- 1	—	36.9
Andijan	55.8	300	e 9 30	- 4	e 17 27	+ 7	31.5	—
Tashkent	58.0	304	i 9 48	- 2	i 17 48	- 1	e 27.3	38.3
Hyderabad	58.6	275	9 12	-43	18 2	+ 5	28.2	42.3
Sverdlovsk	60.1	322	i 10 16	+11	i 18 19	+ 2	29.3	38.1
Sitka	61.0	37	—	—	e 18 37	+ 8	—	—
Colombo	62.5	263	5 40	?	18 47	- 1	40.4	43.5
Bombay	62.8	277	e 10 20	- 4	18 55	+ 3	—	42.0
Kodaikanal	E. 62.8	268	e 10 29	+ 5	—	—	—	—
Riverview	65.0	171	—	—	e 19 21	+ 1	e 37.1	41.2
Adelaide	65.6	182	i 19 25	S	(i 19 25)	- 2	e 36.0	40.3
Melbourne	68.5	176	—	—	i 20 7	+ 4	—	—
Baku	72.1	307	e 11 27	+ 4	20 47	+ 1	36.3	47.2
Moscow	72.4	325	e 11 22	- 3	20 44	- 6	37.4	45.9
Grozny	73.5	311	e 11 33	+ 1	e 21 1	- 2	42.0	—
Pulkovo	73.6	331	11 32	0	i 20 58	- 6	39.3	47.1
Ukiah	74.7	53	—	—	e 20 26	-51	—	—
Tiflis	75.0	311	e 11 36	- 4	21 15	- 5	37.6	47.6
Erevan	75.8	308	e 11 49	+ 4	e 21 29	0	47.5	—
Berkeley	76.0	53	e 11 45	- 1	e 21 23	- 9	—	—
Butte	78.1	42	—	—	e 21 58	+ 3	—	—
Scoresby Sund	78.3	355	12 8	+ 9	21 55	- 2	38.3	—
Tinemaha	z. 79.1	53	e 12 2	- 1	—	—	—	—
Bozeman	79.2	42	—	—	e 21 55	-12	e 35.3	—
Theodosia	79.2	316	—	—	e 21 56	-11	—	—
Haiwee	79.8	54	e 12 6	- 1	—	—	—	—
Simferopol	79.9	317	—	—	e 22 19	+ 4	—	—
Yalta	80.2	316	e 12 8	- 1	e 22 15	- 3	48.7	—
Sebastopol	80.5	317	e 12 6	- 4	e 22 12	- 9	—	—
Mount Wilson	z. 80.7	55	i 12 11	- 1	—	—	—	—
Pasadena	80.7	55	i 12 10	- 2	e 21 56	-27	e 35.2	—
Copenhagen	83.5	334	12 26	0	22 44	[- 4]	44.3	—
Bucharest	84.9	320	20 20?	?	23 2	- 5	50.3	—
Ksara	85.0	309	i 12 33 ^a	0	23 9	+ 1	—	—
Hamburg	86.0	334	e 12 38	0	e 23 8	[+ 2]	e 44.3	60.3
Prague	86.6	330	e 13 21	+40	e 23 13	[+ 2]	e 41.3	51.8
Tucson	86.8	55	e 12 44	+ 2	e 23 12	[0]	e 40.2	—
Vienna	87.2	327	e 12 42	- 2	e 23 14	[- 1]	e 49.3	—
Sofia	87.5	319	e 13 20?	+35	23 14	[- 3]	55.3	—
Belgrade	87.6	322	—	—	e 23 26	- 7	e 53.6	—
Cheb	87.8	330	—	—	e 23 20?	[+ 1]	e 45.3	51.3
Ivigtut	87.8	5	—	—	23 26	[+ 7]	50.3	—
Edinburgh	88.6	341	—	—	i 23 38	[+14]	e 46.3	61.3
De Bilt	89.1	335	e 12 52	- 1	e 23 24	[- 3]	e 46.3	64.6
Zagreb	89.2	326	e 12 58	+ 4	e 23 22	[- 6]	e 47.3	51.3
Stonyhurst	90.1	340	—	—	i 22 49	[-44]	e 47.3	49.8
Stuttgart	90.2	331	e 12 57	- 1	e 23 29	[- 5]	e 45.3	51.3
Helwan	90.4	305	e 12 45	-14	23 56	- 4	—	60.7
Triest	90.4	327	e 16 46	PP	23 28	[- 7]	—	52.4
Uccle	90.4	335	e 12 57	- 2	i 23 34	[- 1]	e 47.3	—
Bidston	90.6	340	—	—	e 23 30	[- 6]	e 46.3	—
Strasbourg	90.9	332	e 12 43	-19	i 24 0	- 4	e 46.3	—
Kew	91.5	339	e 13 5	+ 1	e 24 4	- 6	e 46.3	63.4
Oxford	91.6	339	—	—	23 33	[- 9]	—	—
Rathfarnham Castle	91.6	341	e 12 40	-25	i 23 49	{+ 1}	46.3	58.3
Paris	92.7	335	e 12 20?	-50	e 23 48	[. 0]	40.3	62.3
Chicago	94.5	35	—	—	e 30 20	SS	e 52.7	—
Ottawa	96.7	25	—	—	e 24 8	[- 1]	56.3	—
Toronto	96.7	29	—	—	e 23 33	[-36]	54.3	—
Philadelphia	101.5	28	e 19 20	PP	—	—	—	—
Granada	104.9	334	e 17 20	PP	—	—	55.3	—
San Fernando	106.6	335	—	—	e 24 56	[- 1]	55.3	—
San Juan	124.1	32	e 23 23	PPP	e 32 42	SS	e 70.4	—
La Paz	N. 149.3	70	e 19 52	[+11]	—	—	94.3	—

For Notes see next page.

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NOTES TO SEPT. 4d. 8h. 9m. 40s.

Additional readings :—

Kobe iPE = +1m.40s., eZ = +3m.6s., eE = +3m.13s., eZ = +3m.17s.
 Zi-ka-wei PPZ = +4m.20s., iZ = +4m.40s., SSZ = +7m.38s., iZ = +9m.4s.
 Nanking iEN = +4m.49s.
 Chiufeng PPE = +5m.20s., PPNZ = +5m.24s., iZ = +8m.51s.
 Hong Kong PP = +6m.7s., ? = +6m.23s., ? = +10m.41s., SS = +11m.59s.
 Agra PSE = +17m.44s., SSE = +20m.56s.
 Riverview eN = +19m.24s.
 Adelaide e = +27m.2s. = SSSS - 9s., iS = +29m.19s., iPS = +30m.50s., eSS = +34m.1s.
 Melbourne i = +21m.7s. = S_cS + 13s.
 Ukiah e = +31m.20s.
 Tiflis eSSSE = +28m.53s.
 Berkeley eN = +20m.30s.
 Butte e = +32m.56s.
 Scoresby Sund +15m.49s., +27m.2s.
 Tinemaha eZ = +12m.32s.
 Copenhagen = +23m.54s., +27m.44s.
 Bucharest +22m.20s.?
 Ksara PP = +15m.53s., PS = +24m.3s., eSS = +29m.5s.
 Tucson ePS = +24m.16s., eSS = +29m.12s.
 Belgrade e = +24m.57s.
 Edinburgh i = +23m.57s.
 Stuttgart eP_cPZ = +13m.37s., ePPS = +24m.55s., eSS = +29m.48s.
 Helwan PP = +16m.32s., SKKS = +23m.32s., PS = +24m.52s.
 Trieste i = +23m.47s. and +24m.43s.
 Uccle eZ = +16m.44s., iE = +23m.52s., i = +25m.2s.
 Strasbourg iZ = +13m.41s., ePPZ = +16m.31s., eSKKS = +23m.37s., ePPSZ = +25m.6s., eSSN = +29m.47s., eSSSN = +33m.9s.
 Kew ePPZ = +16m.47s., eSPZ = +25m.11s.
 Rathfarnham Castle e = +16m.6s., +18m.39s., and +24m.20s.
 Chicago e = +42m.26s.
 Ottawa eE = +31m.20s. = SS + 5s., eN = +51m.20s.?
 Philadelphia e = +5m.20s., e = +20m.50s.
 San Fernando e = +25m.3s.
 San Juan eP = +26m.59s., eS = +34m.41s., +34m.50s., and +37m.25s.
 Long waves were also recorded at Rio de Janeiro, Jena, Upsala, Florence, Tortosa, Sotchi, Christchurch, Wellington, and Perth.

Sept. 4d. Readings also at 1h. (Medan), 4h. (Almeria and near Santiago), 5h. (Andijan and Frunse), 6h. (Ksara and Oak Ridge), 7h. (Andijan, Samarkand, Frunse, and Semipalatinsk), 10h. (Christchurch, near New Plymouth, Wellington, and near Nagoya), 11h. (Oak Ridge, Tacubaya, near Takaka, and near Medan), 15h. (College), 16h. (Mizusawa and near Malabar), 17h. (Frunse, Samarkand, and near Andijan), 18h. (near Kobe, Nagoya, and Sumoto), 20h. (Graz and near Andijan), 22h. (near Mizusawa), 23h. (Tashkent, Tchimbkent, Frunse, Samarkand, and near Andijan).

Sept. 5d. 21h. 46m. 8s. Epicentre 0°·5S. 133°·5E. (as on 1934 July 19d.). X.

$$A = -.6883, B = +.7253, C = -.0087; \quad \delta = -11;$$

$$D = +.725, E = +.688; \quad G = +.006, H = -.006, K = -1.000.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	19·5	321	i 4 22	- 2	i 8 25	SSSS	—	—
Batavia	27·2	257	5 30	-10	e 10 31	+13	—	—
Adelaide	34·6	170	e 9 1	?	i 14 14	SS	e 17·0	21·0
Nanking	35·4	338	e 4 0	?	7 12	?	—	—
Riverview	37·2	154	—	—	e 14 58	SS	e 19·1	23·8
Melbourne	38·7	165	—	—	i 17 5	?	18·9	20·3
Chiufeng	43·6	342	e 8 1	- 1	14 33	+ 3	—	23·7
Vladivostok	43·6	0	—	—	e 13 30	-60	17·9	24·7
Tashkent	71·3	313	11 19	0	i 20 34	- 3	e 32·9	37·2
Sverdlovsk	81·2	328	i 12 13	- 1	22 27	- 1	35·9	—
Baku	85·5	310	—	—	e 23 12	- 1	e 35·9	—
Tiflis	89·4	312	e 12 52	- 3	e 23 43	- 7	—	—
Ksara	96·6	304	e 13 29	+ 1	e 26 13	PS	—	—
Pulkovo	97·1	331	17 17	PP	23 58	[-14]	49·9	53·8

For Notes see next page.

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NOTES TO SEPT. 5d. 21h. 46m. 8s.

Additional readings :—

Batavia PE = +5m.21s., eSN? = +8m.48s.

Nanking e = +5m.11s.

Vladivostok e = +14m.34s.

Baku PS = +31m.2s.

Ksara e = +19m.59s.

Pulkovo e = +29m.33s.

Long waves were also recorded at Wellington and other European stations.

Sept. 5d. Readings also at 3h. (La Paz and near Sumoto), 4h. (La Paz, Huancayo, Rio de Janeiro, San Juan, Christchurch, Tucson, Granada, Kew, Ksara, Sverdlovsk, and Tashkent), 5h. (La Paz, Cape Town, Wellington, Scoresby Sund, Edinburgh, De Bilt, Stuttgart, Copenhagen, and Baku), 7h. (near Sumoto), 8h. (Andijan), 10h. (near Wellington), 12h. (Almata, Frunse, and Semipalatinsk), 14h. (Ksara), 15h. (Lick), 16h. (Ksara and Tucson), 17h. (Adelaide, Riverview, Sydney, Christchurch, Wellington (2), Apia, Honolulu, Haiwee, Mount Wilson, Pasadena, Tinemaha, Tucson, Oak Ridge, Nagoya, Chiufeng, Vladivostok, Pulkovo, Sebastopol, Simferopol, Theodosia, Yalta, Sverdlovsk, De Bilt, and Almeria), 18h. (Ksara and Tashkent), 19h. (Scoresby Sund, Fresno, near Berkeley, Branner, and Lick), 20h. (Santiago), 21h. (Hong Kong and near Branner), 22h. (Haiwee, Mount Wilson, Pasadena, Tinemaha, Helwan, Sebastopol, Simferopol, Theodosia, Yalta, near Mizusawa, and near Wellington), 23h. (Moscow, Pulkovo, Trieste, Cheb, Tiflis, and near Berkeley).

Sept. 6d. 4h. 49m. 2s. Epicentre 45°·4N. 20°·9E. (as given by Belgrade). N.2.

A = +·6560, B = +·2505, C = +·7120; $\delta = +3$;
D = +·357, E = -·934; G = +·665, H = +·254, K = -·702.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Belgrade	0·7	209	i 0 10	0	i 0 24	+ 6	—	0·8
Sofia	3·3	147	e 0 47	0	1 40	S*	—	—
Zagreb	3·5	280	e 0 58	P _g	i 1 35	+ 5	—	2·3
Bucharest	3·8	104	e 0 59	+ 5	1 58	S _g	—	—
Graz	4·1	294	i 0 57	- 1	i 1 33	-12	i 2·2	3·2
Vienna	4·2	314	e 0 57	- 3	2 16	S _g	—	—
Czernowitz	4·5	48	i 1 8	+ 4	—	—	2·1	—
Laibach	4·5	280	e 2 5	S	(e 2 5)	+10	—	3·8
Lemberg	4·9	24	—	—	e 2 3	- 2	—	3·5
Triest	5·0	270	e 1 15	+ 4	2 42	S _g	—	—
Prague	6·3	319	e 1 22	- 8	e 2 56	+15	—	3·5
Florence	7·1	259	3 8	S	(3 8)	+ 7	—	—
Cheb	7·3	312	e 3 11	S	(e 3 11)	+ 5	—	5·3
Chur	8·0	285	e 1 53	0	—	—	—	—
Jena	8·3	315	e 2 28	+30	e 3 34	+ 3	—	8·6
Stuttgart	8·6	297	e 2 22	+20	e 3 30	- 9	e 4·6	6·5
Zurich	8·7	287	e 1 54	- 9	e 4 30	S _g	—	—
Sebastopol	9·0	91	e 2 3	- 4	e 4 19	S*	—	—
Karlsruhe	9·2	298	e 4 28	S	(e 4 28)	S*	—	—
Simferopol	9·3	88	e 2 7	- 4	e 4 9	+13	—	—
Basle	9·4	288	e 2 0	-13	e 5 25	S _g ?	—	—
Strasbourg	9·5	294	—	—	e 3 45	-16	—	—
Yalta	9·5	91	e 2 19	+ 5	e 4 44	S*	—	—
Neuchatel	9·7	284	e 2 16	- 1	e 5 18	S _g	—	—
Theodosia	10·2	87	e 2 49	+25	e 5 10	S*	—	—
Copenhagen	11·6	336	—	—	6 16	S _g	7·0	—
Uccle	12·3	302	—	—	e 5 38	+28	—	—
Moscow	14·7	39	—	—	e 6 22	+14	—	8·7
Pulkovo	15·4	18	3 23	-11	e 6 15	- 9	7·8	9·1
Ksara	16·3	130	e 3 46	+ 1	e 7 0	SSSS	—	10·6
Tiflis	17·7	94	e 4 3	0	—	—	e 11·4	14·1
Grozny	17·8	87	e 4 12	+ 8	e 9 43	?	—	—
Granada	20·0	255	e 4 33	+ 3	e 8 23	+17	—	—
Sverdlovsk	27·0	51	—	—	e 10 21	+ 6	13·0	14·3
Tashkent	34·9	79	—	—	e 14 48	SSSS	e 19·0	23·3

For Notes see next page.

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NOTES TO SEPT. 6d. 4h. 49m. 2s.

Additional readings :—

Sofia e = +57s.
 Zagreb eEZ = +1m.0s., e = +1m.4s. and +1m.10s., eE = +1m.14s., eEZ = +1m.18s. and +1m.21s., eE = +1m.24s., e = +1m.29s., iS_gE = +1m.40s., e = +1m.46s., i = +2m.2s.
 Bucharest PEN = +1m.10s. and +1m.13s., iEN = +1m.48s.
 Laibach i = +2m.30s., +2m.46s., +3m.7s., and +3m.29s.
 Triest eP_g = +1m.32s., S_g = +2m.53s., i = +3m.27s., and +6m.9s.
 Florence S = +3m.48s.
 Cheb eS? = +4m.8s.
 Jena eN = +3m.58s., iE = +4m.30s.
 Strasbourg iSS = +5m.18s., iSSS = +5m.21s., i = +5m.38s., +6m.45s., and +7m.28s.
 Theodosia e = +5m.53s.
 Moscow e = +7m.22s.
 Tashkent e = +16m.2s.
 Long waves were also recorded at Baku, Vladivostok, Upsala, and other European stations.

Sept. 6d. 17h. 39m. 35s. Epicentre 21°·1S 174°·4W. (as on 1936 Aug. 17d.) R.2.

A = -·9285, B = -·0910, C = -·3600 ; δ = -1 ;
 D = -·098, E = +·995 ; G = +·358, H = +·035, K = -·933.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	7·7	19	e 2 0	+11	e 3 23	+ 7	—	—
Arapuni	19·0	205	e 7 37	S	(e 7 37)	- 9	—	9·4
Wellington	22·2	202	8 38	S	(8 38)	- 2	10·4	12·4
Christchurch	24·9	203	i 5 11k	- 8	i 9 24	-15	11·2	12·8
Riverview	33·0	240	e 7 31	PP	—	—	e 16·1	18·6
Sydney	33·0	240	e 6 55	+23	e 11 55	+ 4	17·1	19·7
Melbourne	38·8	235	i 7 17	- 5	i 16 25	SSSS	i 21·4	23·9
Adelaide	43·3	241	e 9 19	PP	e 14 20	- 5	—	24·1
Honolulu	45·4	21	—	—	i 15 8	+12	18·4	—
Manila	72·8	294	i 11 26	- 2	20 57	+ 3	34·6	—
Santa Barbara	z. 76·0	44	e 11 47	+ 1	—	—	—	—
La Jolla	z. 76·7	46	e 11 51	+ 1	—	—	—	—
Berkeley	76·7	39	(11 47)	- 3	(e 21 41)	+ 2	—	—
Pasadena	76·9	44	e 11 51	0	e 31 7	SSSS	e 32·4	—
Ukiah	76·9	39	e 11 25	-26	e 21 41	- 1	—	—
Haiwee	78·2	42	e 11 59	+ 1	—	—	—	—
Tinemaha	78·6	41	e 11 58	- 2	—	—	—	—
Zi-ka-wei	z. 80·7	309	12 15	+ 3	—	—	—	49·9
Tucson	80·8	49	e 12 13	+ 1	e 22 21	- 3	e 38·9	—
Vladivostok	80·9	323	e 12 12	- 1	22 34	+ 9	—	44·4
Nanking	N. 83·1	308	—	—	e 21 40	-68	—	—
Bozeman	88·0	39	—	—	e 23 38	+ 1	—	—
College	88·4	12	—	—	e 23 7	[-16]	—	—
Chiufeng	89·0	314	i 12 53a	0	23 21	[- 5]	—	54·9
Huancayo	93·9	105	—	—	e 23 55	[0]	e 43·9	—
Colombo	107·1	271	24 57	S	(24 57)	[- 3]	—	68·1
Toronto	107·9	50	—	—	e 26 25?	{+33}	52·4	—
Philadelphia	110·2	54	—	—	e 25 13	[- 1]	56·9	—
Kodaikanal	E. 110·5	274	—	—	e 25 13	[- 3]	—	—
Ottawa	110·8	46	—	—	e 26 55	{+42}	58·4	—
San Juan	113·0	78	—	—	e 25 50	[+24]	e 55·4	—
Bombay	117·2	282	—	—	e 25 25	[-16]	—	71·8
Tashkent	123·2	307	18 52	[- 1]	25 55	[- 5]	—	82·4
Sverdlovsk	126·4	326	e 19 5	[+ 5]	26 16	[+ 7]	53·4	74·4
Pulkovo	137·5	341	e 20 23	[+65]	e 28 53	[-15]	65·4	85·9

Continued on next page.

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	Δ °	Az. °	P. m. s.	O - C. s.	S. m. s.	O - C. s.	L. m.	M. m.
Baku	137.9	308	19 25	[+ 6]	e 29 36	{+25}	e 62.4	92.9
Moscow	138.0	333	i 22 13	PP	—	—	68.8	80.1
Grozny	140.0	313	e 22 1	PP	—	—	—	—
Tiflis	141.2	311	19 20	[- 3]	e 29 36	{+ 5}	e 61.7	85.6
Edinburgh	144.6	9	—	—	e 41 49	SS	e 87.4	—
Copenhagen	145.0	351	19 37	[+ 3]	e 26 7	?	74.4	—
Theodosia	145.8	322	e 19 37	[+ 1]	—	—	—	—
Simferopol	146.5	322	e 19 38	[+ 2]	—	—	—	—
Rathfarnham Castle	146.6	13	e 19 55	[+18]	—	—	74.4	91.4
Yalta	146.8	322	e 19 39	[+ 2]	—	—	—	—
Sebastopol	147.1	322	e 19 40	[+ 3]	—	—	—	—
Hamburg	147.3	356	e 19 25	[-13]	—	—	e 85.4	94.4
De Bilt	149.0	1	e 19 46	[+ 6]	e 42 43	SS	e 80.4	97.8
Kew	149.3	7	e 20 0	[+19]	—	—	e 75.4	92.0
Uccle	150.3	2	e 19 45	[+ 3]	—	—	e 80.4	—
Ksara	150.4	300	i 19 43	[+ 1]	33 49	SKSP	—	—
Paris	152.2	4	e 19 48	[+ 4]	—	—	82.4	92.4
Stuttgart	152.2	355	e 19 49	[+ 5]	—	—	e 84.4	—
Strasbourg	152.5	357	e 19 52	[+ 7]	—	—	e 86.4	—
Helwan	155.3	296	20 13	[+25]	e 30 45	{- 7}	—	—
San Fernando	161.5	31	e 20 3	[+ 8]	e 32 56	?	84.9	—
Granada	162.0	24	20 0	[+ 4]	—	—	84.4	—

Additional readings :—

Arapuni S? = +8m.49s.
 Wellington S = +10m.0s.
 Christchurch P_cPN = +9m.2s.
 Adelaide e = +13m.6s. and +15m.55s., i = +17m.59s. = SSS - 5s.
 Berkeley eN = +21m.31s.; readings are given for 18 hours.
 Pasadena eEZ = +15m.7s.
 Tucson ePS = +23m.22s., eSS = +27m.55s.
 Bozeman e = +39m.46s.
 Chiufeng SNZ = +23m.59s., PS? = +24m.48s.
 Huancayo e = +51m.3s.
 Toronto eN = +33m.51s. = SS + 1s.
 Philadelphia e = +54m.55s.
 Ottawa eE = +28m.43s. = PS + 8s., e = +34m.43s.
 San Juan e = +27m.12s. and +29m.26s.
 Tashkent PP = +20m.16s., e = +20m.36s. = PP + 6s., e = +21m.1s., SKKS = +27m.14s., PS = +30m.22s., PPS = +31m.49s., SS = +37m.19s.
 Sverdlovsk PP = +21m.1s., PKS = +22m.25s., PS = +31m.8s.
 Pulkovo PP = +22m.54s., PKS = +23m.26s., PPP = +25m.47s., e = +32m.39s., SS = +40m.31s.
 Baku e = +22m.43s.
 Moscow e = +36m.55s. and +42m.7s.
 Grozny e = +25m.4s.
 Tiflis PPZ = +22m.30s., PKSE = +23m.6s., ePPPE = +25m.48s.
 Copenhagen eN = +19m.49s., SKKS = +29m.49s., SKSP = +33m.11s., SS = +41m.25s., SSS = +46m.37s.
 Uccle e = +23m.25s. ? = PP + 3s.
 Ksara PP = +23m.28s., SS = +42m.41s.
 Paris ePP = +24m.1s.
 Stuttgart ePKP,Z = +20m.9s.
 Strasbourg eN = +22m.45s.
 San Fernando ePKP = +20m.11s.
 Long waves were also recorded at Hong Kong, Cape Town, Rio de Janeiro, Scoresby Sund, Ivigtut, and other American and European stations.

Sept. 6d. Readings also at 1h. (near Kobe, Nagoya (2), and Sumoto), 3h. (Oak Ridge), 4h. (Kobe, Sumoto, Nagoya, and Hukuoka B), 5h. (Bucharest and Ksara), 6h. (Copenhagen, Stuttgart, Trieste, and Tiflis), 7h. (Mount Wilson, Pasadena, Tinemaha, Tucson, and Philadelphia), 11h. (near Santiago and near Tucson), 12h. (Santiago), 15h. (Bucharest, Sofia, Ksara, and Tiflis), 16h. (Nagoya), 18h. (Hong Kong and Huancayo), 20h. (Grozny, Tashkent, Frunse, Tchinkent, near Andijan, and Samarkand), 21h. (Oaxaca and near Granada), 22h. (Grozny, Tiflis, Frunse, Tinemaha, Pasadena, near Erevan, near Andijan, and near La Paz).

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Sept. 7d. 2h. 30m. 49s. Epicentre 27°·5N. 87°·0E. (as on 1936 June 9d.). X.

$$A = +0.0464, B = +0.8858, C = +0.4617; \quad \delta = -4;$$

$$D = +0.999, E = -0.052; \quad G = +0.024, H = +0.461, K = -0.887.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Bombay	15.6	239	i 4 29	+53	i 8 1	?	10.2	13.4
Andijan	17.9	322	e 4 3	-2	—	—	—	—
Frunse	18.4	330	e 4 7	-4	—	—	—	—
Tashkent	20.0	319	i 4 25	-5	i 8 6	0	10.6	12.8
Samarkand	20.6	311	e 4 41	+5	—	—	—	—
Chiufeng	27.1	54	9 57	S	(9 57)	-20	—	—
Zi-ka-wei	30.1	74	—	—	e 11 23	+17	—	18.9
Sverdlovsk	34.8	335	i 6 48	+1	—	—	16.7	—
Grozny	36.7	307	e 7 13	+9	—	—	—	—
Tiflis	37.1	304	e 6 58	-9	13 18	+25	e 19.2	—
Ksara	44.0	291	e 8 12	+7	e 15 1	+25	—	—
Moscow	45.1	322	i 8 17	+3	—	—	23.6	28.8
Simferopol	45.1	307	e 8 20	+6	—	—	—	—
Pulkovo	49.9	327	8 51	0	16 5	+6	24.2	30.5

Additional readings :—

Andijan e = +9m.42s.

Chiufeng PZ = +10m.3s., SN = +13m.33s., iN = +13m.58s., iZ = +15m.58s.

Long waves were also recorded at Calcutta, Hyderabad, Kodaikanal, and European stations.

Sept. 7d. 8h. 52m. 30s. Epicentre 29°·0N. 61°·0E. (as on 1935 Sept. 22d.). X.

$$A = +0.4240, B = +0.7650, C = +0.4848; \quad \delta = +3;$$

$$D = +0.875, E = -0.485; \quad G = +0.235, H = +0.424, K = -0.875.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Samarkand	11.7	23	e 2 50	+6	e 4 10	-45	—	—
Tashkent	14.0	27	2 54	-21	—	—	e 5.7	9.4
Baku	14.6	325	e 5 11	S	(5 11)	-54	9.3	11.0
Andijan	15.0	35	e 3 7	-21	—	—	e 7.3	—
Tchinkent	15.0	25	—	—	e 5 36	-39	e 7.5	—
Frunse	17.7	34	e 3 52	-11	e 7 2	-15	—	—
Tiflis	18.3	319	e 3 45	-25	e 8 6	+35	e 9.9	—
Grozny	18.8	324	4 5	-11	—	—	—	—
Ksara	21.9	287	e 4 56	+6	e 8 55	+11	—	—
Helwan	25.8	280	e 5 37	+10	i 10 17	+22	—	—
Sverdlovsk	27.8	0	e 5 40	-5	e 10 8	-20	14.5	—
Moscow	31.5	335	—	—	e 11 53	+25	19.0	21.8
Pulkovo	37.1	335	e 9 14	?	e 14 52	SS	19.5	23.5

Additional readings :—

Tashkent e = +3m.20s., +3m.37s., and +3m.59s.

Baku eS = +7m.38s.

Tiflis eE = +3m.57s.

Moscow e = +16m.27s.

Long waves were also recorded at Bombay, Chiufeng, and Copenhagen.

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Sept. 7d. 12h. 17m. 28s. Epicentre 58°·5S. 35°·0W. N.3.

$$A = +.4280, B = -.2997, C = -.8526; \quad \delta = -7;$$

$$D = -.574, E = -.819; \quad G = -.698, H = +.489, K = -.522.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Rio de Janeiro	36.1	347	i 7 0	+ 1	—	—	i 14.8	—
Cape Town	42.7	78	e 7 28	-26	i 12 41	?	19.7	—
La Paz	48.6	316	i 8 43k	+ 2	i 15 37	- 4	24.5	32.1
Huancayo	55.4	310	e 9 24	- 8	e 17 21	+ 6	e 26.5	—
Christchurch	75.4	200	11 43	0	21 40	+15	—	42.6
San Juan	81.1	330	e 12 13	- 1	e 22 42	+15	—	—
San Fernando	98.0	23	—	—	e 24 7	[- 9]	44.5	—
Ksara	109.4	57	e 18 34	[+18]	—	—	50.5	58.5
Tucson	110.3	299	e 19 22	PP	e 28 20	PS	e 54.0	—
Kodaikanal	E. 110.4	104	—	—	e 24 32?	[-43]	—	—
Paris	111.6	26	—	—	e 35 32?	SS	58.5	—
Pasadena	115.3	295	i 18 25	[- 9]	i 20 0	?	—	—
Mount Wilson	z. 115.3	295	i 18 27	[- 7]	—	—	—	—
Tinemaha	117.7	296	i 18 29	[-11]	e 20 22	?	—	—
Tifis	119.2	58	e 19 57	PP	e 25 49	[+ 1]	e 55.0	69.3
Copenhagen	120.3	29	—	—	29 7	SKSP?	60.5	—
Baku	121.1	63	e 19 6	[+18]	e 28 13	{+49}	53.5	66.8
Moscow	128.1	43	20 54	PP	—	—	—	—
Pulkovo	128.8	37	20 47	PP	—	—	57.5	68.6
Tashkent	131.3	76	e 19 39	[+30]	25 34	[-49]	e 61.6	79.2
Manila	132.6	148	18 56	[-15]	(25 47)	[-39]	25.8	—
Sverdlovsk	137.9	55	i 19 1	[-18]	—	—	62.5	—
Nanking	148.2	135	e 19 23	[-16]	—	—	—	—
Zi-ka-wei	148.4	140	19 24	[-15]	—	—	—	—
Chiufeng	z. 154.0	123	19 25a	[-22]	—	—	—	—
Nagoya	156.1	166	e 19 9	[-40]	—	—	—	—

Additional readings :—

Cape Town ePPPE = +8m.19s., ?E = +13m.19s., ?N = +13m.30s., N = +15m.22s., E = +15m.25s., iSS = +15m.39s., SSSE = +16m.58s., SSSN = +17m.2s. = SS - 4s.

La Paz iE = +16m.29s.

Huancayo e = +9m.58s., +10m.20s., +11m.28s. = PP - 1s., +11m.32s., +13m.5s., and +18m.24s.

San Juan e = +21m.43s.

San Fernando eS = +24m.19s.

Ksara ePPP = +20m.52s., ePS = +27m.34s., ePPS = +28m.16s.

Tucson ePS = +30m.12s., eSS = +35m.14s.

Tifis eN = +20m.3s., ePSN = +29m.8s., eN = +35m.32s.

Copenhagen = +35m.2s.

Baku PS = +29m.25s., SS = +35m.38s.

Pulkovo PS = +30m.30s., e = +33m.13s., SS = +37m.2s., SSS = +42m.2s.

Tashkent PPP = +21m.13s., i = +21m.19s., e = +21m.56s., PS = +28m.14s., e = +29m.22s., e = +31m.12s., SS = +32m.38s., SSS = +37m.38s.

Manila SEN = +23m.12s.

Sverdlovsk iPP = +19m.28s., PPP = +21m.56s., e = +23m.6s., SSS = +38m.56s.

Long waves were also recorded at De Bilt, Kew, Bidston, Stuttgart, Strasbourg, Göttingen, Cheb, and Bergen.

Sept. 7d. Readings also at 0h. (Riverview, Sydney, Sverdlovsk, Frunse, Tifis, Tashkent, and near Andijan), 3h. and 5h. (near Berkeley), 6h. (Apia, Christchurch, Haiwee, La Jolla, Mount Wilson, Pasadena, Tinemaha, Tashkent, Baku, Sverdlovsk, Andijan, Frunse, Tifis, and Samarkand), 7h. (Sverdlovsk (2), Tashkent, Pulkovo, Ksara, Semipalatinsk, Simferopol, Sebastopol, Theodosia, Yalta, Keizyo, and near Chiufeng), 8h. (Copenhagen, Baku, Tashkent, and Hong Kong), 11h. (Fresno, Lick, Haiwee, La Jolla, Mount Wilson, Pasadena, Santa Barbara, and Tinemaha), 12h. (Huancayo, La Plata, La Paz, Tinemaha, Mount Wilson, Pasadena, and near Lick), 13h. (Zi-ka-wei), 16h. (Mount Wilson, Pasadena, Baku, Sverdlovsk, Ksara, Tifis, Platigorsk, Sochi, Tashkent, near Erevan, and Grozny), 22h. (Kobe, near Nagoya, Sumoto, and Toyooka), 23h. (Bozeman, Butte, near Mizusawa, and Nagoya (2)).

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Sept. 8d. Readings at 0h. (Tifis, near Mizusawa, and Nagoya (2)), 1h. (Christchurch, Frunse, Samarkand, near Andijan, and near Triest), 2h. (Kobe, near Mizusawa, Nagoya, and near Wellington), 7h. (near Nagoya (2), Kobe (2), and Sumoto (2)), 8h. (Bombay, Frunse (2), Samarkand (2), Agra, and near Calcutta), 9h. (near Wellington), 12h. (Almeria, Mount Wilson, and Tinemaha), 14h. (Chiufeng, Nanking, and Nagoya), 15h. (Christchurch, Wellington, Huancayo, San Juan, Tucson, Mount Wilson, Pasadena, Tinemaha, and Rio de Janeiro), 16h. (La Paz, Huancayo, Mount Wilson, Pasadena, Tinemaha, Honolulu, Tucson, Ukiah, Christchurch, Wellington, Baku, Sverdlovsk, Pulkovo, Tashkent, and Ksara), 17h. (Andijan, Tifis, Samarkand, Copenhagen, Kew, Paris, Granada, Stuttgart, and Scoresby Sund), 18h. (Tucson, Frunse, Samarkand, Tashkent, and near Andijan), 19h. (near Nagoya), 20h. (Mount Wilson, Pasadena, and Tinemaha), 21h. (Calcutta).

Sept. 9d. 2h. 45m. 11s. Epicentre $4^{\circ}8'S$. $128^{\circ}4'E$. (as on 1932 April 18d.). R.3.

$$A = -.6190, B = +.7809, C = -.0837; \quad \delta = -3;$$

$$D = +.784, E = +.621; \quad G = +.052, H = -.066, K = -.996.$$

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.	s.	m.	s.	s.	m.		
Amboina	+0.3	1.2	348	i 0	15	- 6	i 0	44	+ 5	—	—	—	—
Palau	-0.3	13.6	27	3	3	- 3	4	35	-59	—	—	—	—
Manila	-0.6	20.8	339	4	34a	+ 2	i 8	14	+ 4	—	—	—	—
Malabar	-0.6	20.8	262	e 4	39	+ 7	e 8	29	+19	—	—	—	—
Batavia	-0.7	21.5	265	i 4	45	+ 7	8	36	+14	—	—	—	—
Hong Kong	-1.0	30.5	334	—	—	—	10	44	-12	12.6	14.4	—	—
Medan	-1.0	30.9	286	e 7	22	+78	12	43	SSSS	—	—	—	—
Hukuoka B	-1.3	38.4	3	e 12	38	S	(12	38)	-15	—	—	—	—
Kobe	-1.3	40.0	9	e 7	32	+11	e 13	45	+28	—	—	—	—
Nagoya	-1.3	40.8	12	e 7	10	-18	13	13	-16	—	—	—	—
Oiwake	-1.3	42.2	13	7	17	-23	12	47	-63	—	—	—	—
Nagano	-1.4	42.5	12	8	28	+47	—	—	—	—	—	—	—
Chiufeng	-1.4	46.3	346	e 8	9	- 3	e 14	46	- 3	—	—	—	—
Vladivostok	-1.5	48.0	4	e 9	11	+46	e 15	0	-12	—	—	—	—
Frunse	-2.0	68.0	321	e 10	43	- 2	e 19	29	- 3	—	—	—	—
Andijan	-2.0	68.4	317	e 10	48	0	—	—	—	—	—	—	—
Tashkent	-2.0	70.8	317	i 11	1	- 2	i 19	59	- 8	e 34.3	37.7	—	—
Semarkand	-2.0	71.7	315	e 11	7	- 2	—	—	—	—	—	—	—
Sverdlovsk	-2.1	82.2	329	i 12	10	+ 2	i 22	5	-12	38.8	—	—	—
Tifis	-2.1	88.5	312	12	38	- 2	e 23	6	-15	e 48.8	—	—	—
Ksara	-2.2	94.2	303	e 12	56	-11	e 24	46	+31	—	—	—	—
Moscow	-2.2	94.5	326	—	—	—	e 24	1	-16	—	—	—	—
Pulkovo	-2.2	98.2	330	e 21	7	?	e 31	13	SS	47.8	—	—	—

Additional readings :—

Hong Kong SS? = +11m.34s.

Medan eSE = +13m.13s.

Hukuoka B eS = +15m.39s.

Kobe eEZ = +8m.13s.

Vladivostok e = +11m.51s. and +16m.49s.

Tifis eSE = +22m.45s., eE = +24m.37s.

Sept. 9d. Readings also at 2h. (Bucharest, Sofia, and near Sumoto), 3h. (near Andijan (2)), 4h. (Berkeley, Branner, Lick, Fresno, Tucson, and Sumoto (2)), 6h. (Sumoto), 7h. (Mount Wilson, Pasadena, Tinemaha, near Wellington, and near Tifis), 8h. (La Plata), 9h. (Mount Wilson, Pasadena, Tinemaha, and Scoresby Sund), 10h. (near Tashkent), 20h. (Nagoya and near Oak Ridge).

Sept. 10d. Readings at 3h. (near Wellington), 11h. (Sofia), 15h. (near Wellington), 17h. (near Andijan), 19h. (Port au Prince), 21h. (San Juan), 22h. (Yalta).

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Sept. 11d. 9h. 22m. 2s. Epicentre $39^{\circ}6'N$. $73^{\circ}8'E$. (as on 1936 March 1d.). X.
near the position $39^{\circ}8'N$. $73^{\circ}9'E$. given by the stations.

$$A = +.2150, B = +.7399, C = +.6374; \quad \delta = -4;$$

$$D = +.960, E = -.279; \quad G = +.178, H = +.612, K = -.770.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Andijan	1.6	314	0 19	- 4	i 0 42	+ 1	0.8
Frunse	3.4	9	e 0 50	+ 1	1 36	+ 9	—
Tashkent	3.8	295	e 0 53	- 1	i 1 46	+ 9	2.4
Samarkand	5.2	271	1 21	+ 7	i 2 33	S*	—

Additional readings:—

Andijan iPP = +27s., i = +32s., +35s., and +37s.

Frunse iPP = +1m.2s. and +1m.5s., iPS = +1m.30s., i = +1m.40s., S_g = +1m.44s.

Tashkent i = +59s., +1m.8s., and +1m.26s., e = +1m.29s., i = +1m.36s.

Long waves were also recorded at Semipalatinsk and Sverdlovsk.

Sept. 11d. Readings at 1h. (near Berkeley), 5h. (near Nagoya and Sumoto), 10h. (Moscow), 11h. (Sverdlovsk), 18h. (Tortosa), 19h. (near Tananarive), 20h. (near Oak Ridge and near Santiago), 21h. (Tacubaya).

Sept. 12d. 10h. 57m. 3s. Epicentre $35^{\circ}6'N$. $140^{\circ}8'E$. (as on 1936 July 4d.). R.3.

$$A = -.6292, B = +.5150, C = +.5821; \quad \delta = -4;$$

$$D = +.632, E = +.775; \quad G = -.451, H = +.368, K = -.813.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Tukubasan	0.8	318	0 14k	+ 3	0 25	+ 4	—	—
Tokyo (Cent. Met.)	0.9	276	0 10	- 3	0 20	- 3	—	0.4
Tokyo (Imp. Univ.)	0.9	276	0 12	- 1	0 22	- 1	—	—
Komaba	0.9	273	0 13	0	0 24	+ 1	—	—
Kamakura	1.0	254	0 16	+ 2	0 29	+ 3	—	—
Mitaka	1.0	274	0 14	0	0 27	+ 1	—	—
Susaki	1.7	238	0 19	- 5	0 43	- 1	—	—
Nagoya	3.2	262	0 53	P*	1 45	S _g	—	2.3
Mizusawa	3.5	4	e 1 3	P _g	i 1 59	S _g	—	—
Kobe	4.7	260	e 1 18	P*	2 13	+13	—	2.6
Sumoto	5.0	257	e 1 47	?	2 32	S*	—	2.9
Vladivostok	10.1	320	e 2 26	+ 4	—	—	5.4	8.0
Chiufeng	19.8	291	e 4 48	+21	e 8 6	+ 4	—	—

Sumoto gives also eZ = +1m.58s.

Long waves were also recorded at Nanking, Tashkent, and Ksara.

Sept. 12d. 17h. 59m. 6s. Epicentre $24^{\circ}4'N$. $120^{\circ}6'E$. R.2.
(as on 1936 July 20d. and near position $24^{\circ}4'N$. $120^{\circ}8'E$. attributed by Taihoku)

$$A = -.4636, B = +.7839, C = +.4131; \quad \delta = +8;$$

$$D = +.861, E = +.509; \quad G = -.210, H = +.356, K = -.911.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Taihoku	1.1	45	i 0 14 _a	- 2	0 27	- 1	—	0.5
Hong Kong	6.2	252	1 32	+ 4	2 37	+ 9	3.3	4.1
Nanking	7.8	351	e 1 49	- 2	e 3 25	+ 6	4.0	5.2
Manila	9.8	178	2 21	+ 3	4 30	+22	5.9	—
Hukuoka B	12.5	40	e 3 20	+25	e 6 58	S _g	—	—
Husan	13.0	32	e 5 41	S	(e 5 41)	+14	—	—
Phu-Lien	13.4	256	e 3 14	+ 7	i 7 15	L	(7.3)	—
Taikyu	13.4	29	e 2 52	-15	e 6 7	+30	—	—
Zinsen	14.1	20	e 3 17	0	e 7 22	?	(e 7.4)	—
Keizyo	14.2	21	e 3 21	+ 3	e 7 13	?	(e 7.2)	—

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.
Heizyo	15.3	15	e 5 58	?	i 7 59	?	(i 8.0)	—
Sumoto	15.9	48	e 3 52	+12	—	—	—	—
Chiufeng	16.1	248	e 3 43	0	e 6 46	+ 5	8.3	9.3
Kobe	16.3	48	e 4 56	+71	—	—	—	12.3
Nagoya	17.8	49	e 4 10	+ 6	11 5	?	—	—
Vladivostok	20.9	24	i 4 40	+ 1	e 8 42	+18	10.7	18.3
Calcutta	N. 29.6	273	—	—	e 11 32	+34	—	20.2
Agra	E. 38.3	283	—	—	e 13 26	+15	—	—
Semipalatinsk	40.5	321	—	—	e 13 48	+ 4	—	—
Frunse	41.9	308	e 8 16	+28	—	—	e 23.0	—
Andijan	43.2	304	e 8 36	+38	—	—	e 24.4	—
Tashkent	45.5	305	e 8 25	+ 8	e 15 4	+ 7	25.6	28.1
Samarkand	47.2	302	e 7 54	-36	—	—	—	—
Sverdlovsk	53.5	324	e 9 25	+ 7	e 17 5	+16	26.4	29.5
Tifis	63.8	307	e 10 25	- 6	e 19 15	+10	e 38.4	—
Pulkovo	69.2	328	e 11 34	+28	e 20 18	+ 7	37.9	39.8
Ksara	72.6	299	e 11 5	-21	e 20 37	-15	—	—
Copenhagen	79.6	327	—	—	e 22 18	+ 7	39.9	—

Additional readings :—

Hong Kong ? = +2m.19s.

Nanking iEN = +3m.50s.

Husan eS = +7m.33s.

Sumoto eZ = +3m.57s., eN = +4m.6s.

Kobe eE = +9m.36s., eN = +9m.46s.

Calcutta iN = +13m.9s.

Tifis ePPPZ = +14m.29s., eSSZ = +24m.4s., eZ = +31m.38s.

Pulkovo e = +25m.37s.

Long waves were also recorded at Bombay, Kodaikanal, Medan, Baku, Moscow, Scoresby Sund, and other European stations.

Sept. 12d. Readings also at 0h. (near Malabar), 1h. (2) and 4h. (2) (near Wellington), 5h. (Samarkand and near Tananarive), 6h. (Batavia, Sebastopol, Simferopol, Theodosia, and Yalta), 7h. (Mizusawa), 8h. (Wellington), 12h. (near Grozny), 13h. (Piatigorsk), 16h. (Ksara, Sverdlovsk, Pulkovo, Copenhagen, Yalta (2), Simferopol (2), Sebastopol (2), Theodosia, De Bilt, Strasbourg, Bergen, Uccle, Stuttgart, Padova, Belgrade, Zagreb (2), near Bucharest (2), and Sofia (2)), 17h. (Ksara, Sofia, and Trieste), 20h. (Bergen), 21h. (Mount Wilson, Pasadena, Riverside, Tinemaha, La Paz, La Plata, and Santiago).

Sept. 13d. 3h. 3m. 1s. Epicentre 44°·0N. 21°·0E. (as on 1929 July 19d.). X.

A = +·6716, B = +·2578, C = +·6946; δ = -3;

D = +·358, E = -·934; G = +·649, H = +·249, K = -·719.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Belgrade	0.9	334	i 0 11	- 2	i 0 16	- 7	0.3
Sofia	2.1	128	e 0 34	+ 4	e 1 11	+17	—
Zagreb	4.0	298	1 1	+ 4	1 43	+ 1	—
Triest	5.4	290	e 1 10	- 7	2 11	+ 7	—

Additional readings :—

Triest iN = +2m.31s. and +3m.2s.

Long waves were recorded at Strasbourg and Stuttgart.

Sept. 13d. Readings also at 0h. (near Santiago), 4h. (Theodosia, Yalta, Pulkovo, Sverdlovsk, Copenhagen, Uccle, De Bilt, Kew, Strasbourg, and Stuttgart), 7h. and 8h. (Tifis), 16h. (Andijan, Frunse, Tashkent, near Samarkand, and near Ebingen), 17h. (near Branner), 19h. (Strasbourg), 21h. (Christchurch and Oak Ridge), 22h. (near New Plymouth).

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Sept. 14d. 0h. 23m. 11s. Epicentre $37^{\circ}4'N$. $141^{\circ}5'E$. (as on 1936 July 18d.). R.2.

$$A = -.6217, B = +.4945, C = +.6074; \quad \delta = -2;$$

$$D = +.623, E = +.783; \quad G = -.475, H = +.378, K = -.794.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Onahama	0.7	226	0 8	- 2	0 21	+ 3	—
Hokusima	0.9	293	0 13 _k	0	0 26	+ 3	—
Sendai	1.0	330	0 12 _k	- 2	0 25	- 1	—
Aidu	1.1	279	0 26 _a	+10	0 37	+ 9	—
Isinomaki	1.1	352	0 11	- 5	0 23	- 5	—
Mito	1.3	219	0 21	+ 3	0 40	+ 7	—
Yamagata	1.3	313	0 18	0	0 33	0	—
Kakioka	1.6	222	0 23	0	0 44	+ 3	—
Utunomiya	1.6	237	0 23	0	0 44	+ 3	—
Tukubasan	1.7	223	0 24	0	0 46	+ 2	—
Tyosi	1.7	197	0 27	+ 3	0 47	+ 3	—
Mizusawa	1.8	350	e 0 19	- 7	i 0 40	- 6	—
Kumagaya	2.1	234	0 32	+ 2	0 58	+ 4	—
Maebasi	2.2	241	0 32 _a	+ 1	1 1	+ 4	—
Tokyo	2.2	219	0 39	P _r	1 4	S*	—
Miyako	2.3	10	0 21	-12	0 50	- 9	—
Morioka	2.3	353	0 28 _a	- 5	0 54	- 5	—
Yokohama	2.5	217	0 46	+10	—	—	—
Akita	2.6	334	0 33	- 4	1 3	- 4	—
Oiwake	2.6	246	0 38	+ 1	1 17	S*	—
Nagano	2.8	254	0 41	+ 1	1 16	+ 4	—
Mera	2.9	209	0 51	P _r	—	—	—
Hunatu	3.0	228	0 43	0	1 23	+ 6	—
Kohu	3.0	232	0 43	0	1 14	- 3	—
Hatinohe	3.1	0	0 37	- 7	0 56	-24	—
Misima	3.1	222	0 45	+ 1	—	—	—
Numadu	3.1	223	0 58	P _r	1 27	+ 7	—
Aomori	3.5	351	0 31	-19	1 21	- 9	—
Toyama	3.5	257	0 51	+ 1	—	—	—
Wazima	3.7	274	0 52	- 1	1 33	- 2	—
Omaesaki	3.9	222	1 11	P _r	2 28	+48	—
Hamamatu	4.1	228	1 14	P _r	2 3	S*	—
Gihu	4.3	243	1 5	+ 4	1 52	+ 2	—
Nagoya	4.3	240	1 5	+ 4	1 58	+ 8	2.2
Hatidyozima	4.5	198	1 8	+ 4	1 53	- 2	—
Kameyama	4.8	238	1 21	P*	2 18	S*	—
Osaka	5.5	242	1 57	+39	2 52	S _r	—
Wakayama	6.1	239	2 9	+42	3 1	S*	—

Sept. 14d. Readings also at 1h. (near Mizusawa and near Nagoya), 3h. (Mount Wilson, Pasadena, Christchurch, near New Plymouth, Tuai, and Wellington), 4h. (Paris), 6h. (Nagoya, near Mizusawa, and near Hukuoka B), 8h. (near La Paz), 9h. (near Mizusawa (2)), 12h. (Arapuni), 14h. (Tifis, Ksara, Sverdlovsk, Pulkovo, Copenhagen, Stuttgart, De Bilt, Strasbourg, Trieste, and Zagreb), 15h. (Tifis), 21h. (near Batavia and Malabar), 23h. (Ksara and near Wellington).

Sept. 15d. Readings at 0h. (Berkeley, Branner, Lick, and Granada), 2h. (Sverdlovsk, Tashkent, Paris, and near Berkeley), 3h. (Andijan and Mizusawa), 5h. (Samarkand, near Andijan, and near Nagoya), 6h. (Tashkent), 7h. (Erevan, Paris, and near Tifis), 12h. (Mount Wilson, Tinemaha, and Pasadena), 13h. (Pulkovo, Tashkent, Chiufeng, Tifis, Hong Kong, Nagoya, near Branner, near Santiago, and near Manila), 14h. (Pulkovo, Sverdlovsk, Copenhagen, Tashkent, Manila, Sydney, Kew, De Bilt, and near Nagoya), 15h. (Paris), 18h. (near Berkeley), 19h. (Sofia), 20h. (Oak Ridge, Sofia, Bucharest, Simferopol, Theodosia, Yalta, and near Sebastopol), 21h. (La Paz, La Plata, and near Santiago), 22h. (Oak Ridge, Mount Wilson, Pasadena, Tinemaha, Rio de Janeiro, Andijan, Frunse, Ksara, Sverdlovsk, and Pulkovo).

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Sept. 16d. 9h. 22m. 30s. Epicentre 20°·2S. 174°·2W. (as on 1936 July 23d.). R.3.

$$A = -.9337, B = -.0948, C = -.3453; \quad \delta = +1;$$

$$D = -.101, E = +.995; \quad G = +.344, H = +.035, K = -.938.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	6.7	21	1 36	+ 1	i 3 1	+10	—	—
Adelaide	43.9	240	—	—	e 17 44	SS	—	28.1
La Jolla	N. 76.0	47	e 11 41	- 5	—	—	—	—
Pasadena	76.1	45	i 11 46	- 1	—	—	—	—
Mount Wilson	z. 76.2	45	i 11 47	0	—	—	—	—
Haiwee	z. 77.4	43	e 11 55	+ 1	—	—	—	—
Tinemaha	77.8	43	i 11 56	- 1	—	—	—	—
Chiufeng	88.5	315	12 51 _a	+ 1	e 23 21?	[- 2]	—	—
Tashkent	122.9	307	e 17 42	[- 71]	e 26 25	[+ 26]	e 59.6	73.7
Sverdlovsk	125.7	327	e 20 58	PP	—	—	52.5	—
Pulkovo	136.7	342	e 19 22	[+ 5]	e 28 58	{- 5}	73.5	77.7
Baku	137.5	308	e 22 11	PP	e 42 0	SS	e 66.5	—
Tiflis	140.8	312	e 19 28	[+ 6]	e 28 52	{- 37}	e 76.0	88.1
Copenhagen	144.1	353	e 19 30	[- 1]	—	—	79.5	—
Theodosia	145.2	322	e 19 38	[+ 4]	—	—	—	—
Rathfarnham Castle	145.6	13	e 19 40	[+ 5]	—	—	81.5	89.5
Simferopol	146.0	323	e 19 40	[+ 4]	—	—	—	—
Yalta	146.2	322	e 19 36	[0]	e 23 20	PP	—	—
Sebastopol	146.5	324	e 19 41	[+ 5]	—	—	—	—
De Bilt	148.1	0	e 19 49	[+ 10]	—	—	e 83.5	—
Kew	148.4	6	e 19 47	[+ 8]	—	—	e 77.5	—
Ksara	150.1	303	19 47	[+ 5]	e 33 43	SKSP	—	92.5
Paris	151.2	5	e 19 30?	[- 13]	—	—	85.5	—
Stuttgart	151.3	355	e 19 48	[+ 5]	—	—	e 88.5	—
Zagreb	N.W. 153.1	344	e 19 55	[+ 9]	—	—	—	—
Granada	161.1	24	e 19 35	[- 20]	—	—	77.5	—

Additional readings:—

Apia eS_g = +3m.54s.

Tashkent e = +37m.47s., e = +42m.36s.

Pulkovo ePP = +22m.6s., ePKS = +23m.6s.

Tiflis eE = +23m.8s. = PKS - 3s.

Rathfarnham Castle e = +37m.50s.

Kew eEN = +43m.55s., eEN = +45m.33s.

Ksara PP = +23m.27s.

Stuttgart e = +23m.37s. = PKS + 9s.

Zagreb eNE = +20m.6s.

Long waves were also recorded at Wellington, Christchurch, and Strasbourg.

Sept. 16d. 17h. 44m. 5s. Epicentre 16°·0S. 73°·5W. N.3.

$$A = +.2730, B = -.9217, C = -.2756; \quad \delta = +2;$$

$$D = -.959, E = -.284; \quad G = -.078, H = +.264, K = -.961.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Huancayo	4.3	336	i 1 17	P _s	i 2 6	S*	—
La Paz	5.2	97	1 14	0	i 2.10	- 3	2.6
La Plata	23.5	147	5 5	0	—	—	—
Oak Ridge	z. 58.6	3	i 9 51	- 4	—	—	—
La Jolla	z. 64.3	321	e 10 35	+ 1	—	—	—
Mount Wilson	z. 65.7	321	i 10 43	0	—	—	—
Pasadena	z. 65.7	321	i 10 46	+ 3	—	—	—
Tinemaha	z. 67.8	323	i 10 56	- 1	—	—	—

Additional readings:—

La Paz iSN = +2m.0s.

Pasadena iZ = +11m.15s.

Tinemaha eZ = +11m.27s.

Long waves were recorded at San Juan.

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Sept. 16d. Readings also at 0h. (Samarkand, Tchimkent, Tashkent, near Andijan, and Frunse), 1h. (Ksara, Christchurch, and Keizyo), 4h. (Christchurch), 5h. (Nagoya and near Mizusawa), 7h. (Medan), 10h. (Nagoya and near Mizusawa), 13h. (Semipalatinsk, Samarkand (2), Frunse (2), and near Andijan (2)), 14h. (La Paz, Mount Wilson (2), Pasadena (2), Tinemaha (2), near Andijan, and Frunse), 15h. (Sverdlovsk, Tashkent, Zurich, and near Neuchatel), 19h. (near Berkeley), 21h. (Mount Wilson, Pasadena, and Tinemaha).

Sept. 17d. 12h. 57m. 2s. Epicentre 39°·8N. 74°·3E. (as on 1936 June 2d.). X.

$$A = +.2079, B = +.7396, C = +.6401; \quad \delta = -4.$$

Close to position 39°·8N. 74°·6E., given by stations of Central Asia.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	1.8	299	0 42	P _g	1 12	+26	—	1.2
Frunse	3.1	4	0 52	P*	i 1 33	S*	—	2.1
Tashkent	4.1	293	e 0 58	0	i 1 45	0	—	2.2
Tchimkent	4.4	307	e 1 8	+ 5	2 36	S _g	—	—
Samarkand	5.6	272	—	—	e 1 58	P _g	—	2.6
Sverdlovsk	19.2	337	4 37	+16	e 8 24	+34	e 11.1	—

Additional readings :—

Andijan iP_g = +45s., iPP = +52s., i = +59s., iPS = +1m.5s.

Frunse P_g = +1m.0s., iS_g = +1m.43s.

Tchimkent e = +2m.3s.

Long waves were also recorded at Almata.

Sept. 17d. 17h. 14m. 59s. Epicentre 33°·5S. 179°·5E. (as on 1928 March 23d.). R.2.

$$A = -.8339, B = +.0075, C = -.5519; \quad \delta = +4;$$

$$D = +.009, E = +1.000; \quad G = +.552, H = -.005, K = -.834.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Wellington	8.7	204	—	—	i 3 38	- 3	i 4.9	8.0
Riverview	23.5	260	i 5 6	+ 1	e 9 17	+ 3	e 11.5	12.7
Adelaide	33.6	259	—	—	e 15 28	?	—	18.5
Manila	73.6	301	11 31	- 1	(21 9)	+ 5	21.1	—
La Jolla	z. 89.0	49	e 12 55	+ 2	—	—	—	—
Pasadena	89.4	47	i 12 56	+ 1	—	—	—	—
Mount Wilson	z. 89.5	47	i 12 54	- 1	—	—	—	—
Berkeley	89.6	42	e 22 32	?	—	—	—	—
Riverside	z. 89.7	47	e 12 56	0	—	—	—	—
Tinemaha	z. 91.3	45	e 13 0	- 3	—	—	—	—
Chiufeng	94.0	317	e 13 15	- 1	e 24 30	- 3	—	—
Kodaikanal	z. 105.6	272	e 18 29	PP	—	—	—	—
Tashkent	125.5	300	—	—	e 30 7	SKSP	e 63.1	70.7
Sverdlovsk	133.0	319	21 47	PP	—	—	67.0	—
Pulkovo	146.9	331	e 19 34	[- 3]	—	—	74.0	83.1
Stuttgart	163.1	337	—	—	e 29 1?	?	e 93.0	—
San Fernando	174.5	56	e 26 2	PP	—	—	89.0	—
Granada	175.5	34	e 20 1	[- 5]	—	—	—	—

Additional readings :—

Wellington i = +3m.54s. and +5m.45s.

Manila SEN = +16m.53s.

Mount Wilson eZ = +16m.34s.

Berkeley eZ = +22m.36s.

Chiufeng ePPZ = +17m.1s.

Tashkent i = +36m.49s., e = +41m.49s.

Sverdlovsk e = +22m.49s.

Pulkovo e = +20m.3s. and +21m.15s.

San Fernando eSKS = +29m.40s., eSKKS = +35m.6s.

Long waves were also recorded at Perth, Ksara, Copenhagen, Paris, Kew, Uccle, and De Bilt.

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Sept. 17d. Readings also at 1h. (Alicante, Malaga, Tortosa, near Almeria, Granada, and San Fernando), 2h. (near Manila), 3h. (Wellington, Sydney, Mount Wilson, and Pasadena), 4h. (La Paz), 7h. (Chiufeng, Vladivostok, Tiflis, Tashkent, Sverdlovsk, Ksara, Mount Wilson, Pasadena, and Tinemaha), 8h. (Copenhagen, Kew, De Bilt, Uccle, Paris, Strasbourg, Stuttgart, Baku, Pulkovo, and Granada), 10h. (Ksara and Wellington), 11h. (Uccle, Mount Wilson, and Pasadena), 12h. (Paris, De Bilt, and near Oak Ridge), 16h. (near Ebingen), 18h. (near Nagoya), 22h. (Sebastopol (2), Simferopol (2), and Yalta (2)), 23h. (near Nagoya).

Sept. 18d. 18h. 38m. 32s. Epicentre 30°·6N. 141°·8E. (as on Sept. 4d.). R.1.

A = -·6764, B = +·5323. C = +·5090 ; $\delta = -6$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	6·2	319	e 1 27	- 1	3 25	P _g	—	10·4
Sumoto	E. 6·9	304	e 1 29	- 9	3 52	+56	5·0	6·5
	N. 6·9	304	e 1 32	- 6	3 54	+58	5·1	6·5
	Z. 6·9	304	e 1 37	- 1	3 54	+58	—	5·2
Kobe	7·0	308	e 1 38 _a	- 1	e 3 30	S*	3·7	5·1
Toyooka	7·7	313	1 49	0	—	—	4·4	6·5
Mizusawa	8·5	355	e 1 56	- 4	i 3 20	-16	—	—
Hukuoka	10·2	290	2 27	+ 3	5 47	S _g	—	—
Hukuoka B	10·2	290	2 26	+ 2	e 5 38	S _g	—	9·1
Husan	11·7	296	2 42	- 2	6 37	S _g	—	—
Taikyu	12·2	299	e 2 54	+ 3	—	—	—	—
Keizyo	14·1	304	e 3 16	- 1	e 6 22	+29	e 8·5	—
Zinsen	14·4	303	i 3 23	+ 2	e 7 45	L	(e 7·8)	—
Vladivostok	14·8	331	e 3 29	+ 3	e 6 36	+26	7·6	9·4
Chiufeng	22·9	302	4 57 _a	- 3	i 9 8	+ 5	i 11·9	17·0
Manila	24·9	235	5 25	+ 6	10 8	+29	—	—
Hong Kong	26·0	258	(5 32)	+ 3	9 13	-45	—	19·8
Phu-Lien	33·1	260	7 28 _?	+55	—	—	15·5	—
Calcutta	N. 48·1	273	e 11 15	PPPP	e 14 59	-35	—	29·0
Medan	48·8	245	10 19	PP	—	—	e 31·5	—
Semipalatinsk	49·2	312	e 8 44	- 1	—	—	—	—
Batavia	49·7	228	9 45	+56	15 59	+ 2	—	—
Frunse	53·8	303	e 9 25	+ 5	—	—	29·0	—
Dehra Dun	54·2	288	22 48	S	(22 48)	SSSS	—	33·5
Honolulu	54·5	84	—	—	e 17 11	+ 9	24·5	—
Agra	E. 55·2	283	9 29	- 1	17 11	- 1	—	38·7
Andijan	55·8	300	e 9 34	0	—	—	30·0	—
Tashkent	58·0	304	9 49	- 1	i 17 51	+ 2	e 27·6	39·2
Samarkand	60·1	300	e 10 11	+ 6	—	—	—	—
Sverdlovsk	60·1	322	i 10 12	+ 7	i 18 24	+ 7	28·5	39·8
Sitka	61·0	37	—	—	e 18 16	-13	e 31·2	—
Bombay	62·8	277	e 10 28 _?	+ 4	e 18 57	+ 5	—	44·7
Kodaikanal	E. 62·8	268	e 10 26	+ 2	—	—	—	—
Riverview	65·1	172	—	—	e 27 28	?	e 35·7	39·2
Baku	72·1	307	i 11 25	+ 2	i 20 48	+ 2	35·9	47·1
Moscow	72·4	325	e 11 25	0	e 20 44	- 6	36·0	44·0
Grozny	73·5	311	e 11 35	+ 3	—	—	e 41·5	—
Pulkovo	73·6	331	11 31	- 1	20 58	- 6	39·5	44·7
Ukiah	74·7	53	e 17 46	PPPP	—	—	—	—
Tiflis	75·0	311	e 11 38	- 2	21 15	- 5	36·7	48·7
Erevan	75·8	308	e 11 48	+ 3	—	—	—	—
Berkeley	76·0	53	e 10 47	-59	e 21 27	- 5	e 34·3	—
Butte	78·1	42	—	—	e 20 52	-63	e 38·0	—
Scoresby Sund	78·3	355	—	—	21 54	- 3	39·5	—
Tinemaha	Z. 79·1	53	e 12 0	- 3	—	—	—	—
Bozeman	79·2	42	—	—	e 21 58	- 9	—	—
Theodosia	79·2	316	—	—	e 22 0	- 7	—	—
Yalta	80·2	316	—	—	e 21 42	-36	e 50·5	—
Mount Wilson	Z. 80·7	55	i 12 9	- 3	—	—	—	—
Pasadena	Z. 80·7	55	e 12 11	- 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.
Bergen	82.3	340	—	—	e 25 28?	?	—	—
Copenhagen	83.5	334	12 27	+ 1	22 48	[0]	42.5	—
Ksara	85.0	309	i 12 34 _a	+ 1	i 24 3	+55	—	—
Hamburg	86.0	334	e 12 40	+ 2	e 23 10	[+ 4]	e 44.5	58.5
Prague	86.6	330	e 13 58?	+77	e 24 19	+56	e 44.5	52.5
Tucson	86.8	55	e 12 42	0	e 23 14	[+ 2]	e 40.0	—
Vienna	87.2	327	e 13 46	+62	e 23 24	- 5	e 49.5	—
Jena	87.4	330	—	—	e 23 28	- 3	e 44.5	52.7
Cheb	87.8	330	e 23 28	S	(e 23 28)	- 7	e 47.5	51.5
Iviglut	87.8	5	—	—	23 31	- 4	51.5	—
Graz	88.5	327	—	—	e 23 29	[+ 6]	e 49.5	56.9
Edinburgh	88.6	341	—	—	i 23 36	- 7	e 46.5	60.5
De Bilt	89.1	335	e 12 55	+ 2	e 23 32	[+ 5]	e 46.5	60.7
Zagreb	89.2	326	e 12 52	- 2	e 23 28?	[0]	—	48.7
Stonyhurst	90.1	340	—	—	i 23 47	-10	e 46.5	49.5
Stuttgart	90.2	331	e 12 55	- 3	e 23 28	[- 6]	e 47.5	52.5
Helwan	90.4	305	e 12 58	- 1	23 47	-13	—	—
Triest	90.4	327	e 13 14	+15	e 23 28	[- 7]	—	49.5
Uccle	90.4	335	e 13 0	+ 1	23 28	[- 7]	e 43.5	—
Bidston	90.6	340	—	—	e 23 40	[+ 4]	43.5	62.8
Strasbourg	90.9	332	e 13 0	- 2	i 23 57	- 7	e 41.5	—
Zurich	91.4	330	e 13 28	+24	—	—	—	—
Kew	91.5	339	e 13 30	+26	i 24 2	- 8	e 46.5	63.3
Oxford	91.6	339	e 17 16	PP	i 24 5	- 6	e 45.8	56.6
Paris	92.7	335	e 13 11	+ 1	—	—	48.5	—
San Fernando	106.6	335	e 21 32	PPP	(e 25 14)	{-28}	57.5	—

Additional readings:—

Sumoto eEN = +3m.4s.
 Kobe P = +1m.41s., eSZ = +3m.34s.
 Chiufeng iPPEN = +5m.21s.
 Hong Kong gives P as S? and true S as ?
 Agra ePPPE = +12m.33s., PSE = +17m.43s., SSE = +21m.10s.
 Bombay eEN = +20m.28s.?
 Ukiah e = +18m.34s.
 Tifis P = +11m.41s., PPPEZ = +16m.19s., eEZ = +22m.38s., SSSE = +29m.42s.
 Scoresby Sund +22m.18s., +23m.14s., SS = +26m.58s.
 Mount Wilson iZ = +12m.34s., eZ = +15m.53s.
 Copenhagen +24m.19s., +28m.10s. = SS + 5s.
 Ksara PP = +15m.50s.
 Tucson ePS = +24m.14s., eSS = +29m.4s.
 De Bilt ePPZ = +16m.31s.
 Stuttgart ePP = +16m.30s., eS = +23m.48s., eSS = +29m.33s., e = +36m.46s.
 Helwan SKS = +23m.31s.
 Triest i = +23m.45s. and +24m.49s.
 Uccle ePPZ = +16m.35s., iSE = +23m.50s., PSN = +24m.58s., SSN = +29m.52s.
 Bidston i = +24m.4s.
 Strasbourg ePP = +16m.43s., ePPPPZ = +20m.14s., eSKSN = +23m.35s.,
 ePS = +25m.5s., SSN = +30m.16s.
 Kew eSKSEN = +23m.36s., iPSZ = +25m.16s.
 San Fernando ePPP = +28m.0s., eSKS = +32m.1s.; SKKS is given as PP.
 Long waves were also recorded at Göttingen, Adelaide, Upsala, Karlsruhe, Sydney, Durham, Belgrade, Seattle, Rio de Janeiro, Tortosa, Jersey, and Granada.

Sept. 18d. Readings also at 0h. (near Berkeley), 2h. (Riverview and near Santiago), 3h. (Branner), 5h. (La Paz, La Plata, near Santiago, and San Javier), 6h. (Malabar), 7h. (Apia, Mount Wilson, Pasadena, Tinemaha, and Ksara), 8h. (Mizusawa, Nagoya, Vladivostok, Tashkent, and Sverdlovsk), 9h. (Manila and near Taihoku), 10h. (Hong Kong, Sverdlovsk, and Tashkent), 11h. (Mount Wilson (2), Pasadena (2), and Tinemaha (2)), 12h. (Oaxaca, Tacubaya, and near Apia), 13h. (Prague and near San Francisco), 14h. (Fresno (2), Berkeley, Mount Wilson, Pasadena, Tashkent, Frunse, Samarkand, near Andijan, near Tucson (4), and near Nagoya), 15h. and 16h. (Tucson), 17h. (La Jolla, Mount Wilson, Pasadena, Tinemaha, Adelaide, Riverview, Sydney, and Wellington), 18h. (Mount Wilson, Pasadena, Riverview, Wellington, and Ksara), 20h. (near New Plymouth), 21h. (La Paz).

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Sept. 19d. 1h. 1m. 47s. Epicentre 3°·5N. 97°·5E. (as on 1935 Nov. 12d.). R.1.

A = -·1303, B = +·9896, C = +·0610 ; $\delta = +1$;
D = +·991, E = +·131 ; G = -·008, H = +·061, K = -·998.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Medan	1·2	86	i 0 16	- 1	—	—	—	—
Soengi Langka	11·8	139	—	—	i 6 26	S _g	—	—
Batavia	13·5	136	e 3 6	- 3	i 5 54	+15	—	—
Malabar	14·7	137	i 3 34	+ 9	i 6 29	+21	—	—
Colombo	17·9	281	4 10	+ 5	7 32	+10	8·6	11·6
Phu Lien	19·4	26	i 4 26	+ 3	i 7 58	+ 4	—	—
Calcutta	21·0	336	4 40	0	8 28	+ 2	—	—
Kodaikanal	E. 21·0	290	i 4 45	+ 5	i 8 39	+13	10·5	14·3
Hyderabad	23·2	308	5 6	+ 3	9 15	+ 7	10·8	15·7
Hong Kong	24·8	39	5 22 _a	+ 4	9 42	+ 5	13·7	15·7
Manila	25·6	63	i 5 29 _a	+ 4	i 10 17	+26	13·7	—
Bombay	28·6	304	e 5 56	+ 3	10 50	+ 8	13·2	17·1
Hokoto	29·2	44	—	—	11 3	+12	—	—
Kosyun	29·2	49	5 58	0	—	—	—	—
Takao	29·2	47	6 20	+22	—	—	—	—
Tainan	29·4	47	6 2	+ 2	11 5	+10	—	—
Taito	29·7	48	6 8	+ 6	—	—	—	—
Arisan	30·1	47	6 39 _k	+33	11 38	+32	—	—
Taityu	30·4	46	6 13	+ 4	—	—	—	—
Karenko	31·0	47	5 58	-16	—	—	—	—
Giran	31·6	47	6 53	+34	—	—	—	—
Taihoku	31·6	45	6 20 _a	+ 1	11 30	+ 1	14·0	20·6
Dehra Dun	32·5	328	7 3	+36	11 33	-10	14·5	20·2
Isigakizima	33·1	48	6 26	- 7	—	—	—	—
Nanking	34·8	33	i 7 13 _?	+26	i 12 37	+19	—	—
Naha	36·8	48	7 27	+22	13 18	+30	—	—
Palau	37·0	83	7 7	+ 1	12 52	+ 1	—	—
Nake	39·3	48	7 19	- 7	—	—	—	—
Perth	39·4	155	7 28	+ 1	13 38	+11	19·2	19·7
Chiufeng	40·3	23	7 34 _a	- 1	13 41	0	i 16·2	—
Tomie	41·3	41	7 42	- 1	—	—	—	—
Dairen	41·6	29	7 35	-10	—	—	—	—
Kagosima	41·9	45	7 51	+ 3	14 18	+13	—	—
Nagasaki	42·1	42	7 49	0	13 53	-15	—	—
Unzendake	42·3	42	7 48	-3	—	—	—	—
Ituhara	42·6	40	7 33	-20	—	—	—	—
Kumamoto	42·7	42	7 53	- 1	—	—	—	—
Miyazaki	42·7	45	7 53 _a	- 1	—	—	—	—
Husan	43·0	39	7 54	- 3	14 28	+ 7	19·7	25·2
Hukuoka	43·0	42	e 8 16	+19	14 16	- 5	17·8	24·9
Hukuoka B	43·0	42	e 8 10	+13	e 14 16	- 5	e 18·8	24·5
Zinsen	43·1	34	e 7 58	0	e 15 19	+57	e 18·5	25·3
Taikyu	43·3	38	7 46	-13	14 22	- 3	17·9	25·1
Yingkow	43·3	28	7 19	-40	—	—	—	—
Andijan	43·5	332	e 8 2	+ 1	—	—	23·7	—
Keizyo	43·5	35	e 8 1	0	e 13 39	-49	e 19·6	24·2
Simonoseki	43·5	42	7 59	- 2	—	—	—	—
Ooita	43·6	42	7 51	-11	—	—	—	—
Heizyo	43·8	33	e 8 2	- 1	i 14 34	+ 1	21·2	26·5
Simidu	44·2	45	8 4	- 2	—	—	—	—
Frunse	44·4	336	e 8 7	- 1	—	—	20·3	—
Matuyama	44·7	43	7 54	-16	14 45	- 1	—	—
Hirosima	44·8	42	—	—	14 56	+ 9	—	—
Hamada	45·0	41	8 19	+ 6	14 42	- 8	—	—
Koti	45·1	44	8 13	- 1	14 50	- 2	—	—
Samarkand	45·4	326	e 8 15	- 1	—	—	21·2	—
Tashkent	45·4	330	e 8 15	- 1	i 14 53	- 3	21·2	24·1
Tadotu	45·6	43	8 3	-15	14 41	-18	—	—
Okayama	46·0	43	8 29	+ 8	—	—	—	—
Tchimkent	46·1	332	e 8 19	- 2	e 15 8	+ 2	20·7	—
Tokusima	46·1	44	8 27	+ 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.
Sumoto	E.	46.4	44	e 8 25	+ 1	15 15	+ 5	18.8	20.0
	N.	46.4	44	e 8 27	+ 3	15 13	+ 3	18.8	26.0
	Z.	46.4	44	e 8 23	- 1	e 15 52	+42	—	29.5
Siomisaki		46.6	44	8 26	+ 1	15 44	+31	—	—
Wakayama		46.6	44	8 26	+ 1	15 21	+ 8	—	—
Kobe		46.8	44	8 16	-11	e 15 15	- 1	20.7	25.9
Toyooka		47.0	42	8 29	0	15 34	+15	21.0	29.0
Osaka		47.1	44	8 34	+ 5	15 27	+ 7	—	—
Yagi		47.2	44	8 27	- 3	—	—	—	—
Miyadu		47.3	42	8 49	+18	—	—	—	—
Kyoto		47.4	44	8 35	+ 3	15 55	+31	—	—
Kameyama		47.8	45	8 35	0	15 55	+25	—	—
Tu		47.8	45	8 40	+ 5	15 33	+ 3	—	—
Hikone		47.9	44	8 41	+ 6	—	—	—	—
Ibukisan		48.0	44	8 4	-32	—	—	—	—
Gihu		48.3	45	8 28	-10	15 42	+ 5	—	—
Nagoya		48.3	44	8 41	+ 3	—	—	19.1	26.7
Hamamatu		48.6	46	8 42	+ 1	—	—	—	—
Titizima		48.7	56	9 10	+29	—	—	—	—
Kanazawa		48.8	43	8 45	+ 3	16 12	+28	—	—
Omaesaki		48.9	46	8 52	+ 9	—	—	—	—
Semipalatinsk		49.1	346	e 8 42	- 2	—	—	26.2	—
Husiki		49.2	43	8 54	+ 9	15 55	+ 5	—	—
Hatidyozima		49.3	48	8 52	+ 6	15 58	+ 7	—	—
Toyama		49.3	43	9 0	+14	16 23	+32	—	—
Wazima		49.5	42	8 46	- 1	16 27	+33	—	—
Matumoto		49.6	44	8 48	0	15 58	+ 3	—	—
Numadu		49.6	46	8 40	- 8	—	—	—	—
Huratu		49.7	46	8 52	+ 3	16 31	+34	—	—
Kohu		49.7	45	8 49	0	16 12	+15	—	—
Misima		49.7	46	8 51	+ 2	15 59	+ 2	—	—
Nagano		49.9	44	8 52	+ 1	16 33	+34	—	—
Oiwake		50.0	44	8 37	-14	—	—	—	—
Vladivostok		50.0	34	9 2	+11	i 16 8	+ 7	e 22.7	29.9
Mera		50.2	46	9 11	+18	16 28	+24	—	—
Takada		50.2	44	9 19	+26	—	—	—	—
Yokohama		50.3	46	8 54	0	16 30	+25	—	—
Maebasi		50.4	44	9 2	+ 8	—	—	—	—
Kumagaya		50.5	43	9 23	+28	16 48	+40	—	—
Tokyo		50.5	46	8 58	+ 3	—	—	—	—
Tukubasan		51.0	45	8 58	- 1	16 34	+19	—	—
Kakioka		51.1	45	8 53	- 7	16 0	-16	—	—
Niigata		51.2	42	9 40	+40	—	—	—	—
Mito		51.4	45	8 50	-12	—	—	—	—
Tyosi		51.4	46	9 0	- 2	16 16	- 4	—	—
Aidu		51.7	44	9 8	+ 4	16 22	- 2	—	—
Hokusima		52.1	44	9 12	+ 5	—	—	—	—
Yamagata		52.2	43	9 37	+29	—	—	—	—
Sendai		52.6	43	9 7	- 4	16 35	- 2	—	—
Akita		52.8	42	9 17	+ 5	—	—	—	—
Isinomaki		53.0	43	9 12	- 2	16 39	- 3	—	—
Mizusawa		53.2	42	e 9 16	+ 1	e 16 50	+ 5	22.8	—
Morioka		53.5	42	9 15	- 3	—	—	—	—
Aomori		53.9	40	9 24	+ 3	17 21	+27	—	—
Tananarive		54.0	244	9 30	+ 9	e 17 9	+13	—	31.0
Hatinohe		54.2	41	9 27	+ 4	17 27	+29	—	—
Hakodate		54.3	39	9 30	+ 7	—	—	—	—
Adelaide		54.5	138	e 9 25	0	i 16 59	- 3	i 24.0	33.6
Sapporo		55.4	38	9 36k	+ 4	17 23	+ 8	—	—
Urakawa		55.8	40	9 50	+16	—	—	—	—
Asahigawa		56.4	37	10 25	+46	—	—	—	—
Baku		56.4	318	e 9 40	+ 1	i 17 36	+ 8	—	—
Haboro		56.4	36	—	—	17 56	+28	—	—
Nemuro		58.2	39	10 4	+12	17 33	-19	—	—
Erevan		60.1	315	e 10 5	0	—	—	e 29.4	—

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	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	m.
Melbourne	60.3	137	10	9	+ 2	i 18	26	+ 6	28.7	39.2
Tiflis	60.5	317	10	5	- 3	e 18	16	- 7	25.2	42.0
Grozny	60.6	319	10	12	+ 3	18	31	+ 7	28.2	—
Sverdlovsk	60.8	338	i 10	14	+ 4	18	29	+ 3	27.6	33.0
Riverview	62.8	131	e 10	24	0	i 18	50	- 2	e 26.7	33.9
Sydney	62.8	131	e 10	3	-21	i 18	46	- 6	38.2	39.5
Ksara	64.6	305	i 10	38 ^a	+ 2	18	18	-57	—	36.0
Helwan	67.6	301	i 10	53	- 3	—	—	—	—	41.3
Theodosia	68.1	318	10	56	- 3	19	43	-15	e 32.2	—
Yalta	68.7	317	11	0	- 3	19	50	-15	e 34.2	—
Simferopol	68.9	318	i 11	0	- 4	19	54	-14	e 28.2	—
Sebastopol	69.2	317	i 11	5	- 1	i 20	0	-11	e 46.2	—
Moscow	70.6	328	e 11	12	- 2	e 20	20	- 8	33.7	41.1
Bucharest	74.3	316	e 11	37	+ 1	i 21	5	- 7	31.2	56.2
Pulkovo	75.7	331	11	43	- 1	21	17	-11	36.7	43.1
Sofia	76.0	314	e 11	44	- 2	e 21	34	+ 2	e 33.2	49.6
Lemberg	76.7	321	e 11	58	+ 8	e 24	22	?	e 29.8	61.1
Belgrade	78.4	315	i 12	2 ^k	+ 3	i 21	55	- 3	e 38.8	—
Vienna	81.5	318	i 12	15 ^k	- 1	22	23	- 9	e 35.2	66.2
Zagreb	81.6	316	i 12	16 ^k	0	e 22	23	-10	34.0	—
Christchurch	81.7	135	i 12	8 ^a	- 9	i 22	28	- 6	35.5	42.4
Upsala	81.9	330	e 12	14	- 4	i 22	24	-12	e 38.2	42.6
Graz	82.0	317	i 12	14	- 4	i 22	37	0	e 47.2	64.5
Laibach	82.6	316	e 13	33	+72	i 23	55	+72	e 49.0	—
Wellington	82.8	132	i 13	38	+76	22	41	- 4	42.2	44.2
Arapuni	82.9	129	—	—	—	28	13 [?]	SS	44.7	—
Cape Town	82.9	236	i 12	6	-17	i 22	52	+ 6	37.2	48.0
Prague	82.9	321	e 12	22	- 1	22	40	- 6	35.2	48.2
Triest	83.1	316	12	24	0	i 22	38	-10	e 36.3	46.7
Cheb	84.2	320	e 12	33	+ 4	e 22	57	- 3	e 38.2	49.2
Copenhagen	84.3	326	i 12	29 ^k	- 1	i 22	53	[- 1]	34.2	—
Padova	84.5	316	e 12	36	+ 5	22	55	[0]	e 48.2	72.2
Jena	84.7	321	i 12	31	- 1	e 22	49	[- 8]	e 40.2	61.4
Florence	84.8	313	i 12	35	+ 3	i 22	54	[- 4]	—	—
Göttingen	85.7	321	i 12	38	+ 1	i 23	6	[+ 2]	e 41.2	57.3
Hamburg	85.7	324	i 12	36 ^k	- 1	e 23	3	[- 1]	e 39.2	69.2
Chur	86.1	317	e 12	38	- 1	e 23	9	[+ 2]	—	—
Stuttgart	86.3	318	e 12	39 ^k	- 1	e 23	11	[+ 3]	e 35.2	62.4
Karlsruhe	86.7	319	i 12	33	- 9	i 23	7	[- 4]	35.6	—
Zurich	86.7	317	e 12	42 ^k	0	e 23	12	[+ 1]	—	—
Strasbourg	87.2	318	e 12	42	- 2	e 23	14	[- 1]	e 39.2	57.2
Basle	87.4	317	e 12	44	- 1	e 23	10	[- 6]	—	—
Neuchatel	87.8	317	e 12	47	0	e 23	12	[- 7]	—	—
Bergen	88.0	331	11	49	-59	22	13 [?]	[-67]	40.2	—
Besançon	88.5	318	—	—	—	e 28	13 [?]	?	—	—
De Bilt	88.6	322	e 12	52	+ 1	i 23	28	[+ 4]	e 40.2	45.8
Uccle	89.3	321	e 12	54 ^a	0	i 23	31	[+ 3]	40.2	59.4
Paris	90.6	319	e 13	2	+ 2	e 24	0	- 2	36.2	44.2
Algiers	91.4	306	i 13	9	+ 5	i 24	8	- 1	37.0	48.2
Apia	91.5	104	e 13	18	+14	e 23	47	[+ 6]	—	—
Barcelona	91.7	312	e 13	9	+ 4	e 23	42	[- 1]	e 46.0	64.0
Kew	92.1	322	i 13	10 ^a	+ 3	e 23	41	[- 4]	e 36.2	52.0
Durham	92.3	325	e 13	22	+14	e 23	44	[- 2]	—	48.2
Oxford	92.6	322	e 13	13	+ 4	i 23	44	[- 4]	e 41.7	66.2
Bagnères	93.0	313	e 20	13	PPPP	—	—	—	e 36.2	—
Edinburgh	93.0	326	e 13	43	+32	i 23	51	[+ 1]	e 38.2	65.8
Stonyhurst	93.0	324	e 13	23	+12	i 23	50	[0]	48.2	62.5
Tortosa	93.0	311	—	—	—	e 23	38	[-12]	e 46.2	72.1
Bidston	93.4	324	e 17	29	PP	i 23	58	[+ 6]	e 36.2	49.7
Jersey	93.6	320	e 13	5	- 9	23	46	[- 7]	e 48.2	65.2
Rathfarnham Castle	95.4	324	i 13	18	- 4	23	54	[- 9]	37.2	51.2
Almeria	95.8	307	—	—	—	e 24	1	[- 4]	e 48.0	59.8
Scoresby Sund	96.1	343	e 13	49	+23	24	10	[+ 4]	—	—
Granada	96.6	308	e 13	32	+ 4	e 24	44	-12	—	—
College	97.0	23	—	—	—	e 24	30	{ 0}	38.9	—

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.
San Fernando	98.9	307	e 14 45	+67	24 21	[+ 1]	44.7	61.2
Honolulu	102.3	67	e 18 13?	PP	—	—	e 42.7	—
Sitka	106.1	27	—	—	e 24 51	[- 4]	e 44.3	—
Ivigtut	110.1	343	20 13	?	25 13	[- 1]	—	—
Dakar	113.1	288	e 16 50	?	e 27 23	S	e 60.2	60.2
Seattle	118.1	29	e 21 1	PP	e 26 1	[+17]	e 54.0	—
Ukiah	123.3	38	e 23 58	PPP	e 25 58	[- 2]	e 51.5	—
Butte	123.7	25	e 21 28	PP	e 30 50	PS	e 54.6	—
Berkeley	124.6	37	e 18 58	[+ 2]	e 25 32	[-32]	—	—
Bozeman	124.7	23	e 21 0	PP	e 31 18	PS	e 54.2	—
Tinemaha	127.6	36	e 19 4	[+ 2]	—	—	—	—
Haiwee	128.4	36	i 19 6	[+ 2]	—	—	—	—
Mount Wilson	z. 129.6	38	i 19 9	[+ 3]	—	—	—	—
Pasadena	129.6	38	i 19 10k	[+ 4]	—	—	e 52.2	—
Ottawa	130.8	353	e 22 43	PKS	e 31 13?	SKSP	e 54.2	—
La Jolla	z. 131.0	39	i 19 12	[+ 3]	—	—	—	—
Vermont	131.3	350	e 22 43	PP	—	—	e 53.8	—
Denver	132.1	23	e 23 13	PKS	—	—	e 66.3	82.2
Toronto	132.8	354	i 22 42	PKS	e 28 28	{-12}	62.2	—
Ann Arbor	134.2	0	—	—	e 36 55	?	69.4	74.6
Chicago	134.5	6	e 22 51	PKS	—	—	e 62.0	—
Tucson	135.3	35	e 19 47	[+32]	—	—	e 62.7	—
Philadelphia	136.0	351	—	—	e 40 13	SS	e 65.9	—
Florissant	137.1	8	i 19 22	[+ 4]	—	—	e 70.4	83.0
Rio de Janeiro	137.3	241	e 22 21	PP	(i 40 24)	SS	i 40.4	—
St. Louis	137.3	8	e 19 49	?	e 26 16	[-18]	64.7	77.7
La Plata	141.2	214	22 25	PP	—	—	58.2	—
Columbia	142.5	358	e 21 13	PP	—	—	e 63.0	—
Santiago	148.1	199	e 20 1	[+22]	—	—	—	77.2
Tacubaya	N. 151.8	35	e 19 37	[- 7]	—	—	—	—
San Juan	152.9	324	e 19 52	[+ 6]	e 30 33	{- 6}	e 71.5	—
La Paz	160.8	226	i 20 1a	[+ 6]	i 31 6	{-17}	76.9	89.4
Huancayo	168.9	219	e 20 15	[+12]	e 31 18	{-48}	e 68.7	—

Additional readings :—

Batavia PEN = +3m.9s., iPZ = +3m.11s., iSE = +5m.56s.
 Calcutta PPPE = +5m.9s.
 Kodaikanal iSSE = +9m.26s.
 Hong Kong ? = +5m.33s., PP = +5m.59s., P_cP = +8m.39s., ? = +10m.17s.,
 SS = +11m.6s.
 Bombay PPEN = +6m.46s., PPPEN = +7m.6s., P_cPEN = +9m.16s., SSEN =
 +11m.15s., S_cSN = +15m.39s.
 Taihoku ePN = +6m.25s.
 Perth PP = +8m.58s., PPP = +9m.18s., PPPP = +10m.5s., PS = +13m.48s.,
 SS = +16m.43s., SSS = +17m.23s., SSSS = +18m.3s.
 Chiufeng iPP? = +9m.24s., iSN = +13m.45s.
 Simidu PP = +9m.50s.
 Hamada SS = +18m.2s.
 Kobe ePN = +8m.23s., eZ = +14m.17s., iE = +15m.50s., eZ = +16m.3s., eSSZ =
 +18m.49s., SSEN = +18m.58s.
 Toyooka SSN = +19m.12s.
 Osaka PP = +10m.30s.
 Gihu PP = +10m.54s., SS = +19m.23s.
 Kanazawa PP = +10m.59s.
 Niigata PP = +12m.12s.
 Tananarive EN = +17m.15s., SSN = +20m.57s., SSEN = +22m.31s., N =
 +25m.27s., E = +27m.37s.
 Adelaide iPP = +9m.31s., iPP = +11m.13s., i = +14m.23s., iS_cS = +19m.17s.,
 iSS = +20m.51s., i = +26m.19s.
 Baku iP = +9m.43s.
 Melbourne i = +10m.23s., e = +18m.13s., PS = +18m.59s., S_cS = +19m.58s.
 Tifis i = +10m.9s., ePPZ = +12m.23s., eE = +18m.23s., PSZ = +18m.28s.,
 eSSN = +22m.16s.
 Riverview iZ = +10m.31s.
 Sydney iP = +11m.3s. = P_cP - 1s.
 Helwan e = +11m.33s., e = +12m.13s. and +14m.50s. = PPP + 2s.
 Bucharest PPEN = +14m.23s., PPPEN = +15m.48s., SSN = +25m.53s.
 Belgrade i = +16m.44s. = PPP + 13s., i = +24m.39s.
 Vienna P_cP = +12m.27s., PP = +15m.38s., PS = +23m.8s., SS = +27m.47s.

Continued on next page.

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Zagreb e = +12m.20s., eNW = +12m.40s., eNE = +12m.50s., e = +22m.51s.
 Christchurch SS = +28m.8s.
 Upsala iPE = +12m.16s., iPS = +23m.37s.
 Graz iPPS = +23m.13s.
 Laibach e = +14m.17s.
 Wellington SS = +29m.13s.?, SSS = +35m.13s.?, Lq = +38m.33s.
 Arapuni SSS = +35m.13s.?, Lq? = +37m.43s., i = +40m.55s.
 Cape Town ipPE = +12m.37s., eN = +13m.49s., N = +16m.30s., E = +16m.37s.?
 iSS = +28m.18s., iSSSN = +31m.40s., iSSSE = +31m.56s.
 Prague ePS = +23m.37s.
 Trieste iP = +12m.27s., i = +12m.57s. and +22m.54s., iPS = +23m.19s.
 Copenhagen +23m.36s., +23m.58s., SS = +28m.19s.
 Jena eE = +22m.53s., i = +22m.59s., eN = +23m.3s., and +23m.24s.
 Göttingen ePPE = +15m.49s.
 Stuttgart i = +12m.42s., ePP = +16m.32s., ePS = +23m.58s.
 Strasbourg PS = +24m.28s., SS = +28m.24s., iSSSS = +35m.49s.
 De Bilt iZ = +12m.55s., iPPZ = +16m.54s., iN = +23m.36s. and +29m.39s.
 Uccle iPZ = +12m.57s., iZ = +13m.31s. and +14m.20s., iSN = +23m.41s.,
 iPSE = +24m.24s., iE = +23m.25s., iSSN = +29m.44s., SSSN = +32m.52s.,
 iEN = +36m.23s.
 Paris PP = +16m.52s.
 Algiers SKS = +23m.36s., SS = +28m.43s.
 Apia +24m.20s., S? = +25m.33s.
 Kew ePP = +17m.21s., eE = +23m.7s., iSEN = +24m.7s., iN = +24m.18s., iE =
 +24m.53s., iPSN = +25m.20s., iSPZ = +25m.24s., iSPPZ = +26m.2s.,
 eSSN = +30m.17s.
 Durham i = +23m.55s.
 Oxford i = +17m.53s.
 Edinburgh e = +17m.32s., i = +24m.23s., +25m.33s. = PS + 6s., and +26m.10s.
 Stonyhurst e = +17m.21s., iS = +24m.24s., i = +25m.35s. = PS + 8s. and
 +26m.9s., SS = +31m.12s.
 Tortosa eSN = +23m.48s.
 Bidston i = +24m.24s., iPS = +25m.20s., eSS = +30m.29s.
 Jersey ePP? = +16m.42s., i = +24m.28s.
 Rathfarnham Castle PP = +16m.55s., iS = +24m.22s., i = +25m.23s., +25m.53s.
 = PS - 2s. and +30m.42s.
 Scoresby Sund PP = +17m.55s., +18m.16s., PPP = +19m.50s., eE = +21m.25s.,
 eEZ = +22m.21s., iSKKS = +25m.4s., eE = +25m.47s., PS = +26m.25s.,
 PPS = +27m.10s., SS = +31m.19s., e = +34m.8s., SSS = +36m.11s., iN =
 +38m.56s.
 College e = +24m.59s., ePPS = +27m.24s., e = +28m.0s., eSS = +32m.19s.
 San Fernando ePP = +16m.52s., ePPP = +19m.6s., SKS = +23m.45s., PS =
 +25m.28s., SS = +31m.1s., SSS = +34m.46s.
 Sitka e = +25m.14s., +27m.54s., and +28m.59s., SS = +34m.9s.
 Ivigtut PS = +29m.1s., SS = +34m.31s.
 Dakar ePKP = +20m.21s., ePP = +21m.42s., iPPS = +32m.59s.
 Seattle e = +27m.1s. and +29m.7s., eSS = +36m.19s., eSSS = +40m.49s.
 Ukiah eS = +28m.26s., ePS = +30m.55s., eSS = +37m.27s. and +37m.42s.,
 eSSS = +42m.6s.
 Butte e = +35m.53s. and +43m.5s.
 Berkeley eZ = +23m.8s., eN = +33m.30s.
 Bozeman e = +21m.13s., +31m.43s., +35m.18s., +37m.13s., and +38m.5s.
 Pasadena iPPZ = +20m.51s., iSKPZ = +22m.28s.
 Ottawa e = +38m.13s.?
 La Jolla iSKPZ = +22m.33s.
 Vermont e = +23m.43s., +39m.3s., +39m.53s., and +44m.23s.
 Denver eE = +23m.41s., eEN = +23m.55s.
 Toronto i = +23m.41s., e = +34m.11s., and +39m.13s.? = SS - 2s., i = +44m.56s.
 Ann Arbor eSSN? = +40m.31s., eN = +46m.1s.
 Tucson ePP = +22m.59s., ePPP = +25m.55s., ePS = +32m.31s., eSS = +40m.7s.
 Chicago e = +23m.39s., +33m.51s., and +35m.16s., eSS = +39m.59s., e =
 +40m.16s., eSSS = +45m.41s.
 Philadelphia e = +42m.3s., +45m.13s., and +57m.3s.
 Florissant epPKP = +19m.45s., eZ = +19m.54s., eSKPE = +22m.54s., eEZ =
 +23m.3s.
 St. Louis eN = +22m.19s. and +22m.48s., iSKPN = +22m.51s., ePPPN =
 +25m.10s., iN = +25m.50s.
 Columbia ePS = +33m.49s., eSS = +41m.41s.
 Tacubaya eSKPN = +23m.20s.
 San Juan ePKP = +20m.13s., e = +20m.43s. and +26m.4s., ePPP = +27m.33s.,
 e = +28m.1s., SKKS = +30m.37s., e = +35m.51s., SS = +43m.1s., e =
 +45m.25s.
 La Paz iZ = +20m.8s., iPKP = +21m.5s., iPKS = +23m.39s., iPPZ =
 +24m.29s., iSKSN = +26m.53s., iPPPE = +27m.31s., iN = +33m.53s.,
 iSSN = +44m.47s., iSSSE = +50m.21s., eN = +67m.13s., LqE = +74.2m.
 Huancayo e = +45m.3s., eSS = +46m.17s.
 Long waves were also recorded at Agra, Oak Ridge, and East Machias.

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Sept. 19d. 6h. 30m. 28s. Epicentre 2°·8N. 96°·0E. (as on 1931 March 5d.). R.1.

A = -·1044, B = +·9933, C = +·0488 ; $\delta = -7$;
D = +·995, E = +·105 ; G = -·005, H = +·049, K = -·999.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Medan	2·8	74	e 0 45	+ 5	—	—	—	—
Soengei Langka	12·3	132	2 51	- 1	i 5 51	+41	—	—
Batavia	14·1	130	3 16	- 1	i 6 6	+13	—	—
Malabar	15·3	131	e 3 22	-10	e 6 27	+ 5	—	—
Colombo	16·6	285	4 6	+17	7 36	-16	9·7	10·3
Kodaikanal	E. 19·8	293	i 4 42	+15	i 8 34	+32	10·3	12·1
Phu-Lien	20·7	29	i 4 22	-15	8 1	-19	9·5	12·5
Calcutta	21·1	340	4 42	+ 1	8 29	+ 1	—	—
Hyderabad	22·6	312	5 0	+ 3	9 13	+16	10·9	18·2
Hong Kong	26·0	41	5 12	-17	9 38	-20	12·1	16·7
Manila	27·3	63	e 5 45	+ 4	10 47	+27	—	—
Bombay	27·8	307	e 5 51	+ 6	i 10 37	+ 9	14·5	24·9
Agra	E. 29·8	327	6 3	0	10 54	- 7	14·2	18·8
Dehra Dun	32·3	331	8 12	?	11 52	+12	16·2	19·5
Nanking	36·3	35	6 49	-11	i 12 18	-23	18·4	21·4
Zi-ka-wei	Z. 37·2	38	e 6 51	-17	—	—	18·7	24·0
Perth	39·5	153	—	—	14 32	+63	20·3	—
Chiufeng	41·5	23	7 31 _k	-13	i 13 36	-23	i 17·3	25·9
Andijan	43·5	333	e 7 56	- 5	—	—	e 25·0	—
Frunse	44·4	337	e 8 10	+ 2	e 14 36	- 5	26·5	—
Hukuoka B	44·5	43	e 9 27	PP	e 14 49	+ 6	—	—
Husan	44·5	40	e 9 35	PP	e 17 45	SS	—	—
Zinsen	44·6	35	e 9 32 _?	PP	—	—	e 21·5	—
Taikyu	44·7	39	e 7 56	-14	e 14 15	-31	e 20·6	—
Tashkent	45·3	332	e 8 13	- 2	e 14 42	-13	22·1	26·9
Wakayama	48·1	45	8 37	0	15 44	+10	—	—
Kobe	48·4	45	8 46	+ 7	e 15 50	+12	—	26·9
Osaka	48·6	45	8 15	-26	15 7	-34	—	—
Semipalatinsk	49·4	348	e 9 0	+13	—	—	—	—
Nagoya	49·9	45	e 8 29	-22	10 8	?	—	—
Kohu	51·2	46	9 28	+28	16 29	+11	—	—
Vladivostok	51·3	34	e 8 57	- 4	e 16 5	- 14	23·4	32·1
Nagano	51·5	44	9 2	- 1	—	—	—	—
Oiwake	51·6	45	8 44	-19	—	—	—	—
Adelaide	54·9	138	—	—	e 17 11	+ 3	e 25·5	30·3
Baku	56·2	320	e 9 38	+ 1	e 17 32	+ 7	26·5	35·5
Tiflis	60·0	318	e 10 5	+ 1	e 18 15	- 1	27·5	41·4
Grozny	60·1	320	e 10 12	+ 7	—	—	—	—
Sverdlovsk	60·9	340	i 10 15	+ 4	18 23	- 5	26·5	34·3
Riverview	63·5	130	e 18 50	S	(e 18 50)	-11	e 31·2	33·5
Ksara	63·9	306	i 10 35 _a	+ 4	e 19 15	+ 9	—	—
Helwan	66·7	301	e 10 52	+ 2	19 48	+ 7	—	39·9
Theodosia	67·6	319	e 10 54	- 2	e 19 46	- 6	—	—
Yalta	68·3	318	—	—	e 19 48	-13	—	—
Simferopol	68·4	318	e 11 1	0	—	—	—	—
Moscow	70·4	331	e 11 14	+ 1	e 20 14	-12	31·0	39·2
Bucharest	73·8	316	—	—	e 20 32 _?	-34	—	—
Pulkovo	75·5	333	11 44	+ 1	e 21 13	-13	39·5	45·3
Vienna	81·0	319	e 12 10	- 3	e 22 16	-10	—	—
Christchurch	82·3	135	7 26 _a	?	—	—	41·5	48·4
Prague	82·5	321	e 18 32 _?	PPPP	—	—	e 42·5	51·5
Triest	82·6	317	e 12 21	0	22 30	[-11]	—	54·2
Copenhagen	84·0	326	—	—	22 48	[- 4]	41·5	—
Chur	85·5	318	e 12 36	0	e 23 2	[- 1]	—	—
Stuttgart	85·8	319	e 12 37	0	e 23 8	[+ 3]	e 46·5	—
Strasbourg	86·7	319	e 14 32 _?	?	e 23 22	- 2	e 44·5	—
De Bilt	88·3	323	12 49	0	e 23 20	[- 2]	—	58·4
Zurich	88·3	318	e 12 49	0	e 23 7	[-15]	—	—
Uccle	88·8	321	e 13 10	+18	i 23 35	[+10]	e 40·5	—
Paris	90·7	320	e 12 59	- 2	—	—	50·5	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Kew	91.6	323	—	—	e 22 44	[-58]	e 47.5	51.7
Oxford	92.3	323	—	—	e 23 19	[-27]	e 47.5	57.8
Stonyhurst	92.7	324	—	—	e 23 44	[-4]	49.5	63.5
Edinburgh	92.8	326	—	—	e 22 32?	[-77]	e 55.5	—
Scoresby Sund	96.3	343	—	—	24 56	+ 2	—	—
Tinemaha	z. 129.0	35	e 19 3	[- 2]	—	—	—	—
Pasadena	z. 131.0	38	i 19 7	[- 2]	—	—	—	—
Tucson	136.7	34	e 22 46	PKS	e 37 50	PS	e 62.5	—
La Paz	159.2	228	e 19 44	[- 8]	44 32	SS	e 80.5	89.9

Additional readings :—

Medan iPE = +0m.58s., iPE = +1m.9s.
 Batavia SN = +6m.40s.
 Kodaikanal iPPE = +5m.2s., iPPPE = +5m.10s., SSE = +9m.19s.
 Hong Kong PP = +5m.55s., ? = +9m.44s., SS = +11m.1s.
 Bombay PPEN = +6m.31s., SSEN = +12m.3s.
 Agra ePPE = +6m.41s., SSE = +12m.23s.
 Perth ? = +18m.32s., ? = +28m.42s.
 Chiufeng PPNZ = +9m.6s., iSN = +13m.41s., iSSN = +16m.37s.
 Kobe eZ = +9m.17s., eE = +18m.47s. = SS - 6s.
 Osaka PP = +10m.30s.
 Adelaide i = +18m.17s.
 Tifis ePPE = +12m.9s., eSSN = +22m.1s., eN = +25m.8s.
 Ksara SS = +23m.33s.
 Helwan e = +20m.42s. = ScS + 1s.
 Bucharest +29m.32s.?
 Trieste i = +23m.1s. and +23m.21s. = PS - 1s.
 Stuttgart eSS = +33m.38s.
 Strasbourg eSS? = +35m.52s.
 De Bilt eN = +23m.32s.
 Uccle iGN = +36m.14s.
 Oxford i = +24m.7s.
 Scoresby Sund +38m.32s.?
 Pasadena iZ = +22m.20s.

Long waves were also recorded at Melbourne, Huancayo, Bozeman, Butte, Ivigtut, College, San Fernando, Sitka, Hamburg, Cape Town, and Upsala.

Sept. 19d. 14h. 38m. 49s. Epicentre 15°·0N. 106°·5W. N.3.

A = -.2743, B = -.9261, C = +.2588; $\delta = -12$;
 D = -.959, E = +.284; G = -.074, H = -.248, K = -.966.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Manzanillo	N. 4.5	27	1 2	- 2	—	—	—
Guadalajara	N. 6.4	27	1 6	-25	—	—	—
Tacubaya	N. 8.3	57	2 3?	+ 5	—	—	—
Tucson	17.7	348	e 3 49	-14	e 6 53	-24	e 7.8
La Jolla	20.4	334	i 4 32	- 2	—	—	—
Mount Wilson	z. 21.9	335	i 4 49	- 1	—	—	—
Pasadena	z. 21.9	335	i 4 50	0	—	—	e 11.7
Santa Barbara	z. 22.8	333	e 5 1	+ 2	—	—	—
Haiwee	23.5	338	e 5 7	+ 2	—	—	—
Tinemaha	24.4	338	i 5 15	+ 1	—	—	e 12.3
Florissant	27.7	29	e 5 49	+ 5	i 13 0	?	—
St. Louis	N. 27.7	29	e 5 40	- 4	i 12 59	?	—
Bozeman	30.9	355	—	—	e 10 56	-22	—
Butte	31.5	353	—	—	e 11 23	- 5	—
Huancayo	41.0	129	—	—	e 16 41	SS	—
Copenhagen	92.8	30	—	—	25 22	+60	54.2
Pulkovo	97.5	21	—	—	e 26 11?	+67	53.2

Additional readings :—

Pasadena iE = +7m.16s.
 Florissant ePE = iPZ = +6m.25s. = PP - 1s., eSE = iSZ = +13m.4s.
 St. Louis iN = +5m.45s., eN = +6m.13s., iN = +14m.23s.
 Bozeman e = +11m.41s., +14m.51s., and +16m.18s.
 Long waves were also recorded at Sitka, College, Scoresby Sund, Kew, De Bilt, Sverdlovsk, and Tashkent.

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Sept. 19d. Readings also at 1h. (near Berkeley and near Apia), 2h. (Florence), 3h. (Medan), 4h. (Butte, College, and near Medan), 5h. (Medan), 6h. (Mount Wilson, Pasadena, and Tinemaha), 7h. (near Lick, near Santiago, and near Wellington), 8h. (Nagoya, Sumoto, and near Manila), 9h. (near Nagoya and near Lick), 11h. (Mount Wilson and Pasadena), 14h. (Balboa Heights).

Sept. 20d. Readings at 1h. (Batavia, Medan, Chiufeng, Phu-Lien, Sverdlovsk, Tashkent, Ksara, and Berkeley), 3h. (near Apia), 4h. (Kodaikanal, Sverdlovsk, Tashkent, and Ksara), 6h. (Mount Wilson, Nagoya, and near Mizusawa), 8h. (Yalta, Batavia, and Medan), 9h. (Mount Wilson, Pasadena, Tinemaha, San Juan, Tucson, Huancayo, and near Balboa Heights), 10h. (Kobe, Sverdlovsk, Chiufeng, Vladivostok, Tashkent, Tiflis, Mount Wilson, Tinemaha, and near Nagoya), 11h. (Copenhagen, De Bilt, Stuttgart, and near Apia), 12h. (Kodaikanal), 16h. (Melbourne), 19h. (Sebastopol, Simferopol, and Yalta), 20h. (Grozny and Tiflis), 21h. (Tacubaya), 22h. (Medan), 23h. (Sebastopol, Simferopol, near Theodosia, and Yalta).

Sept. 21d. 7h. 32m. 3s. Epicentre $41^{\circ}5'N$. $117^{\circ}0'W$. (see also 22d.). N.3.

$$A = -.3400, B = -.6673, C = +.6626; \quad \delta = -7;$$

$$D = -.891, E = +.454; \quad G = -.301, H = -.590, K = -.749.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Tinemaha	4.5	192	i 0 57	- 7	i 1 55	0	—
Fresno	N. 5.2	205	e 1 16	+ 2	e 2 14	+ 1	—
Ukiah	5.3	245	—	—	e 2 3	-12	—
Berkeley	5.4	230	e 1 17	0	e 3 1	S _g	—
Haiwee	Z. 5.4	189	e 1 23	+ 6	i 2 22	+ 4	—
Branner	5.7	226	e 1 53	P _g	e 2 20	- 5	—
Mount Wilson	7.3	187	e 1 43	- 1	i 3 27	S*	—
Pasadena	7.4	188	e 1 44	- 1	i 3 26	+17	—
Santa Barbara	7.4	198	e 2 3	P*	i 3 22	+13	—
La Jolla	N. 8.7	181	e 2 25	+22	i 4 4	+23	—
Tucson	10.5	150	e 2 28	0	e 4 37	+11	e 5.2

Additional readings:—

Tinemaha iPNZ = +1m.7s.

Berkeley eN = +1m.28s., eE = +1m.50s., eN = +1m.58s.

Mount Wilson iPZ = +2m.1s.

Pasadena iPEZ = +2m.1s.

Santa Barbara iZ = +2m.19s.

Sept. 21d. 11h. 41m. 26s. Epicentre $41^{\circ}0'N$. $33^{\circ}5'E$. N.1.

$$A = +.6293, B = +.4166, C = +.6561; \quad \delta = +4;$$

$$D = +.552, E = -.834; \quad G = +.547, H = +.362, K = -.755.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Istanbul	3.4	273	0 49	0	1 20	- 7	—	—
Yalta	3.5	8	0 50	0	i 1 29	- 1	—	1.6
Sebastopol	3.6	0	0 51	0	i 1 32	0	—	1.7
Simferopol	3.9	7	i 0 57	+ 1	i 1 45	+ 5	—	1.8
Theodosia	4.2	18	1 0	0	i 1 50	+ 2	—	2.7
Sotchi	5.2	59	e 1 15	+ 1	e 2 22	+ 9	—	—
Bucharest	N. 6.4	305	1 34	+ 3	3 14	S*	—	—
Ksara	7.4	164	i 1 47k	+ 2	3 20	+11	—	—
Sofia	7.8	286	e 1 50	- 1	i 3 27	+ 8	—	6.1
Erevan	8.3	88	e 2 22	+24	e 4 22	S _g	—	—
Tiflis	8.5	82	e 2 4	+ 4	e 3 36	0	i 4.7	5.6
Czernowitz	9.1	326	i 1 54	-15	3 0	-51	3.4	—
Grozny	9.3	71	e 2 21	+10	e 4 38	S*	—	—
Belgrade	10.3	295	e 2 23a	- 2	i 5 5	S*	—	9.4
Lemberg	11.0	326	e 2 5	-30	—	—	—	7.6

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.
Helwan	11.3	190	2 41	+ 2	e 5 21	+36	—	—
Baku	12.4	87	3 3	+ 9	5 30	+17	7.1	9.0
Zagreb	13.6	297	e 3 10k	0	e 6 8	+27	—	7.7
Vienna	14.1	307	e 3 23	+ 6	e 6 13	+20	—	10.6
Graz	14.3	301	i 3 16	- 3	i 6 21	+23	i 6.9	8.6
Moscow	15.0	9	e 3 23	- 5	e 5 56	-19	6.6	11.8
Triest	15.1	295	i 3 28k	- 2	i 6 37	+20	—	10.3
Prague	16.1	311	3 40k	- 3	e 6 51	+10	e 9.6	12.6
Padova	16.4	293	e 3 45	- 1	10 34	?	—	—
Florence	16.6	287	4 1	+12	8 10	?	—	—
Cheb	17.3	309	e 3 59	+ 1	e 7 24	+15	e 9.6	12.1
Chur	18.1	300	e 4 10	+ 2	e 7 18	- 9	—	—
Jena	18.1	314	e 4 10	+ 2	e 7 34	+ 7	e 9.6	14.1
Stuttgart	18.8	308	i 4 16k	0	e 7 42	0	e 9.6	12.9
Pulkovo	18.9	355	i 4 13	- 4	i 7 26	-18	10.1	13.4
Zurich	18.9	298	e 4 16	- 1	e 7 49	+ 5	—	—
Göttingen	19.2	312	i 4 19a	- 2	i 7 59	+ 9	e 11.6	13.6
Karlsruhe	19.3	304	4 10	-12	—	—	—	—
Basle	19.6	299	e 4 25	0	e 8 7	+ 9	—	—
Strasbourg	19.6	302	i 4 26k	+ 1	i 8 9	+11	9.6	—
Neuchatel	19.9	298	e 4 28	- 1	e 8 13	+ 9	—	—
Copenhagen	20.1	325	4 29	- 2	8 4	- 4	12.6	—
Hamburg	20.2	317	e 4 30k	- 2	i 8 15	+ 5	—	12.6
Upsala	21.3	337	i 4 40	- 3	i 8 24	- 8	—	14.5
De Bilt	22.2	311	4 56	+ 3	9 0	+10	e 10.6	16.3
Uccle	22.3	306	i 4 55k	+ 1	i 8 54	+ 2	e 11.6	—
Paris	23.1	300	i 5 2	0	i 9 14	+ 7	11.6	12.6
Barcelona	23.5	283	5 6	+ 1	9 26	+12	e 12.8	—
Sverdlovsk	23.6	38	i 5 14	+ 8	i 9 30	+14	12.7	20.9
Algiers	23.9	270	e 4 19	-50	e 7 34?	?	9.6	—
Tortosa	N. 24.8	281	5 23	+ 5	9 58	+21	e 10.6	—
Kew	25.3	307	i 5 25k	+ 2	i 10 0	+14	11.6	14.2
Bergen	26.0	329	5 6	-23	10 12	+14	—	—
Oxford	26.0	307	i 6 55	+86	e 11 20	+82	—	11.9
Jersey	26.2	301	i 5 48	+17	i 10 11	+ 9	e 16.6	—
Tashkent	26.8	77	i 5 39	+ 3	i 10 14	+ 2	e 17.1	21.1
Stonyhurst	27.1	311	5 37	- 2	e 10 12	- 5	14.6	21.1
Edinburgh	28.0	315	e 5 50	+ 3	i 10 35	+ 3	e 14.6	19.6
Almeria	28.1	274	e 5 16	-32	—	—	e 29.6	—
Rathfarnham Castle	29.2	309	i 5 32	-26	i 10 15	-36	—	14.6
Frunse	30.3	73	e 6 6	- 2	—	—	—	—
San Fernando	31.0	275	—	—	e 11 21	+ 1	16.6	—
Semipalatinsk	33.4	57	—	—	e 11 37	-20	—	—
Agra	E. 38.9	96	i 8 55	PP	—	—	—	—
Bombay	40.1	112	e 7 34?	+ 1	—	—	—	25.7
Scoresby Sund	40.4	335	7 36	+ 1	13 53	+11	20.6	—
Hyderabad	45.1	108	14 52	S	(14 52)	0	19.7	26.0
Kodaikanal	E. 49.4	116	—	—	e 18 34?	S _c S	—	—
Chiufeng	60.2	61	e 10 5	- 1	e 18 23	+ 4	—	39.6
Weston	72.6	312	i 11 24	- 2	—	—	—	—

Additional readings:—

Bucharest iN = +1m.51s., P_gN = +1m.54s.
 Sofia e = +2m.8s., iNE = +4m.0s.
 Tiflis eN = +2m.54s., eSN = +3m.52s.
 Belgrade e = +2m.49s. and +3m.46s., i = +5m.45s.
 Trieste i = +6m.24s. and +8m.17s.
 Jena eN = +4m.15s.
 Stuttgart ePP = +4m.43s., iSEZ = +7m.54s. =SS -3s.
 Strasbourg i = +8m.29s., eSS = +8m.34s.
 Copenhagen i = +8m.14s. and +11m.4s.
 Upsala iE = +8m.38s., iN = +8m.44s., iE = +8m.48s.
 De Bilt iZ = +5m.17s. =PPPP +1s.
 Jersey e = +8m.3s., e = +10m.1s.
 Rathfarnham Castle e = +11m.20s.
 Scoresby Sund +9m.11s., +16m.52s. =SSS -3s.
 Hyderabad S = +18m.31s.
 Chiufeng eE = +18m.34s.
 Long waves were also recorded at Cape Town, Ivigtut, and Bidston.

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Sept. 21d. 12h. 27m. 9s. Epicentre 41°·0N. 33°·5E. (as at 11h.).

R.1.

A = +·6293, B = +·4166, C = +·6561; $\delta = +4$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Istanbul	3·4	273	-0 8	-57	0 18	-69	—	—
Yalta	3·5	8	0 48	-2	i 1 26	-4	—	1·5
Sebastopol	3·6	0	0 51	0	i 1 33	+1	—	1·6
Simferopol	3·9	7	0 56	0	i 1 39	-1	—	1·8
Theodosia	4·2	18	1 0	0	i 1 52	+4	—	2·0
Sotchi	5·2	59	e 0 13	-61	—	—	—	—
Bucharest	6·4	305	e 1 33	+2	i 2 41	-2	—	—
Ksara	7·4	164	i 1 48k	+3	3 18	+9	—	—
Sofia	7·8	286	e 2 0	+9	i 3 21	+2	—	5·4
Erevan	8·3	88	e 1 59	+1	e 4 9	S*	—	—
Tiflis	8·5	82	e 2 7	+7	e 3 52	+16	i 4·8	6·4
Czernowitz	9·1	326	i 1 54	-15	3 9	-42	3·5	—
Grozny	9·3	71	—	—	e 4 27	S*	—	—
Belgrade	10·3	295	e 2 23a	-2	e 4 3	-18	—	9·3
Lemberg	11·0	326	—	—	e 4 27	-11	—	10·7
Baku	12·4	87	e 2 59	+5	e 5 29	+16	—	9·9
Zagreb	13·6	297	e 3 13k	+3	e 6 15	+34	—	7·2
Vienna	14·1	307	e 3 17	0	e 6 17	+24	—	—
Graz	14·3	301	i 3 20	+1	e 6 20	+22	e 7·5	9·3
Moscow	15·0	9	e 3 23	-5	e 5 57	-18	7·3	10·1
Triest	15·1	295	3 26	-4	i 6 35	+18	—	9·0
Prague	16·1	311	e 3 41k	-2	e 6 52	+11	e 8·9	10·9
Florence	16·6	287	4 8	+19	7 13	+21	—	—
Cheb	17·3	309	e 4 0	+2	e 7 33	+14	—	—
Chur	18·1	300	e 4 9	+1	e 7 17	-10	—	—
Jena	18·1	314	e 4 21	+13	e 7 35	+8	e 9·8	13·7
Stuttgart	18·8	308	e 4 16k	0	e 7 44	+2	e 10·9	13·1
Pulkovo	18·9	355	i 4 14	-3	e 7 29	-15	10·3	14·4
Zurich	18·9	298	e 4 17	0	e 7 48	+4	—	—
Göttingen	19·2	312	i 4 29	+8	i 7 58	+8	—	—
Basle	19·6	299	e 4 24	-1	e 8 1	+3	—	—
Strasbourg	19·6	302	i 4 28k	+3	i 8 6	+8	e 8·9	—
Neuchatel	19·9	298	e 4 28	-1	e 8 12	+8	—	—
Copenhagen	20·1	325	4 31	0	8 6	-2	12·9	—
Hamburg	20·2	317	e 4 29k	-3	e 8 15	+5	—	11·9
Upsala	21·3	337	4 41	-2	i 8 23	-9	e 15·8	16·5
De Bilt	22·2	311	4 55	+2	8 59	+9	e 10·9	—
Uccle	22·3	306	4 54k	0	i 9 0	+8	e 11·9	—
Paris	23·1	300	e 5 0	-2	9 14	+7	12·9	16·9
Barcelona	23·5	283	e 5 4	-1	e 9 28	+14	—	—
Sverdlovsk	23·6	38	i 5 14	+8	i 9 30	+14	15·5	—
Tortosa	N. 24·8	281	5 20	+2	—	—	—	—
Kew	25·3	307	i 5 24k	+1	i 9 59	+13	12·9	16·0
Bergen	26·0	329	5 34	-5	10 14	+16	—	—
Oxford	26·0	307	6 56	?	11 21	?	—	—
Jersey	26·2	301	i 5 27	-4	e 10 5	+3	e 18·9	—
Tashkent	26·8	77	5 42	+6	10 23	+11	—	19·6
Stonyhurst	27·1	311	e 5 29	-10	e 10 19	+2	—	18·9
Bidston	27·4	310	2 51?	?	—	—	—	—
Edinburgh	28·0	315	—	—	i 9 35	-57	—	—
Almeria	28·1	274	e 5 46	-2	—	—	—	—
Andijan	29·1	78	e 5 55	-2	—	—	—	—
Rathfarnham Castle	29·2	309	i 5 36	-22	10 9	-42	—	23·9
Frunse	30·3	73	e 6 8	0	—	—	—	—
Scoresby Sund	40·4	335	7 39	+4	14 3	+21	22·8	—
Weston	72·6	312	i 11 24	-2	—	—	—	—

For Notes see next page.

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NOTES TO SEPT. 21d. 12h. 27m. 9s.

Additional readings:—

Sotchi e = +15s., i = +23s., and +43s., e = +1m.15s.
 Bucharest P = +1m.51s., i = +2m.56s., SS = +3m.15s.
 Sofia iNE = +4m.5s.
 Belgrade e = +4m.45s., e = +5m.24s.
 Jena eSE = +7m.39s.
 Stuttgart iSEZ = +7m.51s.
 Strasbourg eSS = +8m.35s.
 Copenhagen i = +8m.16s.
 Upsala iE = +8m.38s., iN = +8m.41s.
 De Bilt iZ = +5m.16s.
 Jersey e = +13m.27s.
 Rathfarnham Castle i = +11m.6s.
 Scoresby Sund +9m.9s. and +16m.57s.

Sept. 21d. 13h. 9m. 39s. Epicentre 41°·0N. 33°·5S. (as at 12h.).

R.3.

A = +·6293, B = +·4166, C = +·6561; $\delta = +4$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Istanbul	3·4	273	1 2	P _g	1 26	- 1	—	—
Yalta	3·5	8	0 48	- 2	i 1 28	- 2	—	—
Sebastopol	3·6	0	0 52	+ 1	i 1 32	0	—	—
Simferopol	3·9	7	0 56	0	i 1 43	+ 3	—	1·7
Theodosia	4·2	18	1 0	0	i 1 48	0	—	—
Sotchi	5·2	59	e 1 7	- 7	i 1 25	?	—	—
Bucharest	6·4	305	e 1 33	+ 2	—	—	e 2·4	—
Ksara	7·4	164	—	—	e 3 10	+ 1	—	—
Sofia	7·8	286	—	—	e 2 57	-22	—	—
Erevan	8·3	88	—	—	e 4 33	S _g	—	—
Tiflis	8·5	82	e 3 17	?	e 4 57	S _g	e 5·6	—
Czernowitz	9·1	326	1 56	-13	—	—	3·6	—
Moscow	15·0	9	e 3 49	+21	—	—	—	—
Triest	15·1	295	e 3 5	-25	—	—	—	—
Pulkovo	18·9	355	e 4 13	- 4	—	—	12·4	—
Sverdlovsk	23·6	38	5 14	+ 8	e 8 33	-43	—	—

Additional readings:—

Ksara e = +4m.16s.
 Sofia e = +3m.57s.
 Triest e = +8m.24s.
 Long waves were also recorded at De Bilt and Copenhagen.

Sept. 21d. 16h. 29m. 24s. Epicentre 17°·0S. 176°·5E.

N.3.

A = -·9545, B = +·0584, C = -·2924; $\delta = -2$;
 D = +·061, E = +·998; G = +·292, H = -·018, K = -·956.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	11·7	76	2 36?	- 8	—	—	—	—
Wellington	24·3	183	5 55	+42	9 35	+ 7	e 12·6	16·6
Christchurch	26·7	186	6 57	?	i 10 19	+ 9	11·7	13·6
Honolulu	45·8	35	—	—	e 15 16	+14	20·6	—
Manila	63·2	297	10 30	+ 3	15 43	?	20·7	—
Chiufeng	80·0	317	e 12 5	- 3	e 22 10	- 6	—	—
Pasadena	z. 80·4	50	i 12 9	- 1	—	—	—	—
Mount Wilson	z. 80·6	50	i 12 10	- 1	—	—	—	—
Tinemaha	z. 81·8	47	e 12 17	0	—	—	—	—
Tucson	85·1	54	e 12 34	0	e 23 12	+ 3	e 38·8	—
Tashkent	113·9	308	—	—	e 31 42	?	e 65·4	75·4
Tiflis	132·0	312	e 19 18	[+ 8]	—	—	—	—
Ksara	141·0	302	e 19 17	[- 6]	—	—	—	82·1
De Bilt	144·3	352	e 19 36	[+ 4]	—	—	e 71·6	—
Kew	145·5	357	i 19 37	[+ 2]	—	—	e 68·6	—

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.
Uccle	145.6	353	i 19 38k	[+ 3]	—	—	e 68.6	—
Stuttgart	146.6	345	e 19 37	[0]	—	—	e 75.6	—
Strasbourg	147.1	347	i 19 43	[+ 6]	—	—	e 70.6	—
Paris	147.8	354	e 19 46	[+ 7]	—	—	e 74.6	116.6
Zurich	148.0	346	e 19 40	[+ 1]	—	—	—	—
Chur	148.3	344	e 19 42	[+ 3]	—	—	—	—

Additional readings :—

Tucson eSS = +28m.54s.

Tiflis e = +22m.42s. = PKS + 0s.

Ksara ePP = +23m.3s., eSKSP = +33m.27s., ePPS = +36m.27s.

Long waves were also recorded at College, Pulkovo, Sverdlovsk, Upsala, Edinburgh, Stonyhurst, Bidston, Copenhagen, San Fernando, and Granada.

Sept. 21d. Readings also at 0h. (Zurich, near Basle, and Neuchatel), 4h. (Berkeley), 5h. (near Santiago), 6h. (Fresno, Haiwee (2), Mount Wilson (2), Pasadena, and near Tinemaha (2)), 7h. (Santiago), 9h. (Scoresby Sund), 10h. (Mount Wilson, Pasadena, and near Medan (2)), 11h. (Sebastopol, Simferopol, Theodosia, and Yalta), 12h. (Apia), 13h. (Manzanillo, near Sebastopol (2), Simferopol (2), Theodosia, and Yalta (2)), 14h. (Ksara, Czernowitz, Tiflis, near Sebastopol, Simferopol, Theodosia, and Yalta), 15h. (Mount Wilson, Pasadena, Tinemaha, Scoresby Sund (3), Ivigtut, Reykjavik (4), Malabar, near Batavia, and Soengei Langka), 16h. (Reykjavik (6), Ivigtut (2), Scoresby Sund (2), Edinburgh (2), Stonyhurst (2), Kew, De Bilt (2), Uccle, Strasbourg, Paris, Stuttgart, Bidston, Copenhagen (2), Pulkovo, Sverdlovsk, Tashkent, and Malabar), 17h. (Guadalajara, Manzanillo, Tacubaya, La Jolla, Mount Wilson, Pasadena, Tinemaha, Reykjavik (15), Scoresby Sund (3), Edinburgh, Ksara, near Sebastopol, Simferopol, Theodosia, and Yalta), 18h. (Reykjavik (20), Scoresby Sund (2), Ivigtut, Bidston, Kew, Copenhagen, Paris, Strasbourg, De Bilt, Uccle, Hamburg, Prague, Stuttgart, Moscow, Pulkovo, Sverdlovsk, and Tashkent), 19h. (Sebastopol, Simferopol, Yalta, and Reykjavik (5)), 20h. (Reykjavik (7), Ivigtut, Scoresby Sund, Hamburg, Pulkovo, Prague, De Bilt, Uccle, Stuttgart, Strasbourg, Paris, Copenhagen, Kew, Bidston, Edinburgh, Granada, Tashkent, Sverdlovsk, and near Santiago), 21h. (Reykjavik (3)), 22h. (Reykjavik, and near Florissant), 23h. (Scoresby Sund, Oak Ridge, Florissant, St. Louis, La Jolla, Mount Wilson, and Pasadena.

Sept. 22d. 10h. 40m. 10s. Epicentre $41^{\circ}5N$. $117^{\circ}0W$. (as on 21d.).

R.3.

A = -0.3400, B = -0.6673, C = +0.6626; $\delta = -7$;

D = -0.891, E = +0.454; G = -0.301, H = -0.590, K = -0.749.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Tinemaha	4.5	192	i 0 59	- 5	i 1 54	- 1	—
Fresno	5.2	205	e 1 14	0	e 2 15	+ 2	—
Berkeley	5.4	230	e 1 19	+ 2	e 2 23	+ 5	—
Haiwee	5.4	189	e 1 23	+ 6	e 2 23	+ 5	—
Branner	5.7	226	e 1 30	+ 9	—	—	—
Mount Wilson	7.3	187	i 1 43	- 1	i 3 22	+16	—
Pasadena	7.4	188	e 1 43	- 2	i 3 29	+20	—
Santa Barbara	7.4	198	e 2 11	P*	e 3 21	+12	—
La Jolla	8.7	181	—	—	e 4 9	S*	—
Tucson	10.5	150	e 2 32	+ 4	e 4 47	+21	e 5.2

Additional readings :—

Tinemaha iNZ = +1m.8s.

Fresno iPN = +1m.19s.

Haiwee iZ = +1m.30s.

Mount Wilson iZ = +2m.0s. and +2m.57s., iS = +3m.27s.

Pasadena iZ = +1m.59s.

Long waves recorded at Butte.

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Sept. 22d. 11h. 56m. 54s. Epicentre 41°·0N. 33°·5E. (as on Sept. 21d.). R.2.

A = +·6293, B = +·4166, C = +·6561; $\delta = +4$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Istanbul	3·4	273	0 55	+ 6	1 30	+ 3	—	—
Sotchi	5·2	59	e 1 13	- 1	e 2 17	+ 4	—	—
Bucharest	6·4	305	e 1 30	- 1	2 29	-14	—	—
Ksara	7·4	164	i 1 48k	+ 3	i 4 16	+67	—	—
Sofia	7·8	286	e 2 6?	P*	—	—	—	—
Erevan	8·3	88	e 2 33	+35	—	—	—	—
Tiflis	8·5	82	e 2 7	+ 7	e 3 51	+15	4·9	6·5
Grozny	9·3	71	e 2 21	+10	e 3 11	-45	—	—
Belgrade	10·3	295	—	—	e 4 34	+13	—	—
Zagreb	13·6	297	e 3 10	0	—	—	—	—
Vienna	14·1	307	e 3 16	- 1	—	—	—	—
Moscow	15·0	9	e 3 33	+ 5	e 6 2	-13	—	—
Triest	15·1	295	3 27	- 3	6 36	+19	—	—
Stuttgart	18·8	308	e 4 13	- 3	e 7 51	+ 9	e 11·0	—
Pulkovo	18·9	355	i 4 18	+ 1	e 7 27	-17	11·6	13·0
Strasbourg	19·6	302	i 4 25k	0	e 8 11	+13	e 11·1	—
Copenhagen	20·1	325	4 42	+11	8 7	- 1	12·1	—
Upsala	N. 21·3	337	e 5 1	+18	i 8 27	- 5	—	—
De Bilt	22·2	311	4 55	+ 2	9 1	+11	e 11·1	—
Uccle	22·3	306	e 4 53	- 1	e 8 59	+ 7	12·1	—
Paris	23·1	300	e 5 1	- 1	—	—	13·1	—
Sverdlovsk	23·6	38	i 5 13	+ 7	i 9 29	+13	12·1	—
Algiers	23·9	270	e 4 36	-33	—	—	e 11·1	—
Kew	25·3	307	e 5 23	0	e 9 58	+12	e 12·1	—
Tashkent	26·8	77	e 6 0	+24	i 10 29	+17	e 15·3	20·5
Edinburgh	28·0	315	e 4 15	-92	e 10 36	+ 4	e 16·1	—

Additional readings :—

Bucharest SS = +3m.0s.

Grozny e = +6m.11s.

Belgrade e = +4m.42s., +5m.19s., +6m.2s., and +7m.36s.

Triest i = +8m.26s.

Upsala iN = +8m.44s.

De Bilt iZ = +5m.15s. = PPP + 0s.

Tashkent e = +11m.18s.

Long waves were recorded at Baku.

Sept. 22d. Readings also at 0h. (Stuttgart, Frunse, Samarkand, near Andijan; Sebastopol, Theodosia, near Simferopol, and Yalta), 5h. (Mizusawa, near New Plymouth, and near Wellington), 6h. (Butte), 8h. (Medan), 9h. (Reykjavik, Ksara, near Simferopol, Sebastopol, Theodosia, and Yalta), 11h. (Sebastopol, Theodosia, Yalta, and near Simferopol), 12h. (Reykjavik (2) and Santiago (2)), 13h. (near Apia), 14h. (Santiago, Mount Wilson, Pasadena, Tinemaha, Andijan, and near Samarkand), 15h. (Santiago), 16h. (Malabar, Yalta, and Sebastopol), 17h. (Balboa Heights (2) and near Santiago), 18h. (near Balboa Heights), 21h. (near Santiago and San Javier),.

Sept. 23d. 17h. Readings which may indicate more than one local shock :—

Berkeley e = 16m.50s., eE = 19m.21s.

San Francisco ePN = 16m.53s., eSEN = 17m.33s.

Branner eN = 16m.57s., ePE = 18m.55s., eN = 18m.56s., eSEN = 19m.37s., iSN = 19m.40s.

Lick ePN = 17m.3s., eEN = 17m.43s.

Ukiah e = 17m.7s., 17m.35s., and 19m.7s.

Tinemaha ePZ = 17m.14s., iSZ = 18m.28s., iSNZ = 20m.27s., iSZ = 20m.30s.

Ferndale eEN = 17m.19s., 18m.48s., and 19m.14s.

Mount Wilson ePZ = 18m.12s., iSZ = 19m.52s., iPZ = 20m.12s., iSZ = 21m.46s. and 21m.52s.

Fresno ePN = 19m.13s., iSN = 20m.12s.

Pasadena iSE = 19m.48s. and 21m.24s.

Haiwee iSE = 20m.47s.

Long waves were recorded at Tucson.

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Sept. 23d. Readings also at 0h. (Tacubaya), 2h. (Branner and Lick), 6h. (Christchurch, Wellington, Riverview, Ksara, Paris, Strasbourg, Kew, and near Santiago), 7h. (Sverdlovsk, Tashkent, Mount Wilson, Pasadena, Tinemaha, near La Jolla, and near Tucson), 9h. (San Juan, near Nagoya, Kobe, and Sumoto), 10h. (Batavia and near Malabar), 11h. (Lick), 12h. (Huancayo, near Sebastopol, and Yalta), 13h. (Tifis, near Ksara, near Simferopol, and Theodosia), 15h. (near Berkeley), 16h. (near Branner), 17h. (Oak Ridge, Branner, near Fresno, Berkeley (2), Mount Wilson, Pasadena, and Tinemaha), 19h. (Kobe, near Nagoya, and near Mizusawa (2)), 20h. (Tifis and near Andijan), 22h. (Mount Wilson and near Manila), 23h. (Pasadena, Tinemaha, Sverdlovsk, Tashkent, Tifis, Ksara, Chiufeng, Medan, Malabar, and near Batavia).

Sept. 24d. Readings at 1h. (Hong Kong), 2h. (Malabar), 3h. (Tucson, near Berkeley (2), Branner (2), Fresno, Lick (2), and San Francisco (2)), 6h. (Haiwee, La Jolla, Mount Wilson, Pasadena, Tinemaha, and near Apia), 7h. (Ksara), 8h. (Almeria, Batavia, Manila, Chiufeng, Hong Kong, Medan, Nanking, Kodaikanal, Bombay, Tashkent, Ksara, and Sverdlovsk), 9h. (De Bilt, Strasbourg, and Tucson), 11h. (near Wellington), 12h. and 13h. (Batavia), 14h. (Chiufeng, Nanking (2), Vladivostok (2), Sverdlovsk, Tashkent, Tucson, near Berkeley, Branner, Lick, San Francisco, Fresno (3), and near Apia), 15h. (Nanking, De Bilt (2), and Stuttgart), 18h. (Frunse, Samarkand, and near Andijan), 19h. (Tifis, Tashkent, Sverdlovsk, Vladivostok, Manila, Hong Kong, Chiufeng, Mount Wilson, Pasadena, and Tinemaha), 20h. (Paris, Uccle, Stuttgart, Strasbourg, De Bilt, Tashkent, Copenhagen, Zi-ka-wei, Hukuoka B, Calcutta, Baku, Chiufeng, Nanking, Manila, and Hong Kong), 21h. (Baku, Tifis, Sverdlovsk, Vladivostok, Pulkovo, Medan, De Bilt, Uccle, Copenhagen, Husan, Keizyo, near Taikyu, and Zinsen, near Florissant, and near Branner), 23h. (Almeria and Tifis).

Sept. 25d. 1h. 8m. 32s. Epicentre $38^{\circ}7'N$. $69^{\circ}2'E$. N.3.

(as given by U.S.S.R. stations of Central Asia).

$$A = +.2771, B = +.7296, C = +.6252; \quad \delta = -2;$$

$$D = +.935, E = -.355; \quad G = +.222, H = +.584, K = -.780.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Samarkand	2.0	299	0 25	- 4	i 0 55	+ 4	—	1.4
Tashkent	2.4	1	e 0 30	- 4	—	—	i 1.4	2.1
Andijan	3.2	50	0 46	0	i 1 32	S*	—	1.8
Tchimkent	3.6	4	i 1 4	P*	i 2 1	S*	—	—
Frunse	5.8	42	e 1 30	P*	e 2 25	- 3	e 3.0	3.3
Almata	7.4	49	e 2 1	P*	e 3 52	S*	—	—
Baku	15.0	282	—	—	e 6 38	+23	—	—
Grozny	18.2	293	e 4 6	- 3	e 7 41	SS	—	—
Tifis	18.8	288	e 3 54	-22	e 7 46	+ 4	—	—
Sverdlovsk	19.0	346	4 23	+ 4	—	—	e 10.4	12.0
Ksara	27.2	270	e 4 35	- 5	e 9 28	-50	—	—

Additional readings:—

Samarkand $iP_s = +27s.$, $iPP = +34s.$, $iPS = +50s.$

Andijan $P_s = +54s.$, $i = +1m.5s.$, $+1m.26s.$, and $+1m.35s.$, $S_s = +1m.39s.$

Tchimkent $i = +1m.38s.$, $iPS = +1m.47s.$

Frunse $e = +2m.17s.$

Ksara $eSS = +10m.48s.$

Long waves were also recorded at Semipalatinsk and Copenhagen.

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Sept. 25d. 12h. 53m. 43s. Epicentre 42°·5N. 129°·0W. (as on 1933 Mar. 26d.). R.2.

Very uncertain.

A = -·4640, B = -·5730, C = +·6756 ; $\delta = +6$;
D = -·777, E = +·629 ; G = -·425, H = -·525, K = -·737.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ferndale	4·1	117	—	—	e 1 37	- 8	—	—
Ukiah	5·5	126	e 1 2	-16	2 22	+ 2	3·6	—
Berkeley	7·0	129	e 1 37	- 2	e 5 18	?	—	—
Seattle	7·0	40	e 1 18	-21	2 25	-34	3·6	—
Branner	E. 7·3	132	e 1 44	0	e 4 47	?	—	—
	N. 7·3	132	e 1 50	+ 6	e 4 52	?	—	—
Fresno	N. 9·1	126	e 1 57	-12	—	—	—	—
Tinemaha	N. 9·8	120	e 2 19	+ 1	—	—	—	—
Haiwee	10·6	123	e 2 34	+ 5	—	—	—	—
Mount Wilson	Z. 11·9	131	e 2 40	- 7	—	—	—	—
Pasadena	11·9	131	i 2 49 _a	+ 2	—	—	e 5·1	—
Butte	12·2	67	e 3 59	+68	e 5 47	+39	e 6·8	—
Riverside	Z. 12·5	129	e 2 46	- 9	—	—	—	—
Bozeman	13·3	70	e 2 49	-17	e 5 45	+11	e 6·9	—
La Jolla	13·4	132	e 3 8	+ 1	—	—	—	—
Sitka	15·1	346	3 16	-14	5 59	-18	i 6·7	—
Tucson	17·6	120	e 3 56	- 6	e 7 31	+16	e 8·9	—
Saskatoon	17·9	50	e 3 58	- 7	7 26	+ 4	—	—
Denver	18·3	91	e 6 34	?	e 7 50	+19	e 10·4	10·8
College	24·8	341	e 5 19	+ 1	e 9 36	- 1	12·3	—
Florissant	29·3	83	e 5 58	- 1	e 10 59	+ 6	—	—
St. Louis	E. 29·4	84	e 5 59	- 1	e 10 57	+ 2	e 14·5	17·4
Chicago	30·4	77	—	—	e 11 17?	+ 7	—	—
Honolulu	32·8	238	e 6 21	- 9	e 11 39	-10	13·8	—
Ann Arbor	33·0	74	e 6 41	+ 9	e 11 53	+ 2	e 17·9	26·7
Toronto	35·7	70	e 6 34	-21	e 12 21	-11	e 17·2	20·2
Ottawa	37·8	66	e 7 41	PP	e 12 35	-28	e 17·3	—
Columbia	38·1	86	e 7 53	+37	e 13 33	+25	e 19·3	—
Ithaca	38·1	71	e 8 47	PP	e 12 41	-27	e 19·3	—
Vermont	39·7	66	e 8 55	PP	e 13 35	+ 3	e 19·9	—
Philadelphia	39·9	74	e 8 54	PP	e 13 26	- 9	e 20·9	—
Fordham	40·4	73	—	—	13 45	+ 3	—	—
Ivigut	49·5	39	—	—	15 58	+ 4	20·3	—
San Juan	57·9	94	—	—	e 17 44	- 4	e 27·6	—
Sendai	65·3	300	9 26	-75	—	—	—	—
Hokusima	65·9	300	9 1	-104	—	—	—	—
Tyosi	66·8	298	9 4	-107	—	—	—	—
Kumagaya	67·6	298	9 35	-81	—	—	—	—
Maebasi	67·6	299	—	—	22 17?	?	—	—
Yokohama	67·9	299	—	—	20 17?	+21	—	—
Vladivostok	67·9	309	e 10 53	- 5	20 11	+15	34·8	38·9
Oiwake	68·1	300	10 3	-56	—	—	—	—
Apia	68·7	225	—	—	29 17?	SSSS	—	—
Bergen	70·7	22	9 38	?	e 20 9	-21	26·3	—
Kobe	71·2	300	—	—	e 27 39	SSS	—	33·2
Sumoto	71·6	300	—	—	e 30 16	SSSS	—	—
Huancayo	73·4	124	e 11 53	+22	e 20 59	- 2	e 29·3	—
Taikyu	74·5	305	—	—	e 26 24	SS	—	—
Pulkovo	76·3	11	e 11 52	+ 4	e 21 25	-10	34·3	38·5
Copenhagen	76·5	22	11 46	- 3	21 27	-10	30·3	—
De Bilt	77·4	27	e 11 59	+ 5	—	—	e 32·3	45·0
Hamburg	77·7	24	e 11 56	0	e 22 17?	+26	38·3	—
Uccle	78·3	29	e 11 59	0	—	—	e 32·3	—
Chiufeng	78·6	315	e 12 3	+ 3	e 19 59	?	e 33·1	48·9
Paris	79·2	31	e 12 1	- 3	—	—	34·3	36·3
Sverdlovsk	80·3	355	12 16	+ 7	e 22 12	- 7	32·9	44·5

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Moscow	81.1	7	e 12 56	+42	e 22 22	- 5	35.5	43.7
Strasbourg	81.3	27	e 12 7	- 8	—	—	e 41.3	—
Cheb	81.5	25	—	—	e 22 17?	-15	e 32.3	43.3
Stuttgart	81.6	27	e 12 17	+ 1	e 22 34	+ 1	e 33.3	47.3
Zi-ka-wei	82.0	306	e 12 37	+19	—	—	—	59.4
Prague	82.1	23	—	—	e 22 47	+ 9	e 33.3	46.3
Nanking	83.0	308	e 12 43	+20	22 56	+ 9	36.3	—
Semipalatinsk	83.6	342	e 14 26	PP	—	—	—	—
San Fernando	85.4	43	e 13 23	+48	22 59	[- 3]	36.3	—
Triest	85.8	26	12 35	- 2	e 20 57	?	e 36.3	46.0
Granada	86.1	41	e 12 33	- 6	i 22 50	[-17]	—	—
Simferopol	91.4	13	e 13 6	+ 2	e 23 57	[+16]	—	—
Theodosia	91.4	12	e 13 33	+29	e 23 38	[- 3]	—	—
Sebastopol	91.5	13	26 17	PS	—	—	—	—
Yalta	91.7	13	e 13 6	+ 1	e 23 41	[- 2]	e 54.3	—
Frunse	92.0	343	e 13 37	+30	—	—	48.3	—
Hong Kong	93.0	304	24 26	S	(24 26)	+ 2	—	50.8
Manila	94.3	294	16 57	PP	24 49	+13	43.8	—
Andijan	94.5	344	e 13 42	+24	—	—	48.8	—
Tashkent	94.6	346	13 46	+27	24 10	[+11]	51.1	59.9
Tiflis	95.6	5	e 13 33	+10	e 24 2	[- 2]	42.3	—
Samarkand	96.6	348	e 15 49	?	—	—	—	—
Baku	97.1	1	e 13 48	+18	e 38 9	SSSS	42.3	60.9
Phu-Lien	98.6	309	—	—	29 17?	?	45.3	—
Christchurch	100.7	219	22 59	PPPP	e 31 57	SS	e 44.6	49.8
Ksara	102.4	13	e 14 10	+15	—	—	45.3	—
Sydney	105.6	239	—	—	e 33 57	SS	59.6	63.1
Agra	E. 106.1	335	e 28 40	PS	—	—	—	—
Calcutta	106.4	324	—	—	e 25 2	[+ 6]	—	49.9
Bombay	115.2	337	e 19 17?	PP	—	—	—	—
Kodaikanal	E. 122.0	329	—	—	e 26 26	[+30]	57.2	64.4
Colombo	124.1	325	36 59	SS	—	—	—	67.3

Additional readings :—

Ferndale eEN = +2m.37s.

Ukiah P* = +1m.27s., P_g = +1m.38s., S_g = +2m.57s.

Berkeley ePNZ = +1m.42s., eZ = +4m.29s.

Seattle e = +1m.29s., e = +1m.43s., e = +2m.4s., e = +2m.30s., S* = +2m.59s., S_g = +3m.17s.

Tinemaha eN = +2m.34s.

Mount Wilson iP = +2m.50s.

Riverside iP = +2m.56s.

Sitka eP = +3m.23s., i = +3m.30s., PPP = +3m.52s., e = +6m.10s., SS = +6m.15s.

Tucson e = +4m.10s.

Denver eE = +6m.47s., eN = +6m.59s., eE = +7m.15s., eN = +7m.19s., eE = +7m.28s., eE = +7m.56s., eP_cPN = +8m.29s.

College e = +5m.49s., eSS = +10m.52s., eSSS = +11m.26s., SSS = +11m.36s.

Florissant ePPZ = +6m.15s., ipPZ = +6m.19s., isPEZ = +6m.41s., epPZ = +7m.2s., ipPPZ = +7m.18s., eSN = +11m.5s., esSE = +11m.21s.

St. Louis epPEN = +6m.17s., iE = +6m.21s. and +6m.25s., esPE = +6m.41s., ePPE = +7m.5s., epPPE = +7m.17s., esSE = +11m.26s., eE = +11m.45s., esSE = +12m.39s., eE = +13m.6s.

Ithaca eE = +9m.41s., eN = +10m.5s.

Vermont e = +22m.10s., i = +23m.37s.

Philadelphia e = +10m.2s., +13m.14s., +13m.44s. and +15m.44s., i = +20m.21s.

Fordham e = +14m.5s., eSS = +16m.47s.

Ivigtut +19m.29s.

San Juan eS = +17m.59s.

Vladivostok e = +11m.43s., e = +12m.27s., PPP = +15m.55s., e = +18m.27s., PS = +20m.47s., SS = +25m.41s.

Kobe eN = +28m.50s.

Sumoto eE = +30m.48s., eN = +32m.21s.

Copenhagen +26m.35s.

Chiufeng iPSEN = +22m.43s., SS!EN = +26m.45s.

Moscow PP = +15m.56s., e = +26m.12s.

Strasbourg ePS = +23m.17s.!

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Stuttgart ePSN = +23m.17s.
 Triest e = +23m.20s., i = +28m.9s., e = +34m.46s.
 Simferopol e = +16m.4s.
 Theodosia e = +17m.58s.
 Yalta e = +16m.41s. = PP + 2s.
 Hong Kong ? = +29m.45s., S? = +30m.33s., P₂? = +34m.30s., S₂? = +40m.34s. ;
 apparently two separate shocks.
 Manila eEN = +39m.17s.?
 Tashkent i = +18m.0s. and +22m.17s., e = +23m.53s., SS = +30m.59s., e =
 +33m.57s. and +37m.47s.
 Tiflis SKSN = +24m.9s., eSKKSN = +24m.55s., ePSN = +25m.56s., eE =
 +31m.2s., L_qE = +37.8m.
 Baku ePS = +26m.26s., eSS = +31m.59s.
 Ksara PP = +18m.28s., PS = +27m.46s., PPS = +28m.36s.
 Calcutta iN = +33m.56s. and +34m.27s., eN = +45m.45s.
 Kodaikanal eE = +29m.54s., e = +32m.3s.
 Long waves were also recorded at Perth, Riverview, Adelaide, Wellington, Cape
 Town, Hyderabad, Toyooka, Grozny, Scoresby Sund, East Machias, Oak
 Ridge, and other European stations.

Sept. 25d. Readings also at 0h. and 3h. (Medan), 5h. (Mizusawa and Nagoya), 6h.
 (Nanking, Vladivostok, Tashkent, Tiflis, near Mizusawa, and Nagoya), 9h.
 (Tiflis (2)), 11h. (near Medan), 12h. (near Granada), 13h. (Mount Wilson
 and Pasadena), 14h. (Sebastopol, Simferopol, and Yalta), 15h. (Sebastopol
 (2), Simferopol (2), Theodosia, and Yalta (2)), 21h. (near Kobe, Sumoto,
 and Nagoya), 23h. (Ksara).

Sept. 26d. Readings at 1h. (Tiflis, near Sebastopol, Simferopol (2), Yalta, Theodosia,
 near Ksara, and near San Javier), 3h. (Malabar, Pasadena, Riverside, and
 Tinemaha), 6h. (Mount Wilson, Pasadena, Tinemaha, Mizusawa, Nanking,
 Vladivostok, near Christchurch, and Wellington), 7h. (Sverdlovsk), 12h.
 (near Medan), 17h. (Almeria and near Wellington), 19h. (near Mizusawa),
 20h. (near Nagoya).

Sept. 27d. Readings at 1h. (Lick and near Fresno), 4h. and 5h. (near Medan), 10h.
 (Sebastopol, Simferopol, Theodosia, and Yalta), 11h. (Baku, Tiflis, Sverd-
 lovsk, Ksara, and Tashkent), 13h. (Sumoto, Nanking, near Mizusawa, and
 Nagoya), 16h. (Mount Wilson, Pasadena, and Tinemaha), 20h. (Medan),
 21h. (Samarkand and near Andijan).

Sept. 28d. Readings at 1h. (near Sumoto), 2h. (near Apia), 6h. and 8h. (near
 Santiago), 10h. (San Javier and near Santiago), 13h. (Paris, Stuttgart,
 Seattle, Scoresby Sund, Ann Arbor, Butte, Bozeman, Florissant, St. Louis,
 Philadelphia, Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha,
 Sitka, near College, Frunse, near Andijan, and Samarkand), 14h. (Oak
 Ridge), 17h. (Baku, Sverdlovsk, Tiflis, Tashkent, San Javier, Mount Wilson,
 Haiwee, Pasadena, and Tinemaha), 18h. (Tchinkent, Tiflis, Samarkand,
 Tashkent, near Andijan (2), and Frunse), 21h. (San Javier, near Santiago,
 and near Mizusawa), 23h. (near Wellington).

Sept. 29d. 16h. 35m. 57s. Epicentre 21°4S. 171°6E. (as on 1935 Aug. 17d.). X.

A = -0.9211, B = +0.1360, C = -0.3649; $\delta = +7$;
 D = +0.146, E = +0.989; G = +0.361, H = -0.053, K = -0.931.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	17.6	67	5 3?	+61	—	—	—	—
Wellington	20.1	174	4 26	-5	8 7	-1	9.9	11.0
Riverview	21.9	232	e 4 44	-6	i 8 39	-5	e 11.2	13.1
Christchurch	22.1	178	5 0	+8	8 44	-4	10.4	12.1
Melbourne	28.2	229	i 6 33	PP	i 10 22	-13	13.6	—
Adelaide	31.9	238	e 8 33	?	e 11 13	-21	i 14.5	18.6
Batavia	64.3	274	i 10 32	-2	i 19 5	-6	—	—
Pasadena	86.8	51	i 12 45	+3	—	—	—	—
Mount Wilson	z. 86.9	51	i 12 47	+4	—	—	—	—
Riverside	z. 87.3	52	i 12 48	+3	—	—	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Tinemaha	z. 88.2	49	e 12 52	+ 3	—	—	—	—
Tashkent	113.0	307	—	—	e 35 21	SS	e 36.6	37.2
Sverdlovsk	119.2	324	—	—	e 30 8	{+20}	49.0	—
Scoresby Sund	130.3	6	22 36	PKS	—	—	66.0	—
Grozny	130.3	309	e 19 11	[+ 3]	e 22 29	PP	—	—
Tiflis	131.2	307	e 19 10	[+ 1]	26 10	SKS	68.6	72.8
Pulkovo	132.9	334	e 19 27	[+15]	—	—	66.0	70.8
Ksara	139.2	296	e 19 25	[+ 5]	—	—	69.0	77.0
Copenhagen	142.4	341	19 28	[+ 3]	—	—	66.0	—
De Bilt	147.6	345	i 19 43	[+ 5]	i 23 18	PP	e 73.0	—
Uccle	148.9	345	i 19 48	[+ 8]	e 23 21	PP	e 73.0	—
Stuttgart	149.2	336	e 19 42	[+ 2]	e 23 9	PP	e 78.0	—
Paris	151.2	345	e 19 46	[+ 3]	e 23 35	PP	76.0	—

Additional readings:—

Wellington PP = +4m.39s., PPP = +5m.11s.

Riverview iE = +5m.6s., iSE = +8m.42s.

Pasadena iEZ = +13m.19s.

Mount Wilson iZ = +13m.6s. and +13m.20s., eZ = +16m.30s.

Tashkent e = +36m.21s., i = +36m.24s.

Tiflis PKSZ = +22m.30s., iEN = +22m.38s., SKKSE = +28m.25s., PPSE =

+33m.30s.

Ksara ePP = +22m.13s., eSKSP = +32m.28s., ePPS = +34m.51s., eSS =

+40m.59s.

Long waves were also recorded at Baku.

Sept. 29d. Readings also at 0h. (Medan, Frunse, Tashkent, and near Andijan), 2h. (near Algiers), 7h. (Apia (2)), 11h. (Tiflis), 15h. (Scoresby Sund), 16h. (Santiago and Tashkent), 17h. (Andijan, Frunse, Tchimkent, and near Samarkand), 18h. (Haiwee, La Jolla, Mount Wilson, Pasadena (2), Santa Barbara, Riverside, Tinemaha (2), Andijan (2), Frunse (2), Tashkent, and Tiflis), 19h. (Andijan, Frunse, Samarkand, and Tchimkent), 22h. (Sofia and near Belgrade).

Sept. 30d. 3h. 44m. 14s. Epicentre 35°·7N. 140°·4E. (as on 1936 Jan. 29d.). R.3.

A = -·6257, B = +·5176, C = +·5835; δ = -12;

D = +·637, E = +·771; G = -·450, H = +·372, K = -·812.

Report of Tokyo Imp. Univ. gives epicentre 35°·9N. 140°·1E.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Tokyo Imp. Univ.	0.5	268	0 8	+ 2	0 18	+ 5	—
Tokyo Cent. Met.	0.5	268	0 8	+ 2	0 18	+ 5	0.3
Komaba	0.6	265	0 11	+ 2	0 19	+ 4	—
Tokubasan	0.6	265	0 9	0	0 17	+ 2	—
Mifaka	0.7	267	0 16	0	0 19	+ 1	—
Kamakura	0.8	241	0 11	0	0 22	+ 1	—
Suzaki	1.6	228	0 21	- 2	0 38	- 3	—
Nagoya	2.9	259	e 0 32	- 2	1 28	S*	1.4
Mizusawa	E. 3.5	9	e 0 52	+ 2	i 1 32	+ 2	—
Kobe	4.4	258	e 0 52	- 5	e 1 53	0	2.4
Toyooka	E. 4.5	259	1 0	- 4	2 7	+12	2.5
Sumoto	N. 4.5	259	e 1 10	+ 6	2 9	S*	2.5
Hukuoka B	4.7	254	0 53	-14	e 2 15	S*	2.5
	8.5	257	e 2 8	+ 6	e 3 57	+21	—

Additional readings:—

Kobe ePE = +1m.3s.

Sumoto eZ = +1m.17s., eSE = +2m.18s.

Sept. 30d. Readings also at 0h. (La Paz), 5h. (near Santiago), 6h. (near Medan), 7h. (Malabar), 9h. (near Wellington), 10h. (Almeria), 12h. (Hankow), Medan, and near Sumoto), 17h. (Sverdlovsk and Tashkent), 18h. (College), 19h. (La Paz).