

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 April, May, June.

FORMERLY THE BULLETIN OF THE
BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.

The present quarter of the International Seismological Summary deals with 177 epicentres, classified as follows :—

N_1	11	R_1	17	X	61
N_2	20	R_2	15		
N_3	29	R_3	24		

Abnormal focal depth has been noted in the following cases :

	Date.	Epicentre.	Depth.
April	28d. 13h.	$6^{\circ}8'S.$ $129^{\circ}3'E.$	0.030
	30d. 17h.	$31^{\circ}5'S.$ $65^{\circ}0'W.$	0.030
May	6d. 3h.	$8^{\circ}3'S.$ $74^{\circ}0'W.$	0.025
	8d. 9h.	$6^{\circ}0'S.$ $113^{\circ}0'E.$	0.080
	8d. 17h.	$61^{\circ}2'N.$ $153^{\circ}0'W.$	0.0125
	19d. 7h.	$5^{\circ}9'S.$ $112^{\circ}5'E.$	0.080
	19d. 20h.	$9^{\circ}0'S.$ $124^{\circ}0'E.$	0.015
	20d. 0h.	$13^{\circ}4'N.$ $121^{\circ}5'E.$	0.025
	23d. 15h.	$41^{\circ}0'S.$ $179^{\circ}5'W.$	0.030
June	3d. 2h.	$41^{\circ}6'N.$ $142^{\circ}1'E.$	0.0075
	5d. 14h.	$0^{\circ}4'N.$ $123^{\circ}7'E.$	0.030
	10d. 8h.	$5^{\circ}5'S.$ $147^{\circ}0'E.$	0.0225
	25d. 16h.	$32^{\circ}4'N.$ $138^{\circ}0'E.$	0.060
	29d. 14h.	$36^{\circ}2'N.$ $70^{\circ}7'E.$	0.030

KEW OBSERVATORY,
Richmond, Surrey.

1947, May 27th.

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1936 APRIL, MAY, JUNE.

April 1d. 2h. 9m. 22s. Epicentre 3°·6N. 126°·7E. (as on 1935 May 20d.). R.1.

$$A = -.5964, B = +.8002, C = +.0628; \delta = -4;$$

$$D = +.802, E = +.598; G = -.038, H = +.051, K = -.998.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	7.4	168	i 2 0	P*	i 2 28	P _g	—	—
Palau	8.6	61	2 1	- 1	3 43	+ 4	—	—
Manila	12.3	334	i 2 50 ^a	- 2	5 22	+12	6.3	—
Kosyun	19.3	344	4 16	- 6	7 56	+ 4	—	—
Takao	20.0	344	4 26	- 4	—	—	—	—
Tainan	20.4	344	4 31	- 3	8 10	- 4	—	—
Arisan	20.7	345	4 49	+12	8 48	SS	—	—
Isigakizima	20.9	355	4 31	- 8	8 20	- 4	—	—
Karenko	21.0	346	4 37 ^a	- 3	—	—	—	—
Hokoto	21.1	344	4 33	- 8	—	—	—	—
Taiyu	21.4	346	4 34	-10	8 39	+ 5	—	—
Malabar	21.9	243	5 0	+10	i 9 36	+52	10.6	—
Taihoku	22.0	347	i 4 52 ^a	+ 1	8 44	- 2	—	12.8
Batavia	22.1	244	4 53	+ 1	i 9 1	+13	e 11.6	—
Hong Kong	22.3	329	4 56 ^k	+ 2	5 59	?	—	13.1
Naha	22.6	2	4 58	+ 1	9 2	+ 5	—	—
Nake	24.9	7	5 23	+ 4	9 41	+ 2	—	—
Titizima	27.8	31	5 44	- 1	—	—	—	—
Medan	27.9	272	i 5 54	+ 8	i 11 6	+36	—	—
Zi-ka-wei	E. 28.0	351	e 5 46	- 1	i 10 23	- 9	—	—
	N. 28.0	351	i 5 56	+ 9	i 10 35	+ 3	—	—
Kagosima	28.2	7	5 42	- 7	—	—	—	—
Miyazaki	28.7	8	5 46	- 7	10 26	-17	—	—
Tomie	29.1	4	5 59	+ 2	—	—	—	—
Nagasaki	29.3	5	5 52	- 7	10 43	-10	—	—
Unzendake	29.3	6	6 1	+ 2	—	—	—	—
Kumamoto	29.4	6	5 54	- 6	10 40	-15	—	—
Nanking	29.4	347	5 53	- 7	10 38	-17	14.8	18.0
Simidu	29.8	12	6 29	+26	—	—	—	—
Ooita	30.0	8	6 11	+ 6	—	—	—	—
Uwazima	30.1	10	6 10	+ 4	—	—	—	—
Hukuoka	30.2	7	6 9	+ 2	10 58	- 9	—	17.0
Hukuoka B	30.2	7	5 58	- 9	10 69	- 8	e 15.8	17.0
Muroto	30.5	13	6 13	+ 4	—	—	—	—
Kotl	30.6	12	6 12	+ 2	11 6	- 8	—	—
Matuyama	30.8	10	6 4	- 8	11 10	- 7	—	—
Siomisaki	31.0	15	6 10	- 4	11 8	-12	—	—
Hirosima	31.2	10	6 6	-10	11 13	-10	—	—
Tokusima	31.3	13	6 17	0	—	—	—	—
Tadotu	31.4	11	6 31	+14	—	—	—	—
Wakayama	31.6	14	6 13	- 6	11 8	-21	—	—
Husan	31.6	6	6 25	+ 6	11 16	-13	—	17.0
Sumoto	31.6	13	6 12	- 7	11 21	- 8	15.0	16.5
Hamada	31.7	9	6 21	+ 1	11 19	-12	—	—
Okayama	31.8	11	6 24	+ 3	—	—	—	—
Kobe	32.0	15	e 6 16	- 7	11 27	- 8	e 13.4	17.3
Hatidyozima	32.0	21	6 38	+15	—	—	—	—
Yagi	32.1	15	6 21	- 3	—	—	—	—
Osaka	32.1	14	6 13	-11	11 19	-18	—	—
Tu	32.4	15	6 14	-12	—	—	—	—
Sakai	32.5	9	6 26	- 1	—	—	—	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Kyoto	32.5	14	6 23	- 4	11 29	-14	—	—
Kameyama	32.5	15	6 22	- 5	11 22	-21	—	—
Omaesaki	32.8	18	6 23	- 7	—	—	—	—
Toyooka	32.8	13	6 34	+ 4	11 38	-10	13.3	23.4
Hamamatu	32.8	17	6 22	- 8	11 24	-24	—	—
Nagoya	32.9	17	e 6 26	- 5	—	—	e 12.8	21.1
Miyadu	32.9	13	6 37	+ 6	—	—	—	—
Hikone	32.9	16	6 34	+ 3	11 41	- 8	—	—
Ibukisan	33.0	16	6 31	- 1	11 40	-11	—	—
Gihu	33.1	17	6 32	- 1	11 44	- 8	—	—
Ito	33.4	18	6 53	+18	—	—	—	—
Numadu	33.4	18	6 38	+ 3	—	—	—	—
Misima	33.5	18	6 35	- 1	—	—	—	—
Iida	33.5	18	6 40	+ 4	—	—	—	—
Mera	33.6	20	6 40	+ 3	12 1	+ 1	—	—
Hunatu	33.8	19	6 31	- 8	—	—	—	—
Kohu	33.9	19	6 33	- 6	11 41	-23	—	—
Zinsen	33.9	0	e 6 32	- 7	i 11 57	- 7	e 14.0	19.5
Yokohama	34.0	19	6 58	+18	—	—	—	—
Keizyo	34.0	1	e 6 42	+ 2	11 20	+14	15.0	—
Kanazawa	34.2	13	6 46	+ 4	—	—	—	—
Matumoto	34.2	16	6 45	+ 3	—	—	—	—
Tokyo	34.3	19	6 51	+ 8	—	—	—	—
Toyama	34.5	35	6 37	- 8	11 55	-19	—	—
Oiwake	34.5	18	6 39	- 6	12 4	-10	—	—
Husiki	34.5	14	6 39	- 6	—	—	—	—
Kumagaya	34.6	18	6 48	+ 2	—	—	—	—
Tyosi	34.7	21	6 44	+ 2	—	—	—	—
Nagano	34.7	17	6 49	+ 3	—	—	—	—
Maebasi	34.7	18	6 43	- 3	11 44	-33	—	—
Kakioka	34.9	19	6 47	- 1	11 58	-22	—	—
Tukubasan	34.9	19	6 46	- 2	11 51	-29	—	—
Wazima	35.1	15	6 52	+ 2	12 14	- 9	—	—
Takada	35.1	17	6 57	+ 7	—	—	—	—
Mito	35.2	19	6 57	+ 6	—	—	—	—
Heizyo	35.4	359	7 0	+ 7	12 27	0	—	17.5
Dairen	35.6	353	6 47	- 7	12 24	- 6	—	—
Aidu	36.1	19	7 1	+ 2	—	—	—	—
Niigata	36.2	17	7 15	+15	—	—	—	—
Hokusima	36.4	18	6 55	- 6	12 28	-14	—	—
Yamagata	36.8	19	7 9	+ 4	—	—	—	—
Sendai	37.0	18	7 1	- 5	12 43	- 7	—	—
Perth	37.0	196	7 38	+32	13 28	+37	—	41.6
Yingkow	37.3	355	6 14	-55	11 51	-65	—	—
Chiufeng	37.7	347	i 7 4 a	- 8	i 12 46	-16	18.5	22.6
Mizusawa	37.9	19	e 7 15	+ 1	i 12 56	- 9	17.4	—
Akita	38.1	18	7 19	+ 3	13 5	- 3	—	—
Morioka	38.4	19	7 22	+ 4	13 5	- 7	—	—
Miyako	38.6	20	7 29	+ 9	13 17	+ 2	—	—
Aomori	39.3	18	7 29	+ 3	13 19	- 7	—	—
Adelaide	40.2	165	i 7 45	+11	i 13 47	+ 8	i 19.0	26.9
Hakodate	40.2	16	7 40	+ 6	—	—	—	—
Muroran	40.8	16	7 34	- 5	13 40	- 8	—	—
Urakawa	41.1	19	7 46	+ 5	13 52	- 1	—	—
Sapporo	41.6	17	7 40	- 5	13 54	- 6	—	—
Calcutta	E. 41.6	301	7 48	+ 3	14 17	+17	20.6	—
Obihiro	42.0	19	7 58	+ 9	—	—	—	—
Kusiro	42.4	20	7 17	-35	—	—	—	—
Asahigawa	42.5	17	7 55	+ 2	14 6	- 7	—	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Haboro	42.9	17	7 29	-27	—	—	—	—
Nemuro	43.1	21	8 0	+2	14 16	-6	—	—
Riverview	44.0	150	e 8 8	+3	i 14 45	+9	e 22.9	27.8
Sydney	44.0	150	i 8 5	0	i 14 46	+10	24.6	29.2
Melbourne	44.7	158	e 8 8	-2	14 58	+12	21.1	28.9
Ootomari	45.3	16	8 15	0	—	—	—	—
Colombo	46.7	276	e 8 20	-6	15 13	-1	22.9	25.8?
Sikka	47.7	15	9 34	+60	—	—	—	—
Hyderabad	49.2	289	8 45	0	15 36	-14	20.5	27.1
Agra	52.0	302	8 57	-9	i 16 21	-7	25.0	28.2
Irkutsk	52.1	343	i 9 8	+1	16 20	-10	25.6	—
Dehra Dun	53.1	306	9 18	+3	16 58	+15	22.6	37.6
Bombay	54.7	291	e 9 24	-2	17 6	+1	25.6	29.0
Semipalatinsk	60.9	329	10 4	-7	18 23	+5	22.7	—
New Plymouth	61.0	139	10 3	-8	i 19 59	(0)	31.6	—
Andijan	61.2	314	e 10 4	-9	18 29	-3	32.5	—
Arapuni	61.5	138	10 26	+11	18 50	+14	31.6	36.6
Christchurch	62.6	145	i 10 28	+6	i 18 58	+8	30.0	35.4
Wellington	62.6	142	10 28	+6	18 53	+3	32.6	33.6
Apia	63.4	108	e 10 42	+14	i 19 13	+13	29.6	—
Tashkent	63.5	315	i 10 21	-8	18 54	-7	—	36.6
Tchimkent	63.7	316	10 29	-1	19 4	0	33.1	—
Samarkand	64.7	313	10 31	-6	19 11	-5	26.7	—
Sverdlovsk	74.0	329	i 11 27	-8	20 59	-9	38.8R	45.2
Honolulu	75.2	69	i 11 46	+5	i 21 20	-2	34.4	—
Baku	77.6	312	i 11 52	-3	i 21 58	+9	38.6	44.4
Grozny	80.9	314	12 13	0	i 22 15	-10	40.1	—
Tananarive	81.0	250	e 12 19k	+6	e 22 19	-7	35.6	47.6
Tiflis	81.5	312	i 12 10	-6	i 22 21	-11	e 37.6	70.6
Erevan	81.7	310	13 38	+81	23 54	+80	45.6	—
Piatigorsk	82.9	314	12 21	-2	i 22 36	-10	39.6	—
College	84.8	26	e 12 27	-5	i 22 53	[- 5]	e 35.0	—
Sotchi	85.3	314	12 33	-2	23 1	[0]	36.1	—
Moscow	86.5	326	12 34	-7	23 5	[- 5]	44.0	51.3
Theodosia	88.4	315	e 12 50	0	23 17	[- 6]	34.6	—
Ksara	88.6	303	i 12 46a	-5	23 24	[0]	—	—
Simferopol	88.7	315	12 53	+2	i 23 25	[+ 1]	42.6	—
Yalta	89.2	314	e 12 52	-2	i 23 23	[- 5]	43.6	—
Sebastopol	89.7	315	i 12 54	-2	i 23 27	[- 4]	43.6	—
Pulkovo	90.1	330	e 12 51	-7	23 18	[-15]	45.6R	51.1
Sitka	91.3	33	e 13 6	+3	i 23 38	[- 2]	i 42.6	—
Helwan	92.8	300	i 13 15	+5	i 23 43	[- 6]	—	62.4
Bucharest	95.0	315	e 13 26	+6	24 42	0	46.6	54.6
Lemberg	95.4	321	e 13 24	+2	e 24 8	[+ 5]	e 31.6	59.0
Königsberg	96.3	336	i 13 30	+4	i 24 9	[+ 1]	e 31.9	56.6
Upsala	96.3	331	i 13 28	+2	i 24 34	{+ 9}	e 43.6	59.8
Belgrade	98.8	316	i 13 38a	0	i 25 19	+ 3	e 51.5	64.8
Budapest	99.1	319	13 34	-5	i 24 17	[- 4]	32.6	59.6
Copenhagen	100.3	329	i 13 47	+2	25 47	+18	42.6	—
Victoria	100.3	39	e 13 51	+6	i 24 29	[+ 2]	i 46.6	—
Vienna	100.6	320	e 13 49	+3	24 24	[- 5]	e 48.6	63.1
Seattle	101.1	40	—	—	e 24 24	[- 7]	e 41.8	—
Prague	101.2	323	e 13 49a	0	i 24 28	[- 4]	e 42.6	57.6
Graz	101.5	319	e 13 40	-10	i 24 27	[- 6]	e 37.3	66.3
Zagreb	101.6	318	e 13 45a	-6	i 24 47	[+14]	e 51.0	60.5
Bergen	101.7	335	13 56	+5	24 33	[- 1]	46.1	59.0
Cheb	102.4	323	e 13 59	+4	e 24 33	[- 4]	e 48.6	63.5
Hamburg	102.4	327	e 13 51a	-4	24 34	[- 3]	e 49.2	52.6
Laibach	102.5	318	e 15 9	+74	e 24 45	[+ 7]	e 44.1	58.2
Jena	102.6	334	i 13 58	+3	i 25 38	-11	45.6	65.6

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hof	102.7	323	—	—	e 27 54	PS	e 45.6	63.6
Scoresby Sund	103.0	349	14 2k	+ 5	e 24 36	[- 4]	—	—
Ukiah	103.1	49	e 14 38	-20	26 18	+24	e 45.9	—
Triest	103.1	319	e 13 55a	- 3	i 24 35	[- 6]	i 49.9	54.0
Göttingen	103.3	305	i 13 58a	- 1	e 26 14	+19	e 44.6	55.2
Berkeley	104.1	50	e 13 57	- 5	i 24 42	[- 3]	—	—
Capodimonte	N. 104.3	314	e 14 8	+ 5	e 24 38	[- 8]	56.6	64.6
Padova	104.4	319	i 14 8	+ 4	24 49	[+ 2]	e 50.6	59.6
Stuttgart	104.9	323	e 14 0a	- 6	e 24 44	[- 5]	e 49.6	65.1
Karlsruhe	105.2	324	14 7	- 1	i 24 47	[- 4]	61.1	64.9
Florence	105.4	317	14 10	+ 1	26 43	+30	—	—
Chur	105.4	321	e 14 2k	- 7	e 24 45	[- 7]	—	—
De Bilt	105.7	327	i 14 13	+ 3	i 24 53	[0]	e 50.6	55.3
Zurich	105.8	322	e 14 13k	+ 3	e 24 49	[- 5]	—	—
Strasbourg	105.8	323	i 14 12a	+ 2	i 24 48	[- 6]	e 54.6	68.1
Basle	106.3	322	e 14 12	- 1	e 24 51	[- 5]	—	—
Uccle	106.8	327	e 14 15	0	i 24 58	[0]	51.6	66.2
Cape Town	E. 107.1	236	i 14 24	+ 7	25 5	[+ 5]	50.6	52.2
Tinemaha	N. 107.1	236	i 14 41	+24	i 26 30	+ 2	51.6	53.4
	107.4	50	e 14 17	- 1	i 25 3	[+ 2]	—	—
Lille	107.6	326	—	—	e 25 2	[0]	e 51.6	56.6
Durham	107.8	331	14 21	+ 1	25 1	[- 2]	—	61.1
Edinburgh	107.8	333	i 14 22	+ 2	i 25 1	[- 2]	48.6	66.4
Haiwee	107.9	50	e 18 11	[0]	e 25 1	[- 3]	—	—
Pasadena	108.4	52	i 14 34	+10	i 25 8	[+ 2]	44.2	—
Mount Wilson	108.5	52	e 14 28	+ 4	e 25 8	[+ 2]	—	—
Stonyhurst	108.7	331	i 14 30	+ 5	i 25 1	[- 6]	50.1	68.0
Paris	108.8	324	i 14 28	+ 3	e 25 4	[- 4]	42.6	57.6
Kew	109.0	328	i 14 27a	+ 1	i 25 7	[- 2]	48.6	61.9
Bozeman	109.1	39	e 17 58	[-17]	i 25 10	[+ 1]	e 44.9	—
Riverside	109.1	52	e 14 33*	+ 6	i 25 11	[+ 2]	—	—
Oxford	109.3	329	e 14 28	0	i 25 8	[- 2]	e 35.8	68.7
Bidston	109.3	331	i 14 30	+ 2	i 25 6	[- 4]	—	56.0
La Jolla	109.5	53	—	—	i 25 6	[- 5]	—	—
Puy de Dôme	110.0	321	e 14 35	+ 4	24 49	[-24]	—	—
Rathfarnham Castle	110.9	332	e 14 29	- 6	i 26 47	{+34}	47.6	63.1
Barcelona	112.5	318	19 27	PP	e 28 43	PS	e 38.3	60.8
Bagnères	113.0	320	e 19 20	PP	e 29 8	PS	e 53.1	61.1
Tortosa	N. 113.9	318	18 42	[+13]	29 12	PS	e 50.6	61.6
Algiers	113.9	313	e 14 39	-11	e 29 4	PS	i 51.6	70.6
Tucson	114.8	52	e 18 50	[+18]	25 36	[+ 3]	e 52.1	—
Ivigtut	115.1	357	14 53	- 3	25 50	[+16]	44.6	—
Almeria	117.8	315	i 18 47	[+ 7]	25 39	[- 4]	e 57.4	73.8
Granada	118.4	316	i 15 13	+ 2	—	—	—	—
Malaga	119.2	316	18 51	[+ 8]	25 35	[-13]	—	60.6
San Fernando	120.6	316	e 18 55	[+ 8]	i 25 52	[0]	58.1	65.6
Des Moines	121.8	35	—	—	e 25 48	[- 8]	e 51.6	—
Madison	123.1	30	e 20 38	PP	e 25 58	[- 2]	e 58.2	—
Chicago	125.0	32	e 19 8	[+11]	i 26 6	[+ 1]	51.2	—
Florissant	125.5	36	e 15 46	0	i 26 3	[- 4]	i 53.1	66.6
St. Louis	125.7	36	i 19 10	[+12]	i 26 6	[- 1]	i 57.9	—
Ann Arbor	126.5	28	e 21 2	PP	i 26 20	[+11]	e 54.7	78.1
Little Rock	126.9	41	e 19 0	[- 1]	e 26 12	[+ 2]	e 61.1	78.3
Ottawa	127.1	20	e 19 12	[+11]	e 26 6	[- 5]	e 52.6	—
Toronto	127.2	24	e 15 56?	+ 1	26 12	[+ 1]	60.4	—
Buffalo	128.1	24	i 19 11	[+ 8]	i 26 7	[- 7]	—	—
Vermont	128.7	18	i 19 3	[- 1]	e 26 16	[0]	55.9	—
Tacubaya	N. 129.4	61	18 52	[-14]	—	—	—	—
Ithaca	129.4	22	e 19 14	[+ 8]	i 26 38	[+20]	—	—
Pennsylvania	130.2	25	i 22 52	PKS	e 28 48	{+25}	e 70.6	83.6

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Oak Ridge	131.0	17	i 19 6	[- 3]	e 26 0	[-22]	e 56.6	—
Fordham	131.7	21	i 19 0	[-10]	—	—	—	—
Philadelphia	132.0	23	e 19 16	[+ 6]	e 28 21	{-13}	i 66.6	—
Georgetown	132.2	25	e 19 10	[- 1]	i 28 33	{- 3}	62.6	—
Charlottesville	132.3	28	e 19 22	[+11]	e 26 28	[+ 2]	e 54.4	—
Columbia	134.2	33	e 19 22	[+ 8]	i 28 44	{- 4}	e 54.6	—
Merida	136.8	54	19 10	[- 7]	—	—	—	74.6
Santiago	146.1	153	e 20 1	[+25]	—	—	—	—
La Plata	148.4	172	19 56	[+16]	—	—	66.4	—
Balboa Heights	151.0	64	19 43	[0]	—	—	—	—
Port au Prince	151.0	40	i 19 56	[+13]	—	—	—	—
San Juan	154.7	29	i 19 58	[+10]	i 30 36	{-13}	i 73.4	—
Huancayo	156.7	111	i 20 8	[+18]	e 30 43	{-17}	e 70.6	—
Rio de Janeiro	158.4	206	i 20 7	[+16]	—	—	i 44.0	—
La Paz	160.6	133	i 20 7a	[+13]	i 26 52	SKS	72.6	79.6

Additional readings:—

Amboina $iS_cS = +15m.40s.$
 Isigakizima $S_cS = +16m.15s.$
 Batavia $iPZ = +5m.1s., iPEN = +5m.4s.$
 Hong Kong ? = +4m.45s., +5m.12s. = PP + 0s. and +5m.49s.
 Zi-ka-wei $iN = +6m.7s.$ and $+6m.18s., PPN = +6m.33s., PPPN = +6m.43s.,$
 $iE = +10m.41s., iN = +10m.53s., iE = +11m.47s., iN = +12m.13s.,$
 $iE = +13m.19s.$ and $+13m.47s., iN = +13m.57s., +14m.13s., +16m.45s.,$
 and $+18m.9s.$
 Nanking $iP = +6m.3s.$
 Simidu $PP = +7m.13s.$
 Muroto $PP = +7m.8s.$
 Koti $S_cS = +16m.51s.$
 Sumoto $eN = +7m.39s., eE = +7m.43s., eZ = +12m.5s.$
 Kobe $iN = +7m.41s., iZ = +7m.47s., iE = +7m.50s., iNZ = +8m.54s., iE =$
 $+9m.2s.$
 Toyooka $ePE = +6m.38s., iZ = +7m.47s., iE = +7m.54s.$
 Nagoya $iP = +6m.35s.$
 Heizyo $e = +9m.48s.$
 Perth $SS = +15m.33s. = SSS + 1s.$
 Chiufeng $iPEZ = +7m.13s., iS_cSEN = +17m.30s. = S_cS + 2s.$
 Adelaide $i = +8m.0s., iPP = +8m.49s., iPPP = +9m.32s., i = +14m.3s.,$
 $+14m.49s., +16m.59s.,$ and $+18m.7s.$
 Riverview $ePEN = +8m.11s., iP = +8m.14s., iE = +17m.58s., iN = +18m.6s. =$
 $S_cS + 0s.$
 Sydney $SS = +18m.8s. = S_cS + 2s., SSS = +21m.2s.$
 Melbourne $iP = +8m.21s., PPP = +10m.21s., i = +14m.30s., SSS = +18m.18s. =$
 $S_cS + 8s.$
 Colombo $iP = +8m.31s.$
 Agra $iEN = +9m.8s., iPPEN = +11m.8s., PPPEN = +11m.56s., SSN =$
 $+19m.59s., SSEN = +21m.38s.$
 Bombay $iPEN = +9m.30s., PPEN = +11m.39s., PPPEN = +12m.34s., PSEN =$
 $+17m.39s., SSEN = +20m.41s., SSEN = +22m.38s.$
 Arapuni $PP = +13m.2s., SS = +23m.38s.?$
 Christchurch $P_cP = +11m.11s., PP = +12m.51s., P_cS = +15m.37s., S_cS =$
 $+20m.27s., SS = +23m.0s., P_cSS_cP = +26m.42s.$
 Wellington $PP = +12m.43s., P_cS? = +15m.21s., S_cS? = +19m.28s., SS =$
 $+23m.23s., SSS? = +25m.38s.?$ $L_a = +26m.38s.?$
 Apia $PP = +12m.56s., PPP = +14m.27s.; T_o = 2h.9m.39s.$
 Sverdlovsk $L_a = +33m.56s.$
 Honolulu $iPP = +14m.44s.$
 Tananarive $iE = eN = +12m.22s., eN = +15m.59s.$ and $+19m.1s., EN =$
 $+22m.40s., SSE = +27m.10s., N = +34m.11s.$
 Tiflis $i = +12m.19s., PS = +22m.58s.$
 College $e = +12m.37s., +12m.57s., +13m.27s.,$ and $+16m.9s., ePP = +17m.51s.,$
 $eSS = +27m.51s.$
 Moscow $PP = +15m.50s.$
 Ksara $iPP = +13m.1s., PP = +16m.11s., PS = +24m.18s., SS = +28m.16s.$
 Pulkovo $S = +23m.41s., PS = +24m.43s., SS = +30m.8s., L_a = +41m.38s.$
 Sitka $iP = +13m.11s., i = +13m.28s., iPP = +16m.52s., i = +19m.3s., iPS =$
 $+24m.51s., e = +26m.8s., eSSS = +33m.10s.$
 Helwan $pP = +13m.38s., PP = +16m.30s., sS = +24m.23s.$
 Bucharest $iE = +13m.32s., iN = +13m.42s.$ and $+16m.38s., PPE = +17m.16s.,$
 $PPPEN = +19m.40s., SKSEN = +23m.50s., SKKSE = +24m.38s., PPSSEN =$
 $+26m.2s.$ and $+26m.14s.$

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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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Königsberg iE = +13m.35s., eE = +15m.14s. and +16m.34s., ePPZ = +17m.24s.,
 iN = +18m.10s., ePPPN = +19m.37s., eZ = +20m.33s., eN = +20m.55s.,
 eZ = +22m.10s., iSKKSE = +24m.38s., iSN = +25m.7s., iN = +25m.37s.,
 iPPSE = +26m.42s.
 Upsala PP = +17m.25s., PPP = +19m.19s., iSKSE = +24m.1s., iSSE =
 +31m.33s.
 Belgrade i = +17m.39s. = PP + 5s., +19m.59s., and +26m.43s. = PS + 11s.
 Budapest i = +13m.46s.
 Copenhagen e = +14m.1s. and +17m.26s., PP = +17m.48s., PPP = +19m.59s.,
 +20m.21s., e = +21m.54s., eEN = +22m.32s., eE = +23m.2s., iSKS =
 +24m.27s., SKKS = +25m.8s., PS = +26m.38s., PPS = +27m.32s., SS =
 +31m.56s.
 Vienna PP = +17m.58s., PPP = +20m.33s., PS = +26m.57s., PPS = +27m.48s.,
 SSS = +37m.9s.
 Seattle iSKS = +24m.38s., e = +27m.47s.
 Prague ePP = +18m.0s., ePS = +26m.56s.
 Graz iPP = +18m.2s., iPS = +25m.8s. = SKKS + 4s., iSS = +29m.50s., iSSS =
 +34m.42s.
 Zagreb ePEN = +13m.48s., ePcP = +13m.55s., ePP = +16m.52s., iPPP =
 +18m.7s., ePPPP = +19m.54s., eEZ = +21m.56s., eSKSNW = +24m.14s.,
 iSKKS = +24m.32s., ePS = +26m.9s., ePPS = +27m.19s., i = +27m.55s.,
 eNWZ = +33m.6s., e = +36m.57s., eZ = +37m.59s., e = +40m.3s., eNW =
 +42m.27s., eZ = +43m.38s.?
 Bergen PP = +17m.56s., SKSE = +24m.28s., SKKSN = +25m.3s., SKKSE =
 +25m.8s., SN = +25m.27s., SE = +25m.38s.?, eN = +42m.26s.
 Cheb e = +15m.58s., ePPP = +18m.12s., ePSP = +28m.5s.
 Hamburg iZ = +13m.59s., eZ = +17m.13s., iPPZ = +18m.11s., iPPE =
 +18m.14s., iSKSN = +24m.38s., eSSE = +33m.50s., eSSSN = +37m.8s.,
 iN = +37m.54s.
 Laibach e = +17m.15s., +22m.36s., and +33m.11s.
 Jena eE = +17m.46s., eNZ = +18m.2s. = PP + 0s., iE = +18m.14s., eN =
 +20m.22s., eE = +20m.26s., iSE = +24m.37s. = SKS - 1s., eE =
 +27m.38s. = PS + 25s., i = +28m.8s., eN = +32m.38s. = SS + 0s., eE =
 +33m.10s., iN = +37m.8s., iEZ = +37m.38s.
 Hof eNE = +33m.38s., +37m.58s.
 Scoresby Sund PKP = +17m.38s., iPP = +18m.18s., PPP = +20m.20s.
 Ukiah SKS = +24m.43s., SKKS = +25m.44s., PS = +27m.37s., SS = +32m.45s.
 Trieste iP = +14m.1s., i = +17m.6s., iPP = +18m.14s., i = +24m.26s.,
 +24m.47s. and +26m.24s., iPS = +27m.27s., i = +27m.57s., iPPS =
 +28m.25s., i = +28m.36s., i = +33m.10s., iSS = +33m.27s., iSL =
 +34m.17s., i = +36m.24s. = SSS - 11s., iSSS = +37m.25s., iN = +43m.3s.
 Göttingen iPNZ = +14m.1s., iPcPE = +14m.12s., iPPEZ = +18m.14s., iSKS =
 +24m.37s. = SKS - 5s., eSKKSN = +25m.44s., ePSE = +27m.44s.,
 ePPSN = +28m.44s., eSS = +32m.38s.?
 Berkeley eE = +14m.16s., ePPZ = +16m.44s., iPKPZ = +17m.14s., eSKSZ =
 +24m.46s., ePSE = +27m.31s.
 Padova eP = +14m.11s., i = +18m.26s. = PP + 10s. and +18m.32s.
 Stuttgart iP = +14m.9s., e = +16m.38s., iPP = +18m.29s., e = +25m.48s., eS =
 +26m.34s., ePS = +27m.28s., ePPS = +28m.38s., eSS = +33m.8s.
 Chur e = +14m.11s., ePP = +18m.32s.
 De Bilt ePP = +18m.33s., i = +27m.48s. = PS + 6s.
 Zurich ePP = +18m.29s., e = +26m.39s.
 Strasbourg iPP = +18m.42s., iPPP = +21m.5s., iSKKS = +25m.28s., iS =
 +26m.0s., iPS = +28m.24s., SS = +33m.48s., SSS = +38m.48s.
 Uccle iNZ = +14m.20s., iPPE = +18m.40s. and iPPN = +18m.47s., iPPPZ =
 +21m.3s., iSN = +26m.20s., iPSE = +28m.7s., iN = +29m.9s., iPPSE =
 +30m.37s., iE = +33m.3s., SSN = +33m.37s., iN = +34m.32s., SSSE =
 +37m.50s., SSSN = +38m.4s.
 Cape Town iN = +16m.34s., iE = +17m.2s., e = +17m.44s., iPPE = +18m.48s.,
 iPPN = +18m.54s., ePPPN = +20m.44s., eN = +23m.11s., eE = +23m.47s.,
 eN = +24m.44s., iPSE = +27m.52s., iPPSN = +28m.39s., iPPSE = +28m.47s.,
 iN = +33m.39s., SSE = +34m.41s., eSSSN = +37m.58s., eSSSE = +38m.16s.
 Tinemaha iZ = +18m.50s. = PP + 12s., iPKPZ = +29m.53s., iPKPPKZ =
 +37m.44s.
 Durham PP = +18m.48s., SS = +34m.12s.
 Edinburgh i = +18m.53s., i = +25m.34s. = SKKS + 17s., +26m.1s., +26m.22s.,
 +26m.33s., +27m.5s., +28m.32s., +28m.44s., +34m.33s., +35m.13s.,
 and +38m.44s.
 Haiwee ePKPPKZ = +37m.41s. = SSS - 6s.
 Pasadena iPKPNZ = +18m.38s. = PP - 7s., iPPZ = +18m.56s., iSN = +26m.29s.,
 iPSN = +28m.14s., iPPSN = +29m.19s., iPKPZ = +30m.0s., iSSN =
 +34m.35s., iPKPPEKZ = +37m.43s.
 Mount Wilson iPKPZ = +18m.37s.
 Stonyhurst iPP = +18m.57s., PS = +28m.16s., SS = +34m.1s.
 Paris S = +26m.34s., iPS = +28m.17s.

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Kew iPP = +18m.59s., iSKKSEN = +25m.56s., iSN = +26m.39s., iSPEZ = +28m.12s., iPSN = +28m.19s., iPPSEN = +29m.27s., iSSN = +34m.17s., iEN = +34m.33s., iE = +35m.20s., iN = +35m.41s., iPPPE = +36m.55s., iSSSEN = +38m.17s., iSSSN = +41m.25s., iE = +43m.57s., iN = +44m.35s.

Bozeman ePP = +19m.2s., e = +19m.26s. and +24m.3s., SKKS = +26m.2s., ePS = +28m.29s., ePPS = +30m.26s., eSS = +34m.56s., e = +38m.29s.

Oxford i = +19m.0s. = PP + 8s., +29m.9s. and +34m.29s. = SS + 20s.

Bidston iPP = +19m.2s., iSKKS = +25m.59s., iS = +26m.44s., iPPS = +29m.20s., iSS = +34m.16s., i = +34m.36s., and +35m.37s., iSSS = +37m.4s., iSSSS = +41m.29s.

Puy de Dôme iPP = +19m.9s.

Rathfarnham Castle i = +19m.15s. = PP + 11s. and +25m.1s., iPS = +28m.21s., i = +34m.50s. = SS + 39s. and +39m.33s.

Algiers ? = +16m.56s., iPP = +19m.37s.

Tucson ePP = +19m.30s., SKKS = +26m.48s., ePS = +29m.18s., eSS = +35m.38s., eSSS = +39m.26s.

Ivigtut PKP = +18m.21s., e = +19m.31s. = PP - 3s., PP = +19m.39s., eZ = +23m.14s., SKKSN = +26m.38s., SN = +27m.26s., PS = +29m.13s., eN = +30m.26s., eE = +30m.56s. and +35m.2s., SS = +35m.32s., SSS = +39m.26s.

Almeria PP = +19m.1s., PS = +29m.55s., SS = +36m.29s.

Granada PP = +20m.6s.

Malaga pPKP? = +19m.49s., PP = +20m.7s., PPP = +22m.41s., i = +24m.6s., S = +28m.11s., i = +29m.17s., PS = +29m.49s., SS = +36m.35s.

San Fernando iPP = +20m.26s., SE = +28m.33s., SS = +36m.45s. and +37m.6s.

Des Moines eSKKS = +27m.0s., e = +32m.28s., eSSS = +39m.38s., e = +47m.58s.

Madison ePPP = +23m.28s., eSKKS = +27m.30s., eS = +28m.35s., ePS = +30m.28s., ePPS = +32m.3s., eSS = +36m.55s., e = +40m.3s.

Chicago ePP = +20m.58s., iSKKS = +27m.46s., eSKSP = +30m.20s., ePS = +30m.51s., e = +35m.58s., iSS = +36m.34s., iSSS = +42m.32s.

Florissant epPZ = +16m.4s., ePKPZ = +18m.57s., epPKPE = +19m.4s., ipPKPNZ = +19m.8s., iPPZ = +20m.52s., iPPEN = +20m.55s., ipPP = +21m.5s., iSKP = +22m.9s., iPPPZ = +24m.6s., iSKSZ = +26m.34s., iSKSE = +26m.36s., iSKKSEN = +27m.50s., iSEN = +28m.55s., iPSN = +30m.55s., iPPSEN = +32m.21s., iEN = +34m.20s., iSSN = +38m.1s., iSSSEN = +42m.46s.

St. Louis iPPEN = +20m.54s., iSKPN = +22m.9s., esSKSEN = +26m.34s., iSKKSEN = +27m.49s., iPSN = +30m.53s., ePPSN = +32m.31s., eSSN = +37m.57s., iEN = +40m.49s.

Ann Arbor iS = +28m.2s., iPS = +31m.26s., eSS = +38m.8s., eSSS = +43m.14s.

Little Rock ipPKPEN = +19m.14s., ePPEN = +21m.8s., iSKPEN = +22m.28s., eSKKSEN = +28m.0s., ePSE = +31m.1s., iPPSN = +32m.31s., ePPSEN = +33m.38s., eSSN = +38m.52s.

Ottawa e = +21m.28s., eE = +38m.0s. = SS - 3s.

Toronto ePKP = +19m.13s., PP = +21m.7s., S = +29m.22s., PS = +31m.15s., SS = +38m.7s.; T₀ = 2h.9m.25s.

Buffalo iPP = +21m.0s., iPPP = +23m.55s., i = +24m.7s., iPPS = 32m.50s., iSS = +37m.50s.

Vermont ePP = +21m.3s., iPKS = +22m.15s., eSKKS = +27m.45s., ePS = +31m.10s., SS = +37m.47s.

Ithaca ePPN = +21m.32s., eEN = +21m.50s., iSKPEN = +22m.36s., iSKKSEN = +28m.8s.

Pennsylvania e = +41m.51s.

Oak Ridge eE = +19m.19s., iZ = +20m.49s., PP = +21m.31s., eN = +21m.49s., iSKPZ = +22m.38s., iSKPE = +22m.42s., iN = +24m.36s., eE = +26m.24s., iSKKS = +28m.24s., eE = +29m.40s., iSKSP = +31m.26s. = SKSP + 6s., iSKSPN = +31m.43s. = PS + 3s., eN = +34m.31s. and +39m.2s. = SS + 10s., eSPS = +41m.20s.

Fordham iPP = +21m.46s., i = +21m.56s., eSKP = +22m.34s.

Philadelphia iPKP = +19m.20s., ePP = +21m.33s., iPKS = +22m.43s., eSS = +38m.42s.

Georgetown iPKP = +19m.16s., iPP = +21m.33s., i = +22m.2s., iSKP = +22m.42s., iPSKS = +31m.35s., iPPS = +33m.42s., iSS = +39m.9s.

Charlottesville ePP = +21m.38s., iPKS = +22m.38s., iSKKS = +28m.28s., ePS = +32m.8s., iSS = +39m.12s.

Columbia ePP = +21m.50s., iPKS = +22m.50s., eSKSP = +31m.43s., e = +33m.35s., eSS = +38m.57s., e = +40m.9s.

Santiago SS = +42m.23s.

Port au Prince SKP = +23m.11s., PP = +23m.24s., PPP = +26m.46s.

San Juan iPKP₂ = +20m.5s., i = +24m.10s., +24m.50s., +33m.24s., and +34m.25s., iSS = +43m.0s., i = +48m.50s., +49m.30s., +61m.33s., +66m.0s., and +69m.30s.

Huancayo PKS = +24m.43s., e = +50m.38s.

La Paz iPKP₂E = +20m.13s., ipPKP = +21m.23s., iSPKPZ = +22m.23s., SKP = +23m.43s., iSKKSE = +30m.22s., iSKKSN = +31m.20s., iSKSP = +34m.0s., iSKSPZ = +34m.54s., iPSN = +35m.38s., iPPSN = +38m.6s., iE = +39m.46s., SSE = +44m.48s.

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April 1d. 5h. 26m. 10s. Epicentre 3°·6N. 126°·7E. (as at 2h.).

X.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	7.4	168	1 54	+ 9	—	—	—	—
Manila	12.3	334	2 58	+ 6	5 26	+16	—	—
Batavia	22.1	244	5 3	+11	9 35	SS	—	—
Nanking	29.4	347	e 5 54	- 6	—	—	—	—
Irkutsk	52.1	343	e 11 59	?	e 15 50?	-40	—	—
Frunse	60.5	318	e 10 9	+ 1	—	—	—	—
Andijan	61.2	314	e 10 7	- 6	—	—	—	—
Samarkand	64.7	313	e 10 28	- 9	—	—	—	—
Sverdlovsk	74.0	329	i 11 29	- 6	—	—	—	—
Tiflis	81.5	312	e 11 13	-63	e 21 25	-67	e 38.3	—
Moscow	86.5	326	i 12 35	- 6	—	—	e 44.3	53.4
La Paz	N. 160.6	133	e 19 20	[-34]	—	—	—	—

Long waves recorded at Kew.

April 1d. 19h. 56m. 16s. Epicentre 3°·2S. 150°·9E.

N.2.

(as determined for 1936 April 2d. 6h.).

$$A = -.8724, B = +.4856, C = -.0558; \delta = 0;$$

$$D = +.486, E = +.874; G = +.049, H = -.027, K = -.998.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	22.7	269	4 50	- 8	9 10	+11	—	—
Riverview	30.6	180	—	—	e 10 56	-18	e 15.7	19.0
Sydney	30.6	180	—	—	e 12 29	SS	16.1	17.8
Melbourne	35.1	189	—	—	e 14 21	SS	16.2	20.2
Hukuoka B	41.6	334	e 7 46	+ 1	e 14 8	+ 8	—	—
Husan	43.5	334	e 8 0	- 1	14 34	+ 6	—	—
Wellington	43.7	154	—	—	e 17 44?	SS	—	—
Hong Kong	44.0	307	14 47	S	(14 47)	+11	—	—
Christchurch	44.7	158	e 14 41	S	(e 14 41)	- 5	—	—
Nanking	46.6	322	e 8 28	+ 3	i 15 20	+ 7	—	—
Vladivostok	49.4	342	i 8 51	+ 4	e 15 56	+ 4	—	—
Chiufeng	53.7	328	e 9 16	- 3	16 57	+ 5	—	—
Colombo	71.6	278	e 19 45	S	(e 19 45)	-55	—	—
Andijan	83.5	312	e 12 28	+ 2	—	—	—	—
Tashkent	85.8	312	—	—	e 23 5	[0]	—	—
Sverdlovsk	92.8	327	e 13 10	0	e 23 40	[- 9]	—	—
Ksara	112.4	305	e 14 46	+ 4	e 24 32	[-52]	—	—
Granada	138.7	329	e 21 29	?	—	—	—	—

Additional readings:—

Hong Kong PP = +15m.12s.

Christchurch PP = +17m.56s. = S_cS - 14s., PPP = +19m.49s., PPPP = +22m.4s.

Chiufeng eSN = +17m.1s. = PS + 7s.

Tashkent i = +23m.15s. = SKS + 10s., e = +24m.5s. = PS + 4s.

April 1d. 20h. 10m. 58s. Epicentre 3°·6N. 126°·7E. (as at 2h.).

R.1.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	7.4	168	1 51	+ 6	13 3	- 6	—	—
Palau	8.6	61	2 4	+ 2	3 33	- 6	—	—
Manila	12.3	334	i 2 57 _a	+ 5	5 43	S*	6.7	7.7
Kosyun	19.3	344	4 20	- 2	8 2	SS	—	—
Tainan	20.4	344	4 35	+ 1	—	—	—	—
Arisan	20.7	345	4 26	-11	—	—	—	—
Isigakizima	20.9	355	4 30	- 9	8 24	0	—	—
Karenko	21.0	346	4 36	- 4	—	—	—	—
Taityu	21.4	346	4 47	+ 3	—	—	—	—
Malabar	21.9	243	4 9	-41	8 25	-19	—	—

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.
Taihoku	22.0	347	4 48	- 3	e 8 48	+ 2	—	14.7
Batavia	22.1	244	i 4 55	+ 3	8 56	+ 8	—	—
Hong Kong	22.3	329	(4 51)	- 3	4 51	P	8.0	14.8
Naha	22.6	2	4 59	+ 2	9 5	+ 8	—	—
Phu-Lien	26.0	313	e 5 28	- 1	e 9 56	- 2	12.0	18.1
Titizima	27.8	31	5 37	- 8	10 37	+ 9	—	—
Medan	27.9	272	5 57	+11	i 10 44	+14	—	—
Zi-ka-wei	28.0	351	e 5 46	- 1	10 13	-19	—	17.5
Kagosima	28.2	7	5 54	+ 5	—	—	—	—
Miyazaki	28.7	8	5 45	- 8	10 16	-27	—	—
Tomie	29.1	4	5 38	-19	—	—	—	—
Unzendake	29.3	6	5 41	-18	—	—	—	—
Nagasaki	29.3	5	5 56	- 3	—	—	—	—
Nanking	29.4	347	i 5 58	- 2	10 46	- 9	14.9	17.0
Simidu	29.8	12	5 58	- 5	11 5	+ 4	—	—
Ooita	30.0	8	5 56	- 9	—	—	—	—
Hukuoka	30.2	7	e 6 5	- 2	e 10 57	-10	—	—
Hukuoka B	30.2	7	e 6 3	- 4	e 11 3	- 4	18.4	21.4
Siomisaki	31.0	15	6 11	- 3	—	—	—	—
Hirosima	31.2	10	6 12	- 4	—	—	—	—
Wakayama	31.6	14	6 14	- 5	11 32	+ 3	—	—
Husan	31.6	6	e 6 56	+37	e 11 22	- 7	e 13.7	—
Sumoto	31.6	13	i 6 19 ^a	0	e 11 39	+10	e 15.9	18.1
	31.6	13	i 6 16 ^a	- 3	e 11 33	+ 4	—	20.9
Hamada	31.7	9	6 15	- 5	11 13	-18	—	—
Kobe	32.0	15	e 6 34	+11	e 11 56	+21	e 13.3	18.4
	32.0	15	e 6 21	- 2	11 33	- 2	e 15.4	20.7
Osaka	32.1	14	6 19	- 5	—	—	—	—
Taikyu	32.3	4	6 23	- 2	11 39	- 1	16.3	—
Tu	32.4	15	6 23	- 3	—	—	—	—
Kyoto	32.5	14	6 36	+ 9	—	—	—	—
Kameyama	32.5	15	6 24	- 3	—	—	—	—
Omaesaki	32.8	18	6 27	- 3	—	—	—	—
Hamamatu	32.8	17	6 24	- 6	—	—	—	—
Hikone	32.9	16	6 28	- 3	—	—	—	—
Nagoya	32.9	17	e 6 29	- 2	e 8 2	?	—	—
Ibukisan	33.0	16	6 31	- 1	—	—	—	—
Gihu	33.1	17	6 40	+ 7	11 57	+ 5	—	—
Ito	33.4	18	7 45	PP	—	—	—	—
Numadu	33.4	18	6 23	-12	—	—	—	—
Misima	33.5	18	6 31	- 5	—	—	—	—
Mera	33.6	20	7 5	+28	—	—	—	—
Hunatu	33.8	19	6 17	-22	—	—	—	—
Kohu	33.9	19	6 35	- 4	—	—	—	—
Zinsen	33.9	0	e 6 40	+ 1	e 11 11	-53	e 14.3	—
Yokohama	34.0	19	7 17	+37	—	—	—	—
Keizyo	34.0	1	e 6 37	- 3	e 11 47	-19	e 15.7	—
Tokyo	34.3	19	6 57	+14	12 24	+13	—	—
Oiwake	34.5	18	6 46	+ 1	—	—	—	—
Kumagaya	34.6	18	6 43	- 3	—	—	—	—
Tyosi	34.7	21	6 59	+13	—	—	—	—
Maebasi	34.7	18	6 48	+ 2	—	—	—	—
Nagano	34.7	17	6 43	- 3	11 56	-21	—	—
Kakioka	34.9	19	6 42	- 6	—	—	—	—
Tukubasan	34.9	19	6 41	- 7	—	—	—	—
Wazima	35.1	15	6 45	- 5	12 31	+ 8	—	—
Niigata	36.2	17	7 13	+13	—	—	—	—
Hokusima	36.4	18	6 56	- 5	12 51	+ 9	—	—
Sendai	37.0	18	7 3	- 3	13 0	+ 9	—	—
Perth	37.0	196	e 8 32	PP	e 10 42	?	—	17.3

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Chiufeng	37.7	347	i 7 10 ^a	- 2	i 12 53	- 9	18.4	23.1
Mizusawa	37.9	19	e 7 11	- 3	e 13 10	+ 5	17.4	—
Akita	38.1	18	7 11	- 5	—	—	—	—
Vladivostok	39.8	7	7 25	- 5	e 13 31	- 2	16.2	29.2
Hakodate	40.2	16	7 41	+ 7	—	—	—	—
Adelaide	40.2	165	i 7 38	+ 4	i 13 41	+ 2	18.6	29.1
Sapporo	41.6	17	7 47	+ 2	14 7	+ 7	—	—
Calcutta	E. 41.6	301	7 51	+ 6	14 3	+ 3	19.6	30.9
Obihiro	42.0	19	7 53	+ 4	—	—	—	—
Riverview	44.0	150	i 8 7 ^k	+ 2	i 14 37	+ 1	e 26.1	30.2
Sydney	44.0	150	—	—	e 13 32	- 64	28.0	29.0
Melbourne	44.7	158	8 12	+ 2	14 58	+ 12	20.8	28.4
Colombo	46.7	276	i 8 28	+ 2	15 9	- 5	25.1	30.6
Hyderabad	49.2	289	8 52	+ 7	15 54	+ 4	24.9	32.9
Kodaikanal	E. 49.3	281	e 8 47	+ 1	i 15 42	- 9	28.7	33.5
Agra	E. 52.0	302	9 4	- 2	i 16 17	- 11	24.5	36.5
Irkutsk	52.1	343	9 7	0	i 16 25	- 5	25.0	31.4
Dehra Dun	53.1	306	8 52	- 23	15 22	- 81	25.2	34.0
Bombay	N. 54.7	291	i 9 34	+ 8	i 17 10	+ 5	—	37.3
Almata	59.1	320	e 10 2	+ 4	—	—	—	—
Frunse	60.5	318	10 3	- 5	e 18 17	- 6	31.3	—
Semipalatinsk	60.9	329	10 21	+ 10	18 32	+ 4	—	—
Andijan	61.2	314	e 10 11	- 2	18 26	- 6	—	31.9
Arapuni	61.5	138	—	—	e 19 2?	PS	—	—
Christchurch	62.6	145	(10 22)	0	10 22	P	27.6	34.2
Wellington	62.6	142	—	—	i 18 47	- 3	23.0	—
Tashkent	63.5	315	e 12 50	PP	i 18 52	- 9	e 25.3	40.5
Tchimkent	63.7	316	10 29	- 1	18 58	- 6	20.9	—
Samarkand	64.7	313	10 34	- 3	19 7	- 9	—	—
Sverdlovsk	74.0	329	i 11 32	- 3	i 21 0	- 8	34.0	44.7
Honolulu	75.2	69	e 11 42	+ 1	e 21 14	- 8	e 34.8	—
Baku	77.6	312	12 0	+ 5	21 56	+ 7	39.6	47.4
Grozny	80.9	314	e 12 11	- 2	e 22 15	- 10	33.5	—
Tiflis	81.5	312	12 16	0	i 22 22	- 10	40.0	55.2
Erevan	81.7	310	e 13 34	+ 77	23 50	+ 76	—	—
Piatigorsk	82.9	314	e 12 31	+ 8	22 35	- 11	41.0	—
Moscow	86.5	326	12 40	- 1	23 15	[+ 5]	45.5	53.4
Theodosia	88.4	315	e 12 48	- 2	23 14	[- 9]	—	—
Ksara	88.6	303	i 12 51 ^a	0	23 24	[0]	—	—
Simferopol	88.7	315	e 12 53	+ 2	23 24	[0]	46.0	—
Yalta	89.2	314	12 52	- 2	23 21	[- 7]	49.0	—
Sebastopol	89.7	315	e 12 54	- 2	23 26	[- 5]	—	—
Pulkovo	90.1	330	12 55	- 3	23 45	- 12	46.0 ^R	52.4
Sitka	91.3	33	e 13 2	- 1	e 23 38	[- 2]	e 42.0	—
Helwan	92.8	300	13 8	- 2	23 40	[- 9]	—	—
Bucharest	95.0	315	13 38	+ 18	23 57	[- 4]	—	53.0
Königsberg	96.3	336	—	—	e 23 54	[- 14]	e 53.1	57.1
Upsala	96.3	331	—	—	e 23 57	[- 11]	e 46.0	54.4
Belgrade	98.8	316	e 13 34 ^a	- 4	i 24 12	[- 8]	e 63.6	—
Budapest	99.1	319	13 36	- 3	24 15	[- 6]	e 53.0	62.0
Victoria	100.3	39	i 24 20	S	(i 24 20)	[- 7]	e 41.6	—
Copenhagen	100.3	329	13 43	- 2	i 24 23	[- 4]	49.0	—
Vienna	100.6	320	e 13 46	0	e 24 25	[- 4]	e 56.0	68.0
Prague	101.2	323	—	—	e 24 23	[- 9]	42.0	62.5
Graz	101.5	319	e 13 50	0	i 24 27	[- 6]	50.0	62.7
Zagreb	101.6	318	e 13 50	- 1	e 24 28	[- 5]	e 49.0	53.2
Bergen	101.7	335	—	—	e 26 45	PS	47.2	57.5
Cheb	102.4	323	e 13 2?	- 53	e 24 37	[0]	e 52.0	64.0
Hamburg	102.4	327	e 14 2	+ 7	i 24 34	[- 3]	e 59.0	63.0
Jena	102.6	334	e 13 56	+ 1	e 24 2	[- 36]	e 48.6	56.5

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Scoresby Sund	103.0	349	18 32	PP	24 42	[+ 2]	49.0	—
Triest	103.1	319	e 15 56	+118	i 24 35	[- 6]	—	55.9
Ukiah	103.1	49	—	—	e 24 38	[- 3]	—	—
Göttingen	103.3	305	e 21 38	?	i 24 36	[- 6]	e 50.0	61.0
Padova	104.4	319	19 2	?	—	—	—	—
Stuttgart	104.9	323	e 14 5	- 1	e 25 58	-12	e 49.0	65.0
Florence	105.4	317	e 14 2?	- 7	24 44	[- 8]	—	—
Chur	105.4	317	e 14 5	- 4	e 24 43	[- 9]	—	—
De Bilt	105.7	327	e 14 10	0	e 24 49	[- 4]	50.0	61.9
Zurich	105.8	322	e 14 2	- 8	e 24 43	[- 11]	—	—
Strasbourg	105.8	323	e 19 2	PP	i 24 50	[- 4]	e 39.0	—
Basle	106.3	322	e 14 12	- 1	—	—	—	—
Uccle	106.8	327	19 2?	PP	24 55	[- 3]	48.0	66.7
Cape Town	107.1	236	e 19 33	PP	i 25 0	[0]	54.0	67.8
Tinemaha	z. 107.4	50	e 14 16	- 2	—	—	—	—
Durham	107.8	331	—	—	25 37	{-14}	—	65.0
Edinburgh	107.8	333	—	—	e 25 10	[+ 7]	51.0	61.1
Pasadena	z. 108.4	52	e 18 28	[+15]	i 28 7	PS	i 47.9	—
Mount Wilson	z. 108.5	52	i 18 27	[+14]	—	—	—	—
Stonyhurst	108.7	331	—	—	(e 25 7)	[0]	54.0	61.8
Paris	108.8	324	e 14 23	- 2	e 25 0	[- 8]	48.0	64.0
Kew	109.0	328	e 19 4	PP	e 25 3	[- 6]	e 44.0	68.0
Riverside	z. 109.1	52	e 18 50	PP	—	—	—	—
Oxford	109.3	329	e 19 43	PP	e 25 4	[- 6]	e 48.4	71.0
Bidston	109.3	331	—	—	e 25 4	[- 6]	e 44.0	—
Puy de Dôme	110.0	321	e 19 15	PP	—	—	—	—
Tortosa	N. 113.9	318	—	—	e 28 2?	?	e 49.0	71.9
Algiers	113.9	313	e 20 2?	?	32 32	?	50.0	—
Tucson	114.8	52	e 19 12	PP	e 29 18	PS	e 46.7	—
Ivigtut	115.1	357	19 32	PP	29 14	PS	43.0	—
Almeria	117.8	315	e 19 44	PP	—	—	e 63.3	—
Granada	118.4	316	e 18 44	[+ 2]	—	—	—	—
Malaga	119.2	316	18 50	[+ 7]	27 0	{-11}	57.0	—
San Fernando	120.6	316	19 15	[+28]	25 40	[-12]	65.0	75.5
Chicago	125.0	32	—	—	e 30 32	PS	e 50.8	—
Florissant	125.5	36	e 18 59	[+ 1]	i 26 5	[- 2]	e 45.9	65.3
St. Louis	125.7	36	e 19 9	[+11]	e 27 49	{- 5}	e 46.3	—
Little Rock	126.9	41	e 19 4	[+ 3]	—	—	—	—
Ottawa	127.1	20	e 22 2?	?	e 36 2?	?	e 54.0	—
Toronto	127.2	24	e 22 18	?	e 27 41	{-23}	53.0	—
Philadelphia	132.0	23	e 21 18	PP	e 28 20	{-14}	53.4	—
Columbia	134.2	33	e 22 45	PP	e 27 27	[+56]	e 66.0	—
La Plata	148.4	172	19 50	[+10]	—	—	82.3	—
San Juan	154.7	29	e 19 52	[+ 4]	—	—	e 69.0	—
Huancayo	156.7	111	e 19 52	[+ 2]	—	—	e 44.7	—
Rio de Janeiro	158.4	206	e 20 2	[+10]	—	—	e 44.0	—
La Paz	160.6	133	i 20 2a	[+ 8]	31 22	{ 0}	77.0	108.5

Additional readings and note:—

Amboina $i_{ScS} = +15m.29s.$
 Hong Kong $? = +5m.36s., SS = +6m.0s.$
 Nanking $i_{EN} = +12m.30s., SS = +12m.59s.$
 Misima $i = +7m.53s. = PPP + 1s.$
 Chiufeng $i_{SEZ} = +12m.56s., ScS = +17m.23s. = ScS - 5s.$
 Mizusawa $e_{SN} = +12m.53s.$
 Adelaide $i = +9m.3s. = PP + 2s., +9m.22s. = PPP + 0s., +15m.10s., and +16m.52s.$
 Riverview $i_{SE} = +14m.42s., iE = +17m.52s.$
 Melbourne $i = +18m.15s. = ScS + 5s.$
 Kodaikanal $i_{PSE} = +16m.22s., i_{SSE} = +18m.40s. = ScS + 0s.$
 Agra $PPE = +11m.2s., PPPE = +11m.47s., iN = +16m.23s. = PS - 7s., PSE = +16m.52s., SSE = +19m.44s., SSSE = +21m.10s.$
 Christchurch $SSS = +19m.17s., SSSS = +23m.47s.$
 Tashkent $e = +17m.33s. and +19m.45s.$

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Honolulu e = +12m.7s. and +20m.7s.
 Tiflis P_cP = +12m.37s., PP = +15m.20s., SSS = +32m.0s.
 Moscow SKS = +23m.2s.
 Ksara PP = +16m.16s., PS = +24m.20s.
 Pulkovo SKS = +23m.23s., SS = +29m.56s., L_q = +43m.2s.
 Bucharest SKKS = +24m.39s. = S - 3s.
 Königsberg iE = +14m.4s., iN = +24m.48s. = S - 6s., +29m.46s., and +30m.57s.,
 eE = +32m.57s., eN = +33m.5s., and +34m.54s. = SSS + 4s.
 Copenhagen PP = +18m.8s., eE = +25m.18s. = S - 11s., PS = +26m.40s.
 Vienna eEN = +18m.19s.
 Zagreb ePP = +17m.45s., ePPPZ = +18m.38s.
 Scoresby Sund e = +25m.44s. = S - 9s. and +28m.3s.
 Trieste e = +17m.39s., PP = +18m.10s., e = +18m.49s., iSKKS? = +25m.38s. =
 S - 16s., i = +27m.18s. = PS + 0s. and +27m.29s., e = +32m.46s. = SS + 2s.,
 SS = +33m.19s., e = +50m.32s.?
 Göttingen iEN = +25m.39s.
 Stuttgart ePP = +18m.32s., eSKS = +24m.42s., e = +44m.2s.?
 Chur ePP = +18m.22s.
 De Bilt e = +18m.56s.
 Strasbourg eSKKS = +26m.8s.
 Uccle SKKS = +25m.44s., PS = +27m.50s., e = +34m.37s.
 Cape Town eE = +19m.42s., iN = +26m.23s. and +27m.55s. = PS - 5s., eE =
 +28m.57s., iN = +31m.30s., eN = +33m.52s. = SS + 11s., eE = +33m.57s.
 Tinemaha eZ = +18m.3s. = PKP - 7s. and +29m.43s.
 Edinburgh i = +26m.18s., +28m.26s. = PS + 20s. and +35m.14s.
 Pasadena eZ = +34m.32s., iZ = +38m.18s.
 Stonyhurst ePS = +28m.16s.; note, the SKS is given as PP.
 Paris ePS = +28m.2s.
 Kew iPS = +28m.11s., eSSE = +35m.6s.
 Oxford e = +25m.59s. = SKKS - 4s.
 Bidston iPS = +28m.13s.
 Algiers i? = +26m.2s.?
 Tucson e = +30m.54s., eSS = +35m.26s., eSSS = +39m.38s.
 Almeria ePP = +23m.32s.
 Granada PPP = +22m.12s.
 Malaga e = +20m.6s. = PP + 3s., +21m.59s. and +22m.36s. = PPP + 7s., PS =
 +29m.48s., e = +33m.10s.
 San Fernando PP = +21m.93s., PS = +30m.15s., SS = +37m.40s., SSS =
 +41m.25s.
 Chicago eSS = +37m.40s.
 Florissant iPPNZ = +20m.47s., iSKPZ = +21m.56s., iSKKSN = +27m.37s.,
 iPSNZ = +30m.59s., iSSN = +35m.18s., iSSE = +37m.26s.
 St. Louis ePPE = +20m.55s.
 Little Rock ePPE = +21m.2s.
 Philadelphia iPP = +22m.34s., eSKKS = +29m.44s., e = +31m.44s., +34m.29s.,
 +39m.2s., and +43m.15s.
 Columbia ePKS = +23m.41s., e = +36m.16s., eSS = +38m.49s.
 San Juan e = +22m.26s., ePKS = +24m.12s., e = +39m.15s.
 Huancayo e = +21m.59s. and +25m.2s.
 La Paz iPKP₁ = +20m.21s., iPKPE = +21m.26s., iZ = +22m.6s., iPKP =
 +22m.26s., SKPE = +23m.26s., iPPZ = +24m.26s., iSKS? = +26m.26s.,
 PPPZ = +26m.58s., SKSP = +34m.39s., PSE = +35m.38s., PPS =
 +38m.6s., iSSE = +45m.2s.
 Long waves at Karlsruhe, Madison, and Oak Ridge.

April 1d. Readings also at 0h. (Phu-Lien), 1h. (Amboina and near Wellington)
 2h. (Tiflis, Nanking, and near Phu-Lien), 3h. (Amboina, Andijan, and Samar-
 kand), 4h. (Amboina, Samarkand, and Batavia), 6h. (Zagreb and near
 Trieste), 7h. (near Samarkand), 8h. (near Mizusawa), 9h. (Manila), 11h.
 (Manila), 12h. (Sverdlovsk, Tashkent, Nagoya, and near Sumoto), 13h.
 (Tacubaya), 18h. (Sumoto), 20h. (La Paz), 21h. (Amboina, Mount Wilson,
 Pasadena, Riverside, and Tinemaha), 23h. (near Sumoto).

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April 2d., 6h. 16m. 58s. Epicentre 3°·2S. 150°·9E. (as on 1d.).

R.1.

$$A = -.8724, B = +.4856, C = -.0558; \quad \delta = 0;$$

$$D = +.486, E = +.874; \quad G = +.049, H = -.027, K = -.998.$$

	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
	°	°	m.	s.	s.	m.	s.	s.	m.	m.
Palau	19.5	303	4	23	- 1	8	8	+12	—	—
Riverview	30.6	180	e 6	8	- 2	i 11	14	0	e 16.2	19.5
Sydney	30.6	180	e 7	5	PP	e 12	42	SS	15.5	18.5
Adelaide	33.7	199	e 6	30	- 8	i 12	0	- 1	15.5	20.0
Manila	34.6	301	i 6	56 _a	+10	11	34	-41	14.5	17.0
Melbourne	35.1	189	e 7	9	+19	12	20	- 3	15.9	20.5
Apia	38.3	109	—	—	—	e 13	17	+ 6	—	23.0
Siomisaki	39.3	340	7	17	- 9	—	—	—	—	—
Mera	39.5	340	7	53	+25	—	—	—	—	—
Miyazaki	39.7	333	7	35	+ 6	13	31	- 1	—	—
Misima	39.9	345	7	37	+ 6	—	—	—	—	—
Hamamatu	39.9	343	7	42	+11	—	—	—	—	—
Tokyo	40.3	47	8	7	+32	—	—	—	—	—
Wakayama	40.3	340	6	57	-38	—	—	—	—	—
Kameyama	40.4	342	7	30	- 5	—	—	—	—	—
Osaka	40.5	341	7	40	+ 4	—	—	—	—	—
Sumoto	E. 40.5	340	e 7	31	- 5	13	21	-23	—	17.4
	N. 40.5	340	e 7	34	- 2	13	4	-40	—	18.0
Kohu	40.5	345	7	40	+ 4	—	—	—	—	—
Kakioka	40.7	346	7	34	- 4	—	—	—	—	—
Tukubasan	40.7	346	7	41	+ 3	—	—	—	—	—
Kobe	40.7	341	7	40	+ 2	—	—	—	—	20.4
Mito	40.8	346	8	2	+23	—	—	—	—	—
Kumagaya	40.8	345	7	37	- 2	—	—	—	—	—
Maebasi	41.1	345	7	42	+ 1	—	—	—	—	—
Oiwake	41.2	345	7	40	- 2	—	—	—	—	—
Arapuni	41.6	151	—	—	—	13	2?	-58	—	23.0
Nagano	41.6	344	7	44	- 1	14	12	+12	—	—
Hukuoka	41.6	334	e 7	37	- 8	e 13	38	-22	—	—
Hukuoka B	41.6	334	e 7	28	-17	e 13	47	-13	e 19.5	—
Hamada	42.0	337	7	43	- 6	14	7	+ 1	—	—
Malabar	43.3	263	e 8	0	+ 1	—	—	—	—	—
Mizusawa	E. 43.3	350	8	4	+ 5	14	26	+ 1	—	—
	N. 43.3	350	8	9	+10	14	23	- 2	—	—
Husan	43.5	334	e 8	1	0	14	27	- 1	—	—
Perth	43.7	225	8	2	0	14	32	+ 1	28.0	—
Wellington	43.7	154	8	2	0	14	24	- 7	21.0	23.0
Batavia	Z. 44.0	265	8	3 _a	- 2	—	—	—	—	—
Hong Kong	44.0	307	8	8	+ 3	14	40	+ 4	20.8	22.4
Taiyu	44.3	334	e 8	8	+ 1	i 14	43	+ 3	—	—
Christchurch	44.7	158	i 8	10	0	e 14	44	- 2	i 21.7	24.8
Hakodate	45.9	350	8	30	+10	—	—	—	—	—
Keizyo	46.4	334	e 8	20	- 4	e 14	43	-27	—	—
Zinsen	46.5	333	e 8	30	+ 5	i 15	15	+ 3	—	—
Nanking	46.6	322	i 8	25	0	i 15	16	+ 3	e 21.2	25.0
Sapporo	47.1	351	8	30	+ 1	—	—	—	—	—
Phu-Lien	49.6	302	e 8	52	+ 4	e 15	55	0	21.0	—
Medan	52.6	278	e 9	17	+ 6	16	40	+ 3	—	—
Chiufeng	53.7	328	e 9	14	- 5	i 16	50	- 2	25.5	33.3
Honolulu	55.8	62	i 9	42	+ 8	i 17	26	+ 6	e 23.5	—
Calcutta	E. 66.1	297	10	49	+ 3	19	40	+ 6	31.5	—
Irkutsk	67.9	332	e 10	58	0	19	55	- 1	33.0	—
Colombo	71.6	278	e 10	56	-24	13	56	PP	21.5	21.6
Hyderabad	74.3	289	11	39	+ 3	21	21	+ 9	36.8	45.4
Kodaikanal	E. 74.3	282	i 11	37	+ 1	—	—	—	—	—

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Agra	E.	76.3	299	11 45	- 3	21 32	- 3	—	—
Bombay	N.	79.8	290	e 12 10	+ 3	i 21 47	-27	—	—
Semipalatinsk		80.3	323	12 15	+ 6	—	—	—	—
Almata		80.6	315	e 12 5	- 6	—	—	—	—
College		81.2	22	e 15 22	?	e 23 16	+48	33.5	—
Frunse		82.2	314	e 12 24	+ 5	—	—	—	—
Andijan		83.5	312	e 12 24	- 2	e 22 52	0	—	—
Sitka		84.0	32	e 12 32	+ 4	e 22 28	-30	e 34.0	—
Tchimkent		85.7	313	e 12 37	0	—	—	—	—
Tashkent		85.8	312	i 12 39	+ 2	i 23 11	- 5	35.3	50.6
Samarkand		87.4	310	12 39	- 6	23 7	[- 9]	—	—
Ukiah		88.9	51	—	—	e 23 26	[0]	—	—
Victoria		89.6	42	e 23 43	S	(e 23 43)	- 9	e 37.1	37.2
Seattle		90.2	43	—	—	(e 24 2)	+ 4	e 24.0	—
Tinemaha	z.	92.6	54	i 13 7	- 2	—	—	—	—
Pasadena		92.6	56	i 13 8	- 1	i 23 51	{- 5}	e 38.0	—
Mount Wilson	z.	92.7	56	i 13 5	- 5	—	—	—	—
Sverdlovsk		92.8	327	i 13 14	+ 4	i 24 21	- 1	45.3R	56.1
Riverside		93.2	56	i 13 9	- 3	e 23 53	[+ 2]	—	—
La Jolla	z.	93.3	58	e 13 12	- 1	—	—	—	—
Tucson		98.7	58	e 13 42	+ 4	e 24 50	{+13}	e 43.7	—
Baku		100.4	310	e 13 51	+ 6	25 30	0	49.0	60.6
Tiflis		104.1	312	e 14 2	0	24 42	[- 3]	47.5	68.3
Moscow		105.6	327	18 30	PP	e 26 6	S	e 48.5	61.2
Pulkovo		107.7	333	18 39	PP	25 36	{-14}	52.0	61.9
Ksara		112.4	305	e 14 14	-28	—	—	—	—
Scoresby Sund		112.6	358	—	—	29 2	PS	55.0	—
Florissant		114.1	49	e 19 40	PP	i 26 43	{+ 7}	i 48.6	65.4
St. Louis		114.3	49	e 19 11	PP	—	—	e 48.1	53.9
Chicago		115.2	45	—	—	e 29 12	PS	51.0	—
Copenhagen		117.9	335	20 0	PP	29 44	PS	55.0	—
Hamburg		120.3	334	e 20 18	PP	—	—	e 59.0	74.0
Prague		120.5	329	—	—	e 31 2?	?	e 58.0	71.0
Ottawa		121.4	37	—	—	e 28 2?	?	e 49.0	—
Cheb		121.5	330	e 21 2?	?	e 31 2?	?	e 59.0	69.0
Edinburgh		123.3	343	—	—	e 29 2?	?	e 58.0	73.0
De Bilt		123.4	335	e 20 42	PP	e 37 44	SS	e 55.0	62.7
Triest		123.5	335	e 18 59	[+ 5]	i 27 40	{ 0}	e 50.5	65.1
Stuttgart		124.0	330	e 20 26	PP	e 37 32	SS	e 60.0	73.0
Philadelphia		124.5	42	—	—	e 32 11	?	e 51.4	—
Uccle		124.7	335	e 20 52	PP	i 37 19	SS	e 60.0	—
Strasbourg		124.8	331	e 20 50	PP	(e 38 2?)	SS	38.0	—
Florence		126.0	324	18 13	[-46]	25 32	[-36]	—	—
Kew		126.1	338	e 23 2?	PPP	—	—	e 65.0	72.1
Paris		127.0	334	e 20 36	PP	e 27 2?	[+51]	62.0	70.0
Huancayo		131.6	109	i 22 47	PKS	e 26 12	[-12]	e 56.5	—
Tortosa		133.9	328	e 21 2?	PP	—	—	e 64.0	77.3
La Paz		136.7	119	e 19 26 _a	[+ 9]	26 25	SKS	66.0	76.6
Almeria		138.4	327	e 22 52	PKS	—	—	70.9	—
Granada		138.7	329	e 19 26	[+ 6]	—	—	—	—
San Fernando		140.6	329	e 20 6	[+44]	26 43	SKS	71.0	—
San Juan		140.7	65	e 22 39	PS	—	—	e 75.0	—
Rio de Janeiro		150.5	153	e 21 2	?	(e 41 2)	SS	e 41.0	—

Additional readings:—

Riverview iN = +7m.7s. = PP + 5s., iE = +12m.51s. = SSS - 4s. and +13m.52s.
 Sydney PPP = +11m.32s.
 Adelaide i = +7m.20s., +8m.32s., +13m.12s., and +18m.13s.
 Melbourne i = +11m.54s. and +14m.30s. = SS + 2s.
 Apia e(SS?) = +15m.11s., SS = +16m.14s., S_cS = +17m.57s., sS_cS? = +19m.45s.
 Husan PP = +9m.44s.
 Perth P_cS = +13m.32s., SS = +17m.22s., SSS = +17m.42s., SSSS = +18m.42s.,
 ? = +20m.2s.
 Wellington PP? = +10m.7s., SS = +17m.52s.

Continued on next page.

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Hong Kong PP = +9m.51s., PPP = +10m.28s., SS = +17m.13s., SSS = +17m.58s. = ScS - 8s.
 Christchurch i = +10m.23s. = PPP + 1s., iS = +14m.50s., iN = +18m.21s., iEZ = +18m.41s., i = +20m.19s.
 Nanking iE = +18m.44s.
 Chiufeng iP = +9m.22s.k, iEZ = +17m.11s., SSE = +20m.39s.
 Calcutta PPE = +13m.19s.
 Colombo iP = +11m.19s.
 Agra PPE? = +14m.19s.
 Tashkent eSS = +29m.50s., eSSS = +32m.50s.
 College e = +18m.30s., eSS = +28m.14s.
 Mount Wilson iZ = +16m.52s.
 Sverdlovsk iSKS = +23m.43s., iPS = +25m.27s., iSS = +30m.26s., Lq = +39.1m.
 Riverside iZ = +19m.13s.
 Tucson ePS = +26m.22s., eSS = +31m.32s., e = +40m.50s.
 Baku PPP = +20m.26s.
 Tiflis PP = +18m.22s., e = +19m.51s., PS = +27m.36s., PPS = +28m.48s., SS = +33m.12s., e = +42m.8s.
 Moscow PS = +27m.42s., SS = +33m.32s.
 Pulkovo PS = +27m.55s., PPS = +29m.10s., SS = +33m.56s.
 Ksara ePKP = +17m.54s., iPP = +18m.50s., PS = +29m.9s., PPS = +30m.18s.
 Scoresby Sund +35m.20s.
 Florissant iPPN = +19m.58s., iPPZ = +20m.1s., iPSE = +29m.18s., iSSE = +35m.21s.
 St. Louis iPPN = +19m.50s., ePSE = +29m.4s.
 Chicago eSS = +34m.38s.
 Copenhagen SS = +36m.44s.
 Ottawa e = +37m.2s.?
 Trieste e = +44m.7s.
 Stuttgart eSSS = +42m.12s.
 Philadelphia eSS = +37m.14s.
 Huancayo eSKSP = +30m.52s., eSS = +39m.24s.
 La Paz SKP = +22m.58s., PPPZ = +24m.42s., SKSE = +26m.32s., iNZ = +27m.27s., SSE = +40m.20s.
 Granada PP = +22m.18s.
 San Fernando ePP = +22m.34s., eSS = +40m.55s., SSS = +46m.29s.
 San Juan eSS = +41m.50s.
 Long waves at Cape Town, Madison, Oak Ridge, Columbia, Charlottesville, Bidston, Stonyhurst, Ivigtut, Upsala, Bergen, Göttingen, Jena, Zagreb, and Algiers.

April 2d. 12h. 3m. 27s. Epicentre 6°·1N. 124°·8E. (as on 1934 Jan. 16d.). X.

A = -·5675, B = +·8165, C = +·1063; $\delta = +3$;
 D = +·821, E = +·571; G = -·061, H = +·087, K = -·994.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Manila	9.3	336	2 40	+29	5 12	S _g	—	8.0
Amboina	10.3	161	e 1 45	-40	3 8	?	—	—
Hong Kong	19.2	329	4 40	+19	8 32	+42	—	14.0
Batavia	21.7	236	4 44	-4	8 35	-5	—	—
Nanking	26.6	349	—	—	e 10 29	+20	—	—
Chiufeng	34.9	349	e 6 51	+3	e 12 31	+11	i 17.1	21.8
Irkutsk	49.2	343	e 8 46	+1	e 15 33	-17	e 27.6	—
Frunse	57.4	318	e 9 51	+5	—	—	—	—
Tashkent	60.5	315	—	—	e 18 42	+19	e 25.8	38.0
Samarkand	61.6	312	e 10 15	-1	18 52	+15	—	—
Sverdlovsk	70.9	329	i 11 15	-1	20 35	+3	34.6	—
Tiflis	78.5	313	e 12 3	+3	e 21 59	0	e 37.6	—
Moscow	83.3	325	12 22	-3	—	—	—	—
Ksara	85.7	303	e 12 35	-2	e 23 20	+5	48.6	—
Pulkovo	87.0	330	12 39	-4	23 20	-7	51.6	—

Additional readings:—

Ksara PPS = +24m.47s., SS = +29m.25s.

Long waves were also recorded at Christchurch, Baku, Copenhagen, De Bilt, and Paris.

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April 2d. Readings also at 0h. (Manila), 1h. (Sverdlovsk and Tashkent), 3h. (near Branner and Lick), 6h. (Mount Wilson, Pasadena, Riverside, Tinemaha, and near Amboina), 7h. (Amboina and near Piatigorsk), 8h. (Rathfarnham Castle, Almata, Andijan, Frunse, Tifis, Tchimkent, and near Samarkand), 11h. (Amboina), 13h. (Tchimkent, Frunse, Samarkand, and near Andijan), 14h. (Drome), 16h. (Tacubaya), 18h. (Tifis), 19h. (Andijan, Frunse, and Samarkand), 20h. (Amboina, Erevan, Granada, Toledo, near Malaga, and near Sumoto), 21h. (Kobe, near Hukuoka B, and near Amboina), 23h. (Andijan and Frunse).

April 3d. 14h. 48m. 53s. Epicentre $35^{\circ}2'N$. $135^{\circ}7'E$. (as on 1936 Feb. 5d.). X.

$$A = -.5848, B = +.5707, C = +.5764; \quad \delta = -7;$$

$$D = +.698, E = +.716; \quad G = -.413, H = +.403, K = -.817.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Kobe	0.7	219	0 8	- 2	0 16	- 2	0.3
Toyooka	0.8	295	0 12	+ 1	0 24	+ 3	0.4
Nagoya	1.1	92	i 0 16k	0	0 30	+ 2	0.5
Sumoto	1.1	218	0 15k	- 1	0 29	+ 1	0.5

April 3d. Readings also at 0h. (Andijan, Samarkand, Hong Kong, near Batavia, and Malabar), 1h. (Baku, Sverdlovsk, Tifis (2), and Ksara), 2h. (Tifis), 11h. (Christchurch, Huancayo, La Paz, Tacubaya, Tucson, Columbia, Mount Wilson, Pasadena, Riverside, Tinemaha, Sitka, and Honolulu), 13h. (Hastings and near Wellington), 17h. (Frunse, Samarkand, near Andijan (2), near Berkeley, Branner, and Lick), 18h. (near Capodimonte and near Nagoya), 19h. (near Branner, Lick, and near Manila), 23h. (Berkeley, San Francisco, near Branner, and Lick).

April 4d. Readings at 7h. (Tacubaya and near Reykjavik), 8h. (Tacubaya and near Reykjavik (2)), 9h. (Mizusawa), 14h. (Frunse, Samarkand, and near Andijan), 16h. (near Tananarive), 22h. (Frunse and near Andijan).

April 5d. 14h. 27m. 32s. Epicentre $28^{\circ}0'N$. $139^{\circ}5'E$. (as on 1934 May 25d.). X.

$$A = -.6714, B = +.5734, C = +.4695; \quad \delta = 0;$$

$$D = +.649, E = +.760; \quad G = -.357, H = +.305, K = -.883.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Sumoto	7.4	329	1 47k	+ 2	2 59	-10	—	3.0
Nagoya	7.5	343	1 40	- 6	2 46	-25	—	2.9
Kobe	E. 7.6	332	e 1 49	+ 1	e 2 54	-20	—	3.5
	Z. 7.6	332	1 47	- 1	e 2 48	-26	—	3.4
Toyooka	E. 8.5	333	2 1	+ 1	3 19	-17	—	3.7
	N. 8.5	333	1 59	- 1	3 18	-18	—	3.5
Hukuoka B	9.6	308	e 2 35	+19	e 4 21	+18	—	—
Mizusawa	E. 11.2	6	e 2 42	+ 5	e 3 43	-60	—	—
Vladivostok	16.3	340	e 3 48	+ 3	(6 46)	+ 1	6.8	—
Nanking	18.4	288	e 4 30	+19	e 8 2	+29	—	—
Manila	21.8	237	5 44	+55	9 41	+59	—	—
Chiufeng	22.7	308	e 5 4	+ 6	e 9 0	+ 1	—	—
Sverdlovsk	60.9	322	i 10 12	+ 1	—	—	26.5	—
Tifis	75.0	310	e 11 45	+ 5	e 21 13	- 7	43.5	47.3
Tinemaha	Z. 82.1	52	i 12 19	0	—	—	—	—
Pasadena	Z. 83.8	55	i 12 27	0	—	—	—	—
Mount Wilson	Z. 83.9	55	i 12 28	0	—	—	—	—
Riverside	Z. 84.4	55	i 12 29	- 1	—	—	—	—

Additional readings:—

Chiufeng eE = +5m.25s. = PP + 6s.

Tinemaha iZ = +12m.42s.

Mount Wilson iZ = +12m.51s.

Long waves were also recorded at Tashkent.

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April 5d. Readings also at 0h. (Perth and near Nagoya), 1h. (Amboina), 3h. (Frunse, Samarkand, and near Andijan), 5h. (La Paz), 6h. (Alicante, Sverdlovsk, Nagoya, Mount Wilson, Pasadena, and Tinemaha), 8h. (near Tananarive), 9h. (Tashkent and Tiflis), 10h. (Sverdlovsk and Ksara), 12h. (near Tananarive), 13h. (Bombay, Tashkent, and Sverdlovsk), 14h. (Manila), 17h. (near Hukuoka B), 18h. (Frunse, Samarkand, Chur, Zurich, Florence, Padova, and near Triest), 19h. (Samarkand), 21h. (Sverdlovsk, Pulkovo, Manila, and near Malaga), 22h. (Tashkent).

April 6d. 0h. 1m. 6s. Epicentre $3^{\circ}6'N$. $126^{\circ}7'E$. (as on 1936 April 1d.) X.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Manila	12.3	334	2 48	- 4	i 5 20	+10	—	—
Batavia	z. 22.1	244	5 6	PP	—	—	—	—
Tashkent	63.5	315	—	—	e 25 12	SSS	e 34.2	37.0
Sverdlovsk	74.0	329	e 11 35	0	e 20 58	-10	35.4	—
Tiflis	81.5	312	15 50	PP	e 22 27	- 5	e 26.6	—

Tashkent gives also $e = +32m.6s$.

April 6d. 4h. 11m. 50s. Epicentre $31^{\circ}6'N$. $134^{\circ}4'E$. (as on 1931 Dec. 30d.) X.

$$A = -.5959, B = +.6085, C = +.5240; \quad \delta = -5;$$

$$D = +.714, E = +.700; \quad G = -.367, H = +.374, K = -.852.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Sumoto	2.8	8	0 35	- 5	1 6	- 6	1.2
Kobe	3.2	12	0 49	+ 3	1 18	- 4	1.4
Hukuoka	3.9	301	e 0 59	+ 3	1 20	P _r	—
Hukuoka B	3.9	301	e 0 51	- 5	i 1 32	- 8	—
Toyooka	4.0	5	0 57	0	1 36	- 6	1.7
Nagoya	4.2	30	e 1 5	+ 5	2 4	S*	—

Sumoto gives also $ePZ = +38s$.

April 6d. Readings also at 1h. (near Amboina (4)), 2h. (near Amboina), 3h. (Huan-cayo, La Paz, Balboa Heights, San Juan, Mount Wilson, and Tinemaha), 4h. (Tucson, Philadelphia, Rio de Janeiro, and near Samarkand), 5h. (Cheb, near Amboina, and near Tananarive), 7h. (near Amboina (2)), 9h. (Tiflis), 12h. (La Paz and Manila), 15h. (La Plata), 16h. (Medan), 18h. (near Mizusawa), 19h. (Erevan), 23h. (Samarkand, near Andijan, and Frunse).

April 7d. 1h. 37m. 47s. Epicentre $21^{\circ}3'S$. $178^{\circ}6'W$. (as on 1935 July 15d.) X.

$$A = -.9314, B = -.0228, C = -.3633; \quad \delta = +1;$$

$$D = -.024, E = +1.000; \quad G = +.363, H = +.009, K = -.932.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Apia	9.9	42	e 2 19	0	e 4 22	+11	—	—
Arapuni	17.5	195	—	—	e 7 13?	0	—	—
Wellington	20.8	194	4 38	0	8 28	+ 6	9.2	—
Riverview	29.5	238	e 7 31	?	—	—	e 13.4	15.0
Melbourne	35.5	234	e 6 3	-50	e 8 46	?	16.8	—
Batavia	z. 73.4	270	i 11 28	- 3	—	—	—	—
Vladivostok	78.8	325	—	—	e 22 23	+20	—	—
Santa Barbara	78.9	46	i 11 45	-17	—	—	—	—
La Jolla	79.7	48	e 11 54	-12	—	—	—	—
Pasadena	79.8	47	i 11 55 _a	-12	e 22 8	- 6	—	—
Mount Wilson	79.9	47	e 11 55	-12	—	—	—	—
Nanking	80.2	310	e 12 13	+ 4	e 22 27	+ 9	—	—
Riverside	80.3	47	i 11 58	-11	—	—	—	—
Haiwee	z. 81.1	45	i 12 0	-14	—	—	—	—
Tinemaha	81.4	45	i 12 4 _a	-11	e 22 14	-17	—	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Tucson	84.0	52	—	—	(e 22 33)	-25	e 22.6	—
Chiufeng	86.3	316	e 12 39	- 1	i 23 0	[- 8]	—	—
Huancayo	97.7	106	—	—	e 23 41	[-34]	—	—
Florissant	E. 101.8	53	e 17 46	PP	i 24 10	[-24]	e 47.5	—
La Paz	N. 102.1	113	e 17 33	PP	24 48	[+12]	—	—
Tashkent	120.2	306	e 20 26	PP	i 25 37	[-14]	e 53.8	65.8
Sverdlovsk	124.4	326	—	—	e 25 48	[-15]	48.7	—
Tiflis	138.3	309	e 19 18	[- 1]	—	—	—	—
Theodosia	143.5	318	i 19 27	[- 2]	—	—	—	—
Simferopol	144.2	319	i 19 28	[- 4]	—	—	—	—
Yalta	144.4	318	19 31	[- 1]	—	—	—	—
Sebastopol	144.7	319	19 31	[- 2]	—	—	—	—
Ksara	147.1	299	e 19 38	[+ 1]	e 37 33	?	—	—
De Bilt	149.0	355	e 19 39	[- 1]	—	—	e 77.2	—
Granada	163.6	14	e 20 21	[+24]	i 24 29	PP	—	—

Additional readings:—

Wellington i = +7m.22s., S_cS = +15m.43s., sS_cS = +16m.23s.

Pasadena eZ = +14m.50s. = PP +12s.

Tinemaha iZ = +12m.31s. and +14m.45s., eZ = +38m.44s.

Florissant iE = +24m.47s. and +25m.16s.

Tashkent e = +27m.53s. and +36m.31s.

Sverdlovsk e = +27m.35s. and +37m.50s.

Tiflis ePKS = +22m.48s.

Long waves were also recorded at Perth, Pulkovo, Copenhagen, Paris, Kew,

Stuttgart, and Uccle.

April 7d. Readings also at 0h. (Christchurch, Pasadena, and Tinemaha), 2h. (Malaga and near Granada), 3h. (Balboa Heights and Columbia), 5h. (Triest and near Capodimonte), 7h. (Irkutsk, Tashkent, Sverdlovsk, La Jolla, Mount Wilson, Pasadena, Riverside, and Tinemaha), 8h. (Strasbourg), 9h. (Christchurch, Samarkand, Pasadena, and Tinemaha), 10h. (Granada and Florissant), 11h. (La Paz, Haiwee, La Jolla, Pasadena, Riverside, and Tinemaha), 12h. (Nanking, Vladivostok, Irkutsk, Sverdlovsk, Tashkent, Pasadena, and Tinemaha), 13h. (Sverdlovsk, La Jolla, Mount Wilson, Pasadena, and Tinemaha), 14h. (Tashkent), 22h. (Lick and near Fresno (2)).

April 8d. 4h. 17m. 18s. Epicentre 41°·5N. 23°·0E. (as on 1933 Jan. 2d.). R.2.

Laibach suggests 41°·4N. 22°·7E.

A = +·6894, B = +·2926, C = +·6626; $\delta = -7$;
D = +·391, E = -·921; G = +·610, H = +·259. K = -·749.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Sofia	1.2	12	e 0 19	+ 2	0 41	+10	—	—
Bucharest	3.6	36	e 0 58	P*	2 0	S _g	—	2.6
Belgrade	3.8	332	e 1 3 _a	P*	i 2 4	S _g	—	2.4
Budapest	6.6	336	1 42?	+ 8	3 28	S _g	3.6	—
Zagreb	6.7	312	e 1 34	- 1	2 52	+ 1	4.3	5.1
Laibach	7.6	310	e 0 45	-63	i 3 11	- 3	—	—
Graz	7.7	319	i 1 47	- 2	i 3 36	+20	4.5	4.7
Triest	7.9	305	i 1 51 _k	+ 1	i 3 30	+ 9	—	4.6
Vienna	8.2	328	e 2 40	P _g	e 4 32	S _g	—	5.7
Sebastopol	8.3	64	e 1 53	- 5	e 3 11	-20	—	—
Yalta	8.7	66	e 2 4	+ 1	e 3 24	-17	—	—
Simferopol	8.8	63	e 2 9	+ 4	e 3 35	- 9	—	—
Florence	8.9	289	0 18	?	—	—	—	5.2
Padova	9.0	300	e 4 19	?	5 35	?	—	—
Theodosia	9.6	64	—	—	3 51	-12	—	—
Prague	10.4	328	e 4 30	S	e 5 36	S _g	e 5.8	6.7
Chur	11.0	304	e 2 36	+ 1	—	—	e 6.3	—
Cheb	11.3	323	e 2 42?	+ 3	e 5 24	S*	e 6.3	6.9
Zurich	11.8	305	e 2 45	- 1	e 5 17	+10	—	—
Stuttgart	12.1	312	e 2 42	- 8	e 6 12	S _g	e 6.7	7.2

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Basle	12.5	304	e 2 54	- 1	e 6 49	S _g	—	—
Neuchatel	12.7	302	e 2 58	0	e 7 23	S _g	—	—
Ksara	12.7	123	e 3 42?	+44	—	—	—	8.7
Karlsruhe	12.7	311	e 4 22	?	e 7 20	S _g	—	—
Strasbourg	12.9	309	i 3 15 _a	+14	7 33	S _g	—	—
Königsberg	13.4	354	—	—	e 7 31	S _g	—	—
Hamburg	14.9	329	e 3 24	- 3	—	—	e 8.4	9.7
Puy de Dôme	15.1	293	3 41	+11	—	—	—	—
Uccle	15.8	312	e 3 44	+ 5	—	—	8.2	—
Copenhagen	15.8	338	—	—	6 42	+ 8	7.7	—
Paris	16.1	304	e 3 44	+ 1	—	—	10.7	10.7
Tiflis	16.2	82	3 29	-15	e 6 23	-20	8.9	10.4
Moscow	17.1	29	4 2	+ 7	e 7 14	+10	—	10.9
Kew	18.8	310	e 4 17	+ 1	e 7 56	+14	e 9.7	10.9
Pulkovo	18.8	12	4 14	- 2	e 7 43	+ 1	9.9	11.6
Baku	20.2	84	—	—	e 8 25	SS	e 11.7	—
Stonyhurst	20.9	316	—	—	e 7 47	-37	11.9	12.1
Granada	21.0	267	e 4 38	- 2	—	—	10.4	—
Edinburgh	22.3	319	—	—	i 9 0	+ 8	12.7	13.2
Sverdlovsk	28.4	45	e 6 0	+ 9	e 10 34	- 4	17.7 _R	17.9
Tashkent	34.3	75	—	—	e 12 6	- 5	e 20.4	25.4
Irkutsk	53.6	49	—	—	e 20 42?	SS	e 28.7	—

Additional readings:—

Bucharest $iP_g EN = +1m.8s. = P_g + 2s.$ and $+1m.16s.$, $PP = +1m.20s.$, $iE = +1m.29s. = S - 3s.$, $PPS = +1m.35s.$

Belgrade $i = +1m.10s. = P_g + 2s.$, $iP_g = +1m.19s.$, $i = +1m.34s. = S - 3s.$ and $+1m.39s.$, $iPPS = +1m.50s. = S^* - 1s.$

Budapest $P_g = +2m.6s.$, $PS = +3m.17s. = S^* + 2s.$

Zagreb $P_g = +2m.4s.$, $iPP = +2m.8s. = P_g + 0s.$, $sPP = +2m.14s.$, $SPS = +3m.12s. = S^* - 5s.$, $iPPS = +3m.28s.$, $SS = +3m.50s.$, $eZ = +4m.9s.$

Laibach $i = +1m.53s.$, $+3m.22s.$, and $+4m.11s. = S_g + 6s.$

Triest $e = +2m.22s. = P^* + 10s.$, $i = +2m.36s. = P_g + 4s.$ and $+4m.6s.$, $S_g = +4m.20s.$, $SS_g = +4m.31s.$, $i = +4m.49s.$ and $+5m.2s.$

Yalta $e = +4m.41s. = S_g + 0s.$

Simferopol $e = +4m.47s.$

Theodosia $e = +4m.15s.$

Strasbourg $i = +8m.27s.$

Königsberg $iZ = +8m.8s.$ and $+8m.15s.$

Paris $e = +9m.22s.$

Sverdlovsk $L_q = +15m.6s.$

Tashkent $e = +15m.0s.$

Long waves at Bidston, De Bilt, Jena, San Fernando, Bergen, Upsala, Scoresby Sund, and Vladivostok.

April 8d. 15h. 47m. 57s. Epicentre $35^\circ.5N.$ $140^\circ.0E.$ (as on 1935 Aug. 11d.). R.3.

$A = -.6236$, $B = +.5233$, $C = +.5807$; $\delta = -7$;

$D = +.643$, $E = +.766$; $G = -.445$, $H = +.373$, $K = -.814$.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Tokyo	0.3	312	0 8	+ 4	0 16	+ 8	0.3
Komaba	0.3	300	0 8	+ 4	0 17	+ 9	—
Kamakura	0.4	243	0 8	+ 2	0 17	+ 7	—
Kiyosumi	0.4	157	0 7	+ 1	0 16	+ 6	—
Mitaka	0.4	294	0 8	+ 2	0 18	+ 8	—
Tukubasan	0.7	11	0 8	- 2	0 18	0	—
Susaki	1.2	225	0 16	- 1	0 33	+ 2	—
Nagoya	2.5	263	0 36	0	1 9	+ 5	—
Mizusawa	3.7	14	e 0 50	- 3	e 1 30	- 5	—
Toyooka	4.2	273	e 1 0	0	2 4	S*	2.5

Toyooka gives also $ePN = +1m.3s.$, $ePZ = +1m.9s. = P^* + 0s.$

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April 8d. Readings also at 0h. (Amboina and near Sumoto), 2h. (Drôme), 4h. (Christchurch), 5h. (Drôme, Samarkand, near Almata, Frunse, and near Mizusawa (2)), 6h. (near Andijan), 7h., 8h., and 9h. (near Amboina), 10h. (Medan (2)), 11h. (Drôme), 12h. and 13h. (Manila), 18h. (La Paz), 19h. (Baku, Tashkent, Sverdlovsk, Tifis, Andijan, Frunse, and Samarkand), 21h. (near Santiago), 23h. (Amboina).

April 9d. 0h. 53m. 5s. Epicentre 39°·0N. 73°·0E. (as on 1932 Aug. 16d.). R.3.

$$A = +.2272, B = +.7432, C = +.6293; \quad \delta = -2;$$

$$D = +.956, E = -.292; \quad G = +.184, H = +.602, K = -.777.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	1.8	345	i 0 23	- 3	i 0 45	- 1	—	0.8
Tashkent	3.7	310	i 0 58	P*	—	—	i 1.9	2.3
Frunse	4.1	16	e 0 56	- 2	i 1 32	-13	—	1.9
Tchimkent	4.2	322	e 1 5	+ 5	e 1 58	S*	—	—
Samarkand	4.7	279	e 1 8	+ 1	e 2 12	S*	—	2.7
Almata	5.2	33	e 1 19	+ 5	e 2 27	S*	—	2.5
Semipalatinsk	12.5	21	e 2 52	- 3	e 5 14	- 1	—	—
Sverdlovsk	19.6	340	i 4 21	- 4	8 3	+ 5	11.5	11.6
Bombay	20.1	181	e 2 55?	?	—	—	—	—
Grozny	20.9	291	e 4 58	PP	e 8 45	SS	—	—
Tifis	21.6	286	e 4 48	+ 2	e 9 5	SS	e 14.1	—
Erevan	21.9	282	e 5 35	PP	—	—	—	—
Irkutsk	25.3	48	e 5 23	0	e 9 49	+ 3	13.7	—
Moscow	28.8	217	—	—	e 12 21	SSS	e 17.4	—
Ksara	30.1	271	e 6 39	+33	e 12 37	SS	—	20.9
Pulkovo	33.8	322	i 6 38	- 1	e 9 25	P _c P	16.9	20.8

Additional readings:—

Andijan PP = +27s. = P* - 1s. and +32s. = P_g + 2s.
 Frunse e = +58s., i = +1m.11s. = P* + 6s., iP_g = +1m.2s., iS_g = +1m.42s.
 Tchimkent i = +1m.18s. = P_g + 0s., eSS = +2m.3s. = S* + 0s.
 Samarkand eP_g = +1m.21s. = P* + 4s., ePS = +2m.4s. = S + 4s.
 Sverdlovsk L_g = +9.9m.
 Tifis e = +8m.47s. = P_cP + 2s. and +10m.23s.
 Moscow e = +15m.27s.

Long waves were also recorded at Hyderabad, Chiufeng, Baku, Copenhagen, Cheb, Kew, Paris, De Bilt, and Granada.

April 9d. 7h. Epicentre in the South Pacific. The observations made within approximately 90° of the origin are not in good enough agreement to form the basis for determination of an exact position:—

Adelaide e = 10m.22s., i = 11m.46s., 23m.35s. and 27m.20s., M = 34m.48s.
 Apia eP = 13m.45s., eL = 16m.
 Christchurch eP? = 16m.6s., S = 21m.30s., L = 25m.34s., M = 28m.30s.
 Wellington P = 17m.32s., S? = 21m.15s., L = 22m.33s., M = 24m.
 Riverview eN = 23m.0s., eL = 28m.18s., M = 30m.7s.
 Pasadena ePZ = 23m.29s., eL = 49m.12s.
 Riverside eZ = 23m.34s.
 Tinemaha eZ = 23m.39s.
 Vladivostok eP = 23m.53s., e = 35m.9s., L = 83m.42s.
 Sydney e = 24m.18s., L = 29m.10s., M = 31m.20s.
 Chiufeng PEN = 24m.35s., eSKSEN = 35m.3s., SN = 35m.21s., SE = 35m.31s.
 Irkutsk e = 26m.33s., 29m.58s., 36m.7s., 38m.31s., and 44m.26s., eL = 66m., M = 68m.36s.
 Tifis e = 26m.35s., 30m.4s., and 31m.6s.
 Melbourne iS = 31m.25s., i = 33m.0s., and 35m.13s.
 Ksara iPKP = 31m.26s., iPP = 35m.11s., eSKKS = 41m.58s., eSKSP = 45m.34s., ePPS = +48m.27s., M = 99m.
 Granada ePKP = 32m.36s., L = 90m.
 Huancayo e = 34m.0s. and 56m.14s.
 Nanking eL = 34m.26s.
 La Paz SE = 35m.56s., L = 59m.54s., M = 70m.36s.
 Florissant eN = 36m.47s. and 57m.21s., eL = 62m.11s.
 Sverdlovsk e = 37m.50s., 39m.41s., and 41m.52s., L = 69m., M = 84m.48s.
 Tashkent e = 42m.0s., 47m.44s., and 49m.28s., eL = 79m.18s.
 Ukiah e = 43m.36s.
 Perth P = 44m.0s.

Long waves were also recorded at Arapuni, Tucson, Chicago, Philadelphia, Cape Town, Baku, Scoresby Sund, and other European stations.

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April 9d. 16h. 2m. 8s. Epicentre 11°·2S. 166°·0E.

N.2.

A = -·9518, B = +·2373, C = -·1942; $\delta = -5$;
D = +·242, E = +·970; G = +·188, H = -·047, K = -·981.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	26·4	209	e 5 28	- 5	i 10 5	0	e 16·1	16·7
Sydney	26·4	209	e 5 34	+ 1	i 10 12	+ 7	14·4	15·7
New Plymouth	28·8	169	6 52?	PP	—	—	—	—
Wellington	31·1	169	6 15	0	11 12	- 9	15·9	23·9
Melbourne	32·6	213	e 6 28	0	11 37	- 8	16·2	19·6
Christchurch	32·8	172	i 6 30 _a	0	i 11 46	- 2	—	—
Adelaide	34·4	222	e 6 45	+ 1	i 12 8	- 4	15·9	20·9
Honolulu	48·1	47	—	—	e 17 12	?	e 20·1	—
Perth	50·5	238	8 22	-33	i 16 12	+ 4	35·7	37·4
Manila	51·5	298	9 4 _a	+ 1	i 16 30	+ 8	26·9	31·9
Batavia	z. 58·6	269	i 9 54	- 1	—	—	—	—
Hong Kong	60·8	303	9 57	-13	18 33	+ 7	—	—
Nanking	62·5	315	10 20	- 2	i 18 46	- 2	—	—
Vladivostok	62·6	332	i 10 22	0	e 18 53	+ 3	—	—
Medan	68·6	279	e 10 9	-53	19 4	-60	—	—
Chiufeng	69·0	321	11 3 _a	- 2	20 9	0	—	38·5
Irkutsk	82·5	327	e 12 18	- 3	22 29	-13	37·9	43·3
Calcutta	E. 83·1	295	12 24	0	22 54	+ 6	—	40·6
College	83·5	18	e 14 23	?	—	—	e 41·0	—
Pasadena	z. 84·9	54	e 12 33	0	—	—	e 38·9	—
Mount Wilson	z. 85·0	54	e 12 35	+ 2	—	—	—	—
Riverside	z. 85·4	54	e 12 44	+ 9	—	—	—	—
Tinemaha	z. 85·7	51	e 12 41	+ 4	—	—	—	—
Colombo	87·6	277	12 47	+ 1	(23 20)	[+ 3]	23·3	24·1
Tucson	90·3	57	—	—	e 23 58	- 1	e 37·7	—
Kodaikanal	E. 90·6	280	e 13 3	+ 3	—	—	—	—
Hyderabad	91·0	287	—	—	(23 38)	[- 1]	—	23·6
Bombay	N. 96·6	288	e 13 52?	+24	—	—	—	—
Tashkent	102·4	311	e 18 16	PP	i 24 37	[0]	—	55·7
Sverdlovsk	107·7	327	—	—	i 24 58	[- 5]	47·9	60·2
Huancayo	114·8	109	e 23 52	?	e 29 12	PS	e 53·6	—
Baku	117·0	310	e 20 4	PP	e 29 3	PS	e 54·9	60·9
Scoresby Sund	120·5	4	—	—	25 47	[+ 5]	63·9	—
Tiflis	120·6	312	e 20 21	PP	—	—	81·9	85·5
Ksara	129·3	304	19 10	[+ 4]	—	—	—	—
San Juan	129·3	75	e 22 39	PPP	—	—	—	—
Helwan	134·0	300	e 21 37	PP	—	—	—	—
Cheb	135·5	336	e 22 54	PKS	—	—	—	—
De Bilt	136·2	343	e 19 20	[+ 4]	—	—	e 83·9	—
Zagreb	z. 137·0	329	e 19 22	[+ 4]	—	—	—	—
Uccle	137·6	344	e 22 10	PP	—	—	—	—
Stuttgart	137·8	337	e 19 10	[- 9]	—	—	e 82·9	—
Kew	138·2	347	—	—	i 23 1	PKS	e 75·9	—
Triest	138·2	331	e 19 43	[+24]	—	—	—	—
Strasbourg	138·3	338	e 21 52?	PP	—	—	e 57·9	—
Paris	140·0	343	e 19 49	[+28]	—	—	75·9	—
Florence	140·8	331	e 21 35	PP	—	—	—	—
Algiers	150·1	332	e 19 52?	[+10]	—	—	—	—
Granada	152·4	343	i 19 55	[+10]	—	—	—	—
Malaga	153·0	343	e 19 20	[-17]	—	—	—	—
San Fernando	153·8	346	e 20 17	[+30]	e 27 17	PPP	—	—
Dakar	175·2	44	19 46	?	—	—	i 90·6	—

Additional readings:—

Riverview eZ = +5m.32s., iSN = +10m.9s., iE = +14m.23s., iN = +14m.55s.

Wellington i = +7m.7s. = PP + 4s., +7m.35s., +11m.38s. and +13m.52s.?,
L_a = +15·7m.

Melbourne i = +7m.34s. = PP + 4s. and +14m.1s.

Continued on next page.

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Christchurch pP = +7m.4s., sS = +12m.54s., S_cSZ = +16m.18s.
 Adelaide i = +7m.4s., +15m.1s., +15m.25s., and +16m.29s., iS_cS = +17m.7s.
 Honolulu eSS = +19m.24s.
 Perth ? = +8m.37s., PP = +10m.22s. = P_cP + 4s., PPP = +11m.42s., ? = +18m.52s. = S_cS + 4s., SS = +20m.27s., SSS = +21m.27s.
 Nanking iN = +20m.15s. = S_cS + 5s.
 Medan iS = +19m.38s.
 Chiufeng pP = +11m.22s., iEN = +20m.30s. = PS + 5s., iS_cSE = +21m.1s., iS_cSN = +21m.9s.
 Irkutsk ePP = +15m.38s., eSS = +28m.16s.
 Calcutta SS = +28m.40s.
 College e = +17m.23s. = PPP + 6s. and +27m.19s., eSS = +32m.2s.
 Tucson e = +29m.40s. = SS - 4s.
 Tashkent iSKKS = +25m.3s., PS = +27m.25s.
 Sverdlovsk iPS = +28m.6s., SS = +34m.16s.
 Scoresby Sund +41m.52s.?
 Ksara pPKP = +19m.31s., PP = +21m.20s., pPP = +21m.41s., PPS = +34m.5s.
 De Bilt eZ = +22m.3s. = PP + 5s. and +22m.56s. = PKS - 2s.
 Zagreb e = +22m.2s. = PP - 1s. and +22m.58s. = PKS - 2s.
 Uccle i = +23m.5s. = PKS + 3s.
 Stuttgart ePP = +22m.13s., PKS = +23m.0s.
 Trieste i = +23m.1s. = PKS - 3s., i = +29m.11s. = SKKS - 2s.
 Strasbourg i = +23m.7s. = PKS + 3s.
 Paris iPP = +23m.9s. = PKS + 0s.
 Granada PP = +23m.40s.
 Malaga e = +20m.1s. = PKP₂ - 11s., +20m.25s., and +21m.54s.
 San Fernando ePKP₂ = +20m.29s., ePP = +24m.13s., eSS = +43m.28s.
 Dakar iP = +47m.2s. = SS - 4s., PP = +48m.13s., ePPP = +48m.38s., iPPPP = +50m.46s.
 Long waves were also recorded at Apia, Arapuni, Sitka, Florissant, Samarkand, Copenhagen, Pulkovo, Edinburgh, and Cape Town.

April 9d. Readings also at 1h. (Almata, Samarkand, near Andijan, and Frunse), 2h. (near Sumoto), 4h. (Huancayo, La Paz, and Tucson), 5h. (Nagoya and near Mizusawa), 6h. (near Taihoku), 12h. (Cape Town), 13h. (Ksara), 16h. (La Paz, Mount Wilson, Pasadena, Riverside, Tinemaha, Philadelphia, near Mizusawa, and Nagoya), 17h. (Ksara, Tifis, Basle, Trieste, Zurich, Zagreb, Toledo, Malaga, Granada, Algiers, and Dakar), 18h. (Amboina (2), Edinburgh, and near Andijan), 19h. (Vladivostok, near Mizusawa, and Nagoya), 20h. (Bombay, Pasadena, Riverside, Tinemaha, La Plata, Sverdlovsk, Tashkent, near Santiago (2), and near San Javier), 22h. (near Malaga), 23h. (near Tananarive).

April 10d. 15h. 29m. 54s. Epicentre 40°·0N. 17°·0E. N.3.

A = +·7326, B = +·2240, C = +·6428; δ = +7;
 D = +·292, E = -·956; G = +·615, H = +·188, K = -·766.

	Δ	Az.	P.	O-C.	S.	O-C.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	
Capodimonte	N.	2·3	292	e 0 36	+ 3	e 0 50	- 9	1·1
Zagreb		5·9	353	e 1 23	- 1	e 2 28	- 3	—
Triest		6·2	338	e 1 27	- 1	2 33	- 5	—
Vienna		8·3	357	e 3 36?	S	(e 3 36?)	+ 5	—
Zurich		9·6	323	e 3 16	?	—	—	—
Cheb		10·6	344	—	—	e 4 6?	-22	—

Additional readings:—

Zagreb eP_g = +1m.33s. = P* - 5s., eNEZ = +2m.47s. = S* - 7s.
 Trieste PP = +1m.55s. = P_g - 3s., S_g = +2m.50s.

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April 10d. 16h. 53m. 43s. Epicentre $6^{\circ} \cdot 5N$. $126^{\circ} \cdot 0E$. (as on 1933 Sept. 7d.). R.3.

$$A = -0.5840, B = +0.8038, C = +0.1132; \quad \delta = -4;$$

$$D = +0.809, E = +0.588; \quad G = -0.066, H = +0.092, K = -0.994.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Manila	9.5	330	2 17 _a	+ 3	4 33	S*	5.2	—
Amboina	10.4	168	2 29	+ 3	—	—	—	—
Hong Kong	19.5	326	4 20	- 4	7 51	- 5	9.4	12.0
Batavia	22.9	237	4 56	- 4	8 57	- 6	—	—
Phu-Lien	23.6	309	e 5 2	- 4	e 9 12	- 4	—	—
Zi-ka-wei	z. 25.0	351	e 5 23	+ 3	9 51	+10	—	17.2
Nanking	26.4	346	e 5 31	- 2	10 17	+12	13.7	—
Medan	27.3	266	5 35	- 6	i 11 1	SS	—	—
Chiufeng	34.8	347	e 6 46	- 1	12 14	- 4	e 17.5	22.6
Vladivostok	37.0	7	e 7 14	+ 8	e 13 0	+ 9	e 18.2	—
Perth	39.6	194	13 17?	S	(13 17?)	-13	—	—
Calcutta	39.7	299	e 9 1	PP	—	—	—	—
Irkutsk	49.1	344	e 9 21	+37	e 15 42	- 6	23.3	26.5
Frunse	58.0	317	e 9 59	+ 9	—	—	—	—
Tashkent	61.1	316	e 10 47	+35	18 20	-10	—	38.7
Samarkand	62.2	313	e 10 16	- 4	—	—	—	—
Sverdlovsk	71.2	330	i 11 10	- 8	i 20 21	-14	30.8	—
Baku	75.2	312	e 11 18	-23	e 21 20	- 2	36.3	45.8
Tiflis	79.1	313	e 11 47	-16	e 21 58	- 8	e 44.3	—
Moscow	83.7	326	e 12 23	- 4	—	—	—	—
Ksara	86.5	305	i 12 37	- 4	e 23 15	[+ 5]	—	—
Pulkovo	87.2	331	—	—	e 23 16	[+ 1]	49.3	—
Strasbourg	102.4	321	—	—	(e 31 17?)	SSS	e 31.3	—

Additional readings:—

Chiufeng SN = +12m.28s.

Irkutsk e = +10m.41s.

Tashkent e = +22m.53s.

Tiflis e = +13m.4s.

Ksara ePP = +15m.55s., ePS = +24m.9s., eSS = +29m.5s.

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

April 10d. 20h. 1m. 2s. Epicentre $41^{\circ} \cdot 7N$. $106^{\circ} \cdot 1E$. N.2.

$$A = -0.2071, B = +0.7174, C = +0.6652; \quad \delta = +4;$$

$$D = +0.961, E = +0.277; \quad G = -0.184, H = +0.639, K = -0.747.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Chiufeng	7.7	98	2 8 _k	P*	3 0	-16	—	4.4
Irkutsk	10.6	354	e 2 29	0	e 4 46	+18	i 5.4	5.7
Yingkow	12.2	89	3 20	?	—	—	—	—
Nanking	14.0	129	3 19	+ 4	7 11	?	7.8	9.1
Hsinking	14.2	74	—	—	6 42	+46	—	—
Heizyo	15.2	93	—	—	7 34	?	—	—
Zi-ka-wei	z. 16.2	126	—	—	e 6 40	- 3	—	10.4
Zinsen	16.3	98	e 3 43	- 2	e 8 26	?	—	—
Keizyo	16.6	97	e 3 51	+ 2	8 22	?	—	—
Vladivostok	19.0	77	e 4 14	- 5	e 7 49	+ 3	e 9.8	—
Husan	19.1	103	—	—	e 9 52	?	e 11.1	—
Semipalatinsk	19.8	305	4 37	PP	e 8 24	SS	—	—
Hong Kong	20.5	159	4 31	- 4	8 20	+ 4	—	13.2
Hukuoka B	20.8	105	e 4 36	- 2	e 8 5	-17	—	—
Phu-Lien	20.9	179	e 4 51	PP	e 11 12	L	(e 11.2)	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Almata	21.5	285	4 44	- 1	e 8 50	+14	—	12.0
Frunse	23.2	283	e 5 2	- 1	—	—	e 12.4	—
Calcutta	24.2	224	e 5 1	-11	9 41	+14	—	15.8
Andijan	25.2	279	e 5 18	- 4	—	—	e 13.6	—
Tashkent	27.3	282	i 5 42	+ 1	i 10 44	+24	i 14.7	17.6
Samarkand	29.4	280	e 6 3	+ 3	—	—	e 15.6	—
Manila	30.0	150	5 20	-45	12 30	SS	—	—
Sverdlovsk	32.5	314	i 6 25	- 2	e 12 51	+68	i 19.8	20.4
Medan	38.7	192	7 27	+ 6	—	—	—	—
Baku	41.6	288	—	—	e 15 0	+60	22.0	31.1
Grozny	43.5	293	e 8 3	+ 2	—	—	—	—
Tiflis	44.7	292	e 8 11	+ 1	e 18 29	(+19)	e 25.0	—
Moscow	45.3	312	e 8 12	- 3	e 14 17	-38	e 22.5	27.3
Erevan	45.5	290	i 8 38	+21	—	—	—	—
Pulkovo	48.2	319	i 8 36	- 2	—	—	23.0	29.2
Theodosia	49.9	299	e 9 26	+35	—	—	—	—
Simferopol	50.7	300	8 58	+ 1	—	—	—	—
Yalta	50.9	300	e 9 18	+20	—	—	—	—
Sebastopol	51.2	300	e 8 49	-11	—	—	—	—
Ksara	54.5	286	i 9 26	+ 1	e 17 29	+27	—	—
Cheb	61.4	314	—	—	e 23 58?	?	e 32.0	38.0
Tinemaha	91.4	34	i 13 1	- 3	—	—	—	—
Mount Wilson	z. 93.9	36	i 13 12	- 3	—	—	—	—
Pasadena	z. 94.0	36	e 13 12	- 4	—	—	—	—

Additional readings:—

Chiufeng $P^*N = +2m.20s.$, $P_g? = +2m.31s.$, $S^* = +3m.16s. = S + 0s.$, $S_g = +3m.54s.$

Calcutta E. SSE = +10m.54s.

Sverdlovsk e = +15m.12s., $iL_q = +17.5m.$

Baku e = +18m.2s.

Tiflis e = +14m.53s. = S + 7s. and +20m.53s.

Moscow ePP = +9m.58s., e = +17m.40s. = SS - 16s.

Pulkovo PP = +10m.28s.

Theodosia e = +11m.2s.

Simferopol e = +10m.54s. = PP + 8s.

Yalta e = +12m.4s.

Ksara ePP = +11m.28s.

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

April 10d. Readings also at 0h. (Manila), 1h. (Pasadena, Riverside, and Tinemaha), 5h. (Triest, Branner, Fresno, and Lick), 10h. (Amboina), 12h. (Haiwee, Pasadena (2), Riverside, Tinemaha (2), La Jolla, Neuchatel, and Zurich), 13h. (near Mizusawa, near Batavia, and Malabar), 14h. (Basle, Neuchatel, and near Zurich), 15h. (Bagnères (2)), 16h. (Bagnères, Pasadena, Riverside, Tinemaha, and near Manila), 18h. (La Paz), 20h. (near Sochi), 22h. (near Amboina), 23h. (Batavia, Samarkand, Medan, and near Fresno).

April 11d. 23h. 38m. 6s. Epicentre $11^{\circ}.5N. 125^{\circ}.3E.$ N.2.

$A = -.5663, B = +.7998, C = +.1994; \delta = +14;$
 $D = +.816, E = +.578; G = -.115, H = +.163, K = -.980.$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	5.2	307	i 1 17 _a	+ 3	i 2 24	+11	—	—
Palau	10.0	114	2 37	+16	4 33	+20	—	—
Hong Kong	15.2	318	3 29	- 2	6 23	+ 3	7.7	8.9
Miyazaki	21.2	13	4 42	0	8 22	- 8	—	—
Nanking	21.4	344	i 4 44	0	8 40	+ 6	11.9	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagasaki	21.6	10	4 46	0	8 34	- 4	—	—
Kumamoto	21.9	12	4 48	- 2	—	—	—	—
Hukuoka B	22.6	12	5 3	+ 6	8 45	-12	—	—
Wakayama	24.4	21	5 15	+ 1	9 25	- 5	—	—
Sumoto	24.5	21	i 5 14	- 1	e 9 28	- 4	—	—
Taikyū	24.5	7	5 15	0	e 9 23	- 9	—	—
Osaka	24.9	21	5 24	+ 5	9 46	+ 7	—	—
Kameyama	25.5	22	5 24	- 1	—	—	—	—
Hikone	25.8	21	5 27	0	—	—	—	—
Nagoya	25.9	24	e 5 25	- 3	—	—	—	—
Gihu	26.1	24	5 31	+ 1	9 58	- 2	—	—
Oiwake	27.6	24	5 55	+11	—	—	—	—
Nagano	27.7	22	5 41	- 3	10 28	+ 1	—	—
Chiufeng	29.7	346	i 6 1 _a	- 1	11 0	+ 1	—	—
Vladivostok	32.1	9	e 6 22	- 2	e 11 26	-11	i 16.0	21.3
Calcutta	E. 36.8	292	7 11	+ 6	12 52	+ 4	—	—
Irkutsk	44.1	342	8 4	- 2	e 14 18	-19	21.9	—
Agra	E. 47.0	297	8 26	- 3	i 15 31	+12	—	—
Bombay	E. 51.0	285	i 8 3	-56	—	—	—	—
Semipalatinsk	53.5	327	e 9 18	0	—	—	—	—
Frunse	53.8	315	e 10 18	(-12)	—	—	—	—
Andijan	54.7	312	e 9 26	0	e 17 26	+21	—	—
Tashkent	57.1	312	i 9 44	0	i 17 52	+14	e 27.2	37.1
Samarkand	58.4	310	9 54	+ 1	18 7	+12	—	—
Sverdlovsk	66.7	328	i 10 45	- 5	19 44	+ 3	31.9	40.1
Baku	71.5	309	11 21	+ 1	20 58	+19	35.9	45.9
Tiflis	75.3	311	i 11 43	+ 1	e 21 37	+13	39.9	49.5
Erevan	75.6	309	e 12 19	+35	—	—	—	—
Piatigorsk	76.5	313	e 11 48	- 1	—	—	—	—
Moscow	79.2	325	e 12 3	- 1	e 22 9	+ 2	40.4	43.6
Theodosia	81.8	315	12 19	+ 2	22 42	+ 7	—	—
Pulkovo	82.6	330	i 12 21	0	22 46	+ 3	45.9	48.4
Simferopol	82.7	315	12 24	+ 2	22 55	+11	—	—
Yalta	82.8	315	e 12 23	+ 1	22 53	+ 8	—	—
Ksara	83.1	303	i 12 27 _a	+ 3	e 22 58	+10	—	—
Sebastopol	83.2	315	12 25	+ 1	22 57	+ 8	—	—
Helwan	87.7	301	—	—	e 23 27	- 7	—	—
Copenhagen	92.9	329	—	—	23 24	[-25]	49.9	—
Zagreb	94.8	319	e 13 22	+ 2	e 24 11	[+11]	—	—
Cheb	95.3	324	—	—	e 23 54 [?]	[- 8]	e 55.9	59.9
Triest	96.3	320	e 13 37	+11	e 24 15	[+ 7]	—	54.7

Additional readings :—

Hong Kong PP = +3m.39s.
 Calcutta PPPE = +8m.40s.
 Irkutsk ePP = +9m.47s., SS = +17m.54s.
 Agra iPPPE = +10m.19s., PPPE = +11m.5s., iSSE = +18m.41s., SSSE = +20m.2s.
 Bombay eEN = +9m.47s.
 Tiflis e = +30m.28s.
 Pulkovo L_a = +40.9m.
 Ksara ePP = +15m.44s., ePS = +23m.44s., ePPS = +24m.10s., eSS = +28m.42s.
 Helwan i = +23m.46s.
 Copenhagen e = +24m.6s., +24m.36s., and +25m.30s. = PS +4s.
 Triest SKS = +23m.56s., i = +24m.59s. = S +5s.
 Long waves were also recorded at Pasadena, Scoresby Sund, and other European stations.

April 11d. Readings also at 1h. (Grozny, Piatigorsk, and Tiflis), 2h. (near Nagoya (2)), 3h. (Alicante, Almeria, San Fernando, Toledo, near Granada, Malaga, and near Samarkand), 4h. (Baku, Ksara, Tiflis, Sverdlovsk, Tashkent, Samarkand, Agra, Bombay, Hyderabad, and Kodaikanal), 9h. (La Paz, Frunse, near Andijan, Samarkand, and near Wellington), 10h. (Samarkand and near Wellington), 12h. (Dakar), 14h. (Sotchi, Piatigorsk, near Erevan, Grozny, and Tiflis), 16h. (Mizusawa, Sumoto, and near Tiflis), 18h. (La Paz), 21h. (near Branner), 23h. (Triest and Zagreb).

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April 12d. 2h. 37m. 11s. Epicentre $8^{\circ}0'N$. $137^{\circ}5'E$. N.3.
(forerunner of large shock of 12d. 20h.).

$$A = -.7301, B = +.6690, C = +.1392; \quad \delta = -2;$$

$$D = +.676, E = +.737; \quad G = -.103, H = +.094, K = -.990.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Manila	17.5	294	4 0k	0	7 21	+ 8	9.2	10.8
Hong Kong	26.6	306	—	—	10 19	+10	—	17.3
Nanking	29.7	327	—	—	(e 11 13)	+14	e 11.2	—
Vladivostok	35.5	354	e 8 14	PP	—	—	—	21.2
Chiufeng	37.3	334	e 7 20	+11	e 13 22	+26	—	25.4
Tashkent	68.4	312	—	—	e 20 7	+ 5	e 34.3	44.4
Sverdlovsk	76.1	328	e 11 37	-10	e 21 55	PS	37.8	—
Tiflis	86.7	312	—	—	e 22 55	[-16]	e 50.3	—
Ksara	95.1	304	e 15 16	?	e 25 40	PS	59.8	—
Cheb	105.0	327	—	—	e 28 49?	?	e 62.8	68.8

Additional readings:—

Chiufeng eN = +7m.22s.

Long waves were also recorded at Baku, Moscow, Pulkovo, Copenhagen, De Bilt, Stuttgart, Paris, and Granada.

April 12d. 17h. 25m. 12s. Epicentre $43^{\circ}5'N$. $85^{\circ}5'E$. (as on 1925 July 21d.). X.

$$A = +.0569, B = +.7231, C = +.6884; \quad \delta = +1;$$

$$D = +.997, E = -.078; \quad G = -.054, H = +.686, K = -.725.$$

Very rough.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Almata	6.2	270	e 1 26	- 2	e 2 12	-26	—	2.4
Semipalatinsk	7.8	334	e 2 29	P _g	e 3 12	- 7	—	—
Frunse	8.0	269	e 1 52	- 1	i 3 3	S*	—	—
Andijan	10.1	259	e 2 55	+33	e 4 44	+28	e 5.4	—
Tchimkent	11.7	269	—	—	e 4 53	- 2	—	—
Samarkand	14.3	261	e 4 8	+40	e 5 48	-10	—	—
Sverdlovsk	20.5	319	e 4 43	+ 8	e 8 23	+ 7	11.1	—

Additional readings:—

Almata eP_g = +1m.36s. = P* - 7s., i = +2m.30s. and +2m.52s. = S* - 11s.

Semipalatinsk e = +3m.45s. = S* - 5s.

Frunse eP_g = +2m.4s. = P* - 10s.

Tchimkent e = +5m.12s.

Samarkand e = +6m.40s.

Long waves were also recorded at Tiflis, Moscow, Pulkovo, and Copenhagen.

April 12d. 20h. 51m. 5s. Epicentre $8^{\circ}0'N$. $137^{\circ}5'E$. (see shock at 2h.). N.1.

$$A = -.7301, B = +.6690, C = +.1392; \quad \delta = -2;$$

$$D = +.676, E = +.737; \quad G = -.103, H = +.094, K = -.990.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Palau	3.1	257	0 42	- 2	1 14	- 6	—	—
Amboina	15.0	219	e 3 24	- 4	i 6 29	SS	—	—
Manila	17.5	294	i 4 3a	+ 3	i 7 34	SS	—	—
Titizima	19.6	13	4 25	0	—	—	—	—
Isigakizima	20.7	325	4 37	0	8 35	+15	—	—
Kosyun	21.4	314	4 50	+ 6	8 28	- 6	—	—
Taito	21.6	316	4 47	+ 1	8 47	+ 9	—	—
Nake	21.7	342	4 58	+10	9 16	SS	—	—
Karenko	22.1	321	4 59k	+ 7	9 6	+18	—	—
Arisan	22.3	320	4 59	+ 5	—	—	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tainan	22.4	316	4 56	+ 1	—	—	—	—
Taiyu	22.8	320	5 3	+ 4	—	—	—	—
Taihoku	22.9	320	4 59	- 1	9 13	+10	—	9.6
Kagosima	24.4	346	5 18	+ 4	—	—	—	—
Miyazaki	24.6	348	5 17	+ 1	9 30	- 4	—	—
Simidu	25.1	352	5 19	- 2	—	—	—	—
Hatidyozima	25.2	6	5 52	PP	—	—	—	—
Siomisaki	25.5	359	5 24	- 1	—	—	—	—
Unzendake	25.6	348	5 19	- 6	—	—	—	—
Kumamoto	25.6	349	5 25	0	—	—	—	—
Nagasaki	25.7	347	5 27	+ 1	—	—	—	—
Ooita	25.8	349	6 28	+61	—	—	—	—
Matuyama	26.2	352	5 38	+ 7	10 13	+11	—	—
Wakayama	26.3	358	5 28	- 4	—	—	—	—
Hukuoka	26.4	348	5 32	- 1	9 56	- 9	—	—
Hukuoka B	26.4	348	5 34	+ 1	10 19	+14	—	—
Sumoto	z 26.5	358	e 5 35k	+ 1	10 8	+ 1	13.5	14.4
Hong Kong	26.6	306	5 32k	- 3	10 13	+ 4	13.1	16.7
Hamamatu	26.7	2	5 40	+ 5	—	—	—	—
Kobe	26.8	358	e 5 13	-23	(e 10 22)	+10	e 10.4	13.7
Kameyama	26.9	1	5 36	- 1	10 33	+19	—	—
Okayama	26.9	354	5 41	+ 4	10 22	+ 8	—	—
Nagoya	27.2	0	e 5 46	+ 6	—	—	11.2	—
Hikone	27.3	359	5 41	0	—	—	—	—
Gihu	27.4	0	6 2	+20	11 20	SS	—	—
Hukusan	27.4	359	5 43	+ 1	—	—	—	—
Hunatu	27.5	4	5 46	+ 3	—	—	—	—
Zi-ka-wei	z. 27.6	331	5 44	0	8 48	?	13.2	13.7
Toyooka	27.6	357	5 43	- 1	—	—	11.3	15.1
Kohu	27.7	4	5 40	- 4	—	—	—	—
Tokyo	27.8	4	6 6	+21	—	—	—	—
Tyosi	27.9	7	5 49	+ 3	—	—	—	—
Kumagaya	28.2	3	5 49	0	—	—	—	—
Husan	28.2	346	6 3	+14	—	—	12.2	—
Kakioka	28.3	6	5 53	+ 3	—	—	—	—
Tukubasan	28.3	6	5 50	0	—	—	—	—
Oiwake	28.3	3	5 51	+ 1	10 52	+15	—	—
Maebasi	28.4	3	6 5	+14	—	—	—	—
Nagano	28.7	1	5 59	+ 6	11 15	+32	—	—
Toyama	28.7	0	6 3	+10	—	—	—	—
Taikyu	29.0	346	5 58	+ 2	10 43	- 5	15.3	—
Wazima	29.4	0	5 59	- 1	—	—	—	—
Nanking	29.7	327	i 6 0k	- 2	i 10 54	- 5	14.0	15.0
Hukusima	29.9	6	6 6	+ 2	11 9	+ 6	—	—
Sendai	30.4	7	6 8	- 1	11 13	+ 3	—	—
Zinsen	31.1	343	6 10	- 5	e 8 50	?	e 11.5	—
Keizyo	31.1	344	e 6 22	+ 7	e 11 21	0	—	—
Mizusawa	E. 31.3	6	e 6 23	+ 6	e 11 42	+18	—	—
	N. 31.3	6	e 6 19	+ 2	e 11 30	+ 6	e 14.9	—
Morioka	31.9	5	6 20	- 2	11 36	+ 2	—	—
Aomori	32.9	5	6 32	+ 1	12 2	+13	—	—
Batavia	33.7	247	i 6 42	+ 4	i 12 18	+17	e 16.9	—
Hakodate	33.9	5	6 49	+10	—	—	—	—
Sapporo	35.2	6	6 51	0	—	—	—	—
Obihiro	35.3	8	6 51	- 1	—	—	—	—
Vladivostok	35.5	354	i 6 54	+ 1	e 12 20	- 9	16.4	19.6
Chiufeng	37.3	334	i 7 8a	- 1	i 12 46	-10	18.0	19.6
Medan	38.8	267	7 24	+ 2	i 13 28	+10	—	—
Ootomari	38.9	6	7 12	-11	—	—	—	—
Adelaide	42.9	179	7 55	- 1	i 14 37	+18	—	27.6
Riverview	43.8	164	e 8 5	+ 2	i 14 39	+ 6	e 22.8	28.6
Perth	45.0	207	8 25	+12	14 55	+ 5	23.3	—
Melbourne	46.4	173	e 8 31	+ 7	15 13	+ 3	22.1	26.3
Calcutta	E. 49.3	293	8 47	+ 1	15 54	+ 3	23.6	27.9
Irkutsk	51.9	335	9 4	- 2	16 35	+ 8	23.9	27.9

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Colombo	57.1	273	9 40	- 4	17 34	- 4	31.1	38.6
New Plymouth	58.0	147	10 55?	?	—	—	—	—
Arapuni	58.2	146	—	—	e 17 55?	+ 3	—	—
Hyderabad	58.2	286	9 53	+ 1	18 20	+28	27.8	37.3
Kodaikanal	E. 59.2	278	i 9 58	- 1	i 18 3	- 2	33.2	38.8
Agra	E. 59.3	297	0 54	- 6	18 16	+ 9	—	—
Dehra Dun	59.7	301	10 15	+13	18 35	+23	27.2	32.9
Wellington	60.0	149	10 11	+ 7	18 16	0	33.9	35.9
Christchurch	60.6	152	i 10 16 _a	+ 7	i 18 28	+ 4	28.8	—
Semipalatinsk	63.3	324	e 10 26	- 1	e 18 58	- 1	31.9	—
Almata	63.3	316	e 10 27	0	—	—	—	—
Honolulu	63.6	70	e 10 27	- 2	i 19 15	+13	i 26.1	—
Bombay	63.7	288	10 24	- 6	i 19 0	- 4	30.9	43.1
Frunse	64.8	314	e 10 29	- 8	—	—	34.1	—
Andijan	66.0	311	e 10 47	+ 2	e 19 53	+21	(e 20.0)	—
Tchimkent	68.3	313	e 10 57	- 3	—	—	—	—
Samarkand	69.9	309	e 11 10	0	e 20 20	0	25.3	—
Sverdlovsk	76.1	328	i 11 41	- 6	i 21 25	- 8	37.2	44.3
College	76.3	25	e 11 46	- 2	e 21 27	- 8	e 30.4	—
Sitka	81.8	34	e 12 13	- 4	e 22 30	- 5	e 33.9	—
Baku	83.0	311	i 12 23	0	23 45	PS	43.9	55.1
Grozny	85.8	314	12 42	+ 5	23 22	+ 6	42.9	—
Tiflis	86.7	312	i 12 40	- 2	23 14	[+ 3]	43.4	56.1
Erevan	87.1	310	e 13 3	+19	—	—	—	—
Piatigorsk	87.6	315	e 11 55	-51	e 23 12	[- 5]	41.9	—
Moscow	88.9	327	e 12 47	- 5	23 19	[- 7]	44.4	54.3
Victoria	90.0	41	e 12 58	+ 1	i 23 48	- 8	e 42.1	43.8
Sotchi	90.1	315	e 13 20	+22	—	—	—	—
Ukiah	91.2	50	e 13 7	+ 4	e 23 43	[+ 3]	e 41.9	—
Pulkovo	91.5	332	13 1	- 3	23 35	[- 6]	41.9	53.3
Theodosia	92.8	316	—	—	e 24 15	- 7	56.9	—
Berkeley	93.1	51	e 13 7 _k	- 5	i 23 59	{- 1}	—	—
Simferopol	93.7	316	e 17 2	PP	e 24 33	+ 3	58.9	—
Yalta	93.8	315	—	—	e 24 26	- 5	58.9	—
Sebastopol	94.1	316	—	—	e 26 18	PS	59.9	—
Ksara	95.1	304	e 13 18	- 3	—	—	46.9	—
Tinemaha	96.3	51	i 13 26	0	—	—	i 44.3	—
Pasadena	97.2	53	e 13 29	- 2	e 24 55	- 7	i 44.7	—
Mount Wilson	z. 97.2	53	e 13 30	- 1	—	—	i 44.6	—
Upsala	97.3	333	e 13 32	+ 1	26 22	PS	e 42.9	61.5
Riverside	97.8	53	e 13 37	+ 4	—	—	—	—
Königsberg	98.3	328	e 17 32	PP	e 24 14	[- 3]	e 35.7	58.3
Bozeman	98.8	41	—	—	e 24 15	[- 5]	e 39.1	—
Bucharest	99.2	317	e 13 55	+15	24 22	[0]	50.9	57.9
Helwan	99.8	301	13 44	+ 1	26 52	PS	—	—
Scoresby Sund	100.3	353	13 49	+ 4	24 29	[+ 2]	50.9	—
Copenhagen	101.9	331	13 55	+ 3	24 28	[- 7]	44.9	—
Bergen	102.0	338	e 14 55	?	e 24 9	[-26]	51.1	—
Budapest	102.5	322	e 18 5	PP	e 27 8	PS	e 53.9	65.4
Belgrade	102.8	319	e 18 49	?	e 27 13	PS	e 59.1	—
Tucson	103.6	54	e 14 5	+ 5	e 25 52	- 6	e 47.9	—
Vienna	103.7	323	e 16 57	?	27 25	PS	e 57.4	67.4
Prague	103.9	326	e 16 19	?	e 28 25	?	e 43.9	65.9
Hamburg	104.2	331	e 17 31	PP	e 27 45	PS	e 49.5	64.9
Graz	104.8	323	e 19 37	?	e 29 25	?	e 53.9	68.2
Cheb	105.0	327	e 14 8	+ 7	e 24 58	[+ 8]	e 50.9	65.6
Zagreb	105.1	321	e 18 17	PP	e 28 42	?	e 53.9	58.3
Göttingen	105.4	329	e 18 43	PP	e 27 55?	PS	e 46.9	63.9
Triest	106.6	322	e 14 45	+31	i 24 57	[0]	54.9	67.8
De Bilt	107.4	331	e 14 19	+ 1	e 28 2	PS	e 49.9	59.3

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Stuttgart	107.5	327	e 14 17	- 2	e 28 25	PS	e 51.9	67.2
Strasbourg	108.3	327	e 19 1	PP	e 28 15	PS	e 57.9	—
Edinburgh	108.3	337	e 14 55?	+32	i 25 35	[+30]	48.9	70.7
Durham	108.5	336	—	—	28 25	PS	—	68.9
Uccle	108.7	331	e 14 19	- 6	i 25 5	[- 2]	e 49.9	64.0
Florence	109.0	321	17 55	[-20]	28 25	PS	54.9	—
Stonyhurst	109.6	336	e 19 5	PP	e 27 50	PS	54.9	69.4
Bidston	110.1	336	e 14 27	- 5	i 28 38	PS	51.9	68.1
Kew	110.4	333	e 14 33	0	i 28 42	PS	51.9	55.4
Ivigtut	110.6	2	19 13	PP	28 36	PS	44.9	—
Paris	110.9	329	e 13 42	+ 7	28 47	PS	49.9	67.9
Rathfarnham Castle	111.5	337	i 16 38	?	e 30 22	?	52.2	71.7
Madison	113.5	35	—	—	e 28 55?	PS	—	—
Chicago	115.4	36	e 19 37	PP	e 29 14	PS	e 52.1	—
Florissant	115.5	40	e 15 0	- 3	e 25 44	[+ 9]	i 53.4	64.8
St. Louis	N. 115.7	40	—	—	e 29 17	PS	e 49.7	—
Barcelona	115.9	324	—	—	e 29 33	PS	—	61.7
Bagnères	115.9	326	—	—	e 29 55?	PS	e 59.9	71.9
Little Rock	116.4	45	e 19 47	PP	e 29 29	PS	e 50.3	59.5
Ann Arbor	117.2	32	e 21 13	?	e 29 37	PS	e 55.1	—
Tortosa	117.2	324	—	—	e 26 55?	{- 2}	e 55.9	86.0
Algiers	118.2	319	e 20 2	PP	i 29 50	PS	58.9	68.9
Cape Town	118.4	235	i 20 5	PP	i 29 49	PS	44.9	62.8
Toronto	118.5	29	i 19 31	PP	i 28 35	?	51.9	—
Ottawa	118.9	25	e 20 5	PP	e 29 43	PS	e 47.9	—
Toledo	120.4	326	19 59	PP	—	—	—	—
Almeria	121.6	322	e 20 13	PP	30 21	PS	e 64.1	—
Granada	122.0	323	e 19 58	PP	27 12	{-18}	—	—
Charlottesville	123.0	33	e 23 59	?	e 29 55	SKSP	e 55.9	—
Oak Ridge	123.0	24	i 20 45	PP	e 30 39	PS	e 63.9	—
Philadelphia	123.3	29	e 20 35	PP	e 30 15	SKSP	e 51.7	—
San Fernando	124.0	324	e 15 15	-24	30 54	PS	61.9	83.4
Columbia	124.4	38	e 21 19	PP	e 31 11	PS	e 57.9	—
San Juan	144.8	40	e 19 29	[- 4]	e 33 11	SKSP	e 68.9	—
Huancayo	147.4	100	i 19 39	[+ 1]	—	—	e 44.2	—
La Plata	149.6	154	18 25	[-76]	—	—	70.1	—
La Paz	153.6	111	i 19 55k	[+ 9]	i 26 29	SKS	73.9	91.1
Rio de Janeiro	165.1	177	e 19 55	[- 4]	—	—	—	—

Additional readings:—

Amboina iP = +3m.31s. = PP - 2s.
 Taihoku PE = +5m.5s.
 Sumoto SE = +10m.14s.
 Hong Kong PP = +6m.25s., P_cP = +8m.52s.
 Kobe ePZ = +5m.34s., iZ = +5m.41s., eN = +7m.34s., eE = +7m.38s.
 Zi-ka-wei PPZ = +5m.55s., iZ = +6m.12s., +6m.25s. = PP + 0s. and +6m.46s.,
 SSZ = +9m.16s., iZ = +9m.40s. and +10m.52s.
 Toyooka ePE = +6m.20s. = PP - 5s.
 Nanking iPP = +7m.3s.
 Chiufeng PPZ = +8m.28s., iP_cP = +8m.45s., iP_cSEN = +13m.2s.
 Medan i = +13m.6s.
 Adelaide e = +10m.43s., iS = +16m.37s.
 Riverview iPN = +8m.8s., eN = +9m.47s. = PP + 8s., eN = +17m.45s. =
 SS + 17s., iEN = +18m.2s. = S_cS - 3s.
 Perth PP = +10m.5s. = P_cP + 7s., P_cP = +10m.45s., PPP = +10m.55s., PPPP =
 +11m.25s., ? = +17m.55s., SS = +18m.30s.
 Melbourne iP = +9m.18s., i = +10m.44s., PP = +12m.54s., SS = +18m.43s.,
 i = +20m.27s.
 Calcutta PPE = +10m.35s., SSE = +19m.12s.
 Kodaikanal iPP = +13m.21s.
 Agra PPE = +12m.6s., iSS?E = +21m.46s.
 Wellington P_cS? = +14m.5s., i = +18m.45s., e = +21m.20s., SS = +23m.7s.,
 SSS = +25m.25s.
 Christchurch iPPZ = +12m.31s., PPP = +13m.55s., iPS = +18m.44s., iSS =
 +22m.29s.
 Honolulu i = +15m.12s., +15m.37s., and +24m.15s.
 Bombay SSEN = +23m.28s., SSEN = +25m.36s.
 College e = +11m.55s., ePP = +15m.17s., eSS = +26m.37s.

Continued on next page.

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Tifis $i = +12m.46s.$, $PP = +16m.16s.$, $PS = +24m.16s.$, $SS = +29m.6s.$, $SSS = +32m.45s.$
 Moscow $PP = +16m.26s.$, $PS = +24m.44s.$, $SS = +29m.43s.$, $SSS = +32m.55s.$
 Pulkovo $PP = +16m.35s.$, $PPP = +18m.35s.$, $PS = +25m.17s.$, $SS = +30m.7s.$, $SSS = +33m.49s.$
 Ukiah $ePP = +16m.55s.$
 Berkeley $eZ = +17m.5s.$, $eE = +17m.13s.$, $eZ = +17m.31s.$, $eN = +23m.18s.$
 Ksara $iPP = +17m.18s.$, $PKKP = +29m.32s.$
 Tinemaha $eZ = +16m.46s.$
 Pasadena $eZ = +17m.12s.$
 Mount Wilson $iZ = +17m.42s.$
 Upsala $PPE = +17m.35s.$
 Königsberg $eN = +21m.15s.$, $eE = +21m.37s.$, $eN = +22m.54s.$, $eE = +26m.35s.$, $=PS + 8s.$ and $+28m.11s.$, $eN = +28m.53s.$, $eE = +32m.4s.$
 Bozeman $e = +26m.32s. = PS + 0s.$
 Bucharest $eEN = +17m.43s. = PP + 6s.$
 Helwan $e = +14m.37s.$, $+19m.57s. = PPP + 15s.$ and $+27m.35s.$
 Scoresby Sund $e = +17m.19s.$, $+17m.55s. = PP + 10s.$, $PPP = +20m.1s.$, $PS = +27m.1s.$, $SS = +32m.25s.$
 Copenhagen $eZ = +17m.46s. = PP - 11s.$, $PP = +18m.7s.$, $PPP = +20m.18s.$, $e = +23m.25s.$, $PS = +27m.7s.$, $SS = +32m.55s.$, $SSS = +36m.31s.$
 Bergen $e = +26m.55s.?$ and $+32m.55s.?$ $= SS + 26s.$
 Belgrade $e = +20m.32s.$
 Tucson $ePP = +18m.36s.$, $ePS = +27m.35s.$, $eSS = +33m.5s.$
 Vienna $PP = +21m.9s.$, $e = +33m.25s.$
 Prague $e = +33m.13s. = SS + 18s.$
 Hamburg $eEN = +33m.13s. = SS + 13s.$
 Cheb $ePP = +18m.23s.$, $ePS? = +28m.37s.$, $eSS? = +33m.37s.$
 Zagreb $eP_cP = +18m.35s. = PP + 13s.$, $e = +33m.23s. = SS + 12s.$
 Göttingen $eEN = +33m.37s. = SS + 21s.$
 Trieste $PP = +18m.45s.$, $ePPP? = +20m.58s.$, $iPS = +27m.59s.$, $iPPS = +28m.47s.$, $i = +29m.52s.$, $iSS = +33m.53s.$, $iSSS = +37m.51s.$, $i = +41m.44s.$, $+44m.46s.$
 De Bilt $ePP = +18m.39s.$
 Stuttgart $ePP = +18m.47s.$, $eSS = +34m.7s.$
 Strasbourg $ePPS? = +29m.12s.$
 Edinburgh $i = +18m.55s.?$ $= PP + 10s.$, $+22m.3s.$, $+28m.25s. = PS + 13s.$, $+29m.21s.$, and $+34m.19s. = SS + 24s.$
 Uccle $ePPEN = +18m.55s.$, $iPSEN = +28m.16s.$, $iEN = +28m.32s.$, $iPPSZ = +29m.15s.$, $iSS = +34m.20s.$, $SSS = +38m.34s.$
 Stonyhurst $i = +29m.35s.$
 Bidston $iPP = +19m.3s.$, $iPPP = +21m.29s.$, $iPPS = +29m.35s.$, $iSS = +34m.38s.$, $eSSS = +38m.59s.$
 Kew $iPP = +19m.9s.$, $iPPPEZ = +21m.33s.$, $iPPPN = +21m.37s.$, $iSPPZ = +29m.31s.$, $iPPSEN = +29m.39s.$, $iSSE = +34m.39s.$, $iSSN = +34m.49s.$, $iSSZ = +34m.57s.$, $eSSSEN = +39m.4s.$
 Ivigtut $SS = +34m.55s.$
 Paris $PP = +19m.10s.$, $e = +29m.47s.$, $SS = +35m.5s.$
 Rathfarnham Castle $e = +20m.15s.$ and $+35m.56s.$, $i = +36m.13s.$ and $+36m.56s.$
 Madison $e = +32m.55s.?$
 Chicago $eSS = +35m.26s.$
 Florissant $ePKPZ = +18m.38s.$, $ePPZ = +19m.32s.$, $i = +19m.47s.$, $eSKKSE = +26m.52s.$, $iPSEN = +29m.20s.$, $iPPSEN = +30m.21s.$, $eSSE = +35m.34s.$
 St. Louis $eN = +39m.15s. = SSS.$
 Little Rock $ePPN = +19m.51s.$, $eSSEN = +35m.48s.$
 Ann Arbor $eE = +30m.1s.$, $e = +32m.31s.$, $eN = +36m.31s.$
 Algiers $iPP = +22m.30s. = PPP + 9s.$, $eSSS = +36m.26s. = SS + 18s.$
 Cape Town $e = +23m.47s.$, $i = +29m.54s. = PS + 6s.$, $eN = +36m.24s. = SS + 13s.$, $iE = +36m.54s.$
 Toronto $iE = +39m.38s.$
 Ottawa $SS = +37m.19s.$
 Almeria $SS = +37m.19s.$
 Charlottesville $eSS = +37m.19s.$, $e = +50m.9s.$
 Oak Ridge $eZ = +23m.32s.$, $eSKPZ = +26m.59s.$, $ePPSE = +38m.2s.$, $e = +63m.55s.?$
 Philadelphia $eSS = +37m.7s.$, $e = +48m.55s.$
 San Fernando $eE = +19m.58s.$, $PP = +23m.29s.$, $SS = +39m.12s.$
 Columbia $e = +25m.11s.$, $eSS = +37m.20s.$
 San Juan $ePP = +23m.10s. = PKS - 9s.$, $ePPP = +26m.3s.$, $eSS = +41m.8s.$
 Huancayo $i = +19m.52s.$, $ePP = +22m.13s.$, $e = +25m.3s.$
 La Paz $iPKP_2 = +20m.14s. = PKP_2 + 0s.$, $iPKP = +21m.41s.$, $iSKPZ = +22m.37s.$, $iSKPE = +23m.35s.$, $iPPZ = +23m.54s.$, $iZ = +24m.41s.$, $iE = +25m.31s.$, $iZ = +25m.59s.$, $iPPPZ = +26m.59s.$, $iPPPE = +27m.23s.$, $SKKSZ = +29m.51s.$, $SKSPZ = +33m.27s.$, $iE = +34m.18s.$, $iPPSZ = +37m.5s.$, $iZ = +38m.27s.$, $iSSE = +44m.15s.$, $iSSSE = +48m.37s.$, $iSSSS = +52m.17s.$
 Long waves at Tashkent, Karlsruhe, and Malaga,

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April 12d. 21h. 22m. 30s. Epicentre 25°·5N. 128°·0E. N.3.

A = -·5557, B = +·7112, C = +·4305; $\delta = -6$;
D = +·788, E = +·616; G = -·265, H = +·339, K = -·903.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	5·9	267	1 20	- 4	e 1 40	P*	—	1·8
Hukuoka	8·3	14	1 58	0	3 52	+21	—	—
Hukuoka B	8·3	14	1 58	0	4 16	S*	—	—
Husan	9·6	5	e 2 23	+ 7	(3 24)	-39	3·4	—
Nanking	10·4	311	2 21	- 5	5 44	+21	8·9	—
Taikyu	10·4	3	2 58	+32	i 5 0	S*	—	—
Sumoto	10·6	33	i 2 27	- 2	—	—	—	—
Keizyo	12·1	356	—	—	e 5 26	+21	e 10·0	—
Zinsen	12·1	341	e 3 4	+14	e 5 14	+ 9	e 6·4	—
Nagoya	12·3	36	(2 54)	+ 2	2 54	P	—	—
Mizusawa	E. 17·5	36	e 4 0	0	e 7 21	+ 8	9·8	—
Grozny	67·4	308	e 10 54	0	—	—	—	—
Tifis	68·5	307	e 11 0	- 1	—	—	—	—
Erevan	69·3	305	e 11 36	(- 6)	—	—	—	—
Sotchi	71·6	310	i 10 59	-21	—	—	—	—
Simferopol	74·9	313	e 11 35	- 5	—	—	—	—
Yalta	75·0	312	e 11 33	- 7	—	—	—	—
Sebastopol	75·4	313	i 11 29	-14	—	—	—	—
Vienna	84·3	321	e 12 29	- 1	—	—	—	—
Zagreb	85·8	320	e 12 35	- 2	—	—	—	—

Additional reading and notes:—
Nagoya gives P as S, also P = +1m.8s.

April 12d. Readings also at 6h. (near Granada), 13h. (Ksara, Tifis, and near Amboina), 15h. (Amboina), 16h. (Tashkent), 21h. (Moscow, Sverdlovsk, Pulkovo, and Heizyo).

April 13d. 0h. 28m. 35s. Epicentre 8°·0N. 137°·5E. (as on 12d.). X.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	15·0	219	i 3 20	- 8	—	—	—	—
Manila	17·5	294	i 4 2a	+ 2	i 7 31	+18	9·4	11·4
Hong Kong	26·6	306	—	—	10 29	+20	—	16·2
Vladivostok	35·5	354	e 6 50	- 3	—	—	—	20·8
Chiufeng	37·3	334	e 7 9	0	e 12 53	- 3	—	—
Sverdlovsk	76·1	328	11 44	- 3	e 21 26	- 7	36·4	—
Grozny	85·8	314	e 12 41	+ 4	—	—	—	—
Tifis	86·7	312	—	—	e 21 58	?	50·4	56·9
Pulkovo	91·5	332	—	—	e 38 40	?	56·4	—

Additional readings:—
Vladivostok e = +8m.14s. = PPP - 4s.
Chiufeng ePE = +7m.12s.
Long waves were also recorded at Nanking, Copenhagen, Cheb, De Bilt, and Stuttgart.

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April 13d. Readings also at 2h. (near Trieste and Zagreb), 3h. (Sverdlovsk, Tiflis, Ksara, De Bilt, Granada, Cape Town, Rio de Janeiro, La Paz, near Kobe, Sumoto, and near Apia), 4h. (Baku, Pulkovo, and Copenhagen), 5h. (Bagneres), 7h. (Nanking, Hong Kong, Manila, Chiufeng, Tashkent, Tiflis, Sverdlovsk, Mount Wilson, Pasadena, and Tinemaha), 8h. (Copenhagen, De Bilt, and Stuttgart), 9h. (Amboina), 12h. (Huancayo, Rio de Janeiro, near Kobe, and Sumoto), 13h. (De Bilt and Stuttgart), 14h. (near San Javier, near Trieste, and Zagreb), 15h. (near San Javier), 16h. (near Trieste), 19h. (Tiflis), 20h. (Tiflis, near Branner, Lick, and near Wellington), 21h. (Apia, Christchurch, Mount Wilson, Pasadena, Riverside, Tinemaha, Ksara, Stuttgart, De Bilt, and Paris).

April 14d. 15h. 34m. 15s. Epicentre $1^{\circ}0'S$. $129^{\circ}0'E$. (as on 1935 Sept. 27d.). X.

$$A = -.6292, B = +.7770, C = -.0174; \quad \delta = -8;$$

$$D = +.777, E = +.629; \quad G = +.011, H = -.014, K = -1.000.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	2.8	198	i 0 43	+ 3	i 1 15	+ 3	—	—
Manila	17.5	333	i 4 35 _a	+35	8 27	L	10.5	—
Batavia	22.7	256	4 56	- 2	8 48	-11	—	—
Frunse	64.1	319	e 10 41	+ 8	—	—	—	—
Andijan	66.0	316	e 10 46	+ 1	—	—	—	—
Tashkent	68.4	316	—	—	i 20 2	0	—	37.4
Samarkand	69.5	313	11 10	+ 2	e 20 10	- 5	—	—
Sverdlovsk	79.2	330	i 12 1	- 3	i 21 57	-10	—	—
Simferopol	94.1	315	e 12 1	-75	—	—	—	—
Pulkovo	95.2	331	e 14 42	+81	i 17 14	PP	—	—
Tinemaha	z. 108.6	51	e 21 22	PPP	—	—	—	—
Pasadena	z. 109.3	54	i 21 23	PPP	—	—	e 85.2	—

Additional readings :—
 Amboina $iS_cS = +14m.40s.$
 Tashkent $e = +21m.33s.$

April 14d. Readings also at 1h. (Husan, near Hukuoka, Hukuoka B, Sumoto, and near Semipalatinsk), 2h. (Sumoto, Chiufeng, Almata, Andijan, Samarkand, Tchinkent, Irkutsk, and Sverdlovsk), 3h. (near Nagoya and Sumoto), 6h. (Grozny, Piatigorsk, and Malaga), 9h. (Florissant), 12h. (Wellington and near Sumoto), 15h. (Copenhagen, Prague, Andijan, Tashkent, Samarkand, Frunse, near Almata, near Hastings, Wellington, and near Budapest), 16h. (Adelaide, Arapuni, Christchurch, Wellington, Pulkovo, Ksara, Tashkent, and near Samarkand), 17h. (Baku, Sverdlovsk, Copenhagen, De Bilt, Paris, Stuttgart, and College), 20h. (Columbia, Oak Ridge, St. Louis, Florissant, Ann Arbor, Toronto, Tucson, Scoresby Sund, De Bilt, Trieste, and Tiflis), 21h. (Little Rock and near Samarkand), 22h. (Madison and near Branner), 23h. (near San Javier).

April 15d. 6h. 5m. 58s. Epicentre $8^{\circ}7'S$. $111^{\circ}0'E$. (as on 1926 July 7d.). R.2.

$$A = -.3542, B = +.9228, C = -.1513; \quad \delta = -9;$$

$$D = +.934, E = +.358; \quad G = +.054, H = -.141, K = -.988.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Malabar	3.7	293	i 1 3	P*	i 1 50	S*	—	—
Batavia	4.8	300	i 1 19	P*	i 2 29	S _g	—	—
Medan	17.4	315	e 4 2?	+ 3	—	—	—	—
Amboina	17.8	75	e 4 3	- 1	7 23	+ 3	—	—
Perth	23.7	170	8 2	?	i 19 32	+14	—	—

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	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Hong Kong	31.2	5	7 30	PP	11 32	+ 9	—	18.2
Adelaide	36.4	140	—	—	e 11 32	-70	—	18.7
Nanking	41.4	9	i 7 48k	+ 4	14 8	+11	—	—
Agra	48.0	319	e 8 35	- 1	i 15 30	- 3	—	—
Chiufeng	49.0	5	e 8 45	+ 1	e 15 51	+ 4	—	31.3
Mizusawa	55.4	78	(e 9 34)	+ 2	e 9 34	P	—	—
Almata	60.5	332	e 10 14	+ 6	—	—	—	—
Andijan	60.9	327	e 10 11	0	—	—	—	—
Frunse	61.3	330	e 10 11	- 3	e 18 33	0	—	—
Tashkent	63.0	325	e 10 26	+ 1	18 50	- 5	e 32.0	43.6
Samarkand	63.2	323	e 10 25	- 2	18 57	0	—	—
Semipalatinsk	64.9	339	10 40	+ 2	—	—	—	—
Sverdlovsk	77.3	334	i 11 47	- 7	i 21 38	- 8	36.0	—
Grosny	78.6	317	e 12 1	+ 1	—	—	—	—
Tiflis	78.6	315	11 56	- 4	e 21 52	- 8	e 44.0	—
Piatigorsk	80.7	317	11 26	-46	21 30	-53	—	—
Ksara	82.7	305	i 12 19	- 3	e 22 47	+ 3	—	50.0
Theodosia	86.2	316	e 12 21	-18	—	—	—	—
Yalta	86.9	315	e 12 30	-13	23 1	[-12]	—	—
Simferopol	87.0	316	e 12 40	- 3	—	—	—	—
Sebastopol	87.3	316	e 12 42	- 3	e 23' 22	[+ 7]	—	—
Pulkovo	92.9	330	—	—	e 25 26	PS	48.0	—
Pasadena	128.3	53	i 18 53	[-11]	—	—	—	—
Mount Wilson	128.4	53	i 18 57	[- 7]	—	—	—	—
Oak Ridge	146.1	2	i 19 32	[- 4]	—	—	—	—
Tacubaya	148.9	66	33 32	SKSP	—	—	—	—

Additional readings:—

Batavia iE = +2m.41s.

Nanking e = +17m.22s. =SSS +3s.

Agra PSE = +16m.7s., eSSE = +18m.30s. =S_cS -2s.

Chiufeng iZ = +8m.57s., eS?Z = +16m.1s.

Tiflis eSS = +27m.4s.

Ksara ePP = +15m.33s., PS = +23m.33s., SS = +28m.32s.

Pasadena eZ = +21m.1s. =PP -5s. and +22m.9s.

Long waves at Christchurch, Sydney, Wellington, Granada, and Copenhagen.

April 15d. 16h. 3m. 7s. Epicentre 38°·0N. 20°·5E. (as on 1935 Sept. 3d.). R.3.

A = +.7381, B = +.2760, C = +.6157; δ = +5;
D = +.350, E = -.937; G = +.577, H = +.216, K = -.788.

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Sofia	5.1	24	e 1 4	- 9	—	—	—	—
Belgrade	6.8	0	e 1 27	-10	e 2 49	- 4	—	3.7
Bucharest	7.7	32	e 1 53	+ 4	e 3 5	-11	—	—
Zagreb	8.5	338	e 1 55	- 5	e 3 22	-14	—	5.7
Florence	9.0	313	2 43	+36	4 23	S*	—	6.4
Triest	9.1	329	e 2 6	- 3	3 34	-17	i 4.8	4.9
Laibach	9.2	333	e 3 26	+76	i 3 49	- 5	i 4.8	5.3
Budapest	9.5	355	e 3 24	+70	e 4 28	+27	5.6	5.9
Graz	9.8	340	e 2 30	+12	e 3 48	-20	4.9	5.4
Padova	9.8	322	e 3 25	+67	5 17	S _r	—	—
Vienna	10.6	345	e 3 14	+45	e 5 35	S _r	—	6.9
Chur	12.0	321	e 2 50	+ 2	—	—	—	—
Prague	12.8	342	e 4 40	?	e 6 5	S*	e 6.3	7.4
Ksara	13.1	104	e 3 1	- 2	—	—	—	8.9
Cheb	13.4	337	—	—	e 4 53?	-44	e 7.0	7.7

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.
Stuttgart	13.5	327	—	—	e 5 29	-10	e 7.3	8.5
Strasbourg	14.0	323	—	—	7 43	S _g	e 8.6	—
Sotchi	15.5	63	i 4 18	+43	—	—	—	—
Uccle	17.2	323	—	—	e 7 5	-1	e 9.2	—
Hamburg	17.2	339	—	—	e 7 53?	+47	—	—
De Bilt	17.7	328	e 4 4	+ 1	e 7 22	+ 5	e 9.4	10.4
Copenhagen	18.5	346	—	—	7 31	- 5	9.9	—
Tiflis	18.9	71	e 4 22	+ 5	e 7 50	+ 6	10.9	11.9
Granada	19.1	275	e 5 58	?	—	—	—	—
Kew	19.8	319	e 4 30	+ 3	e 8 6	+ 4	10.9	—
Grozny	19.8	66	e 4 19	- 8	—	—	—	—
Pulkovo	22.6	13	4 56	- 1	8 46	-11	10.9	13.0
Edinburgh	23.8	326	—	—	e 8 53?	-26	—	—

Additional readings:—

Belgrade e = +2m.16s. = P_g + 6s.

Bucharest eEN = +2m.41s., eE = +3m.2s., iEN = +3m.36s., +3m.59s., and +4m.5s. = S_g - 3s., iE = +5m.53s.

Zagreb eP_gNE = +2m.8s., eNW = +2m.11s., eNE = +2m.44s., eNW = +3m.13s., +3m.39s. = S + 0s. +3m.56s. and +4m.13s. = S* + 2s.

Triest i = +4m.56s., +5m.11s., and +5m.34s.

Long waves at Göttingen, Paris, Moscow, Sverdlovsk, and Tashkent.

April 15d. 18h. 55m. 47s. Epicentre 8°·0N. 137°·5E. (as on 12d.). R.2.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Amboina	15.0	219	3 50	+22	e 6 31	+16	e 9.2	—
Manila	17.5	294	e 3 59 _a	- 1	7 42	+29	9.7	—
Sumoto	26.5	358	e 5 3	-31	—	—	e 14.0	15.6
Hong Kong	26.6	306	5 36	+ 1	10 14	+ 5	13.1	16.8
Zi-ka-wei	z.	27.6	e 4 55	-49	—	—	—	—
Nanking	29.7	327	6 6	+ 4	11 4	+ 5	e 17.5	—
Vladivostok	35.5	354	e 6 57	+ 4	e 12 45	+16	17.2	20.9
Chiufeng	37.3	334	7 11 _a	+ 2	13 5	+ 9	e 18.7	21.4
Adelaide	42.9	179	—	—	e 14 16	- 3	22.5	27.0
Irkutsk	51.9	335	e 9 8	+ 2	e 16 35	+ 8	27.2	—
Agra	E.	59.3	e 9 54	- 6	i 18 4	- 3	—	—
Frunse	64.8	314	e 10 34	- 3	—	—	—	—
Andijan	66.0	311	e 10 45	0	—	—	—	—
Tashkent	68.4	312	i 15 20	PPPP	i 20 5	+ 3	e 33.4	38.5
Sverdlovsk	76.1	328	11 42	- 5	21 26	- 7	35.2	45.1
Baku	83.0	311	e 12 24	+ 1	e 22 45	- 2	e 39.2	—
Tiflis	86.7	312	12 41	- 1	23 24	0	—	—
Moscow	88.9	327	—	—	23 19	[- 7]	e 49.7	58.0
Pulkovo	91.5	332	e 13 59	+55	23 37	[- 4]	51.2	58.0
Ksara	95.1	304	e 13 46	+25	—	—	—	62.2
Copenhagen	101.9	331	—	—	24 37	[+ 2]	52.2	—
De Bilt	107.4	331	e 21 7	?	—	—	e 58.2	—
Paris	110.9	329	—	—	e 28 13?	PS	64.2	73.2

Additional readings:—

Sumoto PN = +5m.38s., PE = +5m.44s.

Hong Kong PP = +6m.15s., P_cP = +9m.5s., SS = +11m.31s.

Nanking PP = +7m.2s., SS = +11m.34s.

Chiufeng IPP = +8m.44s. = PPP + 2s.

Adelaide e = +19m.52s.

Tashkent e = +21m.10s. and +26m.49s.

Tiflis SKS = +23m.9s., e = +26m.33s., eSS = +29m.31s.

Moscow PS = +24m.44s., SS = +29m.43s.

Pulkovo PP = +16m.47s., PS = +25m.13s., SS = +30m.37s.

Ksara ePP = +17m.36s., ePS = +26m.17s., eSS = +31m.45s.

Copenhagen = +25m.37s. = S - 6s.

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

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April 15d. 19h. 18m. 43s. Epicentre $41^{\circ}5N$. $143^{\circ}1E$. (as on 1935 Oct. 30d.). R.1.

$$A = -.5989, B = +.4497, C = +.6626; \quad \delta = -5;$$

$$D = +.600, E = +.800; \quad G = -.530, H = +.398, K = -.749.$$

There have been several epicentres adopted in the I.S.S. near the position suggested by the Japanese stations for this shock, $41^{\circ}4N$. $142^{\circ}9E$. The above is the nearest and also the most recently used.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Urakawa	0.7	340	0 24	+14	0 38	+20	—
Obihiro	1.4	3	0 31	+11	0 49	+13	—
Hakodate	1.8	279	0 31 _a	P _g	0 50	S*	—
Muroran	1.8	298	0 29	P*	0 49	+ 3	—
Kusiro	1.8	33	0 22	- 4	0 47	+ 1	—
Aomori	1.9	249	0 26 _k	- 2	0 44	- 5	—
Miyako	2.0	204	0 29	0	0 50	- 1	—
Sapporo	2.0	320	0 38 _k	P _g	0 59	S _g	—
Asahigawa	2.3	347	0 44	P _g	1 14	S _g	—
Morioka	2.3	219	0 32 _k	- 1	0 52	- 7	—
Nemuro	2.6	45	0 52	P _g	1 21	S _g	—
Mizusawa	2.8	212	i 0 40	0	i 1 7	- 5	—
Akita	2.9	231	0 43	+ 2	1 11	- 3	—
Haboro	3.1	340	1 10	S	(1 10)	-10	—
Yamagata	3.9	214	0 55	- 1	—	—	—
Hokusima	4.3	210	0 59	- 2	1 43	- 7	—
Mito	5.5	203	1 16	- 2	2 14	- 6	—
Kakioka	5.8	205	1 18	- 4	2 24	- 4	—
Tukubasan	5.8	205	1 19	- 3	2 19	- 9	—
Takada	5.8	222	1 28	+ 6	—	—	—
Maebasi	6.0	213	1 28	+ 3	2 36	+ 3	—
Tyosi	6.0	197	1 27	+ 2	2 49	+16	—
Kumagaya	6.1	210	1 28	+ 1	2 38	+ 2	—
Nagano	6.2	220	1 29	+ 1	2 49	+11	—
Oiwake	6.2	216	1 30	+ 2	2 43	+ 5	—
Wazima	6.3	232	1 31	+ 1	2 40	- 1	—
Tokyo	6.4	205	1 33	+ 2	2 52	+ 9	—
Toyama	6.6	226	1 34	0	—	—	—
Yokohama	6.6	206	1 36	+ 2	2 43	- 5	—
Kohu	6.8	213	1 39	+ 2	2 58	+ 5	—
Mera	7.1	202	1 46	+ 5	3 10	+ 9	—
Misima	7.2	208	1 43	+ 1	—	—	—
Numadu	7.2	209	2 17	P _g	3 17	+13	—
Gihu	7.9	221	1 54	+ 2	3 25	+ 4	—
Ibukisan	8.0	223	1 54	+ 1	3 28	+ 4	—
Nagoya	8.0	219	e 1 53	0	3 37	+13	—
Kameyama	8.4	220	2 15	P*	—	—	—
Sumoto	E. 9.6	225	e 2 35	+19	e 4 28	S*	—
	N. 9.6	225	e 2 18	+ 2	e 4 24	S*	—
Grozny	67.4	308	e 11 11	+17	—	—	—
Piatigorsk	68.5	311	e 10 47	-14	—	—	—
Tiflis	68.9	308	11 13	+ 9	—	—	11.5
Sotchi	70.7	312	e 11 33	+18	—	—	—
Mount Wilson	z. 73.9	58	e 11 52	+18	—	—	—
Pasadena	z. 73.9	58	e 11 52	+18	—	—	—

Long waves also at Zi-ka-wei.

April 15d. Readings also at 0h. (Hong Kong and near La Paz), 1h. (La Paz), 2h. (Medan), 3h. (Andijan and near Manila), 4h. (Amboina), 6h. (near Manila (2) and near Nagoya), 7h. (St. Louis), 11h. (near Tananarive), 13h. (Ukiah and near Ferndale), 14h. (Frunse, Samarkand, Tiflis, Ksara, De Bilt, Granada, Rio de Janeiro, near Andijan, near Sebastopol, Simferopol, Theodosia, and Yalta), 15h. (Pasadena, Tinemaha, and near Tananarive), 18h. (near Tananarive), 20h. (Manila, Nanking (2), Hong Kong (3), Vladivostok, Tashkent, Sverdlovsk, and New Plymouth), 21h. (Pasadena, Mount Wilson, Tinemaha, Haiwee, Riverside, Tucson, Balboa Heights, Sverdlovsk, and Tashkent), 22h. (Mount Wilson, Pasadena, Sverdlovsk (2), Ksara, Vladivostok and near Mizusawa), 23h. (Tashkent and Tiflis).

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16d. 0h. 58m. 10s. Epicentre 8°·0N. 137°·5E. (as on 15d.). R.3.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	17.5	294	i 4 0 _a	0	8 36	L	(8.6)	—
Hukuoka B,	26.4	348	e 5 20	-13	—	—	15.6	—
Sumoto	26.5	358	e 5 37	+ 3	—	—	14.9	—
Hong Kong	26.6	306	5 29	- 6	10 8	- 1	13.0	17.3
Zi-ka-wei	z. 27.6	331	e 5 44	0	—	—	—	—
Nanking	29.7	327	6 9	+ 7	11 9	+10	e 17.2	—
Vladivostok	35.5	354	e 6 54	+ 1	—	—	—	—
Chiufeng	37.3	334	i 7 8 _a	- 1	13 2	+ 6	e 18.6	21.4
Tashkent	68.4	312	e 10 20	-41	i 20 1	- 1	e 34.0	35.8
Sverdlovsk	76.1	328	i 11 41	- 6	21 24	- 9	35.8	45.1
Baku	83.0	311	e 12 25	+ 2	e 22 48	+ 1	42.4	—
Grozny	85.8	314	e 12 37	0	—	—	—	—
Tifis	86.7	312	e 12 42	0	e 23 9	[- 2]	51.8	55.4
Moscow	88.9	327	—	—	23 18	[- 8]	e 50.7	58.2
Pulkovo	91.5	332	16 50	PP	23 36	[- 5]	48.8	58.2
Ksara	95.1	304	e 13 15	- 6	—	—	—	60.8
Copenhagen	101.9	331	—	—	25 50?	+ 7	49.8	—
Triest	106.6	322	e 22 11	PPPP	e 24 54	[- 3]	e 57.8	67.7
De Bilt	107.4	331	e 21 8	PPP	—	—	e 57.8	—
Paris	110.9	329	—	—	e 28 50?	PS	64.8	—

Additional readings:—

Sumoto ePE = +5m.43s., eZ = +12m.50s., eEN = +13m.55s.

Hong Kong SS = +11m.0s.

Nanking PP = +7m.3s.

Vladivostok PP = +8m.17s. = PPP - 1s.

Chiufeng iPP = +8m.43s. = PPP + 1s., i = +9m.57s.

Tashkent e = +20m.8s. = PS - 9s.

Tifis e = +23m.24s. and +26m.33s.

Moscow SS = +29m.50s.

Pulkovo PS = +25m.14s.

Ksara ePS = +26m.20s., ePPS = +26m.56s.

Triest e = +33m.48s. = SS + 16s.

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

April 16d. 13h. 59m. 37s. Epicentre 38°·0N. 20°·5E. (as on 15d.). X.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sofia	5.1	24	e 1 14	+ 1	—	—	—	—
Belgrade	6.8	0	e 2 0 _a	P*	i 3 17	S*	—	3.8
Bucharest	7.7	32	2 49	P _g	—	—	—	—
Zagreb	8.5	338	e 2 0	0	e 4 8	S*	—	4.7
Triest	9.1	329	e 2 9	0	e 3 36	-15	—	—
Laibach	9.2	333	—	—	e 3 55	+ 1	—	—
Budapest	9.5	355	—	—	e 4 23?	+22	5.4	—
Vienna	10.6	345	e 4 39	S	(e 4 39)	+11	—	—
Prague	12.8	342	—	—	e 5 59	+37	e 6.4	7.4
Ksara	13.1	104	—	—	e 7 11	S _g	—	—
Cheb	13.4	337	e 4 23?	?	—	—	e 7.2	7.5
Stuttgart	13.5	327	—	—	e 7 17	S _g	—	—
Strasbourg	14.0	323	—	—	e 7 56	S _g	—	—
Kew	19.8	319	—	—	e 7 23?	-39	—	—
Moscow	21.1	27	e 4 47	+ 6	e 7 55	-33	e 11.5	13.0
Pulkovo	22.6	13	4 57	0	e 8 47	-10	11.4	14.6

Additional readings:—

Belgrade e = +2m.12s. = P_g + 2s.

Bucharest PPE = +3m.13s., PPSEN = +3m.53s. = S* + 6s.

Triest iS = +3m.40s., i = +4m.52s. = S_g - 3s. and +5m.41s.

Laibach e = +4m.54s. = S_g - 4s. and +5m.8s.

Vienna eS = +5m.48s. = S_g + 4s.

Ksara e = +9m.19s. and +11m.27s.

Moscow e = +9m.13s.

Long waves were also recorded at Sverdlovsk, Tashkent, Tifis, and other European stations.

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April 16d. 14h. 3m. 42s. Epicentre 24°·0N. 125°·0E. N.3.

$$A = -.5240, B = +.7483, C = +.4067; \quad \delta = -7;$$

$$D = +.819, E = +.574; \quad G = -.233, H = +.333, K = -.914.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	3.3	290	e 0 44	- 3	1 17	- 8	—	2.0
Zi-ka-wei	z. 7.9	337	e 2 44	P _g	—	—	—	6.5
Nanking	9.8	328	e 2 32	+14	—	—	e 5.7	—
Hong Kong	10.1	263	4 21	S	(4 21)	+ 5	5.9	7.2
Manila	10.2	203	2 24	0	4 28	+10	—	—
Hukuoka B	10.7	25	e 2 25	- 6	e 7 1	?	—	—
Husan	11.6	17	—	—	e 6 8	S _g	e 10.5	—
Zinsen	13.6	5	—	—	e 6 34	S*	e 9.8	—
Keizyo	13.7	7	e 7 15	S _g	—	—	—	—
Chiufeng	17.7	337	e 4 11	+ 8	e 7 35	+18	e 9.1	13.0
Vladivostok	19.9	15	e 1 18	?	—	—	10.4	15.2
Sverdlovsk	56.1	324	e 9 53	+16	—	—	26.3	30.8
Tifis	67.3	307	—	—	e 28 28	?	38.8	43.8

Additional readings :—

Taihoku SN? = +1m.45s. = S_g + 2s.

Hong Kong S? = +5m.16s.

Sverdlovsk e = +12m.56s.

Long waves were also recorded at Calcutta, Baku, Taikyu, Phu-Lien, and some European stations.

April 16d. Readings also at 3h. (College and near Santiago), 5h. (Mount Wilson, Pasadena, Riverside, and Manila), 6h. (Sverdlovsk, Tashkent, and Vladivostok), 7h. (Mount Wilson, Pasadena, Sverdlovsk, Tashkent, near Manila, and near Sumoto), 8h. (Apia, Arapuni, Christchurch, Wellington, Sydney, Ksara, Mount Wilson, Pasadena, and Tinemaha), 9h. (Sebastopol, Simferopol, Theodosia, Yalta, Tifis, Pulkovo, Sverdlovsk, Tashkent, Huancayo, and Tucson), 10h. (Stuttgart, Paris, De Bilt, Copenhagen, and Scoresby Sund), 11h. (Nanking and near Taihoku), 13h. (Mizusawa), 16h. (Cape Town, La Paz, Ksara, Tashkent, Sverdlovsk, and near Manila), 17h. (Andijan, Frunse, Samarkand, Baku, Stuttgart, De Bilt, Copenhagen, and La Paz), 18h. (Calcutta, Vladivostok, Manila, and Sverdlovsk), 20h. (Chiufeng, Nanking, Phu-Lien, Taihoku, Hong Kong, Husan, Hukuoka B, Keizyo, Manila, Zi-ka-wei, Zinsen, Vladivostok, Tifis, Baku, Sverdlovsk, Tashkent, Calcutta, Pulkovo, De Bilt, Copenhagen, Strasbourg, Moscow, and Uccle), 21h. (Kew, Edinburgh, Scoresby Sund, Paris, Stuttgart, near Andijan, Frunse, and Samarkand).

April 17d. 3h. 19m. 11s. Epicentre 46°·0N. 6°·0E. (as given by Strasbourg). N.3.

$$A = +.6909, B = +.0726, C = +.7193; \quad \delta = +1;$$

$$D = +.105, E = -.995; \quad G = +.715, H = +.075, K = -.695.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Neuchatel	1.2	33	e 0 18	+ 1	e 0 30	- 1	—	—
Besançon	1.3	359	i 0 18	0	i 0 35	+ 2	—	—
Drôme	1.8	208	e 0 7	-19	i 0 33	-13	—	—
Basle	1.9	35	e 0 28	0	i 0 56	S*	—	—
Zurich	2.3	52	e 0 32	- 1	i 1 11	S _g	—	—
Chur	2.6	71	e 0 39	+ 2	e 1 19	S _g	—	—
Strasbourg	2.9	25	e 0 52	P _g	e 1 32	S _g	—	—
Ravensburg	3.0	54	e 1 13	?	e 1 34	S _g	—	—
Stuttgart	3.5	37	e 1 4	P _g	e 1 50	S _g	—	—
Paris	3.7	322	—	—	e 1 46	S _g	2.8	2.8
Uccle	4.9	348	e 1 32	P _g	e 2 35	S _g	—	—

Additional readings :—

Drôme i = +10s.

Basle eP_g = +31s.

Zurich e = +38s. = P* + 2s., iP_g = +40s.

Chur e = +45s. = P_g - 1s.

Strasbourg e = +1m.24s. = SS - 1s., eSS = +2m.2s., e = +2m.36s.

Paris e = +2m.1s. = P* - 1s.

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April 17d. 22h. 15m. 21s. Epicentre 28°·0N. 55°·7E. N.2.

A = +·4976, B = +·7294, C = +·4695; $\delta = +6$;
D = +·826, E = -·564; G = +·265, H = +·388, K = -·883.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	13·3	341	3 8	+ 2	5 43	+ 9	8·6	—
Samarkand	15·0	36	3 31	+ 3	e 7 31	+76	e 11·4	—
Erevan	15·3	326	4 19	+47	—	—	e 9·0	—
Tiflis	16·3	330	3 51	+ 6	6 55	+10	i 9·2	10·8
Grozny	17·3	335	3 52	- 6	—	—	—	—
Tashkent	17·3	37	i 3 58	0	e 7 21	+12	9·4	12·0
Ksara	17·9	294	i 4 5k	0	i 7 35	+13	—	—
Bombay	18·1	116	i 4 7	- 1	—	—	—	—
Tchimkent	18·2	34	e 4 13	+ 4	—	—	—	—
Andijan	18·7	43	e 4 16	+ 1	—	—	e 10·1	—
Piatigorsk	19·0	331	e 4 19	0	e 7 39	- 7	—	—
Setchi	20·2	325	4 35	+ 3	—	—	—	—
Frunse	21·3	40	e 4 49	+ 6	e 9 1	SS	—	—
Helwan	21·4	281	4 49	+ 5	8 41	+ 7	—	14·5
Almata	22·9	42	e 5 5	+ 5	—	—	—	—
Theodosia	23·5	322	4 59	- 6	9 15	+ 1	—	—
Yalta	23·8	319	e 5 7	- 1	9 24	+ 5	—	—
Simferopol	24·1	320	e 5 12	+ 1	9 32	+ 7	—	—
Sebastopol	24·2	319	5 13	+ 1	9 35	+ 8	—	—
Sverdlovsk	29·0	6	e 5 54	- 2	e 10 48	0	18·6	18·8
Calcutta	E. 30·0	92	—	—	e 11 44	+40	i 16·7	20·9
Moscow	30·6	339	e 6 10	0	e 11 9	- 5	—	—
Pulkovo	36·2	339	e 6 59	- 1	e 12 37	- 2	15·2	18·0
Copenhagen	41·4	324	—	—	14 3	+ 6	20·6	—

Additional readings:—

Tiflis e = +7m.29s. and +8m.9s.

Ksara SS = +10m.6s., PcS = +12m.10s., ScS = +15m.42s.

Sverdlovsk L_q = +15·8m.

Long waves were also recorded at Scoresby Sund and Stuttgart.

April 17d. Readings also at 0h. (La Paz, near Nagoya, and Sumoto), 2h. (near Tashkent), 6h. (near Apia), 10h. (Samarkand), 11h. (Oaxaca and Tacubaya), 12h. (Amboina), 13h. (near Tiflis), 14h. (La Paz, Pasadena, Riverside, and Tinemaha), 15h. (La Paz, La Plata, La Jolla, Mount Wilson, Pasadena, Riverside, and Tinemaha), 16h. (Alicante and San Juan), 17h. (Manila, Sverdlovsk, Tashkent, Tiflis, and Moscow), 18h. (Copenhagen and Tiflis).

April 18d. 17h. 11m. 58s. Epicentre 35°·5N. 140°·0E. X.

(as on 1936 April 8th, and near position suggested by Tokyo: 35°·54N. 140°·07E.)

A = -·6236, B = +·5233, C = +·5807; $\delta = -7$;
D = +·643, E = +·766; G = -·445, H = +·373, K = -·814.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Komaha	0·3	300	0 5	+ 1	0 15	+ 7
Tokyo	0·3	312	0 4	0	0 13	+ 5
Kamakura	0·4	243	0 9	+ 3	0 19	+ 9
Kiyosumi	0·4	157	0 4	- 2	0 12	+ 2
Mitaka	0·4	294	0 7	+ 1	0 17	+ 7
Tukubasan	0·7	11	0 7	- 3	0 17	- 1
Susaki	1·2	225	0 16	- 1	0 32	+ 1
Nagoya	2·5	262	0 39	+ 3	1 15	S*
Mizusawa	E. 3·7	14	—	—	e 1 7	P.

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April 18d. Readings also at 0h. (Apia, La Paz, Arapuni, Wellington, Christchurch, Huancayo, Ksara (2), Sverdlovsk, Moscow, Tiflis, Copenhagen, Stuttgart, and San Fernando), 1h. (Melbourne, College, Sitka, Scoresby Sund, Pulkovo, Tashkent, Tiflis, Copenhagen, and Baku), 2h. (Stuttgart and San Fernando), 5h. (Andijan, Christchurch, Mount Wilson, Pasadena, Riverside, and Tinemaha), 8h. (Drôme), 11h. (La Paz), 16h. (near San Javier), 17h. (La Paz), 19h. (Amboina, near Nagoya, and Sumoto), 20h. (near Triest (2) and Zagreb (2)), 22h. (La Paz).

April 19d. 5h. 7m. 19s. Epicentre $7^{\circ}5S$. $156^{\circ}5E$. N.1.

A = -0.9092, B = +0.3953, C = -0.1305; $\delta = -6$;
D = +0.399, E = +0.917; G = +0.120, H = -0.052, K = -0.991.

See Note at end.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Palau	26.5	303	5 35	+ 1	10 39	+32	—	—
Riverview	26.8	190	i 5 36	0	i 10 1	-11	—	26.1
Sydney	26.8	190	i 5 41	+ 5	i 10 11	- 1	12.7	21.0
Amboina	28.4	276	5 9	-42	e 9 41	-57	16.7	—
Apia	31.8	104	i 6 23	+ 2	11 41	+ 9	e 15.2	—
Adelaide	32.0	209	i 6 26	+ 3	i 11 11	-24	15.0	27.4
Melbourne	32.1	197	e 6 24	0	11 39	+ 2	14.7	23.2
Arapuni	35.1	154	6 41	- 9	12 16	- 7	16.7	17.7
New Plymouth	35.3	156	7 2	+10	—	—	20.7	—
Titizima	37.3	339	7 7	- 2	—	—	—	—
Wellington	37.5	158	7 8	- 3	12 46	-13	19.7	24.7
Christchurch	38.7	162	i 7 20 _a	- 1	i 13 17	0	—	—
Manila	41.6	302	i 7 45 _a	0	13 59	- 1	19.0	—
Hatidyozima	43.6	340	8 0	- 2	—	—	—	—
Naha	43.8	321	8 5	+ 2	14 54	+21	—	—
Nake	44.4	326	8 7 _a	- 1	14 43	+ 2	—	—
Isigakizima	44.8	317	8 7	- 4	—	—	—	—
Perth	45.0	232	i 8 16	+ 3	14 56	+ 6	21.9	38.7
Mera	45.2	341	8 14	0	15 2	+ 8	—	—
Siomisaki	45.4	336	8 16	0	14 42	-14	—	—
Ito	45.5	341	8 18	+ 1	—	—	—	—
Omaesaki	45.5	339	8 34	+17	—	—	—	—
Tyosi	45.7	343	8 20	+ 2	—	—	—	—
Misima	45.7	341	8 19	+ 1	—	—	—	—
Hamamatu	45.8	339	8 5	-14	—	—	—	—
Yokohama	45.8	341	8 33	+14	—	—	—	—
Kosyun	45.8	311	8 17	- 2	15 20	+18	—	—
Muroto	45.9	333	8 30	+10	—	—	—	—
Tokyo	46.0	341	8 24	+ 3	—	—	—	—
Simidu	46.1	332	8 19	- 2	—	—	—	—
Miyazaki	46.1	330	8 23	+ 2	—	—	—	—
Kohu	46.3	341	8 27	+ 4	—	—	—	—
Kakioka	46.3	343	8 23	0	—	—	—	—
Kagosima	46.3	329	8 21	- 2	—	—	—	—
Tu	46.3	338	8 21	- 2	—	—	—	—
Tukubasan	46.4	343	8 23	- 1	—	—	—	—
Wakayama	46.4	336	8 22	- 2	—	—	—	—
Yagi	46.4	337	8 16	- 8	—	—	—	—
Kameyama	46.4	338	8 20	- 4	15 19	+ 9	—	—
Karenko	46.4	314	8 27 _a	+ 3	15 14	+ 4	—	—
Mito	46.4	343	8 22	- 2	15 12	+ 2	—	—
Kumagaya	46.5	342	8 28	+ 3	—	—	—	—
Koti	46.5	333	8 24	- 1	15 23	+11	—	—
Iida	46.5	340	8 35	+10	—	—	—	—
Nagoya	46.5	339	8 23	- 2	—	—	e 18.6	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Osaka	46.6	336	8 16	- 9	—	—	—	—
Sumoto	46.6	336	8 21 ^a	- 4	—	—	e 18.4	20.4
Arisan	46.7	313	8 29	+ 3	—	—	—	—
Kobe	46.7	336	8 25	- 1	e 14 3	-71	e 18.3	20.6
Tainan	46.8	313	8 29	+ 2	—	—	—	—
Maebasi	46.8	342	8 33	+ 6	—	—	—	—
Kyoto	46.8	338	8 27	0	—	—	—	—
Hikone	46.8	338	8 29	+ 2	—	—	—	—
Gihu	46.8	339	8 24 ^a	- 3	—	—	—	—
Ibukisan	46.9	339	8 34	+ 6	—	—	—	—
Oiwake	47.0	340	8 25	- 4	15 21	+ 2	—	—
Tadotu	47.0	335	8 34	+ 5	—	—	—	—
Matuyama	47.1	333	8 29 ^a	0	15 17	- 3	—	—
Taihoku	47.1	314	8 27 ^a	- 2	15 16	- 4	19.0	25.2
Matumoto	47.1	340	8 30	+ 1	15 20	0	—	—
Kumamoto	47.2	341	8 30 ^a	0	—	—	—	—
Okayama	47.3	336	8 26	- 5	—	—	—	—
Takayama	47.3	340	8 37	+ 6	—	—	—	—
Unzendake	47.4	330	8 33	+ 1	15 34	+10	—	—
Nagano	47.4	340	8 34	+ 2	—	—	—	—
Miyadu	47.5	335	8 32	0	—	—	—	—
Toyooka	47.6	335	8 33	0	15 24	- 3	20.6	28.7
Nagasaki	47.6	330	8 31	- 2	15 28	+ 1	—	—
Hukushima	47.7	343	8 39 ^a	+ 5	—	—	—	—
Toyama	47.7	339	8 33	- 1	—	—	—	—
Kanazawa	47.8	339	8 25	-10	15 19	-11	—	—
Takada	47.8	341	8 47	+12	—	—	—	—
Tomie	48.0	327	8 36	0	—	—	—	—
Sendai	48.0	344	8 36	0	15 28	- 5	—	—
Hukuoka	48.0	341	e 7 5 ^a	-91	15 29	- 4	26.4	29.4
Hukuoka B	48.0	341	i 8 34 ^a	- 2	15 32	- 1	19.1	21.2
Niigata	48.3	342	8 31	- 7	—	—	—	—
Hamada	48.3	334	8 37	- 1	15 33	- 4	—	—
Wazima	48.3	340	8 38	0	—	—	—	—
Malabar	48.5	267	8 42	+ 2	i 15 40	0	—	—
Mizusawa	E. 48.8	344	e 8 53	+11	e 14 24	-80	19.8	—
	N. 48.8	344	e 8 42	0	e 14 15	-89	e 19.5	—
Batavia	49.3	268	i 8 42	- 4	i 17 53	?	e 22.7	—
Morioka	49.3	344	8 47	+ 1	15 52	+ 1	—	—
Akita	49.6	343	9 0	+12	16 30	+35	—	—
Husan	49.9	330	8 50	- 1	16 0	+ 1	—	—
Aomori	50.4	345	8 59	+ 5	16 27	+21	—	—
Taikyu	50.7	331	8 58	+ 1	16 13	+ 2	21.0	—
Hong Kong	51.1	307	8 58 ^k	- 2	16 22	+ 6	23.7	27.4
Urakawa	51.2	348	9 9	+ 9	16 24	+ 6	—	—
Zi-ka-wei	z. 51.2	321	i 9 1 ^k	+ 1	16 23	+ 5	26.7	35.6
Hakodate	51.4	345	8 41	-21	—	—	—	—
Nemuro	51.8	351	9 3	- 2	16 46	+21	—	—
Sapporo	52.4	347	9 10	+ 1	—	—	—	—
Keizyo	52.8	331	9 13	+ 1	16 38	- 1	—	24.2
Asahigawa	52.9	348	9 25	+12	—	—	—	—
Zinsen	52.9	330	i 9 14 ^a	+ 1	i 16 40	- 1	e 19.9	—
Honolulu	53.3	57	i 9 17	+ 1	i 17 3	+17	24.4	—
Nanking	53.5	319	i 9 8 ^a	-10	i 16 43	- 6	25.4	28.4
Haboro	53.6	348	9 31	+13	—	—	—	—
Heizyo	54.6	331	e 9 29	+ 3	e 15 11	?	21.3	26.2
Vladivostok	55.3	339	i 9 33	+ 2	i 17 16	+ 3	—	32.9
Phu-Lien	56.6	331	i 9 40	0	17 32	+ 1	24.7	30.8
Sikka	57.9	351	11 55	PP	—	—	—	—
Medan	58.7	279	e 9 54	- 1	—	—	e 32.7	—

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	Δ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	L. m.	M. m.
Chiufeng	60.4	326	i 10	5 _a	- 2	i 20	3	(+ 8)	23.5	30.9
Calcutta	E. 73.1	297	11	29	0	20	53	- 5	31.7	44.0
Colombo	77.8	278	11	54	- 3	21	46	- 6	42.7	45.6
Kodaikanal	80.7	282	i 12	11	- 1	22	26	+ 3	37.7	—
Hyderabad	81.0	289	12	12	- 1	22	19	- 7	38.4	51.9
College	83.2	21	e 11	19	-65	e 21	47	-62	e 34.7	—
Agra	83.3	299	12	21	- 4	i 22	37	-13	39.3	—
Dehra Dun	83.9	302	12	21	- 7	—	—	—	29.5	37.7
Sitka	84.8	31	i 12	34	+ 2	e 22	55	[- 3]	e 38.7	—
Bombay	86.5	290	i 12	41	0	i 23	15	[+ 5]	41.7	50.6
Semipalatinsk	87.2	322	12	44	0	e 23	6	[- 8]	31.7	—
Ukiah	87.3	51	e 12	43	- 2	e 23	46	+16	e 39.7	—
Almata	87.6	315	i 12	47	+ 1	e 23	22	[+ 5]	35.7	—
Berkeley	87.8	53	e 12	45	- 2	i 23	15	[- 4]	—	—
Lick	E. 88.1	53	e 12	49	+ 1	e 24	58	PS	—	—
Frunse	89.2	314	12	53	- 1	i 23	41	- 7	37.8	—
Victoria	89.2	41	e 12	46	- 8	i 23	38	-10	e 40.8	45.1
Fresno	N. 89.5	53	e 12	54	- 1	e 23	44	- 7	—	—
Seattle	89.7	43	—	—	—	e 23	23	[- 8]	e 41.7	—
Pasadena	90.4	56	i 12	59 _a	0	e 23	35	[0]	31.1	—
Mount Wilson	90.5	56	i 13	0 _a	0	e 23	56	- 5	—	—
Tinemaha	90.7	53	i 13	1	0	—	—	—	—	—
Haiwee	N. 90.8	54	e 13	4	+ 3	e 23	56	- 8	—	—
La Jolla	90.9	58	e 13	0	- 2	—	—	—	—	—
Riverside	91.0	56	i 13	2	0	e 24	12	+ 7	—	—
Samarkand	94.4	309	13	13	- 5	e 23	59	[+ 1]	e 46.2	—
Tucson	96.2	58	e 13	26	0	e 24	49	- 4	e 44.6	—
Bozeman	97.1	45	e 13	24	- 6	e 23	54	[-18]	e 44.9	—
Sverdlovsk	99.5	327	i 13	32	- 9	i 25	13	- 9	51.3 _R	57.5
Tananarive	105.2	248	—	—	—	25	3	[+12]	48.1	56.1
Tacubaya	N. 105.9	72	14	3	- 8	—	—	—	—	—
Baku	107.5	310	i 14	16	- 3	24	57	[- 5]	—	—
Des Moines	109.8	48	—	—	—	e 28	41	PS	e 59.7	—
Grozny	110.2	313	e 14	39	+ 7	—	—	—	—	—
Tiflis	111.1	312	14	33	- 3	25	41	[+23]	—	71.0
Erevan	111.6	310	e 19	17	PP	e 25	41	[+21]	—	—
Little Rock	111.6	56	e 18	39	[+16]	26	20	{+ 2}	e 46.3	56.4
Piatigorsk	112.0	315	e 20	20	?	—	—	—	52.2	—
Moscow	112.2	327	e 14	34	- 6	e 25	55	[+32]	e 48.2	63.0
Madison	112.6	46	e 19	17	PP	e 25	31	[+ 6]	e 52.7	59.7
Florissant	E. 112.7	52	e 14	39	- 5	i 25	15	[-10]	1 52.3	62.4
St. Louis	112.8	52	e 19	17	PP	e 28	48	PS	e 49.4	—
Pulkovo	114.0	334	i 14	43	- 7	—	—	—	52.7	61.8
Chicago	114.2	47	i 19	30	PP	e 25	33	[+ 2]	e 50.8	—
Ann Arbor	116.9	46	e 19	53	PP	—	—	—	e 50.6	75.0
Scoresby Sund	117.0	359	14	57	P	e 25	13	[-28]	46.7	—
Theodosia	117.0	317	e 18	42	[+ 4]	i 25	35	[- 6]	40.7	—
Cincinnati	117.1	50	i 19	49	PP	e 29	41	PS	62.7	—
Simferopol	117.9	318	e 18	54	[+14]	e 30	21	PS	35.7	—
Yalta	118.0	317	e 18	53	[+12]	i 25	46	[+ 2]	39.7	—
Sebastopol	118.4	318	e 18	55	[+13]	e 30	11	PS	41.4	—
Upsala	119.2	337	e 20	4	PP	i 36	27	SS	e 50.7	60.4
Santiago	119.4	136	—	—	—	e 27	41	{+29}	—	—
Ksara	119.5	306	i 15	9 _a	- 9	30	4	PS	—	—
Toronto	119.5	44	20	6	PP	29	22	PS	57.7	—
Columbia	120.9	55	e 20	53	PP	e 29	45	PS	e 59.7	—
Königsberg	121.2	332	i 20	23	PP	e 27	14	{-10}	e 55.0	—
Ottawa	121.3	41	e 20	21	PP	i 30	21	PS	e 55.7	—
Charlottesville	121.9	50	e 20	21	PP	e 26	27	[+31]	e 50.1	—
Ithaca	121.9	44	e 19	53	PP	—	—	—	e 58.7	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Lemberg	122.1	325	e 19 6	[+16]	e 32 58	?	e 46.1	68.9
Cape Town	122.6	221	i 20 36	PP	i 30 19	PS	—	64.7
Georgetown	122.7	48	e 18 55	[+ 3]	—	—	—	—
Bergen	122.9	343	e 15 23	-10	—	—	e 53.7	76.2
Ivigut	123.2	14	20 31	PP	30 31	PS	52.7	—
Vermont	123.3	41	i 20 36	PP	e 31 4	PS	i 57.3	—
Bucharest	123.4	320	e 20 37	PP	e 25 57	[- 3]	51.7	59.7
Philadelphia	123.7	47	e 20 26	PP	e 25 45	[-16]	56.8	—
Copenhagen	124.1	336	18 57	[+ 2]	e 26 41	[+39]	52.7	—
Helwan	124.1	301	e 15 26	-13	i 19 34	?	—	—
Fordham	124.3	45	e 20 46	PP	e 28 25	{+40}	62.2	—
Huancayo	124.9	111	e 18 58	[+ 2]	—	—	e 64.8	—
Oak Ridge	125.2	43	i 19 0	[+ 3]	i 27 40	{-10}	e 60.7	—
Budapest	126.1	325	e 19 1	[+ 2]	30 53	PS	e 54.7	71.2
La Plata	126.6	145	20 59	PP	—	—	65.7	—
Hamburg	126.6	336	e 19 1	[+ 1]	—	—	e 53.7	63.7
Belgrade	126.7	321	e 19 0	[- 1]	—	—	e 57.9	—
Prague	127.0	330	e 18 58	[- 3]	e 27 47	{-15}	e 52.7	63.7
Vienna	127.2	327	e 19 3	[+ 2]	—	—	e 57.7	65.7
Jena	127.8	332	e 19 3	[0]	—	—	e 55.7	80.7
Cheb	128.0	332	e 21 8	?	e 32 54	?	e 59.7	63.7
Göttingen	128.1	334	i 19 3	[0]	e 25 5	[-69]	e 52.7	64.7
Graz	128.4	326	e 19 4	[0]	e 31 12	PS	63.7	81.2
Zagreb	128.8	325	e 19 5	[0]	—	—	e 53.0	67.8
Edinburgh	129.0	345	e 20 26	?	i 27 17	[+61]	54.7	81.3
Laibach	129.5	326	e 19 15	[+ 9]	e 27 27	[+69]	e 63.7	—
De Bilt	129.6	337	e 15 59	- 5	—	—	e 55.7	61.5
Durham	129.6	343	21 18	PP	—	—	—	74.7
La Paz	129.7	120	i 19 8 _a	[+ 2]	i 26 4	[-14]	64.0	115.3
Triest	130.2	326	e 18 59 _k	[- 8]	i 26 25	[+ 5]	i 54.0	63.1
Stuttgart	130.4	332	19 8 _a	[0]	—	—	e 59.7	81.7
Stonyhurst	130.6	344	i 21 28	PP	i 31 10	PS	56.7	65.2
Karlsruhe	130.6	333	21 10	PP	e 32 10	PS	e 62.7	—
Uccle	130.9	337	19 9	[0]	i 26 19	[- 3]	e 55.7	61.3
Strasbourg	131.2	333	i 19 8 _a	[- 1]	e 26 5	[-18]	e 52.7	82.7
Bidston	131.2	344	i 21 30	PP	e 27 52	{-37}	—	71.9
Port au Prince	131.3	72	e 21 32	PP	e 26 19	[- 4]	—	—
Padova	131.3	327	e 22 20	PKS	35 40	?	e 64.7	67.7
Chur	131.6	331	e 19 9	[- 1]	—	—	—	—
Zurich	131.7	332	e 19 18	[+ 8]	—	—	—	—
Basle	132.0	332	e 19 10	[0]	—	—	—	—
Kew	132.1	340	i 19 11	[+ 1]	e 28 9	{-26}	64.7	72.2
Neuchatel	132.7	332	e 19 12	[+ 1]	—	—	—	—
Florence	132.7	325	18 36	[-35]	—	—	—	—
Besançon	133.0	333	e 22 41 _?	PKS	—	—	e 52.7	—
Paris	133.2	337	e 16 8	-15	33 26	PS	54.7	60.7
San Juan	137.2	71	e 19 21	[+ 3]	e 32 56	PS	e 57.7	—
Bagnères	138.8	333	e 18 35	[-45]	—	—	e 54.7	90.7
Barcelona	139.2	331	e 19 1	[-19]	—	—	e 57.9	71.4
Algiers	142.0	324	e 19 29	[+ 5]	25 33	SKS	58.7	78.7
Rio de Janeiro	144.0	148	i 19 29	[- 2]	(i 41 1)	SS	i 41.0	—
Almeria	145.0	331	i 19 31	[- 3]	26 38	SKS	e 65.4	105.9
Granada	145.2	332	i 19 34	[0]	—	—	—	—
Malaga	146.0	332	19 37	[+ 1]	—	—	66.7	—
San Fernando	147.0	334	i 19 40	[+ 3]	26 47	SKS	66.2	77.7

Additional readings:—

Riverview $i = +5m.44s.$, $iEN = +10m.29s.$, $iN = +11m.48s.$, $iE = +11m.56s.$, $+12m.43s.$, $+13m.26s.$, and $+14m.40s.$, $iN = +12m.46s.$, $+15m.40s.$, and $+17m.29s.$

Ambolna $iE = +10m.2s.$, $+10m.11s.$, and $+13m.35s.$

Apia $PP = +7m.32s.$, $P_0P = +9m.4s.$, $iSS = +13m.45s.$; $T_0 = 5h.7m.12s.$

Adelaide $iPP = +7m.15s.$, $iSS = +12m.8s.$, $i = +14m.7s.$

Melbourne $i = +7m.23s. = PP - 1s.$, $+7m.37s.$, and $+11m.23s.$, $SS = +13m.36s.$

Continued on next page.

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Arapuni SS = +14m.41s., iL_q? = +15m.45s.
 Wellington P = +7m.32s., PP? = +8m.49s., SS = +15m.47s., L_q = +17m.21s.
 Manila iE = +15m.0s.
 Perth PP = +9m.41s., PPP = +10m.21s., SS = +17m.53s., i = +18m.3s. =
 S_cS - 9s., +18m.21s.
 Sumoto e = +12m.35s.
 Kobe ePE = +8m.4s., eSZ = +14m.19s., eN = +15m.8s., eE = +15m.11s.
 Toyooka eSE = +15m.39s.
 Malabar i = +18m.37s. = S_cS + 2s.
 Husan PPP? = +12m.29s.
 Hong Kong P_cP = +9m.43s., ? = +17m.8s., SS = +18m.54s., SSS = +22m.8s.
 Zi-ka-wei iZ = +9m.51s., PPZ = +11m.15s., PPPZ = +12m.13s., PPPPZ =
 +12m.37s., iZ = +12m.56s. and +19m.59s., SSZ = +20m.23s., SSSZ =
 +22m.1s., SSSSZ = +22m.39s.
 Keizyo iEN = +13m.15s.
 Honolulu i = +12m.17s. = PPP + 7s. and +12m.53s., eSS = +19m.32s.
 Nanking iSE = +16m.51s., PSN = +17m.13s., SS = +19m.59s., SSS = +22m.53s.
 Chiufeng PP = +11m.39s., iSZ = +16m.41s., iSEN = +16m.49s.
 Calcutta PPPE = +15m.45s. = PPP + 3s., SSSE = +28m.25s.
 Kodaikanal SSS? = +32m.58s.
 College ePP = +15m.56s., ePS = +22m.41s., eSS = +26m.48s.
 Agra PPE = +15m.30s., PPPE = +17m.24s., SSEN = +28m.4s., SSSE =
 +31m.38s.
 Sitka iPP = +15m.48s., eSS = +28m.59s.
 Bombay PSEN = +24m.1s., SSEN = +29m.1s., SSSE = +32m.19s.
 Ukiah e = +21m.26s., ePS = +24m.38s., e = +35m.59s.
 Berkeley eE = +23m.27s. = S - 8s., ePSN = +24m.7s.
 Lick eN = +12m.54s.
 Fresno eN = +17m.29s.
 Seattle eS = +23m.59s., eSS = +29m.43s.
 Pasadena iPPE = +16m.57s., iPPPN = +18m.44s., eE = +24m.0s. = S + 0s.,
 iSNZ = +24m.9s., ePSE = +25m.5s.
 Mount Wilson iZ = +15m.12s.
 Tinemaha iZ = +15m.50s., eN = +17m.23s.
 Riverside eE = +23m.27s. = SKS - 12s.
 Tucson ePP = +17m.29s., ePS = +26m.22s., eSS = +31m.53s., e = +40m.11s.
 Bozeman ePP = +17m.20s., e = +24m.16s. = SKS + 4s., PS = +26m.27s., SS =
 +31m.55s., SSS = +35m.29s.
 Sverdlovsk iPP = +17m.39s., iSKS = +24m.13s., iPS = +26m.39s., iPPS =
 +27m.29s., iSS = +32m.17s., L_q = +41m.35s.
 Tananarive SKKS = +25m.39s., eN = +29m.41s., SSN = +33m.17s., SSE =
 +33m.26s., SSSE = +37m.13s., SSSN = +37m.21s. and N = +43m.17s.
 Baku PP = +18m.54s., PS = +28m.0s.
 Des Moines eSS = +34m.53s., eSSS = +39m.31s., e = +56m.41s.
 Grozny e = +19m.7s. = PP + 8s.
 Tiflis e = +16m.10s., iPP = +19m.10s., PPP = +22m.6s., PS = +28m.36s.,
 e = +36m.11s.
 Little Rock iPPE = +19m.14s., ePPPE = +21m.41s., eSEN = +27m.2s., eE =
 +27m.23s., iPSE = +28m.48s., ePSN = +28m.52s., ePPSE = +29m.51s.,
 eE = +32m.5s., eN = +32m.18s., eSSE = +35m.18s.
 Moscow ePP = +19m.11s., ePS = +28m.38s., SS = +34m.47s.
 Madison ePS = +28m.54s., ePPS = +30m.1s., eSS = +35m.31s., e = +37m.55s.,
 eSSS = +39m.31s.
 Florissant ePKPZ = +18m.28s., iPPEZ = +19m.19s., iSKPEZ = +21m.0s.,
 iPPPE = +21m.58s., iE = +26m.11s., iSKKSEN = +26m.27s., iSEN =
 +27m.28s., iPSE = +28m.47s., IPSZ = +28m.50s., iPPSN = +29m.43s.,
 iPPPSSEN = +30m.56s., iSSE = +35m.0s., iSSSE = +39m.21s.
 Pulkovo iPP = +19m.25s., SS = +35m.29s., L_q = +45m.41s.
 Chicago ePS = +29m.8s., iSS = +36m.0s., eSSS = +39m.48s., e = +41m.44s.
 Ann Arbor ePP = +21m.11s., e = +29m.41s., ePS = +31m.5s., eSS = +36m.59s.,
 eSSS = +40m.59s.
 Scoresby Sund iPP = +19m.51s., eNZ = +21m.15s., +22m.5s. = PPP - 6s.,
 e = +26m.23s., eZ = +28m.35s., PS = +29m.41s., PPS = +30m.53s., SS =
 +36m.35s., SSS = +40m.41s.
 Ksara PKP = +18m.44s., PP = +20m.6s., PPS = +31m.20s., SS = +36m.34s.
 Toronto SS = +36m.14s.
 Columbia eSS = +35m.49s., e = +49m.53s. and +50m.58s.
 Königsberg iN = +23m.15s., iE = +28m.2s., eE = +29m.25s. and +30m.1s. =
 SKSP - 3s., eN = +30m.25s. = PS + 13s., iE = +31m.39s., eE = +34m.54s.,
 eN = +37m.4s., eE = +37m.35s., iN = +38m.35s., eN = +42m.57s., iN =
 +45m.44s., eE = +48m.12s., eN = +48m.57s.
 Ottawa e = +37m.41s. ?
 Charlottesville e = +28m.55s., ePS = +30m.16s., eSS = +36m.59s.
 Cape Town e = +4m.50s., i = +11m.59s., +12m.46s., e = +23m.36s., N =
 +27m.28s. = SKKS - 6s., i = +29m.7s., iE = +31m.1s., N = +31m.53s.,
 +33m.21s., e = +37m.22s. = SS + 17s., +41m.41s. = SSS + 14s., eE =
 +45m.7s., eN = +45m.21s.

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Georgetown iPP = +20m.30s.
 Bergen iPP = +20m.31s., e = +32m.28s. and +50m.3s.
 Ivigtut eE = +22m.11s., eN = +24m.53s. = PPPP + 5s., SS = +37m.23s.,
 +38m.11s., SSS = +41m.41s., +42m.35s.
 Bucharest eN = +21m.1s. and +23m.45s., eEN = +26m.41s., eE = +26m.55s.
 Vermont e = +30m.24s., eSS = +37m.26s., e = +40m.41s., +49m.29s., and
 +53m.41s.
 Philadelphia iPP = +20m.36s., iPS = +30m.23s., i = +34m.15s., iSS = +37m.33s.
 Copenhagen PP = +20m.36s., e = +21m.27s., +22m.5s., PSN = +30m.21s.,
 eE = +30m.35s., SS = +36m.41s. ?, SSS = +42m.11s.
 Fordham iPS = +30m.43s., e = +38m.15s., +54m.15s.
 Huancayo e = +19m.13s., ePP = +20m.50s., e = +22m.49s., eSS = +37m.49s.
 Oak Ridge iPEZ = +20m.48s., iZ = +20m.57s., iSKPZ = +22m.8s., PPPP =
 +23m.19s. = PPP + 0s., iZ = +25m.36s. and +26m.35s., eE = +27m.16s.,
 SKKS = +27m.40s., eSSN = +31m.14s., ePPSN = +32m.13s., ePPSZ =
 +32m.18s., eE = +33m.22s., eSPSE = +34m.37s., eSPSN = +34m.41s.,
 eN = +38m.24s., eE = +38m.30s.
 Hamburg eEN = iZ = +21m.0s. = PP + 6s., iE = +36m.51s., eE = +46m.59s.
 Belgrade e = +20m.53s. = PP - 2s., +23m.43s. = PPP + 12s., +34m.21s., and
 +38m.30s. = SS + 33s.
 Prague ePP = +20m.53s., ePS = +31m.11s., ePPS = +32m.41s., eSS = +38m.23s.
 eSSS = +43m.29s.
 Vienna PP = +21m.43s., SKP = +22m.38s., PPP = +24m.59s.
 Jena ePN = +19m.11s., e = +20m.56s. = PP - 7s., iE = +21m.8s., e = +32m.41s.
 Göttingen eE = +19m.23s., eN = +20m.41s., eEZ = +21m.11s. = PP + 8s.
 Zagreb ePNW = +19m.11s., eNEZ = +21m.20s. = PP + 1s., eP = +22m.23s.,
 ePPZ = +25m.15s., eZ = +32m.57s., ePSNE = +34m.3s., ePPSZ =
 +35m.29s., eSS = +39m.35s., eSPS = +40m.15s.
 Edinburgh i = +29m.50s., +30m.42s., +34m.8s., +38m.36s. = SS + 9s., and
 +38m.46s.
 Laibach i = +22m.29s. = PKS and +23m.44s.
 De Bilt iZ = +19m.7s. = PKP + 1s., e = +21m.16s. = PP + 1s., iEN = +22m.31s.
 = PKS.
 La Paz iN = +19m.31s., iEZ = +19m.51s., iPEZ = +21m.18s., iSKPE =
 +22m.31s., iPPN = +23m.41s., iSKSZ = +25m.53s., iSKKS = +28m.8s.,
 iSKSP = +31m.5s., iPPS = +33m.37s., iZ = +34m.21s., iSSZ = +39m.37s.,
 iSSSZ = +44m.24s., iSSS = +47m.34s.
 Trieste i = +19m.14s., iPP = +21m.20s., i = +21m.53s., iSKP = +22m.30s.,
 i = +23m.5s., +23m.9s., +23m.45s., +25m.22s., +25m.27s., +27m.15s.,
 +32m.52s., and +34m.7s., iSS = +39m.3s., i = +40m.9s. and +43m.13s.
 Stuttgart ePZ = +15m.59s., ePKP = +19m.47s., ePP = +21m.23s., ePKS =
 +22m.33s., ePPS = +33m.9s., eSSN = +38m.53s.
 Stonyhurst i = +22m.25s. = PKS - 11s., eSS = +39m.10s., i = +41m.36s.
 Karlsruhe ePP = +24m.35s.
 Uccle iPP = +21m.25s., iPKSEN = +22m.35s., iE = +26m.28s., iPPSN =
 +33m.21s.
 Strasbourg iPP = +21m.25s., iSKP = +22m.35s., iSKKS = +28m.25s., i =
 +33m.13s., iSS = +39m.28s., SSS = +43m.39s., SSSS = +48m.1s.
 Bidston iPKS = +22m.19s., iSKSP = +31m.22s., iPPS = +32m.57s., eSS =
 +38m.52s., iSSS = +45m.52s.
 Port au Prince eSKP = +22m.33s., ePPP = +24m.47s.
 Chur ePP = +22m.33s. = PKS - 7s.
 Zurich ePP = +22m.37s. = PKS - 4s., e = +23m.24s.
 Basle ePP = +22m.38s. = PKS - 4s.
 Kew eP = +16m.6s., iPP = +21m.35s., iPKS = +22m.39s., iEN = +23m.25s.,
 iSKSPEN = +31m.39s., iPPSEN = +33m.28s., eSSN = +39m.11s.,
 iSKSPE = +41m.25s., iSSSEN = +45m.47s., iSSSZ = +45m.51s., eN =
 +49m.43s.
 Neuchatel ePP = +22m.35s. = PKS - 10s.
 Paris iPKP = +19m.12s., PP = +21m.39s.
 San Juan ePP = +22m.33s., ePPP = +26m.11s., eSS = +38m.28s.
 Bagnères eI = +17m.27s., e = +22m.11s. = PP - 3s. and +24m.2s. = PKS - 4s.
 Algiers PP = +21m.29s., SKKS = +27m.22s., PPS = +32m.32s., SSS =
 +41m.9s. = SS + 3s.
 Almeria PP = +21m.43s.
 Granada SKP = +23m.15s.
 Malaga i = +20m.3s., +20m.11s., and +21m.27s., PP = +22m.28s., e =
 +34m.35s. and +36m.52s., SS = +40m.45s., SSS = +46m.7s.
 San Fernando iPP = +21m.53s., PPP = +25m.23s., SS = +40m.22s.
 Long waves at Guadalajara, Pennsylvania, Sochi, and Hof.

NOTE.—The epicentre was deduced by comparison with 7° 8S. 156° 3E. of 1935 March 20d. The position is not an approximate one, although the latitude and longitude happen to be exact multiples of half a degree.

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April 19d. 9h. 4m. 5s. Epicentre 10°·5N. 92°·5E. (as on 1925 May 13d.). R. .

A = -·0429, B = +·9823, C = +·1822; $\delta = -5$;
D = +·999, E = +·044; G = -·008, H = +·182 K = -·983.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Medan	9·2	138	2 14	+ 4	i 4 6	+12	—	—
Calcutta	E. 12·7	342	e 3 2	+ 4	5 32	+12	6·3	12·0
Colombo	13·0	255	3 2	0	6 12	S*	7·1	7·8
Kodaikanal	E. 14·8	270	i 4 27	+61	8 22	?	—	—
Hyderabad	15·3	299	3 35	+ 3	7 12	+50	10·3	14·6
Phu-Lien	17·0	51	3 54	0	e 7 2	0	7·9	—
Bombay	20·8	296	i 4 45	+ 7	i 8 54	SS	11·4	17·1
Agra	21·5	322	4 45	0	i 8 46	+10	10·6	13·0
Batavia	22·0	139	5 4	+13	—	—	e 10·9	—
Malabar	23·2	139	e 5 35	PP	—	—	e 11·9	—
Hong Kong	23·9	58	5 7 ^a	- 2	9 10	-11	11·7	17·0
Dehra Dun	24·0	327	5 25	+15	10 5	SS	12·1	14·9
Manila	28·1	78	5 45 ^k	- 3	10 56	+22	14·4	—
Tainan	29·3	61	6 12	+13	—	—	—	—
Kosyun	29·4	63	5 59	- 1	—	—	—	—
Arisan	29·9	61	6 13	+ 9	—	—	—	—
Taito	30·0	62	5 38	-27	—	—	—	—
Karenko	30·8	61	7 31	PP	—	—	—	—
Nanking	32·4	44	6 18	- 8	11 28	-13	16·1	17·5
Zi-ka-wei	z. 33·9	47	e 6 37	- 2	12 3	- 1	19·4	29·9
Andijan	35·1	332	e 6 52	+ 2	e 12 31	+ 8	e 19·6	—
Almata	35·4	340	e 6 55	+ 2	e 12 28	+ 1	19·4	—
Frunse	36·0	336	6 58	0	e 12 38	+ 2	20·4	—
Chiufeng	36·2	30	e 6 58	- 2	i 12 35	- 4	17·0	23·5
Samarkand	36·9	325	e 7 6	0	—	—	19·9	—
Tashkent	37·0	329	i 7 6	0	e 12 24	-27	20·1	19·7
Tchimkent	37·6	331	e 7 19	+ 7	—	—	—	—
Amboina	38·2	109	6 33	-44	12 17	-52	e 16·9	—
Nake	39·0	57	7 18	- 6	—	—	—	—
Zinsen	40·8	42	e 7 40	+ 1	e 13 42	- 6	e 19·7	—
Nagasaki	40·9	51	7 36	- 4	—	—	—	—
Keizyo	41·1	43	e 7 42	+ 1	13 55	+ 2	20·3	—
Sempalatinsk	41·2	348	e 7 39	- 3	e 13 53	- 1	17·6	—
Unzendake	41·2	51	7 41	- 1	—	—	—	—
Husan	41·3	46	e 7 27	-16	e 13 54	- 2	e 19·7	—
Taikyu	41·4	45	e 7 22	-22	e 13 54	- 3	e 32·2	—
Hukuoka	41·7	50	e 10 52	?	—	—	—	—
Hukuoka B	41·7	50	e 7 58	+12	e 14 10	+ 8	—	—
Matuyama	43·5	51	8 13	+12	—	—	—	—
Hamada	43·5	49	8 4	+ 3	—	—	—	—
Sumoto	45·4	51	—	—	e 16 33	?	e 24·5	28·4
Kobe	45·7	51	e 8 17	- 1	e 15 14	+14	e 19·7	31·2
Vladivostok	47·2	39	e 8 31	+ 1	e 15 22	+ 1	22·8	31·4
Baku	48·0	317	i 8 38	+ 2	15 47	+14	24·4	—
Nagano	48·7	49	8 58	+17	—	—	—	—
Erevan	51·7	313	9 50	+46	—	—	28·9	—
Tiflis	52·0	315	i 9 8	+ 2	e 16 33	+ 5	26·1	37·6
Grozny	52·0	317	9 13	+ 7	16 36	+ 8	33·4	—
Sverdlovsk	52·4	340	i 9 6	- 3	i 16 31	- 3	25·9	33·1
Tananarive	53·2	237	—	—	16 37	- 8	e 22·4	28·6
Sotchi	56·2	316	e 9 40	+ 3	—	—	—	—
Ksara	56·6	302	i 9 42 ^a	+ 2	18 0	+29	28·9	35·6
Theodosia	59·6	316	e 10 1	- 1	18 13	+ 2	35·9	—
Helwan	59·9	298	e 10 5	+ 1	—	—	—	37·6
Yalta	60·3	315	i 10 3	- 4	e 18 17	- 3	23·9	—

Continued on next page.

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	Δ	Az.	P.	O-C ₁	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Simferopol	60.4	316	10 7	0	e 18 23	+ 2	25.9	—
Sebastopol	60.7	315	10 9	0	e 18 57	PS	—	—
Moscow	62.1	328	e 10 16	- 3	e 18 39	- 4	e 34.4	39.8
Adelaide	63.0	138	e 13 6	?	i 18 46	- 9	27.6	39.8
Bucharest	65.9	316	e 10 43	- 2	11 25	P _c P	—	37.9
Pulkovo	67.2	332	i 10 50	- 3	i 19 41	- 6	37.4	41.6
Melbourne	68.8	137	—	—	e 19 51	-16	34.0	43.9
Königsberg	71.0	325	—	—	i 20 31	- 2	e 40.3	—
Budapest	71.1	317	e 10 55?	-22	e 19 55?	-39	e 39.9	42.9
Riverview	71.1	131	—	—	i 20 30	- 4	e 32.9	43.7
Vienna	73.0	320	e 11 27	- 2	e 20 42	-15	e 41.9	—
Zagreb	73.1	315	e 11 27	- 2	e 25 55?	SS	—	41.9
Upsala	73.4	329	e 11 28	- 3	e 20 55?	- 6	e 35.9	44.7
Graz	73.5	315	i 11 27	- 5	e 20 55	- 8	e 29.9	51.6
Prague	74.3	319	—	—	e 21 1	-11	e 39.9	52.9
Triest	74.7	314	e 11 31	- 8	21 16	- 1	—	42.8
Cheb	75.6	319	e 11 47	+ 3	e 20 38	-49	e 43.9	45.9
Copenhagen	75.7	325	11 47	+ 3	21 12	-16	37.9	—
Padova	76.0	315	e 11 51	+ 5	21 55	PS	—	—
Jena	76.1	320	e 11 49	+ 2	e 21 26	- 7	e 38.9	47.9
Florence	76.5	313	11 35	-14	—	—	—	—
Hamburg	77.2	324	e 11 50 _a	- 3	e 21 42	- 3	e 39.9	43.9
Göttingen	77.2	321	e 11 43	-10	e 21 37	- 8	e 39.9	43.9
Chur	77.6	316	e 11 52	- 3	—	—	—	—
Stuttgart	77.7	318	e 11 54 _a	- 2	e 21 44	- 7	e 42.9	—
Zurich	78.2	316	e 11 56	- 2	—	—	—	—
Strasbourg	78.7	319	i 12 0 _a	- 1	i 21 51	-11	e 35.9	—
Basle	78.9	316	e 12 0	- 2	—	—	—	—
Bergen	79.5	330	—	—	21 47	-23	e 39.9	47.9
De Bilt	80.1	322	12 8	0	22 10	- 7	e 43.9	47.0
Uccle	80.7	321	12 17 _a	+ 5	22 15	- 8	e 32.9	—
Paris	82.1	320	e 12 16	- 3	e 22 28	- 9	45.9	53.9
Cape Town	83.0	233	i 12 28	+ 5	i 22 46	- 1	35.9	42.4
Algiers	83.3	306	e 12 24	- 1	e 27 10	SS	46.4	48.9
Kew	83.5	321	e 12 25	- 1	e 22 41	[- 7]	e 39.9	48.7
Durham	83.8	325	—	—	22 50	[0]	—	58.9
Edinburgh	84.5	326	e 13 55?	+84	i 23 3	0	42.9	54.1
Bidston	84.9	323	e 11 11	-82	e 22 16	[-42]	—	—
Rathfarnham Castle	86.8	324	e 11 37	-65	i 23 20	- 5	—	55.9
Almeria	87.5	309	e 12 42	- 3	e 23 31	- 1	e 56.1	—
Scoresby Sund	88.0	343	12 52 _a	+ 4	23 49	+12	40.9	—
Granada	88.4	309	e 12 32	-18	22 56	[-27]	—	—
Malaga	89.2	308	12 53	- 1	23 41	- 7	40.4	—
San Fernando	90.7	309	—	—	23 59	- 4	47.9	—
Wellington	91.1	132	—	—	i 23 49	[+10]	42.9	53.9
College	92.4	22	—	—	e 22 31	[-76]	e 44.4	—
Bozeman	120.0	19	—	—	e 34 1	?	e 58.0	—
Ottawa	123.1	350	—	—	e 28 25	?	e 52.9	—
Vermont	123.5	348	—	—	e 28 15	PS	e 42.2	—
Tinemaha	z. 124.3	30	e 18 55	[0]	—	—	—	—
Mount Wilson	z. 126.7	32	i 19 0	[0]	—	—	—	—
Pasadena	126.7	32	e 18 59	[- 1]	—	—	—	—
Riverside	z. 127.2	31	e 19 1	[0]	—	—	—	—
Philadelphia	128.3	348	—	—	i 37 59	SS	e 52.5	—
Florissant	n. 130.6	3	e 21 24	PP	i 28 16	{- 9}	e 54.2	72.3
St. Louis	e. 130.8	3	i 22 29	PKS	—	—	—	—
Tucson	131.8	27	e 22 28	PKS	—	—	e 63.9	—
Little Rock	e. 134.5	6	e 21 36	PP	—	—	e 81.9	—
Río de Janeiro	136.0	248	e 22 8	PP	(e 39 55)	SS	e 39.9	—
San Juan	144.2	324	e 19 30	[- 2]	—	—	e 71.9	—
La Paz	160.3	250	i 20 3k	[+ 9]	i 27 5	SKS	80.3	88.5
Huancayo	168.0	261	e 20 5	[+ 3]	e 31 34	{-27}	e 46.1	—

For Notes see next page.

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NOTES TO APRIL 19d. 9h. 4m. 5s.

Additional readings :—

Medan iN = +5m.46s. and +8m.17s., iE = +8m.20s.
 Bombay iPPEN = +5m.9s., SSEN = +9m.54s.
 Hong Kong PP = +5m.32s., P₀P = +8m.47s., SS = +9m.51s.? = +10m.41s.
 Nanking iPPP = +7m.36s., iSSE = +11m.56s.
 Zi-ka-wei iZ = +8m.5s. and +12m.37s.
 Chiufeng iPPZ = +8m.29s., iZ = +12m.42s.
 Tashkent ePP = +8m.16s., i = +13m.40s., e = +16m.22s.
 Sumoto eN = +16m.51s., eZ = +27m.24s.
 Kobe ePN = +8m.46s., eN = +13m.15s.
 Tiflis i = +10m.50s. = PP - 8s., ePP = +11m.8s., e = +16m.49s. and +19m.38s.
 Tananarive E = +17m.7s.
 Ksara PP = +11m.59s., PS = +18m.36s., SS = +22m.8s. = SSS - 4s.
 Adelaide e = +14m.13s. = PPP + 12s., +16m.42s., and +20m.7s. = S_cS - 7s.
 Pulkovo L_a = +33m.55s.
 Melbourne L = +20m.25s.?
 Königsberg iE = +20m.36s., eE = +25m.51s. and +28m.57s., eN = +32m.0s.,
 eE = +32m.35s., eN = +37m.34s.
 Prague e = +20m.31s., +25m.55s.? = SS + 8s., +29m.55s.? and +31m.55s.?
 Trieste SS = +26m.5s. and +26m.40s.
 Copenhagen +26m.25s. = SS + 17s., +29m.55s.
 Jena eSE = +21m.31s.
 Hamburg ePPN = +14m.38s., eSS = +30m.13s.
 Göttingen eZ = +9m.43s.
 Stuttgart ePP = +14m.43s., ePS = +22m.33s.
 Strasbourg e = +25m.55s.?
 Bergen SS = +27m.0s.
 Uccle PPN = +15m.19s.
 Cape Town eE = +20m.10s., +23m.44s. = PS + 17s.
 Kew eSSEN = +28m.31s.
 Bidston eSS = +28m.11s.
 Rathfarnham Castle e = +15m.57s. = PP - 3s. and +19m.3s., i = +29m.3s. =
 SS + 10s.
 Scoresby Sund +23m.32s. = SKS + 12s., +29m.49s., eE = +35m.55s.
 Malaga e = +14m.37s. and +15m.39s., SKS = +23m.13s., PS = +24m.39s.
 Ottawa eN = +30m.55s.? eE = +37m.25s. = SS + 13s.
 Vermont eSS = +37m.20s.
 Pasadena iZ = +19m.6s., iE = +21m.21s.
 Philadelphia e = +43m.35s. and +46m.14s. = SSS - 10s.
 Florissant iSKPEN = +22m.34s., iPSN = +31m.40s., iSSE = +38m.44s., iN =
 +41m.20s.
 St. Louis iE = +22m.42s. = PKS + 5s.
 Tucson e = +40m.25s., eSS = +44m.49s.
 La Paz iPKP₂E = +20m.45s. = PKP₂ + 0s., iPPE = +24m.13s., iSKKS =
 +31m.13s., iSKSP = +34m.55s., PPSE = +38m.5s., eSSE = +44m.31s.,
 iSSE = +44m.55s., iSSSE = +49m.9s., eE = +55m.39s.
 Long waves at Toyooka, Arapuni, Christchurch, Sydney, Victoria, Ann Arbor,
 Sitka, Madison, Ivigtut, and Stonyhurst.

April 19d. 22h. 21m. 0s. Epicentre 48° 4N. 8° 9E. (as on 1933 Feb. 26d.). R.3.

A = +.6559, B = +.1027, C = -.7478; δ = -4;
 D = +.155, E = -.988, G = +.739, H = +.116, K = -.664.

	Δ	Az.	P.	O - C.	S.	O - C.
	°	°	m. s.	s.	m. s.	s.
Ebingen	0.2	169	e 0 4	+ 1	1 0 10	+ 5
Stuttgart	0.4	28	e 0 1	- 5	1 0 7	- 3
Karlsruhe	0.7	333	(0 6)	- 4	(0 16)	- 2
Ravensburg	0.7	142	e 0 11	+ 1	0 23	+ 5
Strasbourg	0.8	284	1 0 11 _a	0	1 0 21	0
Zurich	1.1	192	e 0 16	0	e 0 34	S*
Basle	1.2	225	e 0 22	+ 5	e 0 40	S _r
Chur	1.6	164	e 0 31 _k	+ 8	e 0 54	S _r
Neuchatel	2.0	223	e 0 34	P _r	1 1 0	S _r
Cheb	2.8	53	—	—	e 1 0?	-12
Göttingen	3.2	12	—	—	1 1 32	S*

Additional readings and note :—

Stuttgart e = +5s.
 Karlsruhe readings have been diminished by 1m.
 Strasbourg PS = +27s. = S* + 5s.

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April 19d. Readings also at 0h. (near Tifis), 1h. (Agra), 2h. (near Berkeley), 3h. (Chur, near Basle, Neuchatel, and Zurich), 5h. (Tananarive, Mount Wilson, Pasadena, Riverside, and Tinemaha), 6h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 7h. (Amboina, Melbourne, Mount Wilson (4), Pasadena (4), Riverside (2), and Tinemaha (4)), 8h. (Grozny, near Tifis, and near Erevan), 9h. (Mount Wilson, Riverside, and Tinemaha), 10h. (Erevan, Grozny, and near Tifis), 11h. (Tifis), 13h. (La Paz), 14h. (Tifis), 15h. (La Paz), 16h. (Cheb), 18h. (near Apia), 19h. (Andijan, Frunse, Riverside, Ebingen (2), and Stuttgart (2)), 20h. (Fresno, Lick, near Santiago, and San Javier), 21h. (Lick and Tifis), 22h. (Ebingen and Stuttgart), 23h. (Andijan and Frunse).

April 20d. 10h. 50m. 55s. Epicentre $24^{\circ}4'N$. $120^{\circ}6'E$. (as on 1935 Dec. 31d.). X.

$$A = -0.4636, B = +0.7839, C = +0.4131; \quad \delta = +8;$$

$$D = +0.861, E = +0.509; \quad G = -0.210, H = +0.356, K = -0.911.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	1.1	45	i 0 17 _a	+ 1	i 0 30	+ 2	—	0.5
Hong Kong	6.2	252	2 49	S	(2 49)	+11	3.7	4.2
Zi-ka-wei	E. 6.8	6	e 2 11	P _g	—	—	—	—
Nanking	7.8	351	1 50	- 1	4 0	S*	—	—

Hong Kong gives also $S_1 = +3m.25s. = S_g + 7s.$

Long waves were also recorded at Chiufeng, Phu-Lien, Sverdlovsk, and Tashkent.

April 20d. Readings at 0h. (Tifis), 1h. (Grozny), 2h. (Erevan, Grozny, Piatigorsk, and near La Paz), 3h. (Mount Wilson, Pasadena, Riverside, and near Apia), 4h. (Mount Wilson and Pasadena), 8h. (Mount Wilson, Pasadena, Riverside, Sverdlovsk, and Tashkent), 9h. (La Paz), 10h. (Apia, Mount Wilson, and Pasadena), 12h. (Tananarive), 13h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 16h. (near Branner and near Santiago), 17h. (Graz), 18h. (Agra, Bombay, Calcutta, Colombo, Batavia, Medan, Frunse, Hong Kong, Chiufeng, Nanking, Phu-Lien, Tashkent, Sverdlovsk, Samarkand, and Ksara), 19h. (Drôme, Andijan, Tchimkent, Port au Prince, Frunse, Samarkand, Nagoya, and Tashkent), 21h. (Toledo (2), near Granada (2), and Malaga (2)), 22h. (Jena).

April 21d. 2h. 14m. 50s. Epicentre $28^{\circ}0'N$. $55^{\circ}7'E$. (as on April 17d.). R.2.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	13.3	341	i 3 14	+ 8	i 5 52	+18	9.2	12.0
Samarkand	15.0	36	3 32	+ 4	6 37	+22	—	—
Tifis	16.3	330	i 3 53	+ 8	7 3	+18	9.2	10.9
Tashkent	17.3	37	1 4 16	+18	i 7 27	+18	e 9.4	12.6
Ksara	17.9	294	1 4 2 _a	- 3	i 7 33	+11	—	—
Andijan	18.7	43	4 21	+ 6	8 5	+25	—	—
Agra	E. 19.8	87	4 24	- 3	8 17	+15	10.2	—
Frunse	21.3	340	e 4 50	+ 7	e 9 0	+28	—	—
Helwan	21.4	281	4 30	-14	i 8 50	+16	—	15.0
Almata	22.9	42	e 5 6	+ 6	—	—	—	—
Theodosia	23.5	322	e 5 6	+ 1	9 22	+ 8	16.2	—
Yalta	23.8	319	i 5 9	+ 1	9 26	+ 7	16.2	—
Simferopol	24.1	320	5 10	- 1	9 30	+ 5	—	—
Sebastopol	24.2	319	5 13	+ 1	9 35	+ 8	—	—
Sverdlovsk	29.0	6	5 59	+ 3	10 56	+ 8	19.1	19.4
Moscow	30.6	339	6 17	+ 7	11 23	+ 9	17.7	18.6
Belgrade	32.6	340	—	—	e 14 10	? 4	e 20.1	—
Zagreb	35.9	310	e 6 56	- 1	e 12 39	+ 4	—	—
Pulkovo	36.2	339	7 1	+ 1	12 43	+ 4	22.2	—
Triest	37.4	310	i 7 12	+ 2	12 56	- 1	e 21.2	22.2

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.
Cheb	39.4	316	—	—	e 12 10?	-77	—	27.2
Chur	40.5	311	e 7 32k	-4	e 13 40	-4	—	—
Stuttgart	41.1	313	e 7 40	-1	e 17 10	SS	e 23.2	—
Zurich	41.2	311	e 7 38a	-4	e 13 51	-3	—	—
Copenhagen	41.4	324	—	—	14 2	+5	21.2	—
Basle	41.9	311	e 7 44	-4	e 14 4	-1	—	—
Neuchatel	42.2	311	e 7 47	-3	—	—	—	—
Uccle	44.6	315	e 8 9	-1	e 14 54	+10	e 24.2	—
Kew	47.6	316	e 8 30	-3	e 18 45	SS	e 28.2	—
Granada	50.0	297	—	—	e 18 30	(-15)	29.7	—
Scoresby Sund	59.6	338	—	—	16 10?	?	—	—

Additional readings and notes:—

Ksara $P_cP = +8m.26s.$, $S_cS = +15m.36s.$

Agra $PPPE = +4m.57s.$, $SSE = +9m.8s.$

Sverdlovsk $L_q = +16m.22s.$

Belgrade $e = +17m.9s. = S_cS + 11s.$

Triest $i = +7m.19s.$, $e = +15m.53s.$

Uccle $eE = +18m.37s.$

Long waves were also recorded at Hyderabad, Chiufeng, Nanking, Cape Town, Upsala, Edinburgh, De Bilt, Hamburg, Graz, Paris, Strasbourg, and San Fernando.

April 21d. Readings also at 1h. (Chiufeng, Hong Kong, Manila, Nanking, Phu-Lien, Almata, Tashkent, Baku, Sverdlovsk, Agra, Bombay, Calcutta, Hyderabad, Kodaikanal, Medan, Ksara, and La Paz), 2h. (Moscow, Copenhagen, De Bilt, Granada (2), Toledo, near Malaga, and San Fernando), 3h. (Granada), 4h. (Toledo, near Malaga, near Fresno, near Mizusawa, Nagoya, and Sumoto), 6h. (Tchikent), 7h. (near Balboa Heights), 8h. and 9h. (near Sumoto), 10h. (Kodaikanal and Oak Ridge), 11h. (Almata, Frunse, Erevan, Tiflis (2), Ksara, Sverdlovsk, Baku, and Granada), 15h. (Nagoya and near Mizusawa), 17h. (Göttingen, Tchikent, and near Santiago), 18h. (near Medan), 21h. and 23h. (near Wellington).

April 22d. 9h. 58m. 54s. Epicentre $0^\circ.3N. 18^\circ.2W.$

N.2.

$A = +.9500$, $B = -.3123$, $C = +.0052$; $\delta = +6$;
 $D = -.312$, $E = -.950$; $G = +.005$, $H = -.002$, $K = 1.000$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Rio de Janeiro	33.6	225	e 11 57	S	(e 11 57)	+12	e 14.1	—
San Fernando	37.8	15	e 7 19	+6	1 13 11	+8	20.6	—
Granada	39.3	18	17 18	-8	13 2	-24	—	—
Basle	52.3	22	e 9 10	+1	—	—	—	—
Chur	52.5	22	e 9 11	+1	—	—	—	—
Zurich	52.5	22	e 9 11a	+1	—	—	—	—
Strasbourg	53.2	21	—	—	(e 13 51)	?	e 13.1	—
Triest	53.4	27	19 16a	-1	16 51	+4	—	29.1
Stuttgart	53.9	22	e 9 11	-10	e 17 1	+7	e 27.1	—
Zagreb	54.5	29	e 9 27	+2	—	—	—	—
De Bilt	55.4	17	—	—	17 22	+7	e 27.1	31.8
Cheb	58.2	23	—	—	e 17 48	+23	e 28.1	32.1
Hamburg	58.2	18	e 9 51	-1	—	—	e 29.1	38.1
Ksara	60.6	51	1 10 10	+1	18 31	+7	—	—
Copenhagen	60.7	19	10 10	+1	18 30	+5	25.1	—
Sebastopol	63.6	38	e 12 6	+97	—	—	—	—
Yalta	63.9	40	e 10 28	-3	—	—	—	—
Simferopol	64.1	38	e 10 45	+12	—	—	—	—
Theodosia	65.0	39	e 10 38	-1	—	—	—	—
Erevan	69.3	46	e 11 49	(+19)	—	—	—	—

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	70.0	45	11 9	- 2	e 20 23	+ 2	31.9	42.9
Scoresby Sund	70.2	358	—	—	20 32	+ 8	31.1	—
Pulkovo	70.2	24	11 9	- 3	e 20 14	-10	34.1	41.0
Grozny	71.2	44	e 11 20	+ 2	—	—	—	—
Baku	73.3	47	11 30	- 1	e 21 6	+ 6	36.1	—
Florissant	76.0	310	—	—	i 21 23	- 9	e 36.0	—
Sverdlovsk	83.7	33	i 12 26	- 1	22 48	[- 1]	40.1	—
Samarkand	86.1	50	12 45	+ 6	e 26 7	?	—	—
Tashkent	87.9	49	—	—	e 23 13	[- 6]	e 47.1	58.5
Andijan	90.2	49	e 12 59	+ 1	e 27 23	?	—	—
Frunse	91.8	47	e 13 20	+14	—	—	—	—
Agra	E. 95.4	63	—	—	i 36 28	?	—	—

Additional readings:—

San Fernando ePP = +9m.31s. = P_cP - 4s.

Zagreb eP_cPNW = +10m.38s., ePP = +11m.16s., ePPP = +12m.27s.

Ksara iPP = +12m.26s., SS = +22m.38s.

Florissant eE = +21m.54s. = PS - 4s., eN = +26m.31s.

Sverdlovsk PS = +23m.38s., eSS = +28m.12s.

Tashkent i = +24m.28s. = PS + 1s. and +33m.12s., e = +33m.45s.

Long waves were also recorded at La Paz, Algiers, Almeria, Paris, Uccle, Belgrade, Kew, Edinburgh, and Ivigtut.

April 22d. Readings also at 0h. (Hong Kong and near Taihoku), 2h. (Mount Wilson, Pasadena, and Riverside), 4h. (Erevan), 5h. (Erevan and Victoria), 8h. (Andijan and near Samarkand), 9h. (Branner, Lick, near Mizusawa, near Santiago, and San Javier), 10h. (Grozny, Tiflis, Ksara, and La Paz), 14h. (Lick and Tiflis), 15h. (Tchimkent, Ebingen, Ravensburg, Stuttgart, near Chur, and Zurich), 16h. (near Mizusawa), 18h. (Baku, Tashkent, Sverdlovsk, Tiflis, and Ksara), 19h. (Oaxaca and Tacubaya), 22h. (La Paz), 23h. (near San Javier).

April 23d. 23h. 14m. 27s. Epicentre 50° 1N. 178° 7E. R.1.
(as on 1928 Feb. 28d.).

A = -0.413, B = +0.146, C = +0.7672; $\delta = +7$;
D = +0.023, E = +1.000; G = -0.767, H = +0.017, K = -0.641.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
College	22.8	36	e 5 1	+ 2	e 9 2	+ 1	e 11.6	—
Nemuro	23.5	266	5 4	- 1	9 31	+17	—	—
Asahigawa	25.3	271	5 35	+12	—	—	—	—
Sapporo	26.3	270	5 27	- 5	—	—	—	—
Hakodate	27.3	266	5 5	-26	—	—	—	—
Sitka	27.6	58	i 5 43	- 1	e 10 27	+ 2	e 16.6	—
Mizusawa	E. 28.5	261	e 5 52	0	e 11 3	+23	—	—
N.	28.5	261	e 5 56	+ 4	e 11 7	+27	—	—
Kumagaya	31.4	258	6 25	+ 8	—	—	—	—
Maebasi	31.5	258	6 14	- 4	—	—	—	—
Nagano	31.8	260	6 28	+ 7	—	—	—	—
Oiwake	31.8	259	6 28	+ 7	—	—	—	—
Vladivostok	32.3	275	i 6 31	+ 6	11 48	+ 8	—	23.6
Gifu	33.5	258	6 36	0	—	—	—	—
Honolulu	34.1	139	—	—	e 12 11	+ 3	e 14.1	—
Osaka	34.8	262	6 44	- 3	12 25	+ 7	—	—
Kobe	35.0	262	e 6 14	-35	e 12 22	+ 1	e 14.1	19.9
Wakayama	35.3	262	6 55	+ 3	—	—	—	—
Sumoto	35.4	262	6 55	+ 2	e 15 7	?	—	19.4
Victoria	36.9	70	i 7 4	- 2	i 12 51	+ 1	e 16.6	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	\circ	\circ	m. s.	s.	m. s.	s.	m.	m.
Seattle	37.9	70	—	—	e 13 1	- 4	—	—
Husan	38.7	266	7 24	+ 3	e 13 27	+10	—	—
Zinsen	38.8	271	e 7 25	+ 3	e 13 21	+ 3	—	—
Ferndale	40.2	80	e 7 45	+11	e 14 1	+22	—	—
Ukiah	41.7	81	e 7 36	-10	e 14 2	0	e 20.4	—
Berkeley	42.8	85	e 7 56k	+ 1	i 14 20	+ 2	—	—
San Francisco	42.9	84	e 7 53	- 3	e 14 14	- 5	e 19.5	—
Branner	43.3	84	e 7 59	0	e 14 18	- 7	e 20.5	—
Lick	43.6	85	e 8 1	- 1	e 14 30	0	—	—
Chiufeng	44.0	282	i 8 8k	+ 3	i 14 45	+ 9	21.3	23.8
Saskatoon	44.8	57	e 8 40	+29	e 15 19	+32	—	—
Bozeman	45.6	67	e 8 10	- 8	e 14 53	- 6	e 20.8	—
Tinemaha	46.0	82	i 8 20k	- 1	e 15 3	- 1	—	—
Santa Barbara	46.7	85	i 8 25k	- 1	—	—	—	—
Haiwee	46.8	83	e 8 24	- 3	—	—	—	—
Nanking	47.2	270	i 7 53?	-37	i 14 51?	-30	23.2	—
Mount Wilson	47.9	85	i 8 34k	- 1	i 15 34	+ 3	—	—
Pasadena	47.9	85	i 8 34k	- 1	i 15 31	0	e 21.0	—
Riverside	48.5	85	i 8 38k	- 2	e 15 28	-12	—	—
La Jolla	49.3	86	i 8 44k	- 2	e 15 53	+ 2	—	—
Tucson	53.8	82	9 19	- 1	16 55	+ 2	e 25.0	—
Hong Kong	56.9	266	9 46	+ 4	17 43	+ 8	28.6	29.9
Semipalatinsk	57.9	311	e 9 53	+ 3	e 14 44	?	—	—
Manila	58.5	255	9 55	+ 1	17 33	-23	—	—
Scoresby Sund	58.5	385	i 9 55a	+ 1	—	—	27.6	—
Madison	59.4	60	i 10 1	+ 1	e 18 10	+ 2	—	—
Chicago	61.4	59	e 10 12	- 2	e 18 31	- 3	e 33.6	—
Sverdlovsk	61.5	327	i 10 16	+ 1	18 39	+ 2	34.6	35.8
Florissant	61.8	62	i 10 14	- 3	e 18 34	- 5	e 29.4	38.9
St. Louis	62.0	62	i 10 16	- 2	e 18 37	- 5	e 39.2	—
Ivigtut	62.5	24	i 10 21	- 1	—	—	33.6	—
Phu-Lien	62.8	270	e 10 3	-21	e 18 56	+ 4	—	—
Ann Arbor	63.0	55	e 10 21	- 4	e 18 57	PS	e 39.6	—
Little Rock	63.4	67	e 10 28	0	e 18 58	- 2	—	—
Toronto	64.2	52	10 32	- 2	i 19 8	- 2	30.2	35.1
Almata	64.5	307	10 46	+11	—	—	—	—
Ottawa	64.8	49	e 10 35	- 2	e 19 13	- 4	e 30.6	—
Buffalo	65.1	52	i 10 39	0	i 19 23	+ 2	—	—
Frunse	66.0	308	10 45	0	e 19 36	+ 4	—	—
Ithaca	66.6	49	—	—	e 19 15	-25	—	—
Pennsylvania	67.1	52	—	—	e 20 43	(- 1)	—	—
Pulkovo	67.2	344	i 10 51	- 2	19 46	- 1	33.6	41.6
Andijan	68.6	308	e 11 5	+ 3	e 20 14	+10	—	—
Charlottesville	68.8	55	e 10 57	- 6	e 19 33	-34	e 38.4	—
Oak Ridge	69.0	47	i 11 2	- 3	i 20 7	- 2	e 35.6	—
Fordham	69.1	49	i 11 7	+ 2	i 20 13	+ 3	28.0	—
Philadelphia	69.1	51	i 11 4	- 1	i 20 9	- 1	e 31.0	—
Upsala	69.1	350	i 11 2	- 3	i 20 8	- 2	e 36.6	—
Moscow	69.3	337	i 11 7	+ 1	i 20 16	+ 3	34.4	41.0
Tashkent	69.7	311	i 11 9	0	i 20 23	+ 5	e 34.8	39.0
Columbia	70.6	59	e 11 9	- 5	e 20 21	- 7	e 34.0	—
Samarkand	72.1	311	11 18	- 5	e 16 8	?	—	—
Calcutta	73.1	284	e 12 7	+38	i 20 56	- 2	—	—
Copenhagen	73.5	353	11 31	- 1	21 7	+ 4	33.6	—
Agra	75.9	295	11 46	+ 1	21 28	- 2	—	—
Hamburg	75.9	354	i 11 45k	0	i 22 31	PS	e 46.6	—
De Bilt	77.6	355	i 11 56k	+ 1	21 52	+ 3	e 36.6	47.8
Grozny	78.0	326	i 12 3	+ 6	e 21 59	+ 5	—	—
Pletigorsk	78.3	328	i 12 9	+10	22 7	+10	—	—
Kew	78.4	359	i 11 59	0	e 22 36	+38	e 33.6	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Jena	N. 78.4	350	e 11 57	- 2	—	—	—	—
Prague	78.9	349	—	—	—	—	—	—
Uccle	79.0	356	i 12 3	0	e 21 27	-37	e 38.6	47.6
Cheb	79.1	350	—	—	i 22 5	0	36.6	—
Baku	79.1	323	12 6	+ 3	e 22 33?	PS	—	59.6
					22 12	+ 6	38.6	47.2
Theodosia	79.7	334	e 12 3	- 3	—	—	—	—
Tiflis	79.7	326	i 12 8	+ 2	i 22 14	+ 2	39.6	47.0
Simferopol	80.1	335	i 12 9	+ 1	—	—	—	—
Yalta	80.5	334	i 12 9	- 1	—	—	—	—
Vienna	80.5	349	e 12 13	+ 3	e 22 33?	+12	—	—
Stuttgart	80.7	352	12 10k	- 2	e 22 21	- 2	e 40.6	—
Strasbourg	81.0	354	i 12 13k	0	—	—	e 35.6	—
Paris	81.1	358	i 12 15k	+ 1	—	—	48.6	49.6
Erevan	81.2	335	13 5	+51	e 23 17	PS	—	—
Basle	82.1	353	e 12 19	0	e 22 35	- 3	—	—
Zurich	82.2	353	e 12 19k	0	e 22 35	- 4	—	—
Chur	82.6	353	e 12 22	+ 1	e 22 33	-10	—	—
Neuchatel	82.6	353	e 12 22	+ 1	—	—	—	—
Zagreb	82.9	347	e 12 25	+ 2	e 22 47	+ 1	—	—
Hyderabad	83.1	299	12 23	- 1	22 44	- 4	—	54.6
Batavia	83.3	251	12 20	- 5	22 41	- 9	—	—
Belgrade	83.3	345	i 12 24a	- 1	e 22 48	- 2	e 49.3	—
Triest	83.4	349	i 12 25k	0	i 22 55	+ 4	e 41.0	48.6
Bombay	85.3	294	12 38	+ 3	23 13	+ 2	—	—
Kodaikanal	E. 89.2	285	e 12 33?	-21	—	—	—	—
Ksara	89.8	330	i 12 58k	+ 2	23 47	- 7	—	—
San Juan	91.0	58	e 12 59	- 3	e 23 33	[- 6]	e 45.0	—
Granada	92.6	2	i 13 9	0	e 24 16	- 4	—	—
Malaga	93.1	250	13 13	+ 1	25 32	PS	—	—
San Fernando	93.3	4	e 16 43	PP	i 23 57	{- 4}	46.6	—

Additional readings:—

Kobe eZ = +11m.12s.
 Chiufeng PPEN = +9m.56s., SSEN = +18m.5s. = S_cS - 1s.
 Bozeman eS_cS = +18m.13s.
 Nanking SS = +17m.56s.?, SSS = +19m.3s.?
 Hong Kong SS? = +21m.37s.
 Sverdlovsk L_a = +28.6m.
 Florissant ipP = +10m.36s., iSPEZ = +10m.52s., iPP = +12m.32s., eSSN = +19m.17s., iS_cSN = +20m.8s., iS_cSN = +20m.57s., iS_cP_cSN = +26m.2s.
 St. Louis ipP = +10m.29s., iSEN = +18m.44s.
 Ann Arbor e = +12m.39s. = PP + 11s., eN = +25m.45s., eE = +34m.15s.
 Little Rock iN = +10m.43s., eS_cSN = +20m.27s.
 Ottawa SSE = +23m.39s.; T_o = 23h.14m.36s.
 Charlottesville ePS = +20m.8s. = S + 1s., e = +28m.45s.
 Fordham +22m.3s.
 Philadelphia e = +15m.23s., eSS = +24m.41s.
 Copenhagen +16m.9s.
 De Bilt eSSN = +27m.15s.
 Jena iZ = +12m.0s., eE = +12m.3s.
 Uccle SSN = +27m.36s.
 Tiflis e = +14m.6s., ePP = +15m.14s., SKS = +22m.23s.
 Stuttgart ePS = +23m.15s.; T_o = 23h.14m.27s.
 Belgrade e = +14m.15s.
 Triest i = +23m.36s. = PS + 5s., iPS = +23m.45s.
 Bombay PPEN = +16m.3s.
 Ksara PP = +16m.33s., SS = +29m.59s.
 San Fernando SS = +30m.57s.
 Long waves were also recorded at Wellington and Cape Town.

April 23d. Readings also at 0h. (Tiflis and near Balboa Heights), 1h. (Tiflis and near Wellington), 2h. (Tiflis), 9h. (Manila), 10h. (Helwan), 11h. (near Amboina), 13h. (Columbia), 14h. (near Taihoku), 15h. (Sumoto), 17h. (near Amboina), 18h. (Baku, Ksara, Tiflis, Sverdlovsk, Cape Town, near Mizusawa, and near Nagoya), 19h. (Tashkent and near Santiago), 21h. (La Paz), 22h. (Medan and near Amboina), 23h. (Andijan, Samarkand, Batavia, Hong Kong, Manila, Tiflis, La Paz, and near Santiago).

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April 24d. 12h. 42m. 5s. Epicentre $9^{\circ}28'$. $124^{\circ}5'E$. N.3.

$$A = -.5591, B = +.8135, C = -.1599; \quad \delta = -6;$$

$$D = +.824, E = +.566; \quad G = +.091, H = -.132, K = -.987.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	6.6	34	e 1 33	- 1	2 48	0	—	—
Batavia	17.7	279	4 4	+ 1	—	—	—	—
Manila	24.1	352	5 13	+ 2	9 38	+13	12.7	—
Adelaide	28.8	156	—	—	e 10 39	- 6	i 14.0	19.5
Melbourne	34.1	150	—	—	i 12 4	- 4	e 17.6	20.0
Riverview	34.8	140	e 12 14	S	(e 12 14)	- 4	e 22.9	—
Christchurch	54.0	138	e 16 18	S	(e 16 18)	-38	28.3	31.9
Tashkent	71.5	319	—	—	e 19 33	-66	e 34.1	43.4
Sverdlovsk	84.0	331	12 25	- 3	22 50	- 8	34.9	—
Grozny	88.3	314	e 12 51	+ 2	—	—	—	—
Tifis	88.6	313	e 12 50	- 1	e 23 34	- 9	e 40.4	—
Ksara	94.0	303	e 14 19	+63	e 25 50	PS	46.9	55.9
Tinemaha	z. 117.2	53	i 18 44	[+ 6]	i 22 18	PPP	—	—
Pasadena	z. 117.7	57	i 18 44	[+ 5]	i 22 18	PPP	—	—
Mount Wilson	z. 117.8	57	i 18 45	[+ 5]	i 22 19	PPP	—	—

Additional readings :—

Adelaide e = +13m.38s.

Melbourne i = +16m.1s.

Riverview eN = +18m.32s.

Christchurch $P_cPZ = +18m.22s.$, $P_cSZ = +22m.4s.$, eS = +22m.35s.

Tashkent e = +30m.7s.

Sverdlovsk e = +22m.43s.

Long waves were also recorded at Wellington, Medan, Kodaikanal, Copenhagen, Baku, and Pulkovo.

April 24d. 14h. 35m. 42s. Epicentre $14^{\circ}5'N$. $92^{\circ}6'W$. (as on 1935 Dec. 14d.). X.

$$A = -.0439, B = -.9672, C = +.2504; \quad \delta = +10;$$

$$D = -.999, E = +.045; \quad G = -.011, H = -.250, K = -.968.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Oaxaca	N. 4.8	303	1 7	- 1	—	—	—
Merida	N. 7.1	23	1 35	- 6	—	—	—
Tacubaya	N. 8.0	390	1 53	0	—	—	—
Little Rock	20.3	51	e 4 38	+ 5	e 8 22	+10	—
Columbia	22.1	25	—	—	e 8 36	-12	—
Tucson	24.3	320	e 5 9	- 4	e 9 50	+22	e 13.2
San Juan	25.7	77	—	—	e 10 18	+25	—
Ann Arbor	N. 28.8	13	—	—	e 12 48	?	e 19.2
Philadelphia	29.7	28	—	—	e 11 18	+19	e 15.5
Mount Wilson	z. 30.3	315	e 6 8	0	—	—	—
Pasadena	z. 30.3	315	e 6 7	- 1	—	—	e 19.3
Tinemaha	32.1	319	i 6.24	0	—	—	—

Additional readings :—

Little Rock iN = +4m.55s., iEN = +5m.24s.

Mount Wilson iZ = +6m.27s., eZ = +9m.2s. = $P_cP - 9s.$

Pasadena iZ = +9m.6s. = $P_cP - 5s.$

Tinemaha iZ = +9m.8s. = $P_cP - 8s.$

Long waves are also recorded at Huancayo, Oak Ridge, Sverdlovsk, and Tashkent.

April 24d. Readings also at 0h. (Andijan, Samarkand, near Almata, and Frunse), 4h. (near Tifis), 5h. (Nagoya), 7h. (near San Javier), 9h. (Alicante and Amboina), 10h. (Granada, Malaga, Toledo, near San Fernando, and near Wellington), 12h. (Sebastopol, Simferopol, Theodosia, and near Yalta), 13h. (Sebastopol, Simferopol, Theodosia, Yalta, Tifis, Mount Wilson, Pasadena, Riverside, and Tinemaha), 14h. (Erevan, Grozny, Platigorsk, near Ksara, and near Tifis (2)), 15h. (Amboina), 16h. (Toledo and near Medan), 17h. (Toledo, Alicante, near Almeria, Malaga, Granada, and San Fernando), 18h. (Grozny, Samarkand, near Andijan, and Frunse), 19h. (near Fresno and Lick), 20h. and 21h. (near Tifis).

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April 25d. 4h. 36m. 17s. Epicentre $9^{\circ}9'N$. $125^{\circ}7'E$. (as on 1931 May 24d.). X.

$$A = -.5749, B = +.8000, C = +.1719; \quad \delta = +6;$$

$$D = +.812, E = +.584; \quad G = -.100, H = +.140, K = -.985.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	6.6	316	i 1 35 _a	+ 1	2 45	- 3	—	—
Hong Kong	16.6	320	3 48	- 1	6 52	0	8.6	11.0
Batavia	24.8	230	5 16	- 2	9 33	- 4	—	—
Chiufeng	31.4	346	e 6 25	+ 8	e 11 38	+12	—	18.8
Vladivostok	33.6	9	—	—	e 12 31	+31	15.0	—
Agra	E. 48.1	298	—	—	e 15 19	-15	—	—
Tashkent	58.5	314	—	—	e 18 31	PS	e 27.4	37.0
Sverdlovsk	68.2	328	—	—	e 19 58	- 1	33.7	—
Tiflis	76.7	311	—	—	e 21 44	+ 5	e 45.1	—
Pulkovo	84.2	330	e 12 49	+20	e 22 56	[+ 3]	45.7	48.7
Ksara	84.4	303	e 12 36	+ 6	e 23 22	PS	47.7	52.7

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

April 25d. 22h. 36m. 10s. Epicentre $29^{\circ}0'S$. $73^{\circ}0'W$. (as on 1927 June 25d.). X.

$$A = +.2557, B = -.8364, C = -.4848; \quad \delta = -2;$$

$$D = -.956, E = -.292; \quad G = -.142, H = +.464, K = -.875.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago	4.8	157	1 8	0	2 22	S*	—	—
San Javier	6.7	171	e 1 40	+ 5	3 20	S*	—	—
La Paz	13.3	21	e 3 6	0	6 36	S*	7.1	8.9
La Plata	14.1	118	3 8	- 9	5 20	-33	6.0	—
Pasadena	z. 76.2	323	i 11 50	+ 3	—	—	—	—
Tinemaha	z. 78.6	325	i 12 3	+ 3	—	—	—	—

Long waves were also recorded at Rio de Janeiro.

April 25d. Readings also at 1h. (Sverdlovsk and Tashkent), 4h. (Nagoya), 6h. (Alicante, Malaga, near Almeria, Granada, and San Fernando), 11h. (Bagnères (2), Alicante, and near Tortosa), 14h. (Bagnères), 17h. (Samarkand), 19h. (Nagoya), 20h. (Amboina), 21h. (Bagnères, Malaga, near Granada, near Tortosa, and Phu-Lien).

April 26d. 7h. 15m. 32s. Epicentre $1^{\circ}0'N$. $126^{\circ}0'E$. (as on 1926 July 12d.). X.

$$A = -.5877, B = +.8089, C = +.0175; \quad \delta = +2;$$

$$D = +.809, E = +.588; \quad G = -.010, H = +.014, K = +1.000.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Manila	14.5	340	1 3 15 _a	- 7	6 6	+ 3	7.7
Nanking	31.8	348	e 6 23	+ 2	—	—	e 17.0
Chiufeng	40.1	349	e 7 33	0	e 13 20	-18	—
Andijan	62.6	316	e 10 24	+ 2	—	—	—
Samarkand	66.0	313	e 10 58	+13	e 17 1	?	—
Sverdlovsk	76.0	330	—	—	e 21 20	-12	35.5

Manila gives also IPZ = +3m.18s.

Long waves were also recorded at Hong Kong and Pulkovo.

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April 26d. 8h. 43m. 38s. Epicentre 7°·0S. 148°·0E. (as on 1934 March 1d.). X.

$$A = -.8417, B = +.5260, C = -.1219; \quad \delta = -6;$$

$$D = +.530, E = +.848; \quad G = +.103, H = -.065, K = -.993.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Amboina	20.0	278	4 33	+ 3	—	—	e 12.4	—
Riverview	27.0	174	i 6 14k	PP	i 10 29	+14	e 13.3	17.2
Sydney	27.0	174	e 10 47	S	(e 10 47)	+32	16.2	17.5
Adelaide	29.3	196	e 6 0	+ 1	i 11 2	+ 9	15.5	19.9
Melbourne	30.9	185	—	—	i 11 34	+16	15.0	19.1
Manila	34.4	309	6 37	- 7	11 34	-38	15.0	—
Batavia	z. 40.9	269	7 59	+19	—	—	—	—
Wellington	41.8	149	e 7 22?	-25	i 14 8	+ 5	22.4	—
Nagoya	43.5	348	e 7 47	-14	—	—	—	—
Hukuoka B	43.9	339	e 7 59	- 5	e 14 22	-12	—	—
Hong Kong	44.3	312	10 48	?	14 39	- 1	—	19.7
Nanking	48.0	325	e 8 39	+ 3	e 15 31	- 2	e 24.0	—
Vladivostok	52.2	345	e 9 8	0	(16 22)	- 9	16.4	—
Chiufeng	55.5	331	e 9 31	- 1	17 6	-10	27.2	30.7
Frunse	82.9	314	e 12 45	+22	—	—	—	—
Andijan	83.9	312	e 12 49	+21	e 17 21	PPP	—	—
Tashkent	86.3	312	i 18 11	PPP	—	—	e 37.0	46.8
Samarkand	87.6	310	e 12 47	+ 1	e 16 42	?	—	—
Sitka	88.7	32	—	—	e 23 22	[- 2]	e 39.4	—
Sverdlovsk	94.4	327	e 13 36	+18	—	—	37.4	48.2
Pasadena	97.0	56	i 13 31	+ 1	—	—	—	—
Mount Wilson	z. 97.2	56	i 13 32	+ 1	—	—	—	—
Baku	100.7	310	e 18 10	PP	e 27 12	PS	44.4	—
Tiflis	104.5	311	e 17 29	?	—	—	56.6	60.1
Pulkovo	109.8	332	e 18 57	PP	e 28 27	PS	51.4	62.2
Ksara	112.2	303	e 19 2	PP	—	—	59.4	65.4
Scoresby Sund	116.2	357	—	—	29 22?	PS	58.4	—
Florissant	E. 118.8	50	—	—	e 29 47	PS	e 55.4	—
Copenhagen	120.0	333	—	—	28 22?	{+66}	58.4	—
Ottawa	126.1	37	—	—	e 33 22?	?	e 58.4	—
Philadelphia	129.3	317	—	—	e 50 58	?	e 56.9	—

Additional readings:—

Riverview iEN = +10m.48s.

Sydney iS = +14m.22s.

Adelaide e = +6m.59s., i = +11m.40s., and +14m.11s.

Wellington iSS? = +17m.38s. = S_cS - 15s.

Nanking eSS = +19m.21s.

Vladivostok e = +11m.36s. and +12m.24s.

Tashkent i = +18m.37s., e = +18m.57s., and +28m.34s. = SS - 8s.

Tiflis e = +18m.26s. = PP + 10s. and +28m.4s.

Ksara ePKP = +27m.16s., ePS = +29m.10s.

Scoresby Sund e = +36m.22s.?

Florissant eE = +41m.8s.

Long waves were also recorded at Hyderabad, Moscow, Cape Town, Oak Ridge,

Tucson, Ukiah, and at other European stations.

April 26d. 14h. 55m. 16s. Epicentre 34°·0N. 134°·8E. (as on 1935 Nov. 25d.). X.

$$A = -.5842, B = +.5883, C = +.5592; \quad \delta = +9;$$

$$D = +.710, E = +.705; \quad G = -.394, H = +.397, K = -.829.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Sumoto	0.4	11	10 4	- 2	10 8	- 2	0.1
Kobe	0.7	25	e 0 10	0	10 18	0	0.4
Toyooka	1.6	0	0 25	+ 2	0 44	+ 3	0.8
Nagoya	2.1	57	0 30	0	1 1	S?	—
Hukuoka B	3.7	269	e 1 14	P _e	e 2 10	?	—

Toyooka gives also PEN = +28s.

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April 26d. 23h. 59m. 11s. Epicentre 28°·7N. 103°·2E.

R.1.

(as on 1935 Dec. 19d. 13h.).

A = -·2003, B = +·8540, C = +·4802; $\delta = +3$;
D = +·974, E = +·228; G = -·110, H = +·468, K = -·877.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	8·5	157	1 1 56	- 4	i 4 23	S _g	—	6·1
Hong Kong	11·8	120	2 43	- 3	3 52	-66	—	6·0
Nanking	13·9	72	1 3 9	- 5	5 42	- 7	7·1	9·2
Calcutta	E. 14·7	248	3 31	+ 6	6 39	+31	7·8	10·2
Chiufeng	15·6	40	e 3 29	- 7	i 6 27	- 2	7·6	11·8
Hokoto	15·6	106	3 37	+ 1	—	—	—	—
Zi-ka-wei	16·0	77	e 3 39	- 2	6 46	+ 8	—	11·2
Taiyu	16·3	102	3 51	+ 6	7 1	+16	—	—
Tainan	16·3	106	3 48	+ 3	—	—	—	—
Takao	16·5	108	3 52	+ 4	—	—	—	—
Arisan	16·6	104	3 48	- 1	—	—	—	—
Taihoku	16·8	98	3 50	- 2	7 7	+10	—	10·7
Karenko	17·2	102	3 58	+ 1	7 11	+ 5	—	—
Taito	17·2	106	3 57	0	—	—	—	—
Dairen	18·3	51	4 1	- 9	7 30	- 1	—	—
Isigakizima	19·2	98	4 15	- 6	7 53	+ 3	—	—
Heizyo	21·3	55	4 52	+ 9	8 40	+ 8	11·4	13·4
Zinsen	21·4	60	e 4 44	0	e 8 41	+ 7	e 10·8	12·2
Manila	21·7	127	i 4 49k	+ 1	i 9 3	SS	i 11·8	—
Kelzyo	21·7	61	e 4 44	- 4	e 8 46	+ 6	e 11·2	12·2
Naha	21·8	91	4 59	+10	8 54	+12	—	—
Dehra Dun	21·9	280	5 39	+49	9 9	SS	12·1	12·8
Tomie	22·3	73	4 54	0	8 58	+ 6	—	—
Agra	N. 22·3	271	e 4 57	+ 3	i 9 6	SS	—	—
Taikyū	22·6	65	4 55	- 2	9 0	+ 3	—	12·6
Husan	22·8	67	5 0	+ 1	9 4	+ 3	12·4	17·1
Nake	23·0	83	5 0	- 1	9 15	+10	—	—
Nagasaki	23·2	74	5 1	- 2	9 15	+ 7	—	—
Unzendake	23·5	73	5 10	+ 5	9 23	+ 9	—	—
Hukuoka	23·7	72	4 52	-15	9 22	+ 4	12·4	14·5
Hukuoka B	23·7	72	e 5 12	+ 5	9 22	+ 4	i 12·4	15·2
Kagosima	23·8	77	5 1	- 7	—	—	—	—
Kumamoto	23·9	72	5 7	- 2	9 21	0	—	—
Miyazaki	24·5	77	5 9	- 6	9 37	+ 5	—	—
Ooita	24·7	72	5 17	0	—	—	—	—
Hamada	25·2	69	5 11	-11	—	—	—	—
Hyderabad	25·3	249	5 29	+ 6	9 59	+13	12·5	16·5
Medan	25·4	191	e 5 28	+ 4	i 10 34	SS	i 14·3	—
Hirosima	25·5	70	4 58	-27	—	—	—	—
Almata	25·6	312	5 30	+ 5	10 18	SS	15·1	—
Matuyama	25·7	71	5 23	- 3	9 58	+ 5	—	—
Simidu	25·8	73	5 26	- 1	—	—	—	—
Sakai	26·2	68	5 22	- 9	—	—	—	—
Koti	26·3	72	5 32	0	10 6	+ 3	—	—
Okayama	26·7	70	5 40	+ 5	—	—	—	—
Frunse	27·0	309	e 5 45	+ 7	e 10 20	+ 5	—	—
Vladivostok	27·1	51	—	—	e 10 19	+ 2	—	16·4
Toyooka	27·5	68	5 42	- 1	e 10 24	0	14·0	16·5
Sumoto	27·5	70	5 40	- 3	10 31	+ 7	14·6	15·5
Wakayama	27·7	69	5 44	0	10 27	0	—	—
Kobe	E. 27·7	70	e 5 40	- 4	10 45	+18	i 14·5	18·7
	N. 27·7	70	e 5 39	- 5	10 40	+13	e 13·6	15·7
Miyadu	27·8	68	5 46	+ 1	—	—	—	—
Semipalatinsk	27·8	328	5 47	+ 2	10 53	+25	14·0	—
Andijan	27·9	303	e 5 53	+ 7	—	—	—	—
Osaka	28·0	70	5 39	- 8	10 28	- 4	—	—
Kyoto	28·2	68	5 47	- 2	—	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	Σ	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Yagi	28.2	68	5 59	+10	—	—	—	—
Siomisaki	28.2	72	5 51	+ 2	10 41	+ 6	—	—
Hikone	28.4	68	5 57	+ 6	—	—	—	—
Tu	28.8	69	6 2	+ 8	—	—	—	—
Kameyama	28.8	69	5 52	- 2	11 4	+19	—	—
Ibukisan	28.8	67	6 4	+10	—	—	—	—
Gihu	29.1	68	5 57	0	11 0	+10	—	—
Nagoya	29.2	69	e 6 0	+ 2	—	—	24.5	—
Wazima	29.4	63	6 5	+ 5	11 5	+10	—	—
Bombay	29.4	257	e 6 4	+ 4	i 11 5	+10	—	—
Toyama	29.5	65	7 2	+61	—	—	—	—
Matumoto	30.1	66	6 51	PP	—	—	—	—
Omaesaki	30.2	69	6 42	PP	—	—	—	—
Nagano	30.3	65	6 20	+12	11 34	+25	—	—
Tchinkent	30.3	305	e 7 53	PPP	—	—	—	—
Kodaikanal	E. 30.4	238	e 5 49?	-20	—	—	—	—
Kohu	30.5	69	6 24	+15	—	—	—	—
Oiwake	30.6	66	6 14	+ 4	—	—	—	—
Hunatu	30.7	69	6 10	- 1	—	—	—	—
Misima	30.9	69	6 34	+21	—	—	—	—
Maebasi	31.0	66	6 26	+12	—	—	—	—
Kumagaya	31.2	68	6 35	+19	—	—	—	—
Tokyo	31.5	69	7 28	PP	—	—	—	—
Kakioka	31.9	66	6 24	+ 2	—	—	—	—
Mito	32.1	66	6 29	+ 5	—	—	—	—
Hokusima	32.2	65	6 27	+ 3	—	—	—	—
Tyosi	32.4	68	6 32	+ 6	—	—	—	—
Sendai	32.6	63	6 26	- 2	—	—	—	—
Mizusawa	E. 32.9	61	e 6 6	-25	e 11 52	+ 3	15.8	—
Sapporo	33.7	54	9 16	(- 5)	—	—	—	—
Titizima	34.3	83	11 59	S	(11 59)	-12	—	—
Batavia	35.1	173	i 6 46	- 4	i 12 23	0	—	—
Amboina	40.3	138	e 7 24	-11	—	—	—	—
Sverdlovsk	40.9	325	1 7 37	- 3	i 13 57	+ 7	19.2	22.8
Baku	44.7	300	8 17	+ 7	15 3	+17	22.8	27.4
Grozny	47.7	304	e 8 43	+ 9	—	—	26.8	—
Tiflis	48.5	301	8 45	+ 5	15 49	+ 9	25.5	31.4
Erevan	48.9	300	e 9 37	+54	—	—	30.8	—
Platigorsk	49.6	305	e 8 51	+ 3	—	—	24.8	—
Moscow	53.1	319	e 9 16	+ 1	e 16 51	+ 8	23.8	29.2
Theodosia	55.0	307	e 9 34	+ 5	e 17 25	+16	31.8	—
Yalta	55.9	307	e 9 39	+ 4	e 17 33	+12	24.8	—
Simferopol	55.9	307	e 9 42	+ 7	e 17 38	+17	29.8	—
Sebastopol	56.3	307	e 9 48	+10	e 17 47	+20	32.8	—
Ksara	56.8	292	i 9 43 _a	+ 1	i 17 51	+17	28.8	—
Pulkovo	57.0	325	1 9 46	+ 3	i 17 42	+ 6	32.3 _R	30.4
Bucharest	61.6	308	e 10 19	+ 3	18 49	+12	e 29.8	36.8
Helwan	61.8	290	e 10 11	- 5	i 18 44	+ 7	—	—
Königsberg	62.8	320	e 10 31	+ 7	i 19 1	+ 9	e 33.5	34.1
Upsala	63.3	326	10 25	- 2	19 1	+ 2	e 30.8	35.1
Belgrade	65.4	318	e 10 44	+ 3	e 19 33	PS	e 38.4	—
Budapest	65.5	312	10 45	+ 3	19 39	PS	35.8	39.3
Vienna	67.0	314	e 10 56	+ 4	e 19 55	PS	e 36.8	39.8
Copenhagen	67.0	323	10 51	- 1	19 52	PS	30.8	—
Prague	67.6	316	e 11 1	+ 5	e 20 1	PS	e 32.8	37.3
Zagreb	68.0	311	e 11 0	+ 2	e 20 4	+ 7	e 34.8	40.4
Graz	68.0	312	i 10 55	- 3	e 20 1	+ 4	e 33.8	40.4
Cheb	68.9	317	e 11 7	+ 3	e 20 19	+11	e 25.8	33.8
Hamburg	69.1	321	e 11 5	0	i 20 19	+ 9	e 32.8	37.8
Jena	69.1	317	e 11 5	0	—	—	e 34.8	37.8
Triest	69.6	312	i 11 8 _a	0	i 20 24	+ 8	e 32.8	38.9
Göttingen	69.8	319	i 11 11	+ 2	e 20 25	+ 6	e 33.8	38.8
Padova	70.9	312	e 11 23	+ 7	20 39	+ 7	e 40.9	—
Stuttgart	71.3	316	e 11 19	0	e 20 43	+ 6	e 36.8	44.7
College	71.7	25	—	—	e 19 59	-42	e 33.9	—

Continued on next page.

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	Δ °	Az. °	F. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Chur	71.8	315	e 11 18	- 4	e 20 45	+ 2	—	—
Adelaide	71.9	150	e 11 8	-14	e 21 4	PS	33.7	44.5
Florence	71.9	310	11 19	- 3	20 49	+ 5	—	—
Zurich	72.2	315	e 11 21	- 3	e 20 57	+10	—	—
Strasbourg	72.2	316	i 11 23a	- 1	i 20 53	+ 6	e 30.8	39.8
De Bilt	72.3	321	11 27	+ 2	20 56	+ 8	e 33.8	40.2
Basle	72.8	315	e 11 26	- 2	—	—	—	—
Uccle	73.3	319	11 33	+ 2	i 21 7	+ 7	e 33.8	40.7
Neuchatel	73.4	315	e 11 28	- 3	—	—	—	—
Scoresby Sund	73.5	343	11 30	- 2	21 4	+ 1	36.8	—
Edinburgh	75.0	326	e 10 29	-71	e 21 25	+ 5	e 37.8	45.9
Paris	75.3	318	e 11 45	+ 3	e 20 49?	-35	37.8	40.8
Kew	75.6	321	e 11 46	+ 2	e 21 32	+ 5	e 39.8	40.7
Bidston	76.2	324	e 11 16	-31	e 21 6	-28	e 34.8	40.3
Rathfarnham Castle	77.9	325	—	—	e 21 40	-13	39.0	44.5
Algiers	80.6	306	i 12 9	- 2	i 22 28	+ 6	e 39.8	—
Almeria	84.3	309	e 12 40	+10	e 22 43	[-11]	e 48.8	—
Granada	84.9	310	e 12 27	- 6	22 20	[-38]	—	—
Ivigtut	87.1	347	—	—	23 24	- 4	42.8	—
San Fernando	87.1	310	20 55	?	(e 23 33)	+ 5	44.8	47.8
Victoria	92.4	28	e 24 15	S	(e 24 15)	- 3	e 39.5	51.6
Bozeman	99.4	23	—	—	e 41 13	?	e 49.3	—
Ottawa	105.9	358	—	—	e 27 49?	PS	e 48.8	—
Mount Wilson	z. 106.0	34	e 17 55	[-10]	—	—	—	—
Pasadena	106.0	34	e 17 47	[-18]	—	—	e 59.1	—
Toronto	107.6	1	—	—	e 36 49?	?	49.3	—
Tucson	111.0	31	e 19 20	PP	e 28 43	PS	e 45.9	—
Florissant	111.3	11	e 19 10	PP	i 28 54	PS	e 48.4	64.0
La Paz	165.4	325	e 20 3	[+ 4]	—	—	—	—

Additional readings :—

Phu-Lien iPP_g = +2m.36s.
 Nanking iSEN = +5m.55s., iSS = +6m.12s.
 Calcutta PPE = +3m.46s., SSE = +7m.10s.
 Chiufeng i = +3m.37s., iE = +6m.40s.
 Zi-ka-wei iE = +5m.6s., iN = +8m.1s., +8m.11s., +8m.22s., +9m.1s.,
 +9m.12s., and +10m.23s.
 Manila ePEN = +5m.29s.
 Husan e = +6m.47s.
 Vladivostok e = +12m.4s., e = +12m.45s., +13m.43s., and +14m.35s.
 Toyooka PEN = +5m.49s., eSE = +10m.54s.
 Sumoto PZ = +5m.43s., eSZ = +10m.35s.
 Bombay SSEN = +12m.33s.
 Tiflis P_cP = +10m.5s., PP = +10m.44s., iSS = +19m.36s., L_q = +22.0m.
 Ksara iP_cP = +10m.40s. = PP +14s., PP = +11m.55s., P_cS = +14m.32s., SS =
 +21m.49s.
 Pulkovo L_q = +27.8m.
 Bucharest eP_cPE = +11m.10s.
 Königsberg eE = +19m.12s. and +23m.10s., eN = +25m.58s. and +28m.20s.
 Belgrade e = +21m.0s.
 Copenhagen +24m.37s., +27m.19s.
 Zagreb eP_cP = +11m.16s., ePS = +20m.25s., eSSSNE = +27m.49s.?
 Hamburg ePSE = +21m.6s.
 Jens eEN = +11m.19s.
 Trieste e = +28m.11s.
 Stuttgart ePPP = +15m.41s.
 Adelaide e = +16m.14s.
 Uccle SSN = +25m.54s., SSSSEN = +29m.18s.
 Scoresby Sund +25m.55s.
 Kew eSSSEN = +30m.23s.
 Bidston eSSS = +30m.4s.
 San Fernando eSSS = +37m.12s.; S is given as ePPP.
 Ottawa e = +36m.49s.?
 Mount Wilson iZ = +18m.38s. = PP +10s.
 Pasadena iZ = +18m.43s. = PP +15s.
 Tucson eSS = +34m.43s.
 Florissant iPPSN = +29m.55s.
 La Paz iZ = +20m.13s.
 Long waves at Honolulu, Riverview, Wellington, Sitka, Seattle, Columbia,
 Charlottesville, Chicago, Ann Arbor, Oak Ridge, Ukiah, Philadelphia, San
 Juan, Huancayo, Rio de Janeiro, Bergen, Durban, Stonyhurst, Laibach,
 Cape Town, Tortosa, Barcelona, and Malaga.

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April 26d. Readings also at 0h. (Christchurch), 2h. (near Nagoya and Sumoto), 5h. (Mount Wilson, Pasadena, Sverdlovsk, Tashkent, Manila, and near Mizusawa), 6h. (near Bagnères and Triest), 8h. (Christchurch), 10h. (near Hukuoka B), 11h. (Chiufeng, Phu-Lien, and Nanking), 12h. (Sumoto and Phu-Lien), 14h. (Malaga, Toledo, and near Granada), 16h. (Lick and near Fresno), 22h. (Amboina, Manila, Samarkand, and near Apia), 23h. (Christchurch).

April 27d. 1h. 33m. 28s. Epicentre 28°·7N. 103°·2E. (as on 26d. 23h.). R.1.

	Δ	Az.	P.		O-C.	S.	O-C.	L.	M.
	°	°	m.	s.	s.	m. s.	s.	m.	m.
Phu-Lien	E. 8.5	157	e 1	55	- 5	—	—	—	5.1
Hong Kong	11.8	120	4	27	S	(4 27)	-31	6.2	7.0
Nanking	13.9	72	3	12	- 2	5 51	+ 2	6.6	9.0
Chiufeng	15.6	40	e 3	33	- 3	e 6.39	SS	—	9.0
Tainan	16.3	106	3	51	+ 6	—	—	—	—
Taito	17.2	106	4	1	+ 4	—	—	—	—
Zinsen	21.4	60	e 5	9	PP	e 8 52	SS	e 11.2	—
Keizyo	21.7	61	—	—	—	i 8 43	+ 3	e 11.6	—
Manila	21.7	127	i 4	47	- 1	9 2	SS	—	—
Agra	E. 22.3	271	i 4	54	0	i 8 59	+ 7	—	—
Taikyu	22.6	65	4	55	- 2	9 3	+ 6	—	—
Husan	22.8	67	4	55	- 4	9 3	+ 2	12.4	—
Unsendake	23.5	73	5	12	+ 7	—	—	—	—
Hukuoka B	23.7	72	e 5	10	+ 3	e 9 1	-17	—	—
Kumamoto	23.9	72	5	8	- 1	—	—	—	—
Miyazaki	24.5	77	5	13	- 2	9 36	+ 4	—	—
Medan	25.4	191	5	30	+ 6	—	—	i 14.8	—
Matuyama	25.7	71	5	23	- 3	9 54	+ 1	—	—
Koti	26.3	72	5	30	- 2	16 16	+13	—	—
Frunse	27.0	309	e 5	37	- 1	—	—	—	—
Vladivostok	27.1	51	e 6	20	PP	—	—	14.3	16.9
Kobe	27.7	70	e 5	45	+ 1	e 10 32	+ 5	—	18.4
Andijan	27.9	303	e 5	51	+ 5	—	—	—	—
Osaka	28.0	70	5	42	- 5	—	—	—	—
Gihu	29.1	68	5	55	- 2	11 0	+10	—	—
Nagoya	29.2	69	e 5	59	+ 1	(e 11 2)	+11	e 11.0	—
Wazima	29.4	63	5	51	- 9	—	—	—	—
Nagano	30.3	65	6	17	+ 9	11 30	+21	—	—
Oiwake	30.6	66	6	14	+ 4	—	—	—	—
Samarkand	31.6	299	6	26	+ 7	—	—	—	—
Batavia	35.1	173	i 6	47	- 3	e 12 23	0	e 18.4	—
Sverdlovsk	40.9	325	i 7	40	0	13 54	+ 4	20.5	—
Tiflis	48.5	301	e 8	43	+ 3	e 15 52	+12	e 26.5	—
Theodosia	55.0	307	e 9	30	+ 1	—	—	—	—
Simferopol	55.9	307	e 9	38	+ 3	—	—	—	—
Yalta	55.9	307	e 9	36	+ 1	—	—	—	—
Sebastopol	56.3	307	e 9	38	0	—	—	—	—
Ksara	56.8	292	i 9	45 ^a	+ 3	17 55	PS	—	—
Palkovo	57.0	325	e 19	43	0	e 17 47	PS	28.5	34.0
Upsala	E. 63.3	326	e 10	27	0	—	—	—	—
Copenhagen	67.0	323	i 10	52 ^a	0	—	—	34.5	—
Vienna	67.0	314	e 10	53	+ 1	—	—	—	—
Zagreb	68.0	311	e 10	59	+ 1	e 20 4	+ 7	—	—
Triest	69.6	312	i 11	8 ^a	0	20 24	+ 8	—	43.5
Stuttgart	71.3	316	e 11	19	0	e 19 32	-65	e 41.5	—
Chur	71.8	315	e 11	21	- 1	—	—	—	—
Strasbourg	72.2	316	e 11	32 ³	+ 8	—	—	e 36.5	—
Zurich	72.2	315	e 11	24	0	—	—	—	—
De Bilt	72.3	321	11	25	0	—	—	e 37.5	40.5
Basle	72.8	315	e 11	26	- 2	—	—	—	—
Uccle	73.3	319	e 11	30	- 1	—	—	e 38.5	—
Neuchatel	73.4	315	e 11	30	- 1	—	—	—	—

For Notes see next page.

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NOTES TO APRIL 27d. 1h. 33m. 28s.

Additional readings :—

Phu-Lien $P_sE = +2m.34s.$, $S_sE = +4m.22s.$
 Hong Kong $S? = +5m.38s.$, $? = +5m.53s. = S^* + 4s.$
 Agra $SSE = +9m.53s.$
 Kobe $eN = +11m.7s.$
 Sverdlovsk $e = +7m.45s.$
 Tiflis $ePP = +10m.41s.$
 Ksara $P_cP = +10m.44s.$, $PP = +11m.57s.$, $SS = +22m.2s.$
 Long waves were also recorded at Calcutta and Hamburg.

April 27d. 3h. 36m. 55s. Epicentre $28^{\circ}7N. 103^{\circ}2E.$ (as at 1h.).		R.3.						
	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	8.5	157	e 2 13	+13	4 29	S_s	—	—
Nanking	13.9	72	3 15	+ 1	—	—	7.1	7.9
Chiufeng	15.6	40	e 3 37	+ 1	e 6 45	+16	7.9	9.8
Manila	21.7	127	4 27	-21	8 47	+ 7	—	—
Agra	E. 22.3	271	4 56	+ 2	e 9 4	+12	—	—
Husan	22.8	67	e 4 57	- 2	9 5	+ 4	12.8	—
Hukuoka B	23.7	72	e 9 37	S	(e 9 37)	+19	—	—
Medan	25.4	191	e 3 3	?	—	—	—	—
Frunse	27.0	309	e 5 56	+18	—	—	—	—
Vladivostok	27.1	51	—	—	e 12 5	+108	14.1	15.7
Bombay	29.4	257	—	—	e 11 5?	+10	—	—
Samarkand	31.6	299	e 6 23	+ 4	—	—	—	—
Batavia	35.1	173	5 47	-63	e 12 24	+ 1	e 19.6	—
Sverdlovsk	40.9	325	i 7 37	- 3	—	—	—	—
Ksara	56.8	292	i 9 47	+ 5	e 18 20	PS	—	37.1
Pulkovo	57.0	325	—	—	e 17 42	+ 6	29.1	33.2
Scoresby Sund	73.5	343	—	—	17 5?	?	—	—

Additional readings :—

Hukuoka B $eS? = +13m.29s.$
 Long waves were also recorded at Calcutta, Hong Kong, Taikyū, Baku, Tiflis, and some European stations.

April 27d. 5h. 42m. 37s. Epicentre $28^{\circ}7N. 103^{\circ}2E.$ (as at 3h.).		X.						
	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	8.5	157	e 2 23	P^*	—	—	—	—
Nanking	13.9	72	e 3 24	+10	—	—	7.1	8.7
Calcutta	E. 14.7	248	—	—	15 20	-48	—	10.5
Chiufeng	15.6	40	e 3 33	- 3	e 6 38	+ 9	e 8.1	8.9
Manila	21.7	127	8 34	S	(8 34)	- 6	—	—
Agra	E. 22.3	271	e 4 59	+ 5	8 59	+ 7	—	—
Vladivostok	27.1	51	—	—	e 11 26	SS	13.9	15.8
Bombay	29.4	257	e 8 23?	?	—	—	e 16.4	—
Sverdlovsk	40.9	325	e 7 38	- 2	—	—	21.4	—

Additional readings :—

Phu-Lien $S_s = +5m.5s.$
 Manila $S = +12m.45s.$
 Long waves were also recorded at Hukuoka B, Hong Kong, Baku, Pulkovo, Copenhagen, De Bilt, Uccle, and Strasbourg.

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April 27d. 6h. 31m. 11s. Epicentre 17°·2N. 86°·3W. (as on 1933 June 10d.). R.2.

A = +·0616, B = -·9533, C = +·2957; $\delta = +1$;
D = -·998, E = -·065; G = +·019, H = -·295, K = -·955.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Merida	N.	4.9	321	1 22	P*	—	—	—	—
Oaxaca	N.	10.0	271	2 1	-20	—	—	—	—
Balboa Heights	N.	10.5	141	2 25	- 3	—	—	—	—
Tacubaya	N.	12.5	282	2 40	-15	—	—	—	—
Columbia		17.4	14	e 4 1	+ 2	e 7 27	+16	e 9.4	—
Little Rock		18.4	344	e 4 7	- 4	e 7 21	-12	i 8.4	—
San Juan		19.2	86	e 4 23	+ 2	e 7 49	- 1	e 9.2	—
St. Louis		21.7	351	e 4 47	- 1	e 8 49	+ 9	i 11.8	17.6
Florissant		21.9	350	i 4 49	- 1	i 8 51	+ 7	i 10.6	17.4
Charlottesville		21.9	17	e 4 53	+ 3	e 9 3	SS	e 11.6	—
Georgetown		23.1	18	i 5 11	+ 9	i 9 31	+24	—	—
Chicago		24.6	356	—	—	e 9 34	0	e 15.7	—
Pennsylvania		24.7	16	e 5 17	0	e 10 0	+24	—	15.5
Philadelphia		24.7	22	i 5 21	+ 4	i 9 52	+16	i 14.0	—
Ann Arbor	E.	25.2	5	e 5. 43	+21	e 10 7	+23	e 14.7	—
Fordham		26.0	22	e 5 30	+ 1	e 10 8	+10	—	—
Madison		26.0	355	i 5 34	+ 5	e 10 20	+22	—	16.4
Buffalo		26.5	14	i 5 34	0	e 10 18	+11	e 13.2	—
Tucson		26.8	309	e 5 34	- 2	e 10 8	- 4	e 13.3	—
Toronto		27.1	12	e 5 22	-17	e 10 22	+ 5	13.4	—
Oak Ridge		28.3	23	—	—	e 10 49	+12	e 14.8	—
Ottawa		29.5	15	—	—	e 11 5	+ 9	e 15.3	—
Huancayo		31.2	159	e 6 8	- 8	—	—	e 14.0	—
Mount Wilson	z.	33.0	308	e 6 33	+ 1	—	—	—	—
Pasadena		33.1	308	e 6 29	- 4	—	—	e 17.1	—
Tinemaha		34.4	312	e 6 41	- 3	—	—	—	—
Berkeley		37.6	311	i 7 5	- 7	e 12 58	- 2	—	—
La Paz		38.2	151	e 7 35	+18	—	—	18.1	22.2
Ukiah		38.8	312	e 9 1	PP	e 13 19	+ 1	—	—
Victoria		43.3	325	e 14 34	S	(e 14 34)	+ 9	e 28.4	—
Sitka		54.0	330	—	—	e 16 59	+ 3	e 30.8	—
Rio de Janeiro		58.2	132	—	—	e 19 29	?	e 29.3	—
Scoresby Sund		65.4	19	10 43	+ 2	19 43	+18	28.8	—
Uccle		77.2	41	—	—	e 21 57	+12	e 32.8	—
De Bilt		77.4	39	—	—	e 21 49?	+ 2	e 35.8	44.3
Copenhagen		80.7	35	—	—	22 25	+ 2	40.8	—
Pulkovo		87.7	28	e 12 48	+ 2	i 23 31	- 3	46.8	52.6
Sverdlovsk		101.0	18	—	—	e 24 30	[- 1]	45.8	54.5
Ksara		105.0	48	e 18 31	PP	e 27 57	PS	49.8	—
Tashkent		117.3	20	—	—	e 30 1	PS	e 56.0	67.1

Additional readings:—

Little Rock ePE = +4m.10s., ipPN = +4m.18s. = PP - 2s., iPPN = +4m.31s.,
isPN = +4m.45s., iN = +5m.15s. and +5m.27s., isSEN = +7m.45s. =
SS - 2s., isSEN = +8m.3s.

San Juan is = +8m.8s. = SS + 1s.

St. Louis epPE = +4m.59s., IPPE = +5m.5s., isPN = +5m.12s., isSE =
+9m.11s., isSN = +9m.14s., isSN = +9m.29s.

Florissant ipPNZ = +5m.1s., IPPNZ = +5m.6s., isPNZ = +5m.15s., isSEZ =
+9m.12s., isS - 2s., isSEN = +9m.33s., iZ = +9m.45s., is_cSZ = +16m.14s.

Chicago e = +10m.39s. and +11m.24s.

Pennsylvania e = +6m.6s. and +6m.14s.

Philadelphia iPP = +5m.34s., e = +11m.13s. and +12m.26s.

Ann Arbor eE = +7m.49s., iE = +12m.7s.

Buffalo e = +9m.1s. = P_cP + 2s.

Oak Ridge eN = +11m.49s. = SS + 0s.

Huancayo e = +7m.49s., eP_cP = +9m.3s., e = +9m.49s.

Berkeley eSN = +13m.8s.

La Paz PZ = +8m.53s.

Rio de Janeiro eN = +19m.49s. = S_cS + 10s.

Scoresby Sund +23m.49s. = SS + 17s.

Uccle eE = +27m.46s.

Copenhagen +27m.49s.

Sverdlovsk e = +27m.12s. = PS + 14s.

Tashkent e = +31m.31s. and +43m.13s.

Long waves were also recorded at College, Boston, Ithaca, Ivigtut, Edinburgh,
Kew, Paris, Cheb, Strasbourg, Stuttgart, San Fernando, Cape Town, and
Chiufeng.

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April 27d. 12h. 51m. 14s. Epicentre 36°2N. 141°0E. N.1.
(epicentre given by Japanese stations).

A = -0.6271, B = +0.5078, C = +0.5906; $\delta = -8$;
D = +0.629, E = +0.777; G = -0.459, H = +0.372, K = -0.807.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mito	0.4	293	0 6 _a	0	0 13	+ 3	—	—
Tyosi	0.5	193	0 5 _a	- 2	0 13	0	—	—
Kakioka	0.7	273	0 7 _a	- 3	0 17	- 1	—	—
Onahama	0.7	354	0 20	+10	0 37	+19	—	—
Tukubasan	0.7	271	0 9 _a	- 1	0 19	+ 1	—	—
Tokyo	1.1	243	0 15 _k	- 1	0 32	S*	—	0.6
Katuura	1.2	208	0 18	+ 1	0 34	S*	—	—
Komaha	1.2	243	0 15	- 2	0 31	0	—	—
Kiyosumi	1.3	220	0 18	0	0 36	+ 3	—	—
Kumagaya	1.3	268	0 17 _a	- 1	0 35	+ 2	—	—
Mitaka	1.3	246	0 18	0	0 37	+ 4	—	—
Yokohama	1.4	235	0 20 _a	0	0 38	+ 2	—	—
Kamakura	1.5	233	0 24	P*	0 44	S*	—	—
Maebasi	1.5	277	0 20 _a	- 1	0 43	S*	—	—
Hukusima	1.6	345	0 19 _a	- 4	0 36	- 5	—	—
Mera	1.6	216	0 23	0	0 48	S _s	—	—
Oiwake	1.9	274	0 28	0	0 55	+ S _s 6	—	—
Hunatu	2.0	249	0 29	0	1 1	+ S _s 3	—	—
Ito	2.0	231	0 31	P*	0 54	+ S _s 3	—	—
Misima	2.0	237	0 30	+ 1	1 2	S _s	—	—
Numadu	2.0	238	0 33	P _s	—	—	—	—
Kohu	2.1	254	0 28	- 2	—	—	—	—
Yamagata	2.1	346	0 25	- 5	0 49	- 5	—	—
Isinomaki	2.2	6	0 26	- 5	0 49	- 8	—	—
Nagano	2.3	282	0 33	0	1 2	+ 3	—	—
Niigata	2.3	318	0 38	P _s	1 11	S _s	—	—
Susaki	2.3	227	0 32	- 1	1 4?	S*	—	—
Takada	2.4	292	0 33	- 1	1 12	S _s	—	—
Matumoto	2.4	271	0 37	P*	1 3	+ 1	—	—
Iida	2.6	255	0 41	P*	—	—	—	—
Mizusawa	2.9	2	1 0 39	- 2	1 10	- 4	—	—
Takayama	3.0	269	0 44	+ 1	—	—	—	—
Toyama	3.1	279	0 47	+ 3	1 28	S*	—	—
Hatidyozima	3.3	198	0 49	+ 2	1 24	- 1	—	—
Nagoya	3.4	254	0 49	0	1 44	S*	—	1.9
Gihu	3.5	258	0 53	+ 3	1 34	+ 4	—	—
Kanazawa	3.5	277	0 51	+ 1	1 37	+ 7	—	—
Miyako	3.5	13	0 52	+ 2	1 28	- 2	—	—
Morioka	3.5	1	0 44 _k	- 6	1 23	- 7	—	—
Wazima	3.5	291	0 53	+ 3	1 41	S*	—	—
Ibukisan	3.8	258	1 0	P*	1 42	+ 5	—	—
Kameyama	3.9	251	0 58	+ 2	1 56	+ S*	—	—
Hikone	4.0	257	0 58	+ 1	1 46	+ 4	—	—
Kyoto	4.4	256	1 17	P _s	—	—	—	—
Yagi	4.5	250	1 13	P*	—	—	—	—
Aomori	4.6	358	1 2	- 4	1 54	- 4	—	—
Miyadu	4.7	263	1 11	+ 4	—	—	—	—
Osaka	4.7	253	1 5	- 2	2 5	+ 5	—	—
Kobe	E.N. Z. 5.0	254	e 1 13	+ 2	e 2 26	S*	—	2.8
	5.0	254	e 1 18	P*	2 28	S*	—	2.8
Toyooka	5.0	264	1 35	P _s	2 27	S*	—	3.1
Siomisaki	5.1	239	1 21	P*	2 44	S _s	—	—
Wakayama	5.2	250	1 6	- 8	2 16	+ S _s 3	—	—
Sumoto	5.3	251	1 25	P*	2 36	+ S*	—	2.9
Hakodate	5.6	358	1 20	0	2 29	+ 6	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Tokusima	5.6	250	1 22	+ 2	3 7	S_g	—	—
Urakawa	6.1	12	1 6	-21	2 16	-20	—	—
Obihiro	6.9	13	1 28	-10	2 47	- 9	—	—
Sapporo	6.9	2	1 32	- 6	3 0	+ 4	—	—
Matuyama	7.2	253	1 45	+ 3	4 11	S_g	—	—
Miyazaki	9.0	245	2 9	+ 2	5 1	S_g	—	—
Hukuoka B	9.1	257	2 15	+ 6	5 12	S_g	—	—
Titizima	9.2	174	2 5	- 5	—	—	—	—
Vladivostok	9.8	317	e 2 24	+ 6	—	—	4.8	—
Nanking	18.8	264	e 4 20	+ 4	—	—	e 10.4	12.8
Chiufeng	E. 19.9	289	—	—	e 6 8	?	—	—
Tashkent	54.5	299	—	—	—	—	28.5	—
Sverdlovsk	55.3	319	e 9 26	- 5	—	—	29.8	—
Tinemaha	Z. 76.4	55	i 11 42	- 6	—	—	—	—
Mount Wilson	Z. 78.2	56	i 12 0	+ 2	—	—	—	—
Pasadena	Z. 78.2	56	i 12 0	+ 2	—	—	—	—

Additional readings:—

Kobe eSE = +2m.30s. = $S^* + 3s$.

Toyooka SN = +2m.41s. = $S_g + 2s$.

Long waves were also recorded at Baku, and Copenhagen.

April 17d. Readings also at 0h. (La Paz, Basle, Chur, Zurich, Zagreb, Nanking (2), and Hong Kong), 1h. (Hong Kong, Chiufeng, Nanking, and Phu-Lien), 2h. (Bozeman and Jena), 3h. (Merida, Tacubaya, St. Louis, Tucson, Almeria, Almata, and Frunse), 4h. (Agra, Chiufeng (2), Hong Kong (2), Nanking (2), and near Phu-Lien (2)), 6h. (Amboina), 8h. (Bombay, Calcutta, and Agra), 10h. (Amboina and Tchikent), 11h. (Nanking, Hong Kong, Phu-Lien, and Chiufeng), 14h. (Tiflis, Nagoya, near Kobe, Sumoto, and near Mizusawa), 16h. (Almata, Frunse, Samarkand, and near Andijan), 17h. (Tchikent), 22h. (La Paz and Tiflis).

April 28d. 5h. 39m. 2s. Epicentre $9^{\circ}5S$. $160^{\circ}8E$. (as on 1935 Dec. 15d.). R.2.

$A = -.9314$, $B = +.3244$, $C = -.1650$; $\delta = -3$;
 $D = +.329$, $E = +.944$; $G = +.156$, $H = -.054$, $K = -.986$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Riverview	25.9	199	e 5 30	+ 2	i 9 54	- 3	e 12.0	14.7
Sydney	25.9	199	e 5 10	-18	i 10 8	+11	14.0	16.7
Arapuni	31.6	158	—	—	11 46	+17	16.0	—
Melbourne	31.7	205	—	—	i 11 22	- 9	14.1	17.6
Adelaide	32.5	216	e 6 23	- 4	i 11 23	-20	15.1	18.4
Wellington	34.1	163	6 47	+ 6	12 9	+ 1	16.0	25.0
Christchurch	35.6	166	i 6 55	+ 1	i 12 33	+ 3	e 17.1	19.8
Manila	46.3	301	8 21 _a	- 2	14 34	-35	20.5	—
Perth	47.2	235	—	—	e 15 58	+37	i 24.4	26.0
Kobe	50.4	333	e 14 25	?	—	—	—	27.2
Honolulu	51.0	53	—	—	e 16 36	+21	23.2	—
Batavia	Z. 53.5	270	e 9 10	- 8	—	—	—	—
Hong Kong	55.7	307	9 34	0	17 5	-14	—	29.5
Nanking	57.8	317	9 48	- 1	17 38	- 9	e 27.4	30.4
Vladivostok	58.8	336	e 9 54	- 2	e 17 58	- 2	24.4	35.0
Phu-Lien	61.3	300	—	—	(17 58?)	-35	18.0	—
Chiufeng	E. 64.5	324	10 31 _k	- 4	i 19 10	- 4	32.1	36.5
	N. 64.5	324	10 33 _k	- 2	19 1	-13	32.1	34.2
Calcutta	E. 77.8	296	e 12 0	+ 3	i 21 39	-13	—	—
Colombo	82.2	278	12 14	- 5	22 34	- 5	—	—
College	83.6	20	—	—	e 22 47	- 6	—	—
Sitka	84.3	29	e 12 23	- 7	e 23 3	+ 2	e 35.0	—
Kodaikanal	E. 85.3	282	e 9 58?	?	—	—	—	—
Ukiah	85.3	50	—	—	e 22 10	-61	—	—
Hyderabad	85.7	288	—	—	22 56	[- 8]	—	59.9

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.
Santa Barbara	86.8	55	e 12 52	+10	—	—	—	—
Victoria	E. 87.9	40	e 23 15	S	(e 23 15)	[- 5]	e 42.0	50.8
Agra	E. 88.0	298	e 12 47	- 1	23 7	[-13]	—	—
Pasadena	88.0	55	i 12 49 _a	+ 1	e 23 51	+14	e 42.1	—
Mount Wilson	Z. 88.1	55	i 12 50 _a	+ 2	—	—	—	—
La Jolla	88.5	57	e 12 54	+ 4	—	—	—	—
Tinemaha	88.6	53	e 12 52	+ 1	—	—	—	—
Bombay	91.2	289	i 13 3	0	i 23 32	[- 8]	—	—
Tucson	93.7	58	e 13 24	+10	e 24 29	- 1	e 40.5	—
Andijan	95.0	311	e 13 11	- 9	e 24 27	{+12}	—	—
Tashkent	97.4	312	e 18 10	?	i 24 7	[- 6]	—	53.4
Sverdlovsk	103.5	327	14 33	+33	25 34	{+15}	43.0	60.4
Florissant	110.6	51	e 18 53	[+33]	e 26 26	{+15}	e 54.6	58.0
Baku	112.0	310	19 14	PP	—	—	57.0	71.2
Chicago	112.4	47	—	—	e 28 58?	PS	e 58.0	—
Tiflis	115.6	312	e 18 44	[+10]	e 25 39	[+ 3]	57.8	62.0
Pulkovo	117.7	334	19 59	PP	26 52	{- 9}	54.0	64.8
Scoresby Sund	119.0	2	—	—	29 58	PS	51.0	—
Ottawa	120.0	41	—	—	e 25 58?	[+ 8]	e 50.0	—
Huancayo	120.2	109	—	—	e 30 26	PS	e 67.0	—
Philadelphia	122.0	48	—	—	e 25 59	[+ 3]	66.3	—
Cape Town	123.8	217	—	—	e 37 58	SS	53.0	66.6
Ksara	124.1	304	e 19 1	[+ 6]	—	—	—	—
La Paz	125.0	117	e 30 58	PS	—	—	61.0	—
Copenhagen	127.6	337	21 28	PP	38 16	SS	57.0	—
Cheb	131.7	333	e 21 58?	PP	—	—	—	72.0
De Bilt	133.0	339	e 22 28	PKS	—	—	e 61.0	76.9
Stuttgart	134.1	334	e 19 28	[+15]	—	—	e 66.0	—
Triest	134.1	328	e 19 54	[+41]	—	—	—	68.1
Uccle	134.4	339	e 22 52	PKS	e 39 29	SS	e 61.0	—
Strasbourg	134.9	335	(e 19 58?)	[+43]	—	—	e 20.0	—
Kew	135.3	343	—	—	e 33 51	?	e 64.0	—
Paris	136.7	340	e 21 58?	PP	—	—	73.0	83.0
San Fernando	150.6	338	e 27 11	?	e 30 36	{+10}	78.0	—

Additional readings :—

Riverview iN = +10m.4s., iE = +10m.21s.

Melbourne i = +13m.31s.

Adelaide i = +6m.44s., ePPP = +7m.34s., iSS = +12m.18s., i = +13m.4s. and +13m.58s.

Wellington PP = +7m.48s., SS = +13m.58s.?

Christchurch SS = +14m.49s., SSS = +15m.17s., iS_cSE = +17m.16s.

Honolulu eSS = +19m.31s.

Hong Kong S_cS? = +19m.11s.

Chiufeng P_cPZ = +11m.9s., iEN = +20m.26s. = S_cS + 1s., SSE = +23m.7s., iN = +26m.23s., iE = +26m.34s.

Agra iN = +23m.20s. = SKS + 0s.

Tucson e = +23m.44s., = SKS - 10s., ePS = +25m.48s., eSS = +30m.48s., e = +34m.46s.

Tashkent i = +24m.48s. = S - 16s., PS = +26m.28s., e = +31m.10s. = SS - 15s.

Sverdlovsk PKP = +18m.8s. = PP - 1s., PP = +18m.42s., PS = +27m.56s., SSS = +37m.58s.

Florissant eE = +25m.22s., = SKS = +6s., eSE = +2^m5.3s., eSZ = +28m.58s., = SKKS - 13s., iSPZ = +30m.10s., iSPE = +30m.13s., eE = +34m.9s., eSSE = +41m.18s.

Baku PS = +28m.49s., SSS = +39m.34s.

Tiflis ePP = +19m.35s., ePS = +29m.23s., eSS = +35m.17s.

Pulkovo PS = +29m.28s., SSS = +40m.4s.

Scoresby Sund +36m.22s. = SS + 3s.

Huancayo e = +56m.47s.

Philadelphia eSKKS = +27m.37s., ePS = +30m.31s., eSS = +35m.3s., e = +37m.45s., +52m.58s., and +57m.45s.

Cape Town eN = +38m.6s.

Ksara PP = +20m.37s., PS = +30m.43s., PPS = +32m.1s., SS = +37m.31s.

Stuttgart ePP = +22m.46s. = PKS - 4s.

Triest iPSKS = +22m.46s. = PKS - 4s., i = +23m.18s.

Kew eEN = +40m.4s.

San Fernando ePPS = +40m.17s., eSS = +46m.35s.

Long waves were also recorded at Apia, Columbia, Oak Ridge, Moscow, Upsala, Edinburgh, and Hamburg.

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April 28d. 13h. 35m. 54s. Epicentre 6°·8S. 129°·3E.

N.1.

$$A = -.6289, B = +.7684, C = -.1184; \quad \delta = -3;$$

$$D = +.774, E = +.633; \quad G = +.075, H = -.092, K = -.993.$$

A depth of focus 0·030 has been assumed.

	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Amboina	+0·4	3·3	341	i 0	46	-7	i 1	30	-5	—	—
Palau	-0·8	15·0	20	2	19	-59	—	—	—	—	—
Malabar	-1·3	21·5	267	i 4	29	-3	8	6	-4	—	—
Batavia	-1·4	22·3	271	i 4	33k	-6	—	—	—	—	—
Manila	-1·5	22·9	339	i 4	43k	-1	i 8	33	-1	—	—
Perth	-1·9	28·1	205	6	6	PP	10	46	SS	13·1	—
Adelaide	-2·0	29·4	164	i 5	42	0	i 10	20	-2	—	15·8
Kosyun	-2·0	30·0	345	5	45	-2	—	—	—	—	—
Medan	-2·2	32·3	288	6	7	+1	—	—	—	i 16·2	—
Hong Kong	-2·2	32·7	334	6	59	PP	11	3	-9	—	13·3
Riverview	-2·2	33·8	145	e 6	20	+1	i 12	7	+38	—	17·3
Sydney	-2·2	33·8	145	—	—	—	e 11	31	+2	18·1	19·3
Melbourne	-2·2	34·1	158	—	—	—	11	34	0	13·6	19·1
Phu-Lien	-2·3	35·5	321	e 6	31	-3	e 11	48	-6	—	—
Titizima	-2·3	36·1	21	6	40	+1	12	0	-3	—	—
Miyazaki	-2·4	38·8	1	6	54	-7	12	36	-6	—	—
Nanking	-2·5	40·1	346	7	12	0	12	58	-2	17·9	—
Hukuoka B	-2·5	40·4	1	e 7	45	+31	e 12	40	-25	—	—
Wakayama	-2·6	41·4	8	7	32	+10	—	—	—	—	—
Sumoto	-2·6	41·5	7	e 7	20	-3	e 13	19	-1	—	—
Kobe	-2·6	41·9	7	e 6	59	-27	e 13	26	0	—	—
Kyoto	-2·6	42·2	7	7	35	+6	—	—	—	—	—
Kameyama	-2·6	42·2	8	7	28	-1	13	31	+1	—	—
Hikone	-2·6	42·6	7	7	37	+5	—	—	—	—	—
Nagoya	-2·6	42·6	9	e 7	32	0	(e 13 36)	—	0	e 13·6	—
Taikyu	-2·6	42·7	0	—	—	—	e 13	37	-1	—	—
Gihu	-2·6	42·8	9	7	33	-1	13	38	-1	—	—
Tyosi	-2·7	43·9	14	7	47	+5	—	—	—	—	—
Oiwake	-2·7	44·0	12	7	42	-1	13	52	-4	—	—
Nagano	-2·7	44·3	11	7	44	-1	14	0	0	—	—
Keizyo	E. -2·7	44·4	358	—	—	—	e 14	5	+3	—	—
Zinsen	-2·7	44·4	356	e 7	37	-9	14	2	0	—	—
Wazima	-2·7	44·8	10	7	48	-1	—	—	—	—	—
Hokusima	-2·9	45·8	13	7	58	+2	14	23	+4	—	—
Mizusawa	E. -2·9	47·2	13	e 8	10	+3	e 14	46	+6	—	—
	N. -2·9	47·2	13	e 8	7	0	e 14	43	+3	—	—
Akita	-2·9	47·6	13	8	12	+2	—	—	—	—	—
Chiufeng	-3·0	48·4	347	i 8	17k	+1	i 14	47	-9	22·2	27·2
Calcutta	E. -3·0	49·6	309	8	29	+4	15	18	+5	—	—
Vladivostok	-3·1	50·0	2	i 8	30	+2	i 15	21	+4	21·0	34·5
Sapporo	-3·2	51·1	12	8	38	+3	15	38	+7	—	—
Colombo	-3·2	51·2	284	8	34	-2	15	34	+1	—	—
Christchurch	-3·3	52·7	141	(e 16 2)	2)	S	(e 16 2)	—	+10	(21·8)	—
Kodaikanal	E. -3·4	54·3	288	e 9	6p	+8	—	—	—	—	—
Hyderabad	-3·5	55·8	298	9	15	+6	16	32	-1	24·7	34·9
Agra	E. -3·6	60·1	308	i 9	39	0	17	29	-1	—	—
Bombay	-3·6	61·3	298	i 9	48	0	i 17	47	+1	—	—
Almata	-3·7	68·9	323	e 10	39	-1	19	25	+3	—	—
Frunse	-3·8	70·1	321	10	43	-4	19	40	+4	—	—
Andijan	-3·8	70·5	319	e 10	48	-2	i 19	44	+3	—	—
Samarkand	-3·8	73·8	316	e 11	15	+4	—	—	—	—	—
Sverdlovsk	-4·1	84·4	330	i 12	3	-6	22	3	-16	—	41·7
Baku	-4·1	86·4	312	12	17	-3	i 22	26	-14	41·1	—
Grozny	-4·2	90·0	314	12	35	-2	22	43	-33	—	—
Tiflis	-4·2	90·4	312	i 12	34	-5	i 22	46	-33	44·1	—
Erevan	-4·2	90·4	311	e 13	28	-11	—	—	—	—	—

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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.
Sotchi	-4.3	94.4	314	e 16	41	PP	—	—	—
Ksara	-4.3	96.6	305	e 13	11	+ 3	i 25 35	PS	—
Moscow	-4.3	96.6	325	e 14	7	+59	e 23 17	[-52]	—
Theodosia	—	97.6	316	e 17	30	PP	—	—	—
Yalta	—	98.4	316	e 17	12	PP	e 23 29	[-49]	—
Simferopol	—	98.5	316	e 17	9	PP	e 23 32	[-46]	—
Sitka	—	98.6	33	—	—	—	e 23 36	[-43]	—
Pulkovo	—	100.4	330	e 16	46	PP	i 23 36	[-51]	49.1 54.9
Zagreb	—	111.0	314	e 18	49	PP	e 24 27	[-51]	—
Tinemaha	z.	111.9	51	e 18	10	[-14]	—	—	—
Pasadena	—	112.4	55	i 18	10	[-15]	—	—	—
Mount Wilson	z.	112.5	55	e 18	10	[-15]	—	—	—
Triest	—	112.6	317	e 18	51	PP	e 28 3	PS	—
Oak Ridge	z.	139.8	23	i 18	44	[-37]	—	—	—
La Paz	z.	151.0	143	e 19	50	[+ 7]	—	—	—

Additional readings:—

Perth PP = +6m.31s., P_cP = +9m.31s.

Adelaide i = +11m.10s., +11m.41s., +12m.2s., +12m.39s., +13m.20s., and +15m.19s.; supposed second shock for which iP = +6m.25s. and iS = +11m.21s.

Riverview eZ = +6m.58s., eEN = +7m.8s., eE = +12m.10s., iE = +14m.1s.

Melbourne SS = +12m.36s.

Wakayama i = +8m.54s. = PP + 7s.

Sumoto eE = +8m.6s., eN = +8m.48s., eE = +9m.4s.

Kobe eN = +7m.24s., eZ = +8m.4s., eE = +13m.45s.

Zinsen ePPN = +8m.28s.

Chiufeng SSEN = +17m.49s.

Christchurch eEN = (+17m.8s.), eS = (+19m.38s.), P_cP = (+20m.16s.), P_cS = (+23m.54s.), S_cS = (+28m.0s.); readings for this station are given for 14h.

Agra iN = +17m.34s.

Bombay iE = +12m.8s.

Baku e = +14m.7s., +16m.59s., and +23m.17s.

Tiflis iPS = +23m.13s., e = +30m.23s.

Ksara iPP = +16m.55s., ePPS = +26m.4s., eSS = +31m.4s.

Moscow +16m.59s.

Zagreb e = +18m.52s., eNE = +20m.51s.

Tinemaha eZ = +19m.46s.

Triest i = +18m.58s. = PP - 18s.

Oak Ridge i = +22m.17s. = PP - 3s.

Long waves at Wellington, Tashkent, Copenhagen, and De Bilt.

April 28d. 16h. 20m. 29s. Epicentre 7°·0N. 137°·0E. (as on 1932 Sept. 25d.). X.

A = -·7259, B = +·6769, C = +·1219; $\delta = -2$;
D = +·682, E = +·731; G = -·089, H = +·083, K = -·993.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	17.5	297	i 4	2	+ 2	8 25	L (8.4)	—
Hong Kong	26.8	307	5	36	0	10 17	+ 5	17.2
Nanking	30.3	328	e 6	44	PP	e 11 10	+ 1	e 13.9
Vladivostok	36.4	355	7	1	0	e 12 47	+ 5	16.9 21.4
Chiufeng	38.0	334	e 7	13k	- 2	e 13 6	0	e 18.8 22.1
Tashkent	68.7	312	e 12	25	+82	i 21 5	+58	e 34.2 48.2
Samarkand	70.2	310	e 11	9	- 3	—	—	—
Sverdlovsk	76.7	327	i 11	50	0	21 33	- 6	37.5
Tiflis	87.0	312	e 12	44	+ 1	e 23 0	[-13]	e 52.5 62.9
Ksara	95.2	304	e 13	46	+25	e 24 49	+ 5	— 61.8

Additional readings:—

Hong Kong PP = +6m.11s.

Nanking eSE = +11m.16s.

Chiufeng PP = +8m.46s., iSN = +13m.10s.

Tashkent e = +27m.43s.

Tiflis SKKS = +23m.27s. = S + 0s.

Ksara e = +31m.52s.

Long waves were also recorded at Baku, Pulková, Copenhagen, Paris, Strasbourg, Stuttgart, and San Fernando.

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April 28d. 18h. 27m. 28s. Epicentre 28°·7N. 103°·2E. (as on April 27d.). R.2.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	N. 8.5	157	e 2 32	P*	4 24	S _g	—	—
Hong Kong	11.8	120	4 44	S	(4 44)	-14	6.8	7.0
Nanking	13.9	72	i 3 10	- 4	5 42	- 7	7.3	9.5
Calcutta	E. 14.7	248	e 3 29	+ 4	6 37	+29	7.8	12.5
Chiufeng	15.6	40	i 3 33k	- 3	e 6 32	+ 3	7.8	8.9
Tainan	16.3	106	—	—	7 2	+17	—	—
Taiyu	16.3	102	6 46	S	(6 46)	+ 1	—	—
Karenko	17.2	102	—	—	6 10	-56	—	—
Kosyun	17.2	109	—	—	6 55	-11	—	—
Zinsen	21.4	60	—	—	e 8 31	- 3	e 11.6	—
Keizyo	21.7	61	e 4 41	- 7	e 8 42	+ 2	e 11.6	—
Manila	21.7	127	i 4 46a	- 2	8 46	+ 6	—	14.0
Agra	22.3	271	e 4 59	+ 5	i 9 5	+13	—	—
Husan	22.8	67	—	—	e 9 3	+ 2	14.3	—
Kumamoto	23.9	72	5 7	- 2	—	—	—	—
Miyazaki	24.5	77	5 11	- 4	9 23	- 9	—	—
Hyderabad	25.3	249	5 27	+ 4	9 52	+ 6	—	18.2
Medan	25.4	191	10 50	SSS	—	—	—	—
Almata	25.6	312	e 5 37	+12	—	—	—	—
Frunse	27.0	309	e 5 43	+ 5	—	—	—	—
Vladivostok	27.1	51	5 37	- 2	10 32	+15	13.4	16.8
Andijan	27.9	303	e 6 8	+22	—	—	e 13.7	—
Bombay	29.4	257	—	—	e 10 32?	-23	—	—
Tashkent	30.2	303	4 54	?	e 11 13	+ 6	16.3	19.3
Samarkand	31.6	299	e 6 22	+ 3	e 13 50	SS	—	—
Sverdlovsk	40.9	325	7 38	- 2	13 51	+ 1	19.5	—
Tiflis	48.5	301	e 8 43	+ 3	e 15 47	+ 7	e 22.0	—
Moscow	53.1	319	e 9 14	- 1	—	—	e 28.6	—
Ksara	56.8	292	i 9 45	+ 3	i 17 51	+17	—	—
Pulkovo	57.0	325	i 9 43	0	17 39	+ 3	29.5	34.6
Copenhagen	67.0	323	10 51	+ 1	—	—	38.5	—
Tananarive	71.8	236	—	—	e 20 26	-17	—	—

Additional readings:—

Hong Kong S? = +6m.4s., ? = +6m.11s.

Nanking SE = +6m.4s.

Calcutta SS = +7m.7s.

Chiufeng SNZ = +6m.40s. = SS + 3s.

Agra SSE = +9m.59s.

Tashkent e = +6m.42s., +11m.37s., +11m.45s., and +21m.42s.

Ksara ePP = +11m.57s., eSS = +21m.55s.

Tananarive i = +20m.29s.

Long waves were also recorded at Hokoto, Taikyu, Baku, and De Bilt.

April 28d. 23h. 15m. 23s. Epicentre 36°·2N. 26°·6E. (as on 1933 May 15d.). R.2.

A = +.7215, B = +.3613, C = +.5906; $\delta = -9$;
D = +.448, E = -.894; G = +.528, H = +.264, K = -.807.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Helwan	7.5	146	e 1 52	+ 6	1 3 15	+ 4	—	—
Ksara	8.0	104	e 1 52	- 1	i 3 21	- 3	—	—
Bucharest	8.3	357	e 3 12	S	(e 3 12)	-19	—	—
Sebastopol	9.9	30	e 2 44	+25	e 4 11	0	—	—
Yalta	10.1	32	e 2 19	- 3	e 4 8	- 8	—	—
Simferopol	10.5	30	e 2 26	- 2	e 4 16	-10	—	—
Capodimonte	N. 10.7	300	e 2 47	+16	e 4 47	+16	7.5	—
Zagreb	12.5	323	e 2 59	+ 4	e 5 6	- 9	—	6.2
Triest	13.5	319	i 3 11k	+ 2	i 5 47	+ 8	—	—
Florence	13.9	308	3 17	+ 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.
Vienna	14.2	331	3 25	+ 7	—	—	—	—
Tiflis	15.2	63	e 3 30	- 1	e 6 22	+ 2	8.1	—
Grozny	16.3	58	3 54	+ 9	—	—	—	—
Chur	16.6	315	e 3 50	+ 1	e 6 53	+ 1	—	—
Ravensburg	17.1	318	e 3 57	+ 2	—	—	—	—
Zurich	17.4	316	e 3 59	0	e 7 4	- 7	—	—
Stuttgart	17.9	320	e 4 5	0	—	—	—	—
Basle	18.0	315	e 4 4	- 3	—	—	—	—
Jena	z. 18.2	328	4 8	- 1	—	—	—	—
Strasbourg	18.5	318	i 4 11 _a	- 2	—	—	—	—
Baku	18.7	70	e 5 6	+51	—	—	e 8.1	—
Göttingen	19.3	328	i 4 19	- 3	—	—	—	—
Moscow	21.0	17	e 4 31	- 9	e 8 10	-16	—	—
Alicante	21.6	284	5 25	+39	—	—	—	—
Uccle	z. 21.6	320	e 4 43	- 3	—	—	—	—
Copenhagen	21.7	338	4 42	- 6	8 31	- 9	—	—
Pulkovo	23.7	5	i 4 59	- 8	i 8 59	-19	—	—
Sverdlovsk	30.7	36	e 6 35	+24	—	—	—	—

Additional readings :—

Bucharest SEN = +4m.49s., EN = +5m.13s.

Zagreb eNE = +3m.10s.

Triest iPP = +3m.15s., e = +5m.34s., i = +6m.20s.

Tiflis e = +3m.33s. = PP - 2s., i = +6m.24s. = SS - 3s.

Basle e = +4m.8s.

Strasbourg ePP = +4m.24s., ePPPP = +4m.33s., e = +5m.1s.

Moscow e = +5m.0s. = PP + 4s. and +9m.12s.

Pulkovo i = +5m.27s. = PP - 6s. and +9m.56s. = SS - 2s.

April 28d. Readings also at 1h. (Agra, Tashkent, Samarkand, Sverdlovsk, Copenhagen, Hong Kong (2), Manila, Nanking (2), Phu-Lien (2), Vladivostok, Chiufeng (2), and near Nagoya), 2h. (Tashkent and Vladivostok), 3h. (Amboina, La Paz, near Huancayo, and near Granada), 4h. (Charlottesville), 5h. (Mizusawa), 7h. (near Batavia and Malabar), 8h. (Batavia and near Manila), 9h. (Ukiah, Huancayo, and La Paz), 10h. (Mount Wilson, Tinemaha, and Pasadena), 11h. (Mount Wilson, Pasadena, Santa Barbara, Tinemaha, Taikyu, and Tchimkent), 13h. (Nanking, Phu-Lien, near Santiago, and San Javier), 14h. (Pasadena, Tinemaha, and Hong Kong), 15h. (Andijan, Frunse, Tchimkent, Tashkent, and near Samarkand), 17h. (Besançon, Strasbourg, Ravensburg, Stuttgart, near Trieste), 18h. (Granada, near Basle, Chur, and Zurich, near Keizyo, Zinsen, and near Santiago (2)), 19h. (Tacubaya and near San Javier), 20h. (near Amboina), 21h. (near Sumoto), 23h. (Grozny and Sverdlovsk).

April 29d. 8h. 14m. 10s. Epicentre $57^{\circ}5S$. $156^{\circ}0E$. N.3.

A = - .4908, B = + .2185, C = - .8434 ; $\delta = -5$;
D = + .407, E = + .914 ; G = + .770, H = - .343, K = - .537.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Christchurch	17.4	44	i 3 57	- 2	e 7 5	- 6	18.8	10.4
Wellington	20.2	45	4 33	+ 1	8 0	-10	9.8	12.8
Melbourne	21.0	335	e 4 38?	- 2	18 47	SS	—	—
Arapuni	23.3	43	—	—	19 23	+13	10.8	—
Riverview	23.9	351	e 5 12	+ 3	19 43	+22	e 11.6	12.0
Sydney	23.9	351	e 5 40	PP	1 9 50	+29	11.4	14.0
Adelaide	25.4	325	i 5 28	+ 4	1 10 9	+21	12.4	18.2
Apia	50.0	44	(e 8 50?)	- 1	—	—	e 8.8	—
Manila	77.7	325	i 11 54 _a	- 2	20 36	-75	—	—
Vladivostok	102.6	343	e 13 10	-45	—	—	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
La Jolla	z. 115.6	68	e 14 9	-49	—	—	—	—
Pasadena	z. 116.2	67	e 14 12	-49	—	—	e 54.9	—
Mount Wilson	z. 116.3	67	i 14 10	-52	—	—	—	—
Tinemaha	z. 118.5	65	e 14 14	-58	—	—	—	—
Frunse	121.0	302	—	—	e 35 51	SS	—	—
Samarkand	122.1	294	e 33 48	?	—	—	—	—
Ksara	133.9	265	e 19 16	[+ 3]	—	—	—	—
Florissant	134.1	84	e 22 38	PKS	—	—	e 68.5	73.0
Tiflis	134.9	280	e 15 8	?	—	—	e 71.8	76.3
Sverdlovsk	137.2	307	e 19 18	[0]	—	—	55.8	—
Oak Ridge	z. 146.8	96	i 19 33	[- 4]	—	—	—	—
Moscow	147.2	293	i 19 39	[+ 2]	—	—	—	—
Pulkovo	152.4	298	e 19 49	[+ 4]	e 24 38	?	70.8	80.4

Additional readings:—

Christchurch $iS = +7m.20s. = SS - 2s., i = +7m.56s., iP_cPN = +8m.35s., iN = +8m.51s., iP_cSN = +12m.18s., iS_cSN = +15m.46s.$

Melbourne $e = +9m.52s., i = +11m.40s.$

Riverview $iN = +10m.0s. = SS - 3s., SS?E = +10m.27s.$

Samarkand $e = +34m.19s.$

Ksara $ePP = +21m.40s. = PP - 3s., eSKP = +22m.40s., ePPS = +33m.54s.$

Florissant $eN = +48m.9s., eEZ = +50m.10s.$

Tiflis $PKP = +19m.19s., ePPP = +22m.50s. = PKS - 3s.$

Sverdlovsk $i = +22m.6s., PP + 2s., e = +22m.53s. = PKS - 7s.$

Long waves were also recorded at Cape Town, La Paz, Baku, Scoresby Sund, and other European stations.

April 29d. 16h. 46m. 59s. Epicentre $33^{\circ}5N. 143^{\circ}0E.$ (as on 1927 Oct. 28d.). X.

$A = -.6660, B = +.5018, C = +.5519; \delta = -5;$

$D = +.602, E = +.799; G = -.441, H = +.332, K = -.834.$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	5.3	290	e 1 15	0	2 30	S*	—	—
Mizusawa	5.8	346	e 1 39	P*	e 2 37	+ 9	—	—
Kobe	6.6	283	e 1 33	- 1	e 3 16	S*	—	6.3
Sumoto	z. 6.6	283	e 1 29	- 5	e 3 57	+69	—	6.4
	6.8	279	1 26	-11	3 55	+62	—	6.0
Toyooka	7.0	290	1 47	+ 8	3 10	+11	3.8	5.3
Vladivostok	12.9	321	3 1	0	—	—	—	12.9
Keizyo	13.6	292	e 3 5	- 5	—	—	e 8.4	—
Nanking	20.4	273	e 4 21	-13	8 21	+ 7	e 11.0	13.4
Chiufeng	22.4	296	e 5 3	PP	e 8 47	- 6	—	12.1
Manila	27.5	232	5 16	-27	10 16	- 8	—	16.6
Tashkent	57.3	302	—	—	i 19 29	(- 4)	e 27.2	35.3
Baku	71.2	308	e 11 18	0	e 20 36	+ 1	36.0	47.8
Pulkovo	71.7	331	e 11 18	- 3	e 20 38	- 3	38.9	—
Tiflis	73.8	310	e 11 33	0	e 21 1	- 5	e 39.0	47.5
Copenhagen	81.3	335	—	—	29 37	?	46.0	—
Ksara	84.1	309	i 12 29	0	e 23 30	PS	—	—

Additional readings:—

Mizusawa $eSN = +2m.42s.$

Kobe $eN = +2m.37s.$

Toyooka $ePE = +1m.56s., P* - 1s., PN = +2m.3s.$

Vladivostok $e = +3m.59s. and +7m.27s.$

Chiufeng $eN = +5m.27s., iN = +9m.10s.$

Ksara $ePP = +15m.35s.$

Long waves were also recorded at Hong Kong, Husan, Zinsen, Stuttgart, Strasbourg, De Bilt, and Paris.

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April 29d. 19h. 16m. 4s. Epicentre 44°·3N. 128°·1W. N.3.

(See Shock below on April 30d. 10h.).

$$A = -.4416, B = -.5632, C = +.6984; \quad \delta = -3;$$

$$D = -.787, E = +.617; \quad G = -.431, H = -.549, K = -.716.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tinemaha	10.4	131	e 2 27	+ 1	—	—	—	—
Haiwee	11.2	133	e 2 39	+ 2	—	—	—	—
Mount Wilson	z. 12.7	139	e 2 56	- 2	—	—	—	—
Pasadena	12.8	139	e 2 54	- 5	—	—	—	—
La Jolla	z. 14.2	140	e 3 14	- 4	—	—	—	—
Tucson	18.0	126	e 4 9	+ 2	e 7 40	SS	e 9.4	—
Florissant	28.5	87	e 5 54	+ 2	e 10 55	+15	e 16.0	17.8

Long waves were also recorded at Bozeman, Sitka, Seattle, and Ukiah.

April 29d. Readings also at 3h. (Christchurch and Wellington), 4h. (Perth and Cheb), 5h. (Santiago), 10h. (Andijan, Nanking, and near Samarkand), 11h. (Tiflis and Erevan), 12h. (near Almata), 17h. (Medan), 18h. (Hong Kong, Calcutta, and Philadelphia), 19h. (Medan), 20h. (Amboina, Chiufeng, Hong Kong, Manila, and Tiflis).

April 30d. 10h. 55m. 46s. Epicentre 44°·3N. 128°·1W. (as on April 29d.). R.3.

$$A = -.4416, B = -.5632, C = +.6984; \quad \delta = -3;$$

$$D = -.787, E = +.617; \quad G = -.431, H = -.549, K = -.716.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ferndale	4.7	141	e 1 16	P*	e 2 14	S*	—	—
Seattle	5.2	47	e 1 13	- 1	e 2 35	S*	e 3.0	—
Victoria	5.3	37	i 1 16	+ 1	i 2 26	+11	i 3.0	6.0
Ukiah	6.3	143	e 1 18	-12	e 2 49	+ 8	—	—
Berkeley	7.8	143	e 1 44	- 7	—	—	e 4.6	—
San Francisco	N. 7.8	145	e 2 6	P*	—	—	e 6.0	—
Lick	8.5	143	e 1 57	- 3	—	—	e 5.2	—
Fresno	N. 9.8	138	i 2 17	- 1	—	—	e 6.2	—
Tinemaha	z. 10.4	131	e 2 29	+ 3	—	—	—	—
Haiwee	11.2	133	e 2 38	+ 1	—	—	—	—
Bozeman	12.1	77	e 2 50	0	—	—	e 4.8	—
Mount Wilson	z. 12.7	139	i 2 55	- 3	—	—	—	—
Pasadena	12.8	139	i 2 56	- 3	i 5 54	S*	—	—
Sitka	13.6	343	i 3 8	- 2	e 5 54	SS	e 7.2	—
La Jolla	14.2	140	e 3 17	- 1	—	—	—	—
Tucson	18.0	126	4 9	+ 2	7 41	SS	e 9.4	—
College	23.3	339	—	—	e 8 14	-56	e 11.2	—
Madison	27.8	79	i 5 50	+ 5	e 10 42	+14	e 16.2	18.2
Florissant	28.5	87	e 5 53	+ 1	i 10 50	+10	e 14.8	17.9
St. Louis	28.7	88	i 5 56	+ 3	e 11 0	+17	e 17.4	17.8
Chicago	29.4	80	—	—	e 10 56	+ 1	e 16.7	—
Ann Arbor	32.0	79	e 9 50	?	e 11 38	+ 3	e 20.0	21.3
Ottawa	36.5	69	e 8 6	PP	12 50	+ 6	e 16.2	—
Philadelphia	38.8	77	e 8 41	PP	e 13 18	0	e 16.3	—
Oak Ridge	40.3	72	i 7 27	- 8	e 13 56	+15	e 22.2	—
Sverdlovsk	78.6	355	e 11 54	- 6	e 21 56	- 4	30.2	—

Additional readings:—

Ferndale eN = +1m.20s. = P* + 3s., eE = +3m.30s. and +5m.20s., eN = +6m.34s.

Berkeley eE = +3m.47s. = S* - 3s.

Florissant ePPN = +6m.39s., iN = +11m.21s., eSEN = +11m.48s.

St. Louis ipPE = +6m.6s., isSE = +11m.13s.

Ann Arbor e?E = +12m.2s., eN = +14m.20s. and +17m.8s. = S_cS + 13s.

Ottawa PP = +8m.32s.

Oak Ridge i = +9m.16s. = PP + 13s.

Long waves were also recorded at Columbia, Ithaca, Honolulu, Ksara, Baku, Tashkent, and several European stations.

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April 30d. 16h. 6m. 2s. Epicentre 39°·4N. 69°·3E. X.

(as on 1934 Nov. 7d. and near the position 39°·3N. 69°·4E. given by the stations of Central Asia).

$$A = +.2731, B = +.7228, C = +.6347; \quad \delta = -.13;$$

$$D = +.935, E = -.353; \quad G = +.224, H = +.594, K = -.773.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s	m. s.	s.	m.	m.
Samarkand	1.8	278	0 26	0	0 55	S*	—	1.3
Tashkent	1.9	0	i 1 29	+61	—	—	i 2.0	2.4
Andijan	2.6	62	e 1 19	S*	1 58	?	—	2.5
Frunse	5.3	46	e 1 16	+ 1	i 2 23	+ 8	—	3.0
Almata	6.9	53	—	—	e 2 54	- 2	—	—
Grozny	18.1	290	e 5 4	+56	—	—	e 12.1	—
Sverdlovsk	18.3	345	e 5 10	+60	—	—	12.4	12.5

Additional readings:—

Samarkand PP = +31s. = P_g + 1s.

Andijan iP_g = +1m.27s. = S_g + 7s., e = +1m.43s., PS = +1m.50s., S_g = +2m.2s.

Almata eS = +4m.21s.

Sverdlovsk e = +8m.58s. and +10m.50s.

April 30d. 17h. 6m. 19s. Epicentre 31°·5S. 65°·0W. N.3.

$$A = +.3603, B = -.7728, C = -.5225; \quad \delta = +4;$$

$$D = -.906, E = -.423; \quad G = -.221, H = +.474, K = -.853.$$

A depth of focus 0.030 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	s.	m. s.	s.	m.	m.
Santiago	0.0	5.2	247	1 16	+ 2	2 11	- 2	—	—
La Plata	-0.1	6.8	122	1 40	+ 5	3 5	+14	3.4	—
San Javier	-0.2	7.0	232	1 41	+ 4	2 57	+ 4	—	—
La Paz	-0.8	15.2	348	i 3 21	0	i 6 8	+ 7	—	8.3
Huancayo	-1.3	21.6	332	i 4 28	- 5	i 9 16	+64	12.0	—
San Juan	-3.1	49.8	359	—	—	e 15 1	-13	—	—
Oak Ridge	-3.9	74.2	355	e 11 13	0	—	—	—	—
Tucson	-3.9	77.1	321	(e 11 32)	+ 2	—	—	e 11.5	—
La Jolla	-4.0	81.1	317	e 11 52	- 1	—	—	—	—
Mount Wilson	-4.1	82.5	318	e 11 58	- 1	—	—	—	—
Pasadena	-4.1	82.6	318	i 11 58k	- 2	—	—	—	—
Santa Barbara	-4.1	83.6	317	e 12 6	+ 1	—	—	—	—
Haiwee	-4.1	83.9	319	e 12 6	- 1	—	—	—	—
Tinemaha	-4.1	84.7	319	e 12 11	0	—	—	—	—
Sverdlovsk	—	135.2	39	e 18 59	[-16]	—	—	38.7	—
Andijan	—	144.8	63	e 19 16	[-17]	—	—	—	—
Frunse	—	146.2	59	e 18 47	[-49]	—	—	—	—

Additional readings:—

La Paz iE = +6m.24s.

Mount Wilson iZ = +12m.44s. and +13m.5s.

Pasadena iZ = +12m.44s. and +13m.4s.

Tinemaha eZ = +12m.54s.

Sverdlovsk i = +22m.11s., e = +28m.9s.

April 30d. Readings also at 0h. (near Tananarive), 6h. (Batavia, Frunse, Samarkand, Tashkent, and near Andijan), 7h. (Ferndale and Nagoya), 13h. (Zagreb), 14h. (near Amboina), 17h. (Baku and Ksara), 20h. (near Branner), 21h. (Haiwee, Mount Wilson, Pasadena, and Tinemaha), 22h. (Tiflis), 23h. (Christchurch).

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May 1d. 6h. 15m. 35s. Epicentre $36^{\circ}0'N$. $139^{\circ}9'E$. X.
(given by Tokyo and as on 1935 June 8d.)

$$A = -0.6188, B = +0.5211, C = +0.5878; \quad \delta = -3;$$

$$D = +0.644, E = +0.765; \quad G = -0.450, H = +0.379, K = -0.809.$$

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Tukubasan	0.3	37	0 6	+ 2	0 15	+ 7
Komaba	0.4	207	0 7	+ 1	0 16	+ 6
Mitaka	0.4	220	0 7	+ 1	0 17	+ 7
Tokyo	0.4	207	0 5	- 1	0 14	+ 4
Kamakura	0.7	203	0 8	- 2	0 19	+ 1
Kiyosumi	0.9	167	0 5	- 8	0 18	- 5
Nagoya	2.5	250	e 0 41	P*	0 57	- 7

May 1d. Readings also at 0h. (Apia, Arapuni, Wellington, Adelaide, Melbourne, Riverview, Sydney, Chiufeng, Grozny, Tiflis, Ksara, Sverdlovsk, Pulkovo, Tucson, Ukiah, and Huancayo), 1h. (De Bilt, Paris, Stuttgart, Granada, and near La Paz), 4h. (near Bucharest), 6h. (near Andijan (2), Frunse (2), Samarkand, and near Taihoku), 7h. (Erevan and near Tiflis (2)), 9h. (near Tiflis), 10h. (Mount Wilson (2), Pasadena, near Berkeley, Branner, and Lick), 11h. (Huancayo, Ksara, and Christchurch), 12h. (Irkutsk, Honolulu, Phu-Lien, Nanking, Chiufeng, and Sverdlovsk), 14h. (Grozny, Erevan, and near Tiflis), 15h. (Mount Wilson, Samarkand, Erevan, Tashkent, Sverdlovsk, and Tinemaha), 16h. (Mount Wilson, Tinemaha, Pasadena, and Apia), 17h. (Huancayo, Tashkent, Ksara, Sverdlovsk, Tucson, and Haiwee), 18h. (Copenhagen, Pulkovo, Tiflis, and Paris).

May 2d. Readings at 2h. (Rio de Janeiro), 4h. (near Samarkand), 5h. (Nagoya and near Sumoto), 7h. (Bombay, Calcutta, Samarkand, Tashkent, and Sverdlovsk), 8h. (San Juan), 11h. (Sverdlovsk and Wellington), 12h. (Florissant), 13h. (near Wellington), 14h. (Manila), 15h. (Granada, Manila, and near Wellington), 16h. (Wellington), 17h. (Nagoya), 20h. (Sverdlovsk and Frunse), 21h. (San Juan, Chiufeng, Vladivostok, near Mizusawa, near Irkutsk, near Nanking, and near Taihoku), 22h. (near Sumoto, near Nagoya (2), near Batavia, and Malabar), 23h. (near Mizusawa and near Sumoto (2)).

May 3d. 11h. 25m. 50s. Epicentre $35^{\circ}8'N$. $4^{\circ}4'W$. (given by the stations). N.3.

$$A = +0.8087, B = -0.0622, C = +0.5850; \quad \delta = +9;$$

$$D = -0.077, E = -0.997; \quad G = +0.583, H = -0.045, K = -0.813.$$

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Malaga	0.9	359	0 13	0	—	—
Granada	1.5	25	e 0 30	P _g	i 0 54	S _g
San Fernando	1.6	295	e 0 17	- 6	i 0 40	- 1
Almeria	1.9	56	e 0 56	S _g	e 1 20	?
Alicante	4.1	48	—	—	2 32	?
Toledo	4.1	.4	1 10	P*	—	—

San Fernando gives also $iP_g = +31s$.

May 3d. Readings also at 1h. (La Paz, La Plata, and near Toyooka), 2h. (La Plata, Sverdlovsk, Pulkovo, Ksara, Copenhagen, De Bilt, Stuttgart, and near Trieste), 3h. (Baku, Sverdlovsk, De Bilt, Stuttgart, and Copenhagen), 4h. (Pasadena), 6h. (near Fresno), 7h. (Almeria, Malaga, and near Granada), 9h. (near Mizusawa and near Wellington), 10h. (Grozny, Tashkent, Frunse, Samarkand, near Almata, Andijan, and near Fresno), 11h. (Padova), 12h. (Sebastopol), 14h. (near Fresno (2) and near Lick), 20h. (near Mizusawa), 22h. (near Capodimonte), 23h. (Andijan, Frunse, Tananarive, and Bozeman).

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May 4d. 8h. 11m. 8s. Epicentre $42^{\circ}0'N$. $144^{\circ}4'E$. R.3.

(as on 1936 Mar. 10d. and near $42^{\circ}2'N$. $144^{\circ}4'E$. given by Nagoya).

$$A = -.6043, B = +.4326, C = +.6691; \quad \delta = +2;$$

$$D = +.582, E = +.813; \quad G = -.544, H = +.389, K = -.743.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	3.8	223	0 55	+ 1	i 1 35	- 2	—	—
Nagoya	8.9	224	e 2 18	+12	3 59	+13	—	—
Chiufeng	21.3	276	e 4 40	- 3	e 8 33	+ 1	e 10.8	13.2
Nanking	22.6	253	e 4 54	- 3	e 9 29	SS	12.5	14.5
Irkutsk	28.7	305	e 5 53	0	e 10 36	- 8	15.9	18.5
Sverdlovsk	52.8	317	i 9 11	- 1	e 16 38	- 1	25.9	30.8
Tashkent	54.2	297	—	—	e 18 48	?	e 29.0	33.7
Pulkovo	64.8	329	—	—	e 27 45	?	36.9	41.2
Tiflis	69.3	308	e 11 6	0	e 20 33	PS	e 38.9	48.4
Tinemaha	z. 70.9	58	e 11 18	+ 2	—	—	—	—
Mount Wilson	72.8	60	e 11 25	- 3	—	—	—	—
Pasadena	72.8	60	e 11 27	- 1	—	—	—	—
Ksara	79.8	307	e 12 6	- 1	e 23 30	?	—	50.4

Tashkent gives also $e = +19m.10s. = S_cS - 2s.$ and $+22m.16s. = SSS - 2s.$

Long waves were also recorded at Ann Arbor, Moscow, Baku, and other European stations.

May 4d. 22h. European shock :—

Marseilles $eP_g = 7m.24s.$, $iPP = 7m.34s.$, $SS = 7m.59s.$

Neuchatel $iPN = 7m.35s.$, $eS_g = 8m.12s.$

Chur $eP = 7m.41s.$, $eS_g = 8m.21s.$

Basle $ePN = 7m.42s.$, $eS_g = 8m.34s.$

Zurich $eP_g = 7m.49s.$, $eS_g = 8m.30s.$

Strasbourg $eP = 8m.23s.$, $e = 9m.6s.$, $S_g = 9m.12s.$

Ravensburg $e = 8m.54s.$

Stuttgart $e = 8m.54s.$ and $9m.25s.$

Granada $eS = 11m.57s.$, $eL = 12m.57s.$

May 4d. Readings also at 0h. (near Wellington), 1h. (Granada (2), Malaga (2), and Toledo (2)), 4h. (Hong Kong, Chiufeng, Nanking, Phu-Lien (2), Irkutsk, Tashkent, Sverdlovsk, Copenhagen, and De Bilt), 5h. (Honolulu and near Algiers), 7h. (near Samarkand (2)), 9h. (near Sumoto), 10h. (Mount Wilson, Tinemaha, Basle (2), Neuchatel (2), and Zurich (2)), 11h. (Adelaide, Samarkand, and near Wellington), 12h. (Tiflis, Bagnères, Mount Wilson, Tinemaha (2), and Nanking), 14h. (Sumoto and Nanking), 15h. (Manila, Tashkent, and Sverdlovsk), 17h. (Medan and near Mizusawa), 18h. (Bombay, Calcutta, Andijan, Frunse, Irkutsk, Baku, Sverdlovsk, Tashkent, Chiufeng, Tiflis, Pulkovo, and Moscow), 19h. (De Bilt and Copenhagen), 20h. (Nanking, Phu-Lien, Bagnères), 22h. (Mount Wilson, Tucson, Riverside, Tinemaha, Alicante, Granada, Tortosa, Zurich, Basle, Neuchatel, Strasbourg, Stuttgart, Tiflis, Sverdlovsk, and Ksara), 23h. (Mount Wilson, Riverside, Pasadena, Chicago, Pulkovo, Baku, and Tashkent).

• May 5d. 3h. Spanish earthquake :—

San Fernando $eP = 11m.16s.$, $iP_g = 11m.13s.$, $iS_g = 11m.42s.$

Malaga $P_g = 11m.14s.$

Granada $eP_g = 11m.33s.$, $S_g = 11m.53s.$

Almeria $eP_g = 11m.47s.$, $eS_g = 12m.23s.$

Toledo 12m.9s.

Alicante 13m.16s.

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May 5d. 19h. 43m. 12s. Epicentre 4°·0S. 148°·5E. N.2.

A = -·8506, B = +·5212, C = -·0698; $\delta = +4$;
D = +·522, E = +·853; G = +·059, H = -·036, K = -·998.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Palau	18·0	309	4 10	+ 3	4 33	?	—	—
Riverview	29·9	175	e 7 17	?	e 11 19	+16	e 17·7	22·7
Sydney	29·9	175	i 12 48	SS	i 17 0	?	19·0	20·3
Adelaide	32·3	194	e 6 45	+20	i 11 53	+13	i 14·0	22·7
Manila	33·0	305	i 6 33	+ 1	11 55	+ 4	14·4	—
Melbourne	34·0	185	—	—	i 12 20	+14	17·3	26·2
Kobe	40·7	343	e 7 34	- 4	—	—	—	23·0
Hukuoka B	41·3	336	e 7 15	-28	e 14 5	+ 9	—	—
Perth	41·5	223	e 14 23	S	(e 14 23)	+24	22·8	32·8
Batavia	41·6	265	7 45	0	e 14 25	+25	—	—
Nagano	41·8	347	8 4	+17	—	—	—	—
Hong Kong	42·6	309	7 53	0	14 14	- 1	—	22·3
Husan	43·2	336	e 8 19	+21	e 14 20	- 4	—	—
Zi-ka-wei	z. 43·6	325	e 8 0	- 2	—	—	21·0	22·6
Taikyu	44·0	336	e 9 54	PP	—	—	—	—
Christchurch	44·9	154	14 25	S	(14 25)	-24	e 21·7	23·8
Nanking	45·8	324	8 23	+ 4	15 11	+ 9	23·4	—
Keizyo	46·1	336	e 8 22	+ 1	e 15 8	+ 2	—	—
Zinsen	n. 46·2	335	e 8 20	- 2	e 14 58	- 9	—	—
Chiufeng	53·2	329	e 9 11	- 4	16 39	- 6	25·6	31·8
Calcutta	E. 64·4	297	e 12 32	PP	i 19 17	+ 5	—	—
Irkutsk	67·5	332	e 10 51	- 4	—	—	31·8	—
Bombay	77·8	290	e 11 48?	- 9	e 21 53	+ 1	—	—
Almata	79·5	315	e 12 33	+28	—	—	—	—
Frunse	81·1	314	e 12 1	-13	—	—	—	—
Tashkent	84·6	312	i 13 0	+29	i 22 58	[+ 2]	e 37·7	50·5
Samarkand	86·1	310	e 12 41	+ 2	—	—	—	—
Sverdlovsk	92·2	327	13 7	- 1	23 39	[- 7]	43·8	53·1
Pasadena	z. 95·0	56	e 13 19	- 1	—	—	—	—
Mount Wilson	z. 95·1	56	e 13 23	+ 2	—	—	—	—
Baku	99·1	310	17 40	PP	—	—	46·8	58·6
Tucson	101·1	58	—	—	27 0	PS	e 42·0	—
Tiflis	102·9	311	e 17 28	PKP	e 25 19	{+ 4}	e 49·8	—
Moscow	105·0	327	18 30	PP	—	—	e 49·5	59·8
Pulkovo	107·3	332	18 39	PP	25 2	[+ 1]	50·8	60·0
Ksara	111·0	304	e 15 26	?	—	—	—	—
Florissant	116·5	49	—	—	25 6	[-33]	e 44·1	63·1
Copenhagen	117·6	334	—	—	29 42	PS	58·8	—
Triest	122·7	323	—	—	e 35 22	SS	e 57·8	65·3
Stuttgart	123·4	329	—	—	e 32 48	?	e 63·8	71·8
Uccle	124·4	333	—	—	e 37 46	SS	e 61·8	—
Paris	126·7	332	—	—	e 30 48?	SKSP	62·8	74·8

Additional readings:—

Riverview eE = +15m.6s., eN = +16m.0s.
Adelaide i = +13m.33s. = SSS - 4s. and +16m.53s. = S_cS - 4s., iS_cS? = +17m.48s.
Melbourne i = +15m.2s.
Hong Kong P_cP = +9m.54s., SS = +17m.31s.
Husan ePP = +9m.50s. = P_cP - 2s., eSSSE = +17m.20s. = SS + 4s.
Christchurch S = +18m.42s. = SSS + 0s.
Nanking SS = +18m.29s. = S_cS + 12s.
Zinsen ePPPN = +10m.21s., eSSSN = +18m.28s. = S_cS + 8s.
Chiufeng eSZ = +16m.43s., iE = +17m.9s.
Irkutsk ePP = +13m.12s., PS = +19m.41s., eSS = +23m.54s.
Baku PS = +26m.9s., e = +29m.16s. and +33m.23s.
Tucson eSS = +32m.30s., eSSS = +36m.18s.
Tiflis ePS = +27m.11s., ePPS = +28m.29s., SS = +33m.16s.
Moscow PS = +26m.56s., e = +33m.14s., SS = +3s.
Pulkovo PS = +27m.22s., SS = +32m.24s.
Ksara ePP = +19m.54s., ePS = +29m.28s., eSS = +35m.44s.
Florissant eN = +31m.59s.
Copenhagen +36m.18s.

Long waves were also recorded at Apia, Honolulu, College, Chicago, San Juan, Huancayo, Ukiah, Cape Town, Scoresby Sund, and other European stations.

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May 5d. Readings also at 0h. (Triest, Zagreb, and near Nagoya), 1h. (Baku, Grozny, Samarkand, Tashkent, and Tiflis), 3h. (Malaga and near San Fernando), 4h. (Malaga, Sverdlovsk, Tashkent, Irkutsk, Chiufeng, Nanking, and near Granada), 9h. (Helwan, Almeria, near Santiago, and San Javier), 11h. (Little Rock and Mount Wilson), 13h. (Nagoya and near Mizusawa), 16h. (Prague), 17h. (Belgrade, Bucharest, Padova, Florence, Triest, Zagreb, Mount Wilson, and Pasadena), 18h. (Balboa Heights, Huancayo, La Paz, Sverdlovsk, and Tashkent), 22h. (Triest).

May 6d. 3h. 39m. 3s. Epicentre $8^{\circ}3S$. $74^{\circ}0W$. (as on 1931 July 11d.). R.3.

$$A = +.2728, B = -.9512, C = -.1444; \quad \delta = +5;$$

$$D = -.961, E = -.276; \quad G = -.040, H = +.139, K = -.990.$$

Depth of focus 0.025.

	Corr. for Focus	Δ °	Az. °	P.		O-C.		S.		O-C. s.	L. m.	M. m.
				m.	s.	s.	m.	s.				
Huancayo	+0.1	4.0	199	i 0	53	- 5	i 1	19	-26			
La Paz	-0.3	10.0	146	i 2	19k	+ 2	i 4	13	+ 7	4.8	5.4	
Balboa Heights	-0.9	18.1	342	2	57?	-60						
San Juan	-1.5	27.7	16	e 5	29	- 2	e 9	27	?	16.0		
La Plata	-1.7	30.4	153	5	56	+ 3	10	46	+ 3	16.2		
Rio de Janeiro	-1.9	32.9	119	i 11	9	S	(i 11	9)	-11			
Florissant	-2.6	49.5	344	e 8	25	- 3	e 15	12	- 5			
Oak Ridge	-2.6	50.9	3	e 8	37	- 1	e 16	57?	+80			
Tucson	-2.8	53.6	321	e 9	0	+ 3	e 16	15	+ 3	e 21.4		
La Jolla	-3.0	58.2	318	i 9	31	+ 1						
Riverside	z. -3.0	59.0	319	e 9	31	- 5						
Mount Wilson	-3.0	59.5	319	i 9	39	0						
Pasadena	-3.0	59.5	319	i 9	40	+ 1						
Haiwee	-3.0	60.7	321	e 9	45	- 3						
Tinemaha	-3.0	61.4	321	i 9	42	-11						
Iviglut	-3.2	72.4	13				20	9	- 2			
Scoresby Sund	-3.4	86.1	15				22	33	-11			
Copenhagen		94.9	34				23	22	[-38]			
Pulkovo		104.4	30				e 24	7	[-38]	44.0		
Ksara		111.1	57	e 18	51	PP	e 29	27	?			
Tiflis		116.9	47	e 18	12	[-26]	e 25	4	[-36]			
Tashkent		133.7	39	e 22	20	PKS	e 41	21	?			

Additional readings:—

Florissant iPZ = +8m.27s., iSEN = +15m.15s., isSE = +16m.15s., isSE = +17m.57s., iSSN = +18m.1s., iE = +19m.22s.

Tucson eSS = +19m.39s.

Riverside iNZ = +10m.8s.

Mount Wilson iZ = +10m.15s.

Pasadena iNZ = +10m.17s., iZ = +11m.8s.

Tinemaha iZ = +10m.22s.

Copenhagen +24m.32s. = S - 9s.

Pulkovo e = +25m.16s. = SKKS - 10s. and +26m.10s. = S + 5s.

May 6d. Readings also at 0h. (Almeria, Malaga, Toledo, near Granada, and San Fernando), 1h. (Almeria, Malaga, near Granada, and San Fernando), 2h. (Rio de Janeiro, Andijan, Frunse, Granada, and Malaga), 3h. (Granada (2), Malaga, Almata, and near Manila), 6h. (Chiufeng, Nanking, Phu-Lien, Irkutsk, and Sverdlovsk), 7h. (San Javier and Tiflis), 8h. (Balboa Heights), 9h. (Granada and near San Fernando), 13h. (near Algiers), 14h. (La Paz, Mount Wilson (2), Pasadena, and Riverside (2)), 18h. (Andijan, Frunse, Tiflis, Samarkand, and Tashkent), 19h. (Bombay, Calcutta, Baku, Ksara, Moscow, Pulkovo, Syerdlovsk, Copenhagen, and Tacubaya (2)), 21h. (Sverdlovsk, Tashkent, and near Manila), 22h. (near Batavia and Malabar), 23h. (near Medan).

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May 7d. 1h. 53m. 15s. Epicentre 36°·2N. 69°·5E. (as on 1933 May 21d.). X.

$$A = +.2826, B = +.7559, C = +.5906; \quad \delta = +6;$$

$$D = +.937, E = -.350; \quad G = +.207, H = +.553, K = -.807.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	m.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Samarkand	3.9	331	0 58	+ 2	2 22	?	—	2.6
Andijan	5.1	25	e 1 15	+ 2	e 2 12	+ 2	—	3.1
Tashkent	5.1	358	i 1 15	+ 2	i 2 7	- 3	—	4.2
Tchimkent	6.1	2	—	—	i 2 35	- 1	—	—
Frunse	7.8	29	e 1 51	0	i 3 21	+ 2	—	5.0
Almata	9.0	38	2 13	+ 6	e 3 57	+ 8	—	—
Agra	E. 11.6	139	—	—	i 4 53	0	—	7.4
Baku	15.9	291	—	—	e 6 58	+22	e 12.0	—
Semipalatinsk	16.2	25	e 3 42	- 2	e 6 53	+10	—	—
Grozny	19.5	299	e 4 51	+27	—	—	—	—
Tiflis	19.9	294	e 3 52	-37	e 8 10	+ 6	15.0	17.6
Calcutta	E. 21.3	125	e 4 32	-11	—	—	—	13.7
Sverdlovsk	21.4	347	4 41	- 3	i 9 10	+36	13.4	13.8
Piatigorsk	21.6	299	e 4 13	-33	—	—	—	—
Ksara	27.5	273	e 6 2	+19	e 10 51	+27	—	19.2
Moscow	29.1	321	5 59	+ 2	11 23	+33	e 16.2	19.4
Pulkovo	34.4	325	e 8 9	PPP	e 12 13	+ 1	17.8	21.0
Königsberg	38.0	315	—	—	e 15 56	SS	e 22.3	25.2
Copenhagen	42.7	316	—	—	14 21	+ 5	21.8	—

Additional readings :—

Samarkand $P_g = +1m.11s.$, $i = +1m.28s.$, $+1m.36s. = S - 4s.$ and $+2m.1s. = S_g - 2s.$

Tashkent $e = +1m.25s. = P^* + 1s.$, $i = +1m.53s.$, $+1m.58s.$, and $+2m.21s.$

Frunse $i = +3m.42s.$, $iSS = +4m.3s.$

Baku $e = +11m.26s.$

Tiflis $e = +12m.6s.$

Sverdlovsk $L_q = +11.6m.$

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

May 7d. 10h. 2m. 48s. Epicentre 19°·8N. 107°·0W. (as on 1933 April 9d.). X.

$$A = -.2751; \quad B = -.8998, C = +.3387; \quad \delta = +4;$$

$$D = -.956, E = +.292; \quad G = -.099, H = -.324, K = -.941.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Manzanillo	N. 2.6	106	0 42	+ 5	—	—	—
Guadalajara	N. 3.4	75	0 48	- 1	—	—	—
Mazatlan	N. 3.4	9	0 47	- 2	—	—	—
Tacubaya	N. 7.3	92	1 45	+ 1	—	—	—
Tucson	12.9	345	e 3 12	+11	6 42	S*	e 7.3
La Jolla	16.0	327	e 3 46	+ 5	—	—	—
Riverside	16.9	329	e 4 5	+12	—	—	—
Mount Wilson	Z. 17.4	328	i 4 11	+12	—	—	—
Pasadena	17.4	328	i 4 12	+13	—	—	e 11.2
Santa Barbara	Z. 18.5	325	i 4 26	+13	—	—	—
Tinemaha	N. 19.9	333	e 4 40	+11	—	—	—
Little Rock	N. 19.9	38	e 4 18	-11	e 9 59	SS	—
Florissant	23.8	34	e 5 6	- 2	i 9 19	0	e 12.0
St. Louis	23.8	34	e 5 6	- 2	e 9 15	- 4	e 12.1
Bozeman	26.1	353	—	—	e 10 18	+18	e 12.2

Additional readings :—

St. Louis eSE = +9m.22s.

Long waves were also recorded at Philadelphia, Scoresby Sund, Sverdlovsk, and Tashkent.

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May 7d. 21h. 31m. 21s. Epicentre 44°·0N. 45°·0E. N.3.

(as given by Russian stations; very rough).

$$A = +.5087, B = +.5087, C = +.6947; \quad \delta = +16;$$

$$D = +.707, E = -.707; \quad G = +.491, H = +.491, K = -.719.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Grozny	0.9	142	0 11	- 2	0 26	+ 3	—	0.9
Piatigorsk	1.4	271	0 40	S*	1 9	?	—	1.5
Tiflis	2.3	184	i 0 24	- 9	i 0 33	P*	i 0.7	—
Erevan	3.8	186	—	—	e 2 15	?	—	—
Sotchi	3.8	264	—	—	e 2 33	?	—	—
Baku	5.1	133	e 1 15	+ 2	i 2 14	+ 4	3.0	—
Ksara	12.4	218	e 3 9	+15	—	—	e 7.0	8.3
Moscow	12.7	340	—	—	e 6 5	S*	e 7.1	10.0
Sverdlovsk	16.1	32	3 53	+10	6 50	+ 9	9.6	—
Pulkovo	18.1	336	e 4 54	+46	e 8 2	+35	10.6	12.0
Andijan	20.4	90	—	—	e 8 9	- 5	—	—
Copenhagen	23.8	311	—	—	10 39?	+80	16.6	—

Additional readings:—

Grozny i = +14s., +17s., +20s., iPP = +23s.

Piatigorsk e = +54s. and +1m.3s.

Erevan e = +2m.20s., +2m.45s., and +2m.55s.

Long waves were also recorded at Frunse and Nagoya.

May 7d. Readings also at 2h. (near Trieste), 11h. (Lick and Fresno), 12h. (Tiflis), 13h. and 14h. (La Paz), 15h. (Grozny), 16h. (Alicante and Tiflis), 17h. (near Mizusawa), 18h. (2) and 21h. (Grozny), 22h. (Adelaide, Christchurch, Wellington, and Ksara), 23h. (Sverdlovsk, Tashkent, and San Juan).

May 8d. 9h. 11m. 40s. Epicentre 6°·0S. 113°·0E. R.1.

(as on 1930 July 19d. See Berlage: Provisional Catalogue of Deep Focus Earthquakes 1918-1936, where this epicentre and focal depth 600km. is given).

$$A = -.3886, B = +.9155, C = -.1045; \quad \delta = +7;$$

$$D = +.921, E = +.391; \quad G = +.041, H = -.096, K = -.995.$$

Depth of focus 0.080 is assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.	m.
Malabar	+0.8	5.5	257	i 1 33	+ 3	i 2 49	+ 8	—	—
Batavia	+0.5	6.2	267	i 1 41	+ 6	i 2 58	+ 7	—	—
Medan	-2.7	17.3	304	2 34	-49	i 5 15	-50	—	—
Manila	-3.6	22.1	21	i 4 11a	- 2	i 6 47	-49	—	—
Palau	-4.2	25.2	58	5 9	+29	—	—	—	—
Perth	-4.3	26.1	175	4 45	- 4	i 8 20	-22	11.9	—
Phu-Lien	-4.5	27.6	347	4 20?	-42	—	—	—	—
Hong Kong	-4.6	28.4	2	5 5	- 3	9 10	- 9	—	—
Taito	-4.9	29.8	15	5 24	+ 5	—	—	—	—
Taiyu	-5.0	31.1	14	5 30	0	—	—	—	—
Taihoku	-5.1	32.1	315	e 5 38	0	10 5	-10	—	—
Isigakizima	-5.1	32.2	20	5 38	- 1	—	—	—	—
Colombo	-5.4	35.5	90	5 24	-42	10 55	-11	14.4	—
Adelaide	-5.7	37.3	145	i 11 23	S	(i 11 23)	- 6	—	—
Calcutta	-5.7	37.3	321	e 8 9	PP	i 11 26	- 3	—	15.1
Nanking	-5.8	38.4	8	i 6 32	+ 4	i 11 40	- 5	—	—
Kodaikanal	-5.9	38.9	295	e 6 32	0	—	—	—	—
Hyderabad	-6.1	41.4	305	e 8 37	?	12 24	- 2	15.4	19.6
Tomie	-6.1	41.4	21	6 40	-12	—	—	—	—
Miyazaki	-6.2	41.8	24	6 28	-26	—	—	—	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	m.
Nagasaki	-6.2	41.9	22	6	57	+ 2	12	30	- 2	—	—
Kumamoto	-6.2	42.3	23	6	59	0	12	37	- 1	—	—
Hukuoka B	-6.3	42.9	22	e 7	4	+ 1	12	45	0	—	—
Melbourne	-6.4	43.0	143	—	—	—	12	54	+ 9	—	—
Husan	-6.5	43.8	19	e 9	11	?	12	57	+ 1	—	—
Matuyama	-6.6	44.0	24	7	14	+ 4	13	2	+ 5	—	—
Koti	-6.6	44.1	25	7	3	- 8	—	—	—	—	—
Taikyū	-6.6	44.4	19	e 8	37	PP	e 13	8	+ 5	e 16.2	—
Riverview	-6.6	44.9	136	i 7	22k	+ 4	i 13	18	+ 7	—	—
Sydney	-6.6	44.9	136	e 9	38	(+ 2)	—	—	—	16.8	24.8
Siomisaki	-6.7	45.0	28	6	59	-19	—	—	—	—	—
Sumoto	-6.7	45.3	27	9	15	(-22)	13	20	+ 5	—	—
Zinsen	-6.7	45.3	15	e 8	8	+48	e 13	14	- 1	e 16.1	—
Wakayama	-6.7	45.4	27	7	23	+ 2	13	19	+ 2	—	—
Keizyo	-6.7	45.5	16	e 8	37	PP	e 13	22	+ 4	—	—
Kobe	-6.7	45.7	27	e 9	15	(-24)	e 13	21	0	—	—
Chiufeng	-6.8	46.1	4	i 7	28	+ 2	i 13	30	+ 4	—	—
Kameyama	-6.8	46.5	27	7	32	+ 3	13	35	+ 3	—	—
Bombay	-6.8	46.8	303	i 9	20	?	i 13	38	+ 2	—	—
Nagoya	-6.8	46.9	28	e 7	39	+ 6	(13 38)	—	0	13.6	—
Gihu	-6.9	47.0	27	7	36	+ 3	13	41	+ 3	—	—
Agra	E. -6.9	47.4	317	i 9	19	PP	i 13	38	- 6	—	—
Misima	-6.9	47.8	29	7	42	+ 2	13	52	+ 2	—	—
Kohu	-7.0	48.1	28	7	42	+ 1	14	9	+16	—	—
Oiwake	-7.0	48.6	27	7	48	+ 3	14	2	+ 2	—	—
Nagano	-7.0	48.7	27	7	49	+ 3	14	5	+ 3	—	—
Kakioka	-7.1	49.3	29	7	50	0	14	9	0	—	—
Mito	-7.1	49.6	29	8	0	+ 7	14	5	- 8	—	—
Hukushima	-7.2	50.7	28	8	2	+ 1	14	32	+ 4	—	—
Vladivostok	-7.4	52.0	19	e 8	12	+ 2	i 14	52	+ 8	—	—
Mizusawa	-7.4	52.1	28	e 8	13	+ 3	i 14	46	0	—	—
Irkutsk	-7.8	58.8	354	8	57	- 2	16	15	0	20.3	24.1
Almata	-7.9	59.1	331	9	2	+ 2	e 16	22	+ 4	—	—
Andijan	-7.9	59.8	325	9	5	- 1	i 16	28	+ 1	—	—
Frunse	-7.9	60.0	329	e 9	7	0	i 16	33	+ 3	—	—
Tashkent	-8.0	61.9	325	i 8	38	-43	i 16	54	0	—	40.1
Samarkand	-8.0	62.3	322	9	22	- 1	—	—	—	—	—
Tchimkent	-8.0	62.3	326	e 9	16	- 7	16	59	0	—	—
Semipalatinsk	-8.0	63.1	338	e 9	28	- 2	—	—	—	—	—
Christchurch	-8.1	64.1	136	i 9	33a	- 3	i 17	25	+ 2	—	—
Baku	-8.7	74.1	316	e 10	34	- 7	i 19	14	-11	e 30.3	—
Sverdlovsk	-8.8	75.8	334	i 10	42	-10	i 19	34	-11	—	—
Grozny	-9.1	78.0	317	10	58	- 6	i 19	48	-20	—	—
Tiflis	-9.1	78.1	316	10	55	-10	i 19	59	-10	e 38.3	—
Piatigorsk	-9.2	80.1	317	10	38	-38	19	52	-40	—	—
Sotchi	-9.2	82.2	316	e 11	19	-10	—	—	—	—	—
Kasra	-9.3	82.8	305	i 11	20k	-12	20	34	-29	—	—
Theodosia	-9.4	85.6	317	e 11	33	-14	21	0	-34	—	—
Helwan	-9.4	85.8	301	i 11	34	-14	i 21	3	-33	—	—
Yalta	-9.4	86.3	316	e 11	34	-17	i 21	3	-39	—	—
Simferopol	-9.4	86.5	316	i 13	48	?	21	6	-38	—	—
Sebastopol	-9.5	86.8	316	e 11	35	-19	21	6	-40	—	—
Moscow	-9.5	86.9	327	i 11	38	-16	21	24	-23	—	26.2
Cape Town	-9.6	90.4	236	—	—	—	21	32	-52	—	—
Pulkovo	-9.6	91.6	330	i 12	0	-18	23	19	[-23]	35.3	45.9
Upsala	E. -9.9	97.9	330	—	—	—	i 22	5	[-131]	—	—
Zagreb	-9.9	99.2	316	e 14	44	?	e 22	16	[-126]	—	—
Triest	-9.9	100.7	316	e 16	57	PP	i 24	57	PS	—	—
Copenhagen	-9.9	101.0	326	22	26	?	25	2	PS	—	—
Cheb	-9.9	101.4	320	e 22	27	?	—	—	—	—	—
Stuttgart	-9.9	103.6	319	e 15	3	?	e 25	28	?	—	—
Bergen	-9.9	103.9	331	e 12	20?	-56	24	30	{-52}	—	—
Strasbourg	—	104.5	319	18	20?	PP	e 22	20?	?	e 28.3	—
De Bilt	—	105.7	323	e 22	48	PPPP	e 25	52	PS	—	—
Uccle	—	106.4	322	i 22	50	PPPP	e 25	58	PS	—	—

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.			
Paris	—	107.9	319	e 22	57	PPPP	e 26	12	PS	65.3	—
Kew	—	109.1	323	—	—	—	i 26	5	PS	e 53.7	—
Edinburgh	—	109.4	327	e 23	4	?	e 26	26	PS	—	—
Scoresby Sund	—	109.5	346	20	0	?	23	58	[-73]	—	—
Oxford	—	109.6	323	e 22	56	PPPP	e 26	25	PS	—	—
Santa Barbara	—	123.8	52	i 17	48	[-67]	—	—	—	—	—
Tinemaha	—	124.0	49	i 17	50	[-65]	—	—	—	—	—
Haiwee	—	124.6	49	i 17	51	[-65]	—	—	—	—	—
Mount Wilson	—	125.1	52	i 17	52	[-65]	—	—	—	—	—
Pasadena	—	125.1	52	i 17	51	[-66]	—	—	—	—	—
Riverside	—	125.8	52	i 17	55	[-64]	—	—	—	—	—
La Jolla	—	126.2	53	i 17	56	[-63]	—	—	—	—	—
Florissant	—	141.0	30	i 18	17a	[-66]	i 27	23	{-127}	—	—
St. Louis	—	141.2	30	e 18	17	[-66]	e 27	23	{-128}	—	—
Little Rock	—	142.9	37	e 18	23	[-64]	—	—	—	—	—
Oak Ridge	—	143.3	5	i 18	24	[-64]	—	—	—	—	—
Philadelphia	—	145.3	10	i 18	30	[-65]	e 27	31	{-144}	e 39.7	—
La Paz	z.	157.4	177	i 18	48k	[-62]	—	—	—	—	—
Huancayo	—	160.1	155	i 18	50	[-64]	—	—	—	—	—
San Juan	—	167.6	356	e 18	50	[-72]	—	—	—	—	—

Additional readings:—

Perth ? = +2m.40s. and +5m.5s. = PP - 2s., P_cS = +6m.35s., SS = +10m.5s.,
 SSS = +10m.30s., SSSS = +10m.55s.
 Hong Kong ? = +6m.36s. and +7m.54s., SS? = +13m.15s.
 Adelaide i = +11m.25s. and +11m.30s., e = +12m.7s., i = +13m.20s., +14m.40s.
 and +14m.53s., iS = +18m.21s., i = +18m.36s., and +19m.21s.
 Nanking i = +8m.16s.
 Melbourne i = +16m.20s., +19m.46s., and +20m.38s.
 Riverview iN = +16m.10s., eE = +16m.43s., iN = +22m.39s. and +23m.23s.
 Zinsen ePPP = +9m.27s.
 Kobe iSE = +13m.25s.
 Chiufeng iNZ = +9m.18s., iSZ = +13m.37s.
 Vladivostok e = +10m.55s., i = +12m.59s. and +17m.47s. = SS + 4s.
 Mizusawa eSN = +14m.50s.
 Irkutsk e = +9m.30s., i = +10m.19s.
 Andijan e = +9m.49s.
 Tashkent PP = +10m.29s., PPPP = +12m.11s., e = +13m.20s., e = +20m.52s.
 Samarkand e = +11m.20s. = PP + 1s.
 Christchurch ePPZ = +12m.7s.
 Baku e = +12m.35s.
 Sverdlovsk i = +12m.47s., e = +18m.23s., SS = +23m.14s.
 Tiflis sP = +12m.59s., e = +13m.39s., ePP = +14m.13s., esS = +22m.32s.
 Sochi e = +13m.30s.
 Ksara ipP = +13m.26s., esP = +14m.27s., ipPP = +16m.26s., PPP = +16m.40s.,
 SKS = +20m.50s., iSS = +24m.14s., PKPPKP = +37m.55s.
 Theodosia i = +13m.40s.
 Helwan pP = +11m.50s., e = +13m.40s. and +15m.38s., sS = +21m.16s., i =
 +22m.15s.
 Yalta i = +13m.44s.
 Sebastopol i = +13m.46s.
 Cape Town i = +22m.2s.
 Pulkovo SP = +14m.9s., PPP = +17m.43s., i = +21m.34s., iSP = +22m.4s.,
 SS? = +26m.0s., SSS? = +28m.35s.
 Upsala iSE = +23m.0s.
 Trieste i = +22m.22s. and +25m.30s.
 Stuttgart ePPZ = +19m.12s., ePPP = +22m.35s., eSKKSZ = +26m.30s.
 Bergen SKS = +22m.40s., e = +30m.20s.?
 Paris e = +27m.16s.
 Kew eEZ = +27m.13s., eN = +31m.5s., iEN = +33m.26s.
 Edinburgh e = +30m.32s.
 Scoresby Sund +22m.57s., +26m.12s., +26m.30s., and +27m.51s.
 Tinemaha iZ = +19m.13s., eZ = +19m.40s., iZ = +20m.8s.
 Haiwee iZ = +19m.55s.
 Mount Wilson eZ = +17m.38s.
 Pasadena eZ = +17m.34s., iZ = +19m.20s., iPPEZ = +19m.59s., iZ = +20m.10s.,
 +20m.18s. and +20m.31s., eZ = +31m.9s., iZ = +33m.36s.
 Riverside eZ = +19m.50s.
 Florissant iPPZ = +20m.39s., iSKPEN = +21m.59s., iSKSEN = +24m.17s.,
 eSSSEN = +38m.47s.
 St. Louis eSKPEN = +22m.0s., ePPPEN = +24m.17s.
 Little Rock iEN = +18m.30s., ePPN = +20m.49s., iSKPN = +22m.5s.
 Oak Ridge i = +19m.58s. and +21m.33s.
 Philadelphia ePP = +21m.51s., ePS = +30m.20s., e = +35m.45s.
 La Paz iZ = +21m.40s. and +33m.50s.
 Huancayo e = +15m.20s., +20m.31s., and +42m.34s.

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May 8d. 15h. 24m. 27s. Epicentre 29°·0N. 103°·5E. N.2.

A = -·2042, B = +·8505, C = +·4848; $\delta = +8$;
D = +·972, E = +·233; G = -·113, H = +·471, K = -·875.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	N. 8.7	160	1 57	- 6	4 26	S*	—	5.0
Hong Kong	11.7	122	4 36	S	(4 36)	-19	5.9	6.9
Nanking	13.5	73	3 7	- 2	6 3	+24	7.2	9.2
Calcutta	E. 15.0	248	3 28	0	6 37	+22	7.9	10.2
Chiufeng	15.1	40	e 3 30	0	6 37	+20	i 7.9	8.9
Taityu	16.1	103	—	—	6 54	+13	—	—
Arisan	16.4	105	4 4	+18	—	—	—	—
Taihoku	16.5	100	—	—	6 52	+ 2	—	—
Karenko	16.9	103	—	—	7 14	+15	—	—
Kosyun	17.0	110	4 3	PP	—	—	—	—
Taito	17.0	107	3 53	- 1	—	—	—	—
Zinsen	21.1	59	e 5 18	+37	e 8 35	+ 7	e 11.2	—
Keizyo	21.3	60	e 4 47	+ 4	e 8 42	+10	e 11.6	—
Manila	21.6	128	4 45	- 1	8 45	+ 7	—	—
Tomie	21.9	73	7 28	?	—	—	—	—
Taikyu	22.2	64	e 4 53	0	8 56	+ 6	11.8	—
Husan	22.4	67	e 4 56	+ 1	9 2	+ 9	13.8	—
Agra	E. 22.5	271	i 4 50	- 6	i 8 59	+ 4	—	—
Nagasaki	22.9	73	4 56	- 4	9 7	+ 4	—	—
Irkutsk	23.3	1	5 7	+ 3	9 23	+13	12.4	13.2
Hukuoka B	23.4	71	e 5 1	- 4	e 9 17	+ 5	e 14.1	—
Kumamoto	23.6	73	5 7	+ 1	—	—	—	—
Miyazaki	24.2	76	5 11	- 1	9 34	+ 7	—	—
Matuyama	25.3	69	5 23	0	9 56	+10	—	—
Almata	25.6	312	e 3 23	?	e 4 26	?	—	—
Hyderabad	25.7	248	5 33	+ 7	10 13	+20	13.6	17.8
Medan	25.8	192	e 5 33?	+ 6	—	—	—	—
Vladivostok	26.8	50	—	—	10 22	+10	14.4	16.4
Frunse	27.0	308	e 5 54	+16	e 10 56	+41	—	—
Sumoto	27.1	68	—	—	e 10 15	- 2	(15.0)	17.3
Wakayama	27.3	69	5 40	- 1	—	—	—	—
Kobe	27.4	68	—	—	e 10 35	+13	e 12.6	17.3
Semipalatinsk	27.7	328	6 37	PPP	—	—	—	—
Andijan	27.9	303	e 5 49	+ 3	e 12 8	?	—	—
Gihu	28.7	67	6 8	+15	—	—	—	—
Bombay	29.7	257	e 6 3	+ 1	e 11 1	+ 2	—	—
Tchimkent	30.3	305	e 6 53	PP	—	—	—	—
Tashkent	30.3	303	6 13	+ 5	i 11 13	+ 4	16.6	21.6
Urakawa	34.2	55	7 48	PP	—	—	—	—
Sverdlovsk	40.9	325	i 7 39	- 1	i 13 55	+ 5	19.6	—
Baku	44.8	300	e 8 15	+ 4	e 15 0	+13	24.6	—
Grozny	47.8	304	e 9 4	+29	—	—	28.0	—
Tiflis	48.6	302	e 8 42	+ 1	e 16 8	+27	e 27.2	—
Moscow	53.0	319	e 9 13	- 1	e 16 47	+ 5	—	33.0
Pulkovo	56.9	325	e 9 34	- 8	e 17 42	+ 7	29.6	34.8
Ksara	56.9	293	i 9 43	+ 1	e 17 52	+17	—	—
Copenhagen	67.0	322	10 51	- 1	19 50	+ 5	35.6	—
Zagreb	68.0	311	e 11 0	+ 2	e 19 57	0	—	—
Bergen	68.9	329	—	—	e 18 33	?	e 37.6	—
Triest	69.6	312	e 16 51	?	i 20 20	+ 4	—	—
Stuttgart	71.3	316	e 11 17	- 2	e 20 41	+ 4	e 37.6	—
Strasbourg	72.2	316	e 9 33?	?	—	—	e 37.6	—
De Bilt	72.3	320	e 11 26	+ 1	e 20 53	+ 5	e 37.6	45.5
Scoresby Sund	73.3	344	—	—	21 3	+ 3	41.6	—
Algiers	80.6	306	—	—	e 8 33?	?	16.6	—
Granada	84.8	310	e 11 53	-39	e 22 10	[-48]	—	—

For Notes see next page.

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NOTES TO MAY 8d. 15h. 24m. 27s.

Additional readings:—

Phu-Lien P_g = +2m.33s. = P*.
 Hong Kong S? = +5m.25s.
 Nanking eN = +5m.55s.
 Calcutta PPE = +3m.41s.
 Chiufeng SZ = +6m.40s.
 Agra SSE = +9m.54s.
 Sumoto eN = +10m.28s.; S is given as eE and L as SN.
 Tifis PP = +10m.39s., e = +25m.3s.
 Ksara ePP = +11m.51s., eSS = +22m.3s.
 Zagreb eNE = +11m.10s. = P_cP - 15s.
 Algiers e = 15h.24m.
 Long waves were also recorded at Toyooka and other European stations.

May 8d. 17h. 22m. 17s. Epicentre 61°·2N. 153°·0W. N.2.

A = -·4292, B = -·2187, C = +·8763; δ = -6;
 D = -·454, E = +·891; G = -·781, H = -·398, K = -·482.

Depth of focus 0·0125 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m.	m.
College	0·0	4·4	30	e 1 4	+ 1	e 1 47	- 6	—	—
Sitka	-0·1	9·9	107	e 2 13	- 5	e 4 4	- 4	e 5·2	—
Tinemaha	-0·9	32·4	121	i 6 19	+ 1	—	—	—	—
Haiwee	z. -0·9	33·3	121	e 6 27	+ 1	—	—	—	—
Santa Barbara	-1·0	34·1	125	i 6 34	+ 1	—	—	—	—
Mount Wilson	z. -1·0	35·0	123	i 6 39	- 1	—	—	—	—
Pasadena	-1·0	35·5	123	i 6 39	- 6	—	—	—	—
Riverside	z. -1·0	36·5	123	i 6 44	- 9	—	—	—	—
La Jolla	z. -1·0	36·5	123	i 6 54	+ 1	—	—	—	—
Tucson	-1·0	39·7	116	e 7 47	+26	e 14 16	+59	e 17·7	—
Florissant	-1·1	43·8	91	i 7 54 _a	0	i 14 13	- 3	e 21·3	—
Scoresby Sund	-1·1	43·9	22	9 54	?	i 14 49	+31	—	—
St. Louis	-1·1	44·0	91	e 7 58	+ 2	i 14 17	- 2	e 21·9	—
Ivigut	-1·1	44·9	42	—	—	17 43 _?	SS	—	—
Ottawa	-1·2	45·7	73	—	—	e 14 43	0	e 17·7	—
Little Rock	-1·2	46·1	96	e 8 16	+ 4	—	—	e 21·9	—
Oak Ridge	-1·2	49·8	73	e 8 42	+ 1	—	—	e 20·7	—
East Machias	-1·2	50·0	68	—	—	e 19 27	SS	e 24·1	—
Philadelphia	-1·3	50·2	77	—	—	e 15 42	- 3	23·8	—
Chiufeng	-1·4	56·1	293	—	—	e 17 7	+ 2	—	—
Pulkovo	-1·5	59·0	358	e 9 49	+ 2	e 17 48	+ 5	25·7	—
Sverdlovsk	-1·5	59·1	339	9 47	0	17 43	- 1	24·7	—
Copenhagen	-1·5	62·6	10	—	—	18 33	+ 3	—	—
Moscow	-1·5	62·8	353	10 16	+ 2	18 31	- 3	—	—
Göttingen	-1·6	66·4	13	10 37	0	—	—	—	—
Chur	-1·6	71·0	14	e 11 6	- 1	—	—	—	—
Tashkent	-1·6	71·9	328	—	—	e 20 19	- 6	—	44·5
Grozny	-1·7	74·4	346	11 30	+ 3	—	—	—	—
Tifis	-1·7	76·1	347	e 11 32	- 5	e 21 11	- 2	37·7	39·5
Erevan	-1·7	77·6	347	e 13 18	?	—	—	—	—
Ksara	-1·7	84·7	353	e 12 22	- 1	—	—	—	—

Additional readings:—

Tinemaha iZ = +7m.24s. = PPP + 0s.
 Mount Wilson iZ = +7m.28s.
 Pasadena iEZ = +7m.13s., iZ = +7m.35s.
 Riverside iZ = +7m.18s.
 La Jolla iZ = +7m.27s.
 Florissant iSSE = +17m.36s.
 Scoresby Sund +17m.55s.
 St. Louis eSSEN = +17m.38s.
 Philadelphia eSS = +19m.24s.
 Sverdlovsk e = +13m.46s.
 Copenhagen +19m.49s.
 Tifis e = +31m.13s.
 Ksara ePP = +13m.2s., ePP = +15m.46s., eSP = +23m.35s.
 Long waves were also recorded at Baku.

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May 8d. Readings also at 0h. (Grozny and La Paz), 1h. (Nanking, Chiufeng, Tashkent, Grozny, Tifis (2), Baku, Ksara (2), Sverdlovsk, Pulkovo, Moscow, Copenhagen, Triest, Mount Wilson, Pasadena, and Tinemaha), 2h. (Andijan, Frunse, Tashkent, Agra, Bombay, Christchurch, and Wellington), 3h. (Kodaikanal and Sverdlovsk), 4h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 5h. (Christchurch, Wellington, Chatham Is., Riverview, and Little Rock), 6h. (near Hukuoka B), 7h. (Erevan, Tifis, and near Taihoku), 8h. (Hong Kong), 9h. (Alicante and Granada), 10h. (Tifis, near Grozny, Toledo, Malaga, near Granada, San Fernando, and near Sumoto), 11h. (Malaga, Toledo, and near Granada), 12h. (Almata, Andijan, Samarkand, Frunse, Tchimkent, Tashkent, and near Tifis), 13h. (Sverdlovsk), 16h. (Tifis), 19h. (near La Paz), 20h. (Chicago), 23h. (Triest).

May 9d. 7h. 43m. 45s. I
8h. 11m. 35s. II
11h. 3m. 36s. III
20h. 21m. 0s. IV

Epicentre 40°·5N. 120°·5W.
(as on 1932 June 6d.)

X.
X.
X.
X.

A = -·3859, B = -·6552, C = +·6494; $\delta = -7$;
D = -·862, E = +·508; G = -·330, H = -·560, K = -·760.

		Δ	Az.	P.	O-C.	S.	O-C.
		°	°	m. s.	s.	m. s.	s.
I Berkeley		3·0	207	e 0 41	- 2	e 1 12	- 5
II		3·0	207	e 0 40	- 3	e 1 12	- 5
III		3·0	207	e 0 43	0	e 1 15	- 2
IV		3·0	207	0 41	- 2	i 1 12	- 5
I San Francisco	N.	3·1	209	e 0 44	0	e 1 18	- 2
II	N.	3·1	209	e 0 54	P _g	e 1 28	S*
IV	N.	3·1	209	e 0 42	- 2	e 1 17	- 3
I Lick	N.	3·2	196	e 0 48	+ 2	e 1 30	S*
II		3·2	196	e 0 48	+ 2	e 1 28	+ 6
III		3·2	196	e 0 45	- 1	e 1 32	S*
IV		3·2	196	e 0 50	P*	e 1 29	+ 7
I Branner		3·3	203	e 0 47	0	e 1 23	- 2
II		3·3	203	e 0 47	0	e 1 25	0
III		3·3	203	e 0 49	+ 2	e 1 26	+ 1
IV		3·3	203	e 0 49	+ 2	e 1 25	0
I Fresno	N.	3·8	171	e 0 56	+ 2	e 1 52	S*
II	N.	3·8	171	e 0 59	P*	e 2 0	S _g
III	N.	3·8	171	e 1 7	P _g	e 1 59	S _g
IV	N.	3·8	171	e 1 4	P*	e 1 47	S*

Additional readings:—
Berkeley IV eSZ = +1m.15s.
Lick III eN = +1m.18s.
Fresno II eN = +1m.47s.

May 9d. 10h. 24m. 34s. Epicentre 41°·5N. 45°·5E. N.3.

A = +·5250, B = +·5342, C = +·6626; $\delta = +3$;
D = +·713, E = -·701; G = +·464, H = +·473, K = -·749.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tifis	0·6	292	i 0 8	- 1	—	—	i 0·3	—
Erevan	1·5	225	0 20	- 1	i 0 38	- 1	—	0·8
Grozny	1·8	6	0 41	S	1 13	+27	—	1·4
Piatigorsk	3·1	325	e 0 44	0	1 22	+ 2	—	—
Baku	3·5	107	—	—	e 2 52	?	e 3·9	—
Sotchi	4·7	298	e 1 10	+ 3	—	—	—	—
Ksara	10·8	228	—	—	e 5 26	S*	—	7·4
Sverdlovsk	18·1	27	e 5 9	+61	—	—	9·4	—

Additional readings:—
Grozny iP_g = +44s., i = +47s. = S + 1s., +1m.0s., and +1m.3s.
Piatigorsk iP_g = +49s. = P* - 1s., e = +1m.0s. = P_g + 4s. and +1m.10s.

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May 9d. Readings also at 1h. (Malaga), 2h. (Apia, Christchurch, and Mount Wilson), 5h. (Tucson, Arapuni, Christchurch, near New Plymouth (2), and Wellington), 6h. (Apia, New Plymouth, Wellington, Christchurch, Riverview, Sydney, Mount Wilson (2), Pasadena (2), Riverside, Tinemaha (2), Scoresby Sund, Copenhagen, Edinburgh, De Bilt, Stuttgart, and Uccle), 7h. (Adelaide, Honolulu, College, Sitka, Ukiah, Tiflis, Ksara, Scoresby Sund, Copenhagen, De Bilt, Uccle, Strasbourg, and Granada), 8h. (Paris, Stuttgart, and San Fernando), 10h. (near Tiflis), 12h. (near Santiago), 13h. (near Taihoku), 14h. (Samarkand), 16h. (Frunse and near Andijan), 18h. (Medan, near Mizusawa, and near Fresno), 19h. (Medan and Tashkent), 20h. (Andijan, Frunse, and Samarkand), 21h. (Chiufeng and Phu-Lien), 22h. (Sverdlovsk and Tashkent), 23h. (Sverdlovsk, Ksara (2), Tashkent, and Tiflis (2)).

May 10d. 5h. 56m. 28s. Epicentre 26°·3N. 96°·8E. N.3.

A = -·1061, B = +·8902, C = +·4431; $\delta = +5$;
D = +·993, E = +·118; G = -·052, H = +·440, K = -·896.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	E. 8·5	245	2 3	+ 3	3 37	+ 1	—	8·7
Phu-Lien	10·6	119	2 25	- 4	5 27	S _g	—	—
Agra	E. 16·8	277	e 3 47	- 5	e 6 45	-12	—	14·1
Hyderabad	19·2	246	4 20	- 1	8 8	SS	—	—
Nanking	20·0	68	4 28	- 2	—	—	11·0	12·3
Chiufeng	21·1	44	e 4 41	0	e 8 31	+ 3	i 11·4	13·3
Medan	22·8	176	e 5 1	+ 2	11 50	L	(11·8)	—
Bombay	E. 23·3	257	i 5 2	- 2	e 9 9	- 1	—	—
Frunse	24·6	318	e 5 19	+ 3	e 9 48	+15	—	—
Andijan	24·8	312	e 5 23	+ 5	e 9 53	+16	—	—
Manila	25·4	113	5 21	- 3	10 17	+29	14·1	16·7
Tashkent	27·2	311	5 43	+ 3	i 10 17	- 1	e 15·1	19·8
Tchimkent	27·4	313	e 5 52	+10	—	—	—	—
Samarkand	28·2	305	e 5 49	0	e 10 59	+24	—	—
Batavia	33·9	162	e 13 12	S	(e 13 12)	+68	(e 18·0)	—
Sverdlovsk	39·9	330	i 7 31	0	13 38	+ 3	20·5	—
Baku	41·1	302	e 7 40	- 1	e 14 3	+10	22·0	24·3
Grozny	44·4	306	e 8 11	+ 3	—	—	—	—
Tiflis	45·0	304	e 8 5	- 8	—	—	e 29·5	—
Ksara	52·5	293	e 9 9	- 1	e 16 47	+12	—	35·0
Simferopol	52·8	308	e 9 10	1 2	e 16 40	+ 1	—	—
Yalta	52·8	307	e 9 10	- 2	—	—	—	—
Pulkovo	55·8	327	9 34	0	17 19	- 1	30·5	34·1

Additional readings and notes:—

Calcutta P_g = +2m.46s., S* = +4m.7s., S_g = +4m.39s.

Chiufeng iNZ = +5m.33s., eSN = +8m.38s.

Medan SE? = +12m.2s.

Batavia gives S as P and L as S.

Long waves were also recorded at Hong Kong, Husan, Vladivostok, Scoresby Sund, Copenhagen, and De Bilt.

May 10d. 17h. 40m. 7s. Epicentre 38°·3N. 117°·7W. N.3.

A = -·3648, B = -·6948, C = +·6198; $\delta = -2$;
D = -·885, E = +·465; G = -·288, H = -·549, K = -·785.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tinemaha	1·3	200	i 0 17	- 1	i 0 24	P _g	—	—
Haiwee	2·2	186	i 0 33	+ 2	i 0 53	- 4	—	—
Fresno	N. 2·3	227	i 0 29	- 4	i 0 46	-13	—	—
Lick	3·3	253	i 0 47	0	e 1 20	- 5	—	—
Branner	3·6	258	e 0 52	+ 1	e 1 33	+ 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.
Berkeley	3.6	265	i 0 53	+ 2	i 1 35	+ 3	—	—
San Francisco N.	3.8	263	0 54	0	1 37	0	—	—
Mount Wilson	4.1	184	i 0 59	+ 1	e 1 50	+ 5	—	—
Santa Barbara	4.2	204	i 0 58	- 2	i 1 42	- 6	—	—
Pasadena	4.2	185	i 1 0	0	i 1 52	+ 4	—	—
Riverside	4.3	177	i 1 3	+ 2	i 1 59	+ 9	—	—
La Jolla	5.4	176	i 1 21	+ 4	e 2 35	S*	—	—
Tucson	8.3	135	—	—	e 3 0	-31	e 4.4	—

Additional readings:—

Branner iEN = +1m.5s., =P_g -3s., iN = +1m.27s., eE = +1m.30s.

Berkeley SEN = +1m.38s.

May 10d. Readings also at 0h. (Baku, Tashkent, Sverdlovsk (2), Chiufeng, and near Sumoto), 1h. (Tifis), 3h. (Medan and near Batavia), 4h. (Agra and Husan), 5h. (Guadalajara, Tacubaya, and Tananarive), 6h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Fresno, and Florissant), 9h. (Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, Sitka, Tucson, near Mizusawa, and near Capodimonte), 11h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Tacubaya, and near Mizusawa), 12h. (Czernovitz, Simferopol, Sebastopol, Theodosia, Yalta, near Bucharest, and near Toyooka), 13h. (near La Paz), 14h. (Baku, Sverdlovsk, Tashkent, Tifis, Grozny, Ksara, Simferopol, and Yalta), 15h. (Sverdlovsk, Tashkent, Tifis, Ksara, Nanking, Tacubaya, Oaxaca, Puebla, Pasadena (2), Riverside, Tinemaha (2), and Manila), 16h. (Cape Town, Ksara, and La Paz), 17h. (Sverdlovsk, Tashkent, and Tifis, De Bilt, Paris, Strasbourg, and Stuttgart), 18h. (Nagoya, Tifis, and Ksara), 19h. (Lick and near Branner and Fresno), 20h. (Sverdlovsk, Riverview, Sydney, Tchinkent, Samarkand, Andijan, Tashkent (2), and near Frunse), 21h. (Sebastopol, Simferopol, and Yalta), 23h. (near Tifis).

May 11d. 17h. 27m. 28s. Epicentre 5°·0S. 153°·0E. N.1.

A = -·8876, B = +·4523, C = -·0872; $\delta = +1$;
D = +·454, E = +·891; G = +·078, H = -·040, K = -·996.

The epicentre 5°·0S. 153°·9E. of 1934 May 13th was used as tentative origin.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Palau	22.2	302	4 59	+ 6	9 16	SS	—	—
Riverview	28.9	185	e 5 54	- 1	i 10 42	- 5	e 14.5	15.8
Sydney	28.9	185	e 5 27	-28	e 11 2	+15	15.5	16.6
Adelaide	32.8	203	e 6 29	- 1	i 11 40	- 8	i 14.4	20.0
Melbourne	33.6	193	e 6 55	+18	11 54	- 6	16.2	20.2
Manila	37.3	301	i 7 8a	- 1	13 9	+13	18.3	22.2
Arapuni	39.0	152	—	—	13 32?	+11	20.5	—
New Plymouth	39.1	155	—	—	15 32?	SS	—	—
Nake	40.3	326	7 37	+ 2	—	—	—	—
Wellington	41.2	156	7 42	0	13 51	- 3	19.8	23.5
Kosyun	41.5	312	7 47	+ 3	—	—	—	—
Siomisaki	41.8	339	7 47	0	—	—	—	—
Miyazaki	42.2	331	7 49	- 1	13 38	-31	—	—
Christchurch	42.2	160	i 7 52	+ 2	i 14 8	- 1	19.9	23.2
Kameyama	42.3	340	8 8	+17	—	—	—	—
Kagosima	42.4	329	8 2	+10	—	—	—	—
Wakayama	42.7	339	7 56	+ 2	—	—	—	—
Kakioka	42.9	346	7 51	- 5	—	—	—	—
Nagoya	42.9	340	e 7 54	- 2	e 10 34	?	—	—
Osaka	42.9	338	7 45	-11	13 11	-68	—	—
Sumoto	42.9	338	e 7 10	-46	—	—	e 23.3	—
Taihoku	42.9	315	7 59	+ 3	e 14 34	+15	—	—
Tukubasan	43.0	346	7 55	- 2	—	—	—	—
Kumagaya	43.1	345	7 59	+ 1	—	—	—	—
Kobe	43.1	338	e 7 56	- 2	e 13 41	-41	—	24.0

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.
Gihu	43.2	340	7 56	- 2	13 43	-41	—	—
Kumamoto	43.3	333	7 58	- 1	—	—	—	—
Maebasi	43.4	342	8 2	+ 2	—	—	—	—
Oiwake	43.5	343	8 2	+ 1	—	—	—	—
Nagasaki	43.7	332	8 0	- 2	—	—	—	—
Nagano	43.9	343	8 4	0	—	—	—	—
Perth	44.0	228	10 22	PPP	i 14 32	- 4	24.0	—
Tomie	44.1	330	8 9	+ 3	—	—	—	—
Hukuoka B	44.1	333	8 23	+17	14 45	+ 8	20.8	—
Hamada	44.5	336	8 7	- 2	—	—	—	—
Sendai	44.7	348	8 9	- 1	—	—	—	—
Mizusawa	45.5	346	8 18	+ 1	14 30	-27	—	—
	45.5	346	e 8 14	- 3	15 0	+ 3	—	—
Batavia	45.9	266	7 56	-24	e 14 55	- 8	21.5	—
Husan	46.0	332	8 20	- 1	15 18	+14	e 20.5	—
Taikyū	46.8	334	8 30	+ 3	e 15 28	+12	—	—
Hong Kong	46.8	306	8 28	+ 1	15 39	+23	—	24.2
Hakodate	48.1	348	8 50	+13	—	—	—	—
Keizyo	49.0	332	e 8 44	0	—	—	—	—
Zinsen	49.1	331	e 8 42	- 2	e 15 48	0	—	—
Sapporo	49.2	350	8 48	+ 3	—	—	—	—
Nanking	49.3	320	8 45	- 1	16 3	+12	—	25.4
Vladivostok	51.8	340	9 32	+27	e 16 40	+15	e 24.7	33.5
Phu-Lien	52.3	301	e 9 13	+ 4	e 16 49	+16	22.5	—
Honolulu	54.9	59	—	—	i 17 19	+11	22.9	—
Medan	54.9	278	9 39	+11	17 25	+17	e 30.5	—
Chiufeng	56.4	326	9 37 ^a	- 2	17 29	+ 1	26.9	30.0
Calcutta	68.8	296	11 9	+ 6	20 20	+13	33.4	38.4
Irkutsk	70.5	331	11 11	- 3	20 33	+ 6	35.5	—
Colombo	73.9	278	e 10 53	-41	21 5	- 2	—	—
Hyderabad	76.9	289	11 45	- 6	21 40	- 2	36.6	52.8
Agra	79.1	299	11 57	- 6	21 53	-13	—	—
College	82.1	22	e 13 0	+41	e 22 18	-20	e 35.8	—
Bombay	82.4	290	e 12 17	- 3	e 22 30	-11	40.5	—
Semipalatinsk	83.0	322	e 12 24	+ 1	e 22 37	-10	—	—
Alhata	83.4	315	e 12 27	+ 2	—	—	—	—
Sitka	84.4	31	e 12 32	+ 2	e 22 58	[+ 3]	e 38.6	—
Frunse	85.0	314	e 12 33	0	e 22 54	[- 5]	—	—
Andijan	86.2	311	e 16 42	?	—	—	—	—
Ukiah	88.4	51	—	—	e 23 33	[+10]	e 36.6	—
Tashkent	88.6	312	i 12 50	- 1	23 34	[+10]	40.6	52.7
Berkeley	88.9	52	i 12 50	- 2	e 23 35	[+ 9]	e 40.6	—
Victoria	89.6	41	i 23 42	SKS	(e 23 42)	[+12]	e 37.4	—
Seattle	90.1	42	—	—	e 23 30	[- 3]	e 37.5	—
Samarkand	90.1	309	e 14 18	?	—	—	—	—
Pasadena	91.8	56	i 13 6	0	—	—	42.7	—
Mount Wilson	91.9	56	e 13 3	- 3	—	—	—	—
Tinemaha	92.0	53	i 13 7	0	—	—	—	—
Riverside	92.5	56	i 13 9	0	—	—	—	—
Sverdlovsk	95.5	327	i 13 22	- 1	i 24 34	{+16}	39.5	54.7
Bozeman	97.7	45	—	—	e 24 13	[- 2]	e 39.5	—
Tucson	97.9	58	14 23	+49	e 25 4	- 4	e 40.5	—
Baku	103.2	311	e 14 3	+ 5	—	—	—	60.8
Grozny	105.9	313	e 14 11	0	24 49	[- 5]	51.0	—
Tiflis	106.9	313	14 17	+ 1	24 56	[- 2]	50.0	67.7
Moscow	108.2	328	e 14 22	0	24 56	[- 9]	55.5	64.5
Pulkovo	110.3	333	e 14 28	- 4	25 4	[-11]	50.5	67.2
Theodosia	112.9	317	e 19 31	PP	e 25 21	[- 5]	—	—
Little Rock	113.0	55	e 19 25	PP	e 25 18	[- 8]	e 48.6	58.1
Florissant	113.7	50	i 19 27 ^a	PP	i 25 25	[- 4]	e 49.5	67.8
Simferopol	113.7	318	e 19 38	PP	e 25 24	[- 5]	—	—
Yalta	113.8	317	e 19 32	PP	e 25 23	[- 6]	66.5	—
St. Louis	113.9	50	e 19 30	PP	e 25 24	[- 6]	e 53.3	58.1
Sebastopol	114.2	318	—	—	e 25 26	[- 5]	—	—
Scoresby Sund	114.4	358	19 35	PP	25 25	[- 6]	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.
Chicago	115.0	46	—	—	e 29 19	PS	e 39.0	—
Ksara	115.2	305	e 18 18	[-15]	—	—	—	—
Upsala	115.6	337	e 19 39	PP	e 25 31	[-5]	e 56.5	61.9
Königsberg	117.3	331	e 23 54	?	i 25 40	[-2]	e 66.5	68.5
Helwan	119.8	302	20 14	PP	—	—	—	—
Toronto	N. 120.0	41	e 19 42	PP	e 25 17	[-33]	50.5	—
Copenhagen	120.4	336	18 49	[+2]	e 25 50	[-2]	56.5	—
Ivigtut	121.6	12	—	—	26 2	[+7]	56.5	—
Ottawa	121.6	39	e 20 20	PP	e 25 48	[-7]	e 51.5	—
Budapest	122.1	325	e 20 32?	PP	—	—	e 68.5	—
Cape Town	122.1	224	32 3	?	e 41 48	SSS	59.4	74.5
Hamburg	122.9	336	e 18 54	[+1]	—	—	e 59.5	66.5
Prague	123.1	329	e 20 50	PP	—	—	e 57.5	72.5
Vienna	123.2	327	e 18 57	[+4]	—	—	e 67.5	—
Vermont	123.5	38	e 20 40	PP	e 26 0	[-1]	e 53.1	—
Cheb	124.1	331	—	—	e 30 35	PS	e 61.5	78.5
Graz	124.4	326	e 21 4	PP	—	—	e 58.5	76.8
Philadelphia	124.4	44	e 20 45	PP	e 25 50	[-13]	e 52.8	—
Zagreb	124.8	325	e 19 0	[+3]	e 27 59	{+11}	58.5	65.0
Edinburgh	125.6	344	—	—	e 37 32?	SS	e 65.5	82.5
Oak Ridge	125.6	40	i 19 5	[+7]	—	—	e 65.5	—
De Bilt	125.9	336	e 19 4	[+5]	e 20 57	PP	e 56.5	78.9
Triest	126.1	326	e 19 1	[+2]	i 26 5	[-3]	e 57.7	70.7
Stuttgart	126.5	331	e 19 0	[0]	e 30 38	SKSP	e 62.5	83.5
East Machias	126.9	35	—	—	e 22 20	?	e 51.3	—
Uccle	127.2	336	e 19 4	[+3]	—	—	e 58.5	—
Padova	127.3	326	18 32	[-30]	—	—	—	—
Strasbourg	127.4	332	e 19 5	[+3]	—	—	e 62.5	—
Chur	127.7	330	e 19 3	[+1]	—	—	—	—
Zurich	127.8	331	e 18 58	[-5]	—	—	—	—
Bidston	127.8	343	e 22 30	PKS	e 39 0	?	e 62.5	—
Kew	128.5	339	e 19 7	[+3]	—	—	e 57.5	79.2
Oxford	128.6	340	i 22 23	?	—	—	e 68.5	72.5
Florence	128.7	325	18 27	[-37]	22 28	?	—	—
Neuchatel	128.9	331	e 19 6	[+1]	—	—	—	—
Huancayo	129.0	110	e 19 11	[+6]	—	—	e 61.9	—
Paris	129.5	336	e 19 10	[+4]	27 56	[-22]	65.5	80.5
La Plata	130.6	146	(22 38)	PKS	—	—	22.6	—
La Paz	134.0	119	19 20	[+7]	i 28 42	[-5]	64.0	74.1
Algiers	138.0	324	—	—	e 22 14	PP	52.5	—
San Juan	139.5	68	e 19 32	[+11]	—	—	e 58.1	—
Almeria	141.0	329	e 23 4	PKS	—	—	e 80.1	—
Granada	141.4	331	i 19 25	[+2]	—	—	—	—
Malaga	142.1	330	e 18 42	[-42]	—	—	—	—
San Fernando	143.2	331	19 32	[+4]	—	—	72.0	—
Rio de Janeiro	147.9	151	e 29 53	SKKS	(e 29 53)	[-17]	—	—

Additional readings and notes:—

Riverview iPNZ = +5m.57s., iN = +11m.6s.
 Sydney SS = +13m.32s.
 Adelaide iPPP = +7m.36s. = PP + 3s., iSS = +13m.12s.
 Manila iN = +16m.3s.
 Arapuni SS = +17m.52s. = S_cS + 16s.
 Wellington pP? = +8m.4s., PP? = +9m.42s. = P_cP - 4s., SS = +17m.17s. = SSS + 3s.
 Christchurch PPP = +9m.44s. = P_cP - 5s., P_cP = +10m.2s., eN = +12m.29s., SS = +16m.42s., SSS = +17m.24s., iNZ = +17m.44s., iS_cS? = +17m.58s.
 Nagoya S_cS? = +18m.22s.
 Sumoto eZ = +7m.57s. = P - 2s., eE = +9m.29s. = PP - 1s., eN = +9m.37s., e = +17m.54s. = S_cS - 5s.
 Kobe ePN = +7m.59s., ePE = +8m.12s.
 Perth P = +10m.44s., i = +15m.12s., P_cS = +17m.37s. = PP + 5s., S = +18m.2s., PS = +18m.22s., SS = +21m.12s., SSS = +21m.42s., SSSS = +22m.27s.
 Batavia ePZ = +8m.3s.
 Husan ? = +18m.16s. = S_cS - 3s.
 Hong Kong PP = +10m.15s., S_cS = +18m.17s., SS = +18m.40s., ? = +20m.38s.

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Nanking eE = +19m.50s.
 Vladivostok e = +18m.57s. = S_cS + 1s.
 Chiufeng PPEZ = +11m.34s., SSNZ = +21m.6s., iNZ = +23m.11s. = SSS + 3s.
 Calcutta PPPE = +15m.26s., PSE = +20m.50s. = S_cS - 6s.
 Colombo iP = +11m.37s.
 Agra PPE = +14m.51s., PSE = +22m.25s., SSE = +26m.46s.
 College eSS = +28m.6s.
 Bombay SSE? = +28m.21s.
 Almata e = +13m.37s.
 Sitka eSS = +28m.38s., eSSS = +32m.2s.
 Ukiah e = +24m.41s. = PS + 8s. and +24m.54s., eSS = +29m.32s.
 Tashkent iSKS = +23m.25s., ePS = +24m.38s., eSS = +29m.38s., eSSS = +32m.38s.
 Berkeley eZ = +13m.48s., ePPE = +16m.7s., eZ = +16m.53s., ePSE = +24m.51s., eSSEN = +31m.37s.
 Victoria eS = +29m.54s. = SS + 20s.
 Sverdlovsk PP = +17m.3s., PPP = +19m.30s., SKS = +23m.56s., PS = +26m.0s., SS = +31m.14s., SSS = +35m.32s.
 Bozeman e = +23m.36s., +24m.51s. = SKKS + 15s. and +35m.42s.
 Tucson eSKKS = +24m.36s., ePS = +26m.14s., eSS = +31m.8s., eSSS = +35m.14s.
 Baku PP = +18m.20s., PS = +27m.38s., SS = +33m.32s.
 Tiflis PKP = +18m.22s. = PP - 13s., ePP = +18m.42s., SKKS = +25m.11s., ePPS = +28m.16s., eSS = +33m.46s., eSSS = +37m.6s.
 Moscow ePKP = +18m.35s. = PP - 9s., PP = +18m.50s., S = +26m.8s. = SKKS + 14s., PS = +28m.10s., PPS = +29m.13s., SS = +34m.8s., L_q = +50.5m.
 Pulkovo PKP = +18m.30s., PP = +19m.6s., PPP = +21m.34s., SKKS = +25m.58s., PS = +28m.38s., PPS = +29m.41s., SS = +34m.32s.
 Little Rock eSSEN = +40m.7s.
 Florissant eSKKSEZ = +26m.45s., iSKKSE = +26m.52s., ePS = +29m.12s., iPSE = +29m.19s., ePPSE = +30m.22s., eSSEN = +35m.25s., eSSSE = +39m.51s., eSSSN = +39m.56s.
 St. Louis eSKKSEN = +26m.33s., ePSEN = +29m.12s., eSSEN = +35m.24s.
 Scoresby Sund e = +21m.21s., SKKS = +26m.39s., PS = +29m.22s., iZ = +29m.37s., PPS = +30m.26s., SS = +35m.26s., +36m.14s., SSS = +40m.24s.
 Chicago eSS = +35m.20s.
 Ksara iP = +19m.38s., PS = +29m.37s., PPS = +30m.48s., SS = +36m.6s.
 Königsberg eE = +26m.45s. = SKKS - 13s., eN = +27m.11s., eE = +29m.35s. = PS - 2s.
 Copenhagen e = +19m.44s., PP = +20m.20s., eE = +26m.6s., SKKS = +27m.29s., PS = +30m.14s., PPS = +31m.32s., SS = +36m.26s., SSS = +41m.2s.
 Ivigtut +27m.2s., PS = +30m.14s.
 Ottawa e = +36m.56s.
 Cape Town PPE = +35m.14s., ePPPE = +36m.43s., ePPPN = +36m.58s., iSN = +42m.6s., eSSSN = +50m.8s.
 Prague e = +14m.50s.? and +30m.32s.
 Vermont e = +32m.32s., eSS = +37m.50s.
 Philadelphia e = +32m.30s. and +36m.20s., eSS = +37m.1s., eSSS = +42m.25s.
 Zagreb ePPZ = +20m.51s.
 Oak Ridge ePPZ = +20m.55s.
 Trieste i = +28m.17s., e = +50m.58s.
 Stuttgart ePP = +20m.55s., ePKS = +22m.16s., ePKS = +22m.36s., ePPP = +23m.40s., ePPS = +32m.38s., eSSS = +42m.55s.
 East Machias eSS = +38m.37s.
 Uccle eN = +21m.4s., +22m.25s., and +38m.43s.
 Strasbourg i = +21m.2s. and +22m.36s.
 Bidston e = +47m.30s.
 Kew ePPZ = +21m.13s., ePKS = +22m.25s., eSKSPZ = +31m.12s., eEN = +38m.53s. and +47m.25s.
 Huancayo e = +17m.47s., ePKS = +22m.27s., ePPP = +24m.17s., eSS = +38m.10s., e = +39m.47s. and +52m.32s.
 Paris ePP = +22m.31s.
 La Paz iSKP = +22m.48s., iPPP = +24m.58s., iSKS = +26m.14s., iZ = +26m.58s., SSE = +38m.52s., SSZ = +39m.52s.
 Algiers iPS = +22m.54s.
 San Juan ePKS = +22m.56s., eSS = +39m.19s.
 Granada PP = +22m.32s.
 Malaga e = +19m.42s.
 San Fernando PKP₂ = +19m.57s., SKP = +22m.49s., PP = +23m.16s., SS = +43m.9s.
 Long waves were also recorded at Ann Arbor, Columbia, and other European stations.

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May 11d. Readings also at 2h. (near Tiflis), 7h. (Baku, Tashkent, Simferopol, Yalta, Ksara (2), Sverdlovsk, Grozny, Tiflis (2), and near Erevan), 9h. (near Tananarive), 10h. (Sverdlovsk, Tashkent, Copenhagen, Paris, De Bilt, Uccle, Strasbourg, Stuttgart, and near Wellington), 11h. (La Paz), 12h. (Sverdlovsk, Tashkent, Ksara, and Cape Town), 13h. (Mizusawa), 17h. (Algiers), 19h. (Cape Town and near Branner), 20h. (Adelaide, Melbourne, Riverview, Christchurch, Wellington, Hong Kong, Tashkent, Sverdlovsk, Mount Wilson, Pasadena, and Tinemaha), 21h. (Copenhagen, De Bilt, Paris, Uccle, and Philadelphia).

May 12d. Readings at 2h. (Alicante, Almeria, Malaga, Toledo, near Granada, and San Fernando), 4h. (Simferopol, Sebastopol, Theodosia, and Yalta), 5h. (Sydney), 8h. (La Paz), 9h. (near Algiers), 10h. (near La Paz and near Taihoku), 12h. (La Jolla, Mount Wilson, Pasadena, Riverside, Tinemaha, Sebastopol, Yalta, near Simferopol, and Theodosia), 16h. (near Algiers and near Nagoya), 17h. (near Santiago, and near San Fernando), 18h. (Malabar and near Trieste), 20h. (Santiago), 21h. (La Paz and Santiago), 22h. (Mount Wilson, Pasadena, and Tinemaha).

May 13d. 11h. 9m. 22s. Epicentre $31^{\circ}3'N$. $131^{\circ}5'E$. (as on 1933 Oct. 4d.). X.

$$A = -.5662, B = +.6400, C = +.5195; \quad \delta = +6;$$

$$D = +.749, E = +.663; \quad G = -.344, H = +.389, K = -.854.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Hukuoka	2.4	338	0 35	+ 1	1 7	S*	—	1.2
Hukuoka B	2.4	338	0 38	P*	1 10	S*	—	1.3
Sumoto	4.2	42	1 1	+ 1	1 35	-13	—	1.9
	z.	4.2	1 2	+ 2	1 38	-10	—	1.8
Husan	4.3	332	1 8	P*	2 12	S _g	—	2.7
Kobe	4.5	42	e 1 13	P*	1 49	- 6	—	2.0
Taiyu	5.1	334	e 1 24	P*	—	—	—	—
Toyooka	E. 5.1	33	1 21	P*	2 5	- 5	—	2.2
	N. 5.1	33	1 18	+ 5	2 8	- 2	—	2.2
	z. 5.1	33	1 11	- 2	2 7	- 3	—	2.2
Nagoya	6.0	48	e 1 18	- 7	2 38	+ 5	—	—
Keizyo	7.2	331	—	—	e 3 6	+ 2	e 3.8	—
Zinsen	E. 7.3	329	—	—	e 3 48	S _g	—	—
Zi-ka-wei	z. 8.6	272	—	—	e 4 28	S _g	—	6.4
Nanking	10.8	276	2 47	+15	5 53	S _g	7.6	9.7
Chiufeng	15.2	309	e 3 37	PP	—	—	—	10.2

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

May 13d. Readings also at 0h. (Calcutta), 1h. (Haiwee, Mount Wilson, Pasadena, Riverside, and Tinemaha), 4h. (Oak Ridge), 6h. (La Paz and San Fernando), 8h. (near Samarkand), 9h. (near Mizusawa and Nagoya), 10h. (Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, Frunse, and Semipalatinsk), 12h. (near La Paz), 14h. (Tananarive), 15h. (Wellington and Nagoya), 16h. (near Christchurch, Nagoya, Sumoto, and near Hukuoka B), 17h. (Alicante, Toledo, Malaga, near Almeria, and Granada), 20h. (Chur), 22h. (Graz).

May 14d. 4h. 58m. 34s. Epicentre $26^{\circ}5'S$. $179^{\circ}0'W$. (as on 1925 July 29d.). X.

$$A = -.8948, B = -.0156, C = -.4462; \quad \delta = 0;$$

$$D = -.017, E = +1.000; \quad G = +.446, H = +.008, K = -.895.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Wellington	15.7	197	14 26	?	—	—	e 6.4	—
Christchurch	18.4	199	e 4 7	- 4	7 9	-24	8.2	9.6
Riverview	26.8	247	e 5 38	+ 2	e 12 8	?	e 13.2	15.2
Pasadena	83.6	47	i 12 29 _a	+ 3	—	—	—	—
Mount Wilson	z. 83.7	47	i 12 29	+ 2	—	—	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverside	84.0	47	i 12 30	+ 2	—	—	—	—
Haiwee	85.0	45	i 12 37 _a	+ 4	—	—	—	—
Tinemaha	85.4	44	i 12 38 _a	+ 3	—	—	—	—
Tashkent	122.9	303	—	—	e 31 32	?	e 57.5	74.2
Sverdlovsk	128.4	322	19 8	[+ 4]	e 33 36	?	56.4	—
Grozny	140.2	307	e 19 36	[+15]	—	—	—	—
Tiflis	141.2	305	e 19 32	[+ 9]	—	—	e 77.4	82.7
Simferopol	147.7	314	e 19 50	[+12]	e 33 57	SKSP	—	—
Yalta	147.9	313	e 20 19	[+40]	—	—	—	—
Ksara	149.1	291	i 19 44	[+ 4]	—	—	77.4	85.4

Riverview eE = +6m.32s.

Pasadena iZ = +12m.46s., +13m.0s., and eZ = +15m.57s.

Mount Wilson iZ = +12m.45s. and +15m.59s.

Riverside iZ = +12m.47s.

Tinemaha iZ = +12m.54s., +13m.15s., and +13m.53s.

Tashkent e = +41m.32s.

Sverdlovsk PP = +22m.35s.

Tiflis e = +21m.8s., and +23m.13s.

Ksara ePP = +23m.34s., ePPP = +26m.55s.

Long waves were also recorded at Baku, Pulkovo, Oak Ridge, and other European stations.

May 14d. Readings also at 0h. (Tiflis and near Erevan), 1h. (Samarkand and near Nagoya (2)), 4h. (Oak Ridge), 6h. (Frunse and near Irkutsk), 11h. (near Berkeley, Lick, Branner, and Fresno), 12h. (Chiufeng, Nanking, and Columbia), 13h. (near La Paz), 16h. (near Bucharest and near Simferopol), 17h. (Ksara, Tiflis, Copenhagen, Bucharest, Sofia, Zagreb, De Bilt, Stuttgart, and near Trieste), 18h. (Malaga), 19h. (San Francisco, and near Mizusawa), 20h. (near Christchurch and Wellington), 21h. (Oak Ridge).

May 15d. Readings at 1h. (Hong Kong and Nanking), 3h. (Tacubaya), 4h. (near Berkeley, Branner, Lick, and Fresno), 7h. (near Berkeley, Branner, Lick, and Fresno), 9h. (Lick and Fresno), 12h. (Apia and Sebastopol), 15h. (Nagoya), 18h. (near Santiago and San Javier), 20h. (Pasadena, Tinemaha, and Nagoya), 21h. (Oaxaca, Puebla, Tacubaya, Tucson, Mount Wilson, and Riverside).

May 16d. 6h. 45m. 22s. Epicentre 28°·6N. 103°·6E. X.

Determinations made for the more widely recorded shock at 7h. below.

A = -·2065, B = +·8534, C = +·4787; $\delta = +9$;

D = +·972, E = +·235; G = -·113, H = +·465, K = -·878.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Hong Kong	11.4	121	4 36	S	(4 36)	-12	6.0	6.2
Nanking	13.6	71	3 4	- 6	6 10	+29	7.1	8.8
Calcutta	E. 15.0	250	e 3 35	+ 7	—	—	i 7.9	11.0
Chiufeng	15.4	39	e 3 29	- 5	6 37	+13	7.9	8.8
Zi-ka-wei	Z. 15.7	76	e 3 34	- 4	6 46	+15	9.1	10.4
Tainan	16.0	107	3 44	+ 3	—	—	—	—
Arisan	16.2	104	6 58	S	(6 58)	+15	—	—
Taihoku	16.4	99	7 32	S	(7 32)	+44	—	—
Karenko	16.7	102	7 12	S	(7 12)	+17	—	—
Kosyun	16.8	109	3 58	+ 6	—	—	—	—
Taito	16.8	107	3 52	0	—	—	—	—
Zinsen	21.2	58	e 4 39	- 3	e 8 34	+ 4	e 11.1	—
Keizyo	21.4	58	e 4 44	0	e 8 41	+ 7	e 11.5	—
Taikyu	22.3	63	e 4 54	0	e 8 58	+ 6	—	—
Husan	22.5	97	e 4 55	- 1	8 59	+ 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.
Hukuoka B	23.4	70	e 9 28	S	(e 9 28)	+16	—	—
Irkutsk	23.7	1	e 4 38?	-29	e 9 20	+2	12.3	—
Miyazaki	24.2	75	5 9	-3	9 34	+7	—	—
Medan	25.4	192	e 5 29	+5	14 27	?	—	—
Vladivostok	26.9	49	e 5 34	-3	e 10 12	-2	i 14.0	15.5
Bombay	29.7	258	—	—	e 10 38?	-21	—	—
Tashkent	30.6	304	e 6 34	+24	e 11 40	+26	i 17.9	—
Batavia	34.9	174	i 6 44	-4	i 12 19	-1	e 19.2	—
Sverdlovsk	41.2	326	7 42	0	e 13 57	+3	20.6	—
Sebastopol	56.7	307	—	—	e 21 4	SS	—	—

Additional readings:—

Hong Kong S = +5m.29s.

Zi-ka-wei iZ = +8m.0s. and +8m.32s.

Hukuoka B eS? = +15m.0s.

May 16d. 7h. 5m. 48s. Epicentre 28°·6N. 103°·6E. (as at 6h.).

N.1.

A = -·2065, B = +·8534, C = +·4787; $\delta = +9$;
D = +·972, E = +·235; G = -·113, H = +·465, K = -·878.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	N. 8.3	159	0 12?	?	—	—	—	—
Hong Kong	11.4	121	2 32 _a	-8	4 35	-13	5.7	8.2
Nanking	13.6	71	i 3 3	-7	5 27	-14	6.2	8.9
Calcutta	E. 15.0	250	3 27	-1	6 39	+24	7.8	10.4
Chiufeng	15.4	39	i 3 32	-2	6 17	-7	7.5	8.9
Zi-ka-wei	15.7	76	i 3 34 _a	-4	6 52	+21	8.5	9.1
Taiyu	15.9	102	3 28	-12	6 41	+5	—	—
Tainan	16.0	107	3 47	+6	6 58	+20	—	—
Arisan	16.2	104	3 44	0	7 3	+20	—	—
Taihoku	16.4	99	3 44	-2	e 6 55	SS	8.8	10.5
Karenko	16.7	102	3 48	-2	7 5	SS	—	—
Kosyun	16.8	109	3 51	-1	7 12	SS	—	—
Taito	16.8	107	3 52	0	7 13	SS	—	—
Dairen	18.1	51	4 10	+2	7 37	SS	—	—
Isigakizima	18.9	98	4 15	-2	7 50	+6	—	—
Yingkow	19.4	47	4 10 _a	-13	7 41	-13	—	—
Heizyo	21.1	53	i 4 42	+1	i 8 31	+3	11.4	11.7
Zinsen	21.2	58	i 4 40 _k	-2	i 8 33	+3	e 10.8	13.7
Manila	21.3	127	i 3 45 _k	-58	i 7 45	-47	10.0	12.2
Keizyo	21.4	58	e 4 45	+1	i 8 42	+8	11.2	11.9
Naha	21.4	90	4 43	-1	8 38	+4	—	—
Tomle	22.0	72	4 48	-3	—	—	—	—
Dehra Dun	22.3	282	5 12	PP	9 12	+20	12.5	13.2
Taikyu	22.3	65	i 4 56	+2	9 0	+8	10.5	13.2
Ituhara	22.5	69	4 53	-3	—	—	—	—
Husan	22.5	97	4 53	-3	8 53	-2	12.2	14.5
Agra	N. 22.6	274	4 55	-2	8 54	-3	—	—
Nake	22.7	83	5 0	+2	9 4	+5	—	—
Nagasaki	22.9	72	4 59	-1	9 5	+2	—	—
Unzendake	23.2	72	5 0	-3	9 15	+7	—	—
Saga	23.3	71	5 7	+3	9 16	+6	—	—
Hukuoka	23.4	70	5 5 _k	0	9 16	+4	11.8	14.3
Hukuoka B	23.4	70	5 4	-1	9 17	+5	13.7	15.2
Kagosima	23.4	76	5 7	+2	—	—	—	—
Kumamoto	23.6	72	5 9 _a	+3	9 23	+7	—	—
Irkutsk	23.7	1	i 5 8	+1	i 9 24	+6	11.2	—
Simonosaki	23.9	70	5 9	0	—	—	—	—
Miyazaki	24.2	75	5 12 _k	0	9 36	+9	—	—
Ooita	24.4	71	5 10	-4	—	—	—	—
Hamada	24.9	68	5 18	-1	9 43	+4	—	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Uwazima	25.2	71	5 19	- 3	9 50	+ 6	—	—
Medan	25.4	192	5 30	+ 6	i 9 54	+ 6	—	—
Simidu	25.5	73	5 25	0	10 3	+13	—	—
Hyderabad	25.6	250	5 24	- 1	9 51	0	12.6	16.1
Koti	26.0	70	5 28	- 1	10 4	+ 6	—	—
Tadotu	26.2	69	5 41	+10	10 19	+17	—	—
Okayama	26.4	68	5 40	+ 7	10 22	+17	—	—
Vladivostok	26.9	49	i 5 39	+ 2	i 10 12	- 2	—	17.1
Sumoto	27.2	69	i 5 41k	+ 1	i 10 27	+ 9	—	15.4
Toyooka	27.2	66	5 41	+ 1	10 30	+12	15.2	16.3
Frunse	27.3	309	e 5 44	+ 3	i 10 48	+28	—	—
Kobe	27.4	68	e 5 45	+ 3	10 39	+17	—	17.6
	27.4	68	e 5 42	0	10 35	+13	—	17.0
Wakayama	27.4	69	5 44	+ 2	10 13	- 9	—	—
Miyadu	27.5	66	5 44	+ 1	10 39	+15	—	—
Osaka	27.7	68	5 51	+ 7	10 46	+19	—	—
Kyoto	27.9	67	5 42	- 4	—	—	—	—
Siomisaki	27.9	71	5 48	+ 2	10 43	+13	—	—
Semipalatinsk	28.0	328	e 5 49	+ 2	i 10 39	+ 7	14.8	—
Andijan	28.2	304	6 52	PP	—	—	17.5	—
Hikone	28.4	67	5 54	+ 3	—	—	—	—
Ibukisan	28.5	67	5 57	+ 5	10 49	+ 9	—	—
Kameyama	28.5	68	5 54	+ 2	10 53	+13	—	—
Tu	28.5	68	6 7	+15	10 59	+19	—	—
Kanazawa	28.8	64	6 14	+20	11 48	SS	—	—
Gihu	28.8	67	5 53	- 1	10 47	+ 2	—	—
Nagoya	28.9	67	e 5 57	+ 2	—	—	e 13.2	17.6
Husiki	29.1	64	5 59	+ 2	—	—	—	—
Wazima	29.1	62	5 57	0	10 48	- 2	—	—
Toyama	29.2	64	5 52	- 6	—	—	—	—
Hamamatu	29.5	68	5 54	- 7	—	—	—	—
Bombay	29.7	258	6 5	+ 3	i 10 59	0	15.2	18.3
Matumoto	29.8	64	6 7	+ 4	—	—	—	—
Omaesaki	29.9	68	6 12	+ 8	—	—	—	—
Nagano	30.1	66	6 8	+ 2	11 23	+17	—	—
Kohu	30.3	67	6 15	+ 7	11 30	+21	—	—
Oiwake	30.3	64	6 13	+ 5	11 32	+23	—	—
Hunatu	30.4	67	6 9	0	11 32	+22	—	—
Misima	30.5	68	6 10	+ 1	11 39	+27	—	—
Numadu	30.5	68	6 12	+ 3	11 19	+ 7	—	—
Kodaikanal	30.6	240	i 6 17	+ 7	11 16	+ 2	—	—
Tashkent	30.6	304	i 6 13	+ 3	e 11 10	- 4	16.7	19.2
Tchimkent	30.6	306	e 7 6	PP	e 12 44	SS	—	—
Maebasi	30.7	64	6 24	+13	11 32	+16	—	—
Kumagaya	31.0	65	6 29	+15	—	—	—	—
Tokyo	31.2	67	6 24	+ 8	11 45	+22	—	—
Colombo	31.2	231	6 14	- 2	11 22	- 1	16.2?	17.2?
Hatidyozima	31.3	70	8 23	+126	—	—	—	—
Tukubasan	31.5	64	6 14	- 4	11 18	-10	—	—
Kakioka	31.6	64	6 17	- 2	11 25	- 4	—	—
Mito	31.8	64	6 16	- 5	—	—	—	—
Akita	31.9	60	6 24	+ 2	—	—	—	—
Yamagata	31.9	62	6 22	0	—	—	—	—
Hokusima	32.0	63	6 25	+ 2	—	—	—	—
Samarkand	32.0	300	6 25	+ 2	e 11 50	+15	18.7	—
Sendai	32.3	62	6 21	- 4	—	—	—	—
Mizusawa	32.6	61	e 6 20	- 8	e 11 24	-22	16.9	—
Hakodate	32.8	58	6 32	+ 2	—	—	—	—
Sapporo	33.5	52	6 44	+ 8	12 0	+ 2	—	—
Titizima	34.0	83	12 2	S	(12 2)	- 4	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Batavia	34.9	174	i 6 46	- 2	i 12 20	0	—	—
Sikka	36.4	44	7 18	+17	12 58	+16	—	—
Nemuro	36.6	54	7 2	- 1	12 41	- 4	—	—
Sverdlovsk	41.2	326	i 7 46	+ 4	i 13 56	+ 2	23.8	24.8
Baku	45.1	300	8 15	+ 1	e 15 23	+31	25.2	33.6
Grozny	48.1	304	e 8 41	+ 4	—	—	20.2	—
Tiflis	48.9	302	i 8 45	+ 2	i 15 50	+ 5	25.2	34.2
Erevan	49.2	300	e 8 30	-15	—	—	28.0	—
Piatigorsk	50.0	306	e 8 36	-15	e 15 42	-19	25.2	—
Sotchi	52.4	305	e 9 12	+ 3	—	—	28.2	—
Moscow	53.4	320	9 18	+ 1	16 49	+ 2	27.7	31.7
Theodosia	55.3	307	9 34	+ 3	17 24	+11	25.2	—
Simferopol	56.2	307	9 37	0	17 29	+ 4	—	—
Yalta	56.3	306	9 36	- 2	17 27	0	23.2	—
Sebastopol	56.7	307	e 9 38	- 3	17 32	0	—	—
Ksara	57.1	293	i 9 45 _a	+ 1	i 17 50	+12	—	—
Pulkovo	57.3	325	e 9 44	- 1	e 17 41	+ 1	29.2	33.2
Czernowitz	61.2	312	e 10 12?	- 1	—	—	25.8	35.2
Perth	61.7	168	i 18 47	PS	—	—	—	—
Bucharest	61.9	308	10 20	+ 2	18 44	+ 3	25.2	34.2
Helwan	62.0	290	(i 10 15)	- 3	i 10 15	P	32.2	40.6
Lemberg	62.1	314	e 18 16	S	(e 18 16)	-27	e 31.4	35.4
Königsberg	63.1	321	i 10 28	+ 2	e 19 0	+ 4	e 29.9	40.2
Upsala	63.6	326	e 10 28	- 1	i 19 1	- 1	e 31.2	39.7
Belgrade	65.7	309	e 10 42 _k	- 1	e 19 19	-10	e 27.3	38.1
Budapest	65.8	313	10 44	0	—	—	e 35.2	37.2
Copenhagen	67.3	323	i 10 52 _a	- 2	19 49	+ 1	32.2	—
Vienna	67.3	314	e 10 52	- 2	e 19 44	- 4	e 34.2	38.2
Prague	68.0	317	e 10 58	0	e 19 59	+ 2	e 30.2	37.2
Graz	68.3	312	i 11 0	0	i 20 0	- 1	e 32.2	43.3
Zagreb	68.4	311	e 10 59 _a	- 2	e 20 2	0	e 38.5	40.2
Cheb	69.2	317	—	—	e 20 16	+ 5	e 36.2	43.4
Bergen	69.3	329	i 10 46	-20	20 17	+ 4	e 33.2	39.6
Hamburg	69.4	321	e 11 7 _a	0	i 20 17	+ 3	e 31.2	38.2
Jena	69.4	317	i 11 5	- 2	i 20 12	- 2	e 35.2	41.7
Triest	69.9	312	i 11 10 _k	0	20 21	+ 1	—	37.7
Göttingen	70.1	319	i 11 9	- 2	i 20 24	+ 2	e 35.2	38.8
Padova	71.2	312	11 27	+ 9	—	—	—	—
Adelaide	71.6	150	i 11 20	0	i 20 29	-11	32.7	44.2
Stuttgart	71.6	316	i 11 19 _a	- 1	i 20 42	+ 2	e 36.2	44.7
College	71.7	25	e 16 12	?	i 19 34	-67	e 34.2	—
Tananarive	72.0	236	—	—	e 20 41	- 4	36.9	41.4
Karlsruhe	72.0	317	11 21	- 2	20 51	+ 6	39.7	49.9
Chur	72.1	314	e 11 22	- 1	e 20 46	0	—	—
Florence	72.2	310	11 24	0	20 48	+ 1	—	38.2
Strasbourg	72.5	316	i 11 14 _a	-12	i 20 44	- 7	e 34.2	39.7
Zurich	72.5	315	e 11 29	+ 3	e 21 2	PS	—	—
De Bilt	72.6	320	i 11 25 _a	- 1	i 20 56	+ 4	e 35.2	47.4
Basle	73.1	315	e 11 30	+ 1	e 20 59	+ 1	—	—
Uccle	73.6	319	i 11 31 _a	- 1	i 21 4	0	34.2	40.7
Neuchatel	73.7	315	e 11 22	-11	—	—	—	—
Scoresby Sund	73.7	344	11 32 _k	- 1	i 21 7	+ 2	36.2	—
Durham	75.0	325	—	—	i 21 17	- 3	—	43.2
Edinburgh	75.3	326	e 14 12?	PP	i 21 22	- 2	e 36.2	53.4
Paris	75.6	318	i 11 43	- 1	e 21 27	0	37.2	40.2
Kew	75.9	321	—	—	i 21 31	+ 1	35.2	40.4
Stonyhurst	75.9	324	11 45	0	i 21 30	0	37.2	43.7
Drome	76.2	314	11 19	-28	20 46	-48	28.7	40.2
Oxford	76.3	322	—	—	i 21 31	- 4	e 36.8	49.4
Bidston	76.5	324	—	—	i 21 26	-11	35.6	40.2

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Melbourne	76.9	147	—	—	i 21 34	- 8	49.3	54.9
Riverview	77.0	141	—	—	e 21 29	-14	e 38.1	43.4
Sydney	77.0	141	—	—	e 20 57	-46	47.2	52.2
Rathfarnham	78.2	315	e 17 0	?	—	—	e 38.6	43.7
Barcelona	79.3	312	e 12 4	0	e 22 5	- 3	e 42.0	44.0
Tortosa	N. 80.7	311	e 12 5	- 7	22 11	-12	e 39.2	44.2
Algiers	80.9	307	e 12 6	- 7	e 22 20	- 5	e 34.2	46.2
Sitka	81.1	28	e 12 12	- 2	i 22 24	- 3	e 37.2	—
Almeria	84.7	309	e 12 31	- 1	i 22 59	[+ 2]	e 45.9	—
Granada	85.3	310	i 12 34	- 1	i 22 58	[- 3]	—	—
Malaga	86.1	310	e 12 39	0	e 23 11	[+ 4]	41.3	—
Honolulu	87.0	67	—	—	i 23 22	- 5	41.6	—
Ivigtut	87.3	347	—	—	23 24	- 6	42.2	—
San Fernando	87.4	311	e 12 47	+ 2	i 24 1	PS	45.7	47.2
Victoria	92.3	29	e 24 12	S	(e 24 12)	- 5	e 47.3	52.5
Christchurch	95.8	137	e 16 12	?	26 1	PS	—	46.7
Wellington	95.9	135	—	—	i 23 52	[-13]	e 50.2	—
Ukiah	99.4	35	e 17 36	PP	e 24 19	[- 4]	e 43.0	—
Cape Town	E. 101.9	237	20 29	?	32 52	?	47.2	54.2
	N. 101.9	237	20 32	?	33 0	?	48.6	58.7
Tinemaha	103.5	33	i 18 17	[+22]	e 24 40	[- 3]	—	—
Mount Wilson	z. 105.8	35	i 18 36	[+32]	—	—	—	—
Pasadena	105.9	35	e 18 26	[+21]	—	—	e 46.2	—
Ottawa	106.0	359	—	—	e 26 4	{+26}	e 46.2	—
East Machias	106.2	352	—	—	e 26 0	{+21}	e 52.0	—
Riverside	z. 106.4	35	e 18 22	[+16]	—	—	—	—
Vermont	106.8	357	—	—	e 25 0	[+ 2]	e 53.2	—
Toronto	107.7	2	—	—	i 25 47	[- 4]	50.2	—
Oak Ridge	108.8	355	—	—	26 32	{+33}	e 61.2	—
Chicago	108.9	9	—	—	e 26 28	{+29}	e 47.7	—
Tucson	110.9	31	e 18 39	PP	—	—	e 48.7	—
Florissant	111.3	11	—	—	e 25 9	[-10]	i 56.2	63.9
Philadelphia	111.4	358	—	—	e 26 21	{+ 4}	e 59.0	—
St. Louis	111.5	11	—	—	e 25 11	[- 9]	e 57.6	—
Charlottesville	113.3	1	—	—	e 35 12	SS	e 59.2	—
San Juan	132.0	346	e 21 29	PP	—	—	e 68.2	—
Huancayo	163.4	356	e 20 0	[+ 3]	e 44 55	SS	e 70.7	—
La Paz	165.7	326	i 20 4k	[+ 4]	32 12	{+23}	81.7	102.4

Additional readings and notes:—

Nanking SN = +5m.33s., SE = +5m.50s. =SSSS - 1s.
 Calcutta PPE = +3m.41s., SSE = +7m.11s.
 Chiufeng iSE = +6m.21s.
 Zi-ka-wei iZ = +4m.9s., +4m.22s., +4m.42s., +5m.18s., +5m.47s., and +7m.0s.
 Zinsen iSE = +8m.37s.
 Husan ? = +13m.0s.
 Agra SSN = +9m.37s. =SSS + 1s.
 Medan iN = +10m.16s. and +14m.32s.
 Sumoto iSEZ = +10m.30s.
 Toyooka ePN = +5m.52s., eSZ = +10m.39s.
 Kobe PE = +5m.48s., iSE = +11m.42s., P_cSE = +12m.41s.
 Nagoya iP = +6m.4s.
 Bombay PP = +7m.12s., SS = +12m.23s.
 Kodaikanal PPE = +6m.58s., PPPE = +7m.15s., SSE = +12m.39s.
 Tashkent e = +8m.18s. and +11m.48s.
 Mizusawa ePN = +6m.27s.
 Batavia iP = +6m.49s.
 Sverdlovsk L_a = +21.2m.
 Baku e = +18m.43s. =SSS - 4s.
 Tiflis PP = +10m.46s., eSS = +19m.24s., L_a = +21.9m.
 Moscow L_a = +24.2m.
 Ksara P_cP = +10m.43s., PP = +11m.58s., PS = +18m.18s., SS = +21m.54s.
 Pulkovo L_a = +25.2m.
 Bucharest PSEN = +19m.8s., S_cSEN = +20m.0s., SKKSEN = +20m.18s.
 Helwan eP = 7h.4m.4s., PPS = +12m.30s., SS = +17m.44s., SSS = 21m.55s.
 Königsberg ePN = +10m.32s., eN = +20m.22s., eSSSN = +24m.59s., eE = +30m.35s., eZ = +32m.20s., and +34m.7s.

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Upsala iPE = +10m.31s., PPE = +12m.49s.
 Belgrade e = +12m.6s., ePPP = +14m.50s., e = +23m.22s.
 Copenhagen +13m.16s. = PP + 2s. and +24m.30s.
 Vienna S_cS = +20m.48s.
 Graz iSSS = +27m.58s.
 Zagreb eP_cP = +11m.23s., ePP = +14m.19s., ePPPNW = +15m.12s.?, ePSNE = +20m.24s., eNE = +20m.57s., eS_cS = +21m.30s., eSSS = +27m.55s., e = +31m.0s.
 Bergen e = +16m.39s., SSS = +27m.12s.?
 Jena eN = +27m.52s.
 Trieste i = +15m.33s., iPS = +20m.50s., i = +21m.13s., and +28m.10s.
 Göttingen iEN = +21m.11s.
 Adelaide e = +16m.35s., i = +21m.18s., e = +25m.2s.
 Stuttgart ePP = +13m.34s., ePPP = +15m.35s., eSS = +25m.12s., eSSS = +29m.6s.; T_c = 7h.5m.45s.
 College ePS = +27m.35s.
 Tananarive N = +30m.29s.
 Strasbourg ePP = +13m.56s., iPS = +21m.26s., eSS = +25m.17s.
 Zurich iP = +11m.35s.
 Uccle SSE = +25m.51s.
 Scoresby Sund eZ = +13m.45s., +14m.20s., iPS = +21m.40s., +25m.53s.
 Paris PS = +21m.58s.
 Kew eEN = +30m.10s.
 Stonyhurst pP = +12m.45s., sP = +14m.20s., PS = +21m.57s.
 Oxford e = +30m.20s.
 Bidston e = +29m.49s.
 Melbourne e = +24m.26s., i = +30m.21s., e = +38m.2s., i = +38m.48s., e = +43m.16s., +45m.44s., and +46m.49s.
 Riverview iN = +21m.38s., iE = +21m.43s., eN = +30m.12s.
 Rathfarnham Castle e = +25m.34s., +35m.4s., and +37m.32s.
 Algiers SS = +25m.20s.
 Sitka e = +33m.52s.
 Honolulu iSS = +28m.42s., i = +29m.50s.
 San Fernando iSKS = +23m.31s., SSS = +35m.6s.
 Christchurch iEN = +23m.57s., S_cSZ? = +26m.43s., iP_cSS_cPN = +31m.5s., SS = +31m.21s., SSS = +34m.19s.
 Ukiah ePS = +26m.41s., eSS = +32m.6s.
 Cape Town iPPN = +25m.33s., iPPPE = +27m.37s., iSKKS = +32m.41s., eE = +33m.35s., eN = +33m.50s., PPSE = +34m.41s., eSSN = +40m.15s., eSSE = +40m.40s., eSSSE = +44m.0s., eSSSN = +44m.5s.
 Pasadena iZ = +18m.36s.
 Ottawa e = +33m.36s.
 East Machias e = +31m.3s., eSS = +33m.8s.
 Vermont iSKKS = +26m.14s., iPS = +28m.21s., e = +36m.12s., and +47m.35s.
 Toronto iE = +27m.11s. and +35m.7s.
 Oak Ridge eZ = +26m.36s., eSN = +28m.14s., ePS = +29m.31s., eZ = +30m.27s., eEZ = +34m.5s., eN = +34m.10s.
 Chicago eSS = +34m.10s., eSSS = +38m.23s.
 Tucson eSS = +34m.36s., eSSS = +38m.48s.
 Florissant iSEN = +26m.51s., iPSNZ = +28m.42s., iPPSZ = +29m.29s., iSSE = +34m.32s.
 Philadelphia i = +26m.51s., ePS = +28m.40s., eSS = +33m.48s., eSSS = +38m.40s., e = +51m.6s.
 St. Louis eSEN = +26m.53s.
 Charlottesville e = +44m.12s.
 San Juan ePKS = +22m.31s., eSS = +40m.0s., eSSS = +45m.42s.
 La Paz iPKP₂ = +20m.40s., PPZ = +24m.57s., iPPP = +28m.40s., iN = +34m.37s., iSKSP = +35m.20s., iSSE = +45m.28s., iSSS = +51m.32s.
 Long waves were also recorded at Bagnères, Laibach, Columbia, Bozeman, Seattle, Ann Arbor, and Madison.

May 16d. 19h. 51m. 7s. Epicentre 37°2N. 121°7W. N.3.
(see also 1936 May 30d. 10h.).

A = - .4186, B = - .6777, C = + .6046; δ = +4.

	Δ	Az.	P.	O - C.	S.	O - C.
	°	°	m. s.	s.	m. s.	s.
Lick	0.1	17	10 0	- 1	10 3	0
Branner	0.4	299	e 0 7	+ 1	e 0 15	+ 5
Berkeley	0.8	326	e 0 14	+ 3	e 0 27	+ 6
San Francisco	0.9	313	—	—	e 0 22	- 1

San Francisco gives an additional eN = +26s.

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May 16d. Readings also at 2h. (Mount Wilson, Pasadena, Riverside, Tinemaha, Ksara, and Sverdlovsk), 3h. (Tashkent and Tifis), 4h. (Tifis), 5h. and 6h. (near Lick), 8h. (Tacubaya, Manila, Zagreb, Tifis, Frunse, near Samarkand, and near Lick), 9h. (Andijan, Chiufeng, Samarkand, Hong Kong, and Nanking), 13h. (Chiufeng), 14h. (Sverdlovsk and Tashkent), 19h. (Tifis), 21h. (Sverdlovsk, Tashkent, and Vladivostok), 22h. (Chiufeng, Vladivostok, and near Wellington), 23h. (Sverdlovsk).

May 17d. 15h. 11m. 0s. Epicentre 43°·5N. 83°·0E. N.3.

A = +·0884, B = +·7200, C = +·6884; $\delta = +11$;
D = +·993, E = -·122; G = +·084, H = +·683, K = -·725.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Frunse	6·2	267	e 1 54	P _g	e 2 28	-10	—	—
Semipalatinsk	7·2	346	1 39	- 3	2 58	- 6	—	—
Andijan	8·3	254	—	—	e 3 58	S*	—	—
Tashkent	10·4	268	i 2 25	- 1	—	—	6·6	7·5
Sverdlovsk	19·4	322	e 4 26	+ 3	e 8 4	+10	11·9	—
Chiufeng	N. 24·8	86	—	—	e 9 32	-·5	—	12·7
Tifis	28·0	281	e 6 53	?	—	?	e 19·2	—
Moscow	31·2	309	—	—	e 13 34	?	—	16·7
Pulkovo	35·3	316	e 6 48	- 4	—	—	16·5	20·9

Additional readings:—

Frunse e = +4m.4s., e = +4m.14s.

Andijan e = +5m.44s.

Tashkent e = +5m.37s., i = +6m.6s., and +6m.21s.

Sverdlovsk L_g = +10·2m.

Tifis e = +12m.18s., +13m.23s., and +15m.19s.

Moscow e = +14m.34s. and +15m.0s.

Long waves also recorded at Tchinkent, Copenhagen, Prague, Paris, Strasbourg, Stuttgart, Hamburg, and De Bilt.

May 17d. 17h. 38m. 4s. Epicentre 45°·8N. 26°·5E. (as on 1934 March 29d.). X.

A = +·6239, B = +·3111, C = +·7169; $\delta = -2$;
D = +·446, E = -·895; G = +·642, H = +·320, K = -·697.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bucharest	1·4	192	i 0 24 _a	P _g	0 42	S*	—	—
Czernowitz	2·5	351	i 0 53	P _g	—	—	—	1·4
Belgrade	4·4	259	e 1 0	- 3	e 2 20	S _g	—	—
Sebastopol	5·1	102	e 1 15	+ 2	i 2 11	+ 1	e 2·4	—
Budapest	5·3	291	1 18	+ 3	3 8	S _g	—	—
Simferopol	5·4	96	—	—	i 2 12	- 6	e 2·6	—
Yalta	5·6	101	i 1 20	0	i 2 10	-13	e 2·6	—
Theodosia	6·3	94	e 1 31	+ 1	e 2 40	- 1	—	—
Vienna	7·3	293	e 1 39	- 5	—	—	—	—
Graz	7·6	283	i 1 48	0	i 4 24	+70	e 4·9	5·4
Triest	8·9	274	i 2 5 _a	- 1	3 52	+ 6	—	—
Prague	9·1	302	e 2 5	- 4	e 4 12	+21	e 4·5	5·4
Königsberg	9·8	339	i 2 21	+ 3	e 4 6	- 2	—	—
Piatigorsk	11·9	93	e 3 46	+59	—	—	—	—
Moscow	12·1	31	e 2 46	- 4	—	—	—	6·6
Copenhagen	13·2	323	3 1	- 4	5 44	+12	7·9	—
Tifis	13·8	101	i 3 13	0	i 6 1	+15	e 7·9	14·1
Grozny	13·9	94	e 3 18	+ 4	—	—	—	—
Ksara	14·0	146	e 2 54	-21	e 5 35	-16	—	—
Pulkovo	14·0	8	3 13	- 2	6 0	+ 9	6·8	7·4
Sverdlovsk	23·7	50	5 5	- 2	9 13	- 5	—	—

For Notes see next page.

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NOTES TO MAY 17d. 17h. 38m. 4s.

Additional readings and notes:—

Bucharest iEN = +26s. and +32s.
 Belgrade e = +1m.39s. and +1m.53s.
 Budapest PP = +1m.58s., PPS = +3m.14s.
 Trieste iPPP = +2m.13s., i = +5m.47s.
 Königsberg eSN = +4m.9s., eZ = +4m.56s., +5m.19s., and +6m.40s.
 Moscow e = +3m.8s. and +4m.56s., i = +5m.55s.
 Long waves were also recorded at Paris, Strasbourg, Stuttgart, De Bilt, and Edinburgh.

May 17d. Readings also at 4h. (near Erevan and Tifis), 5h. (Sotchi, Baku, Grozny, Piatigorsk, Ksara, Tashkent, and near Sumoto), 6h. (near Samarkand), 10h. (Chiufeng, Nanking, Manila, Tashkent, and Sverdlovsk), 11h. (Tifis, Pulkovo, Copenhagen, and Stuttgart), 12h. (New Plymouth), 13h. (Tifis, Adelaide, Frunse, and near Andijan), 14h. (Baku), 16h. (Hamburg and near Malabar), 18h. (near Trieste), 22h. (Chiufeng, Nanking, and Malaga), 23h. (Samarkand, Tashkent, and near Frunse).

May 18d. 20h. 18m. 58s. Epicentre 3°·0S. 124°·5E. N.3.

A = -·5656, B = +·8230, C = -·0523; $\delta = -3$;
 D = +·824, E = +·566; G = +·030, H = -·043, K = -·999.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	17·9	349	i 4 30	+25	8 12	+50	10·0	—
Medan	26·6	285	i 4 21?	-74	i 7 49?	?	—	—
Nanking	35·5	352	6 40	-13	12 4	-25	15·6	—
Riverview	E. 39·6	145	—	—	e 14 8	+38	—	—
Chiufeng	43·8	351	8 5a	+ 2	14 31	- 2	—	—
Almata	62·9	324	e 10 29	+ 4	—	—	—	—
Frunse	64·2	322	e 10 34	0	—	—	—	—
Andijan	64·5	318	10 36	+ 1	e 19 18	+ 4	—	—
Tashkent	66·8	318	10 47	- 4	i 19 29	-13	—	41·7
Samarkand	67·7	315	e 10 56	0	20 2	PS	—	—
Sverdlovsk	78·6	330	i 11 59	- 1	21 48	-12	41·0	—
Grozny	84·0	314	e 12 27	- 1	22 23	[-29]	—	—
Tifis	84·4	313	—	—	e 22 23	[-32]	—	—
Ksara	90·6	303	e 12 57	- 3	—	—	—	—
Moscow	90·7	326	e 22 55	?	e 24 32	+29	—	—

Additional readings:—

Riverview eN = +15m.8s.
 Chiufeng SS?E = +17m.26s.
 Tifis e = +22m.49s., eL = +23m.26s.
 Ksara ePPS = +25m.7s., eSS = +29m.43s.

May 18d. Readings also at 0h. (Sverdlovsk and Semipalatinsk), 3h. (near Taihoku), 4h. (Ksara), 5h. (Tifis), 10h. (Chiufeng, Nanking, Phu-Lien, Samarkand, Frunse, Tashkent (2), Pulkovo, Irkutsk, and Scoresby Sund), 11h. (Sverdlovsk), 12h. (Frunse and near Almata), 13h. (Ravensburg, Stuttgart, near Chur, Neuchatel, and Zurich), 15h. (near Wellington), 16h. (Sumoto), 17h. (Bagnères), 19h. (near Mizusawa and Nagoya), 20h. (Chiufeng and Phu-Lien), 21h. (near Belgrade), 22h. (La Plata, Florence, and near Trieste).

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May 19d. 7h. 22m. 33s. Epicentre 5°·9S. 112°·5E. N.2.

$$A = -.3807, B = +.9190, C = -.1028; \delta = +6;$$

$$D = +.924, E = +.383; G = +.039, H = -.095, K = -.995.$$

A depth of focus 0·080 has been assumed. See "Provisional Catalogue of deep focus earthquakes in the East Indies," H. P. Berlage, where depth 600 k.m. is suggested.

	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L. m.	M. m.
				m.	s.		m.	s.			
Malabar	+1·0	5·0	255	i 1	31	+ 6	i 2	48	+15	—	—
Batavia	+0·8	5·6	267	i 1	35	+ 4	i 2	56	+13	—	—
Medan	-2·5	16·7	305	3	27	+ 9	i 6	14	+18	—	—
Manila	-3·5	22·1	22	4	11	- 3	i 6	46	-52	—	—
Palau	-4·1	25·6	59	3	41	-64	7	24	-72	—	—
Phu-Lien	-4·4	27·3	349	e 4	58	- 2	e 11	57	?	—	12·2
Hong Kong	-4·6	28·2	4	6	34	+88	12	8	?	—	—
Kosyun	-4·7	29·0	15	5	13	0	9	13	-15	—	—
Taito	-4·9	29·9	15	5	31	+11	—	—	—	—	—
Taiyu	-5·0	31·1	15	5	30	0	—	—	—	—	—
Karenko	-5·0	31·2	16	5	29	- 2	—	—	—	—	—
Taihoku	-5·1	32·2	16	5	39	0	i 10	5	-12	—	—
Isigakizima	-5·1	32·3	20	5	38	- 2	10	8	-10	—	—
Calcutta	E. -5·6	36·9	321	—	—	—	e 10	29	-55	—	—
Adelaide	-5·7	37·7	144	i 11	22	S	(i 11	22)	-13	—	—
Kodaikanal	E. -5·8	38·4	295	e 10	27?	S	(e 10	27?)	-78	—	—
Nanking	-5·8	38·4	8	6	29	+ 1	i 11	39	- 6	15·2	—
Hyderabad	-6·1	40·9	306	—	—	—	12	23	+ 5	—	15·5
Melbourne	-6·4	43·5	142	—	—	—	i 12	50	- 3	—	—
Riverview	N. -6·6	45·4	133	—	—	—	i 13	17	- 1	—	—
Sydney	-6·6	45·4	133	—	—	—	e 12	39	-39	16·3	24·4
Kobe	-6·7	45·9	27	e 7	20	- 5	13	27	+ 3	—	—
Kameyama	Z. -6·7	45·9	27	7	28	+ 3	e 13	20	+ 4	—	—
Agra	E. -6·8	46·6	28	7	31	+ 1	13	34	+ 1	—	—
	-6·8	46·9	217	e 9	23	PP	i 13	39	+ 1	—	—
Nagoya	-6·9	47·1	28	e 7	36	+ 2	e 13	42	+ 3	—	—
Gihu	-6·9	47·2	28	7	35	0	13	42	+ 1	—	—
Misima	-7·0	48·0	29	7	40	0	—	—	—	—	—
Kohu	-7·0	48·2	29	7	43	+ 1	13	54	0	—	—
Toyama	-7·0	48·4	27	7	46	+ 2	14	1	+ 4	—	—
Oiwake	-7·1	48·8	28	7	49	+ 3	13	57	- 5	—	—
Nagano	-7·1	48·9	27	7	50	+ 3	14	5	+ 2	—	—
Kumagaya	-7·1	49·0	29	7	51	+ 3	—	—	—	—	—
Maebasi	-7·1	49·0	29	7	45	- 3	14	3	- 2	—	—
Tukubasan	-7·1	49·4	29	7	50	- 1	14	8	- 2	—	—
Tyosi	-7·1	49·4	31	7	50	- 1	14	12	+ 2	—	—
Kakioka	-7·1	49·5	29	7	49	- 3	14	9	- 2	—	—
Mito	-7·2	49·7	29	7	56	+ 3	14	14	+ 1	—	—
Hokusima	-7·3	50·8	30	8	3	+ 2	14	32	+ 4	—	—
Yamagata	-7·3	51·2	29	8	7	+ 3	—	—	—	—	—
Sendai	-7·3	51·4	29	8	7	+ 1	14	41	+ 4	—	—
Vladivostok	-7·4	52·1	18	i 8	14	+ 4	14	52	+ 6	18·2	—
Mizusawa	-7·4	52·2	28	e 8	11	0	i 14	51	+ 4	—	—
Almata	-7·8	58·7	331	9	2	+ 4	16	23	+10	—	—
Andijen	-7·9	59·4	325	e 9	1	- 2	—	—	—	—	—
Frunse	-7·9	59·7	328	9	4	- 1	i 10	32	PP	—	—
Tashkent	-8·0	61·5	324	i 9	18	0	i 16	50	+ 1	—	—
Samarland	-8·0	61·9	321	e 9	20	- 1	e 16	53	- 1	—	—
Tchimkent	-8·0	62·0	325	e 9	20	- 1	—	—	—	—	—
Christchurch	-8·1	64·5	136	i 9	37	- 2	i 17	29	+ 1	—	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	-8.7	73.6	315	e 10 34	- 4	—	—	33.4	37.8
Sverdlovsk	-8.8	75.5	334	i 10 46	- 4	i 19 38	- 3	—	—
Erevan	-9.0	77.4	313	e 10 43	-18	—	—	—	—
Grozny	-9.0	77.6	317	e 10 58	- 4	i 20 1	- 3	—	—
Tiflis	-9.0	77.7	315	i 10 55	- 8	i 19 59	- 6	e 35.4	—
Ksara	-9.3	82.3	304	i 11 20k	- 9	20 33	-24	—	—
Helwan	-9.4	85.3	300	e 11 45	0	i 21 4	-26	—	—
Moscow	-9.5	86.5	327	i 11 36	-16	21 24	-19	—	—
Pulkovo	-9.7	91.1	330	11 59	-16	i 22 9	[-90]	31.4	—
Triest	-9.9	100.3	315	—	—	e 22 17	[-130]	—	—
Copenhagen	-9.9	100.5	326	e 16 57	PP	e 23 31	[-57]	—	—
Hamburg	-9.9	102.2	324	—	—	e 22 27?	[-129]	—	—
Stuttgart	-10.0	103.2	318	e 12 54	-18	e 25 27	?	e 57.4	—
Strasbourg	—	104.2	319	—	—	24 27?	{-58}	—	—
Paris	—	107.5	319	—	—	(e 25 27?)	{-22}	e 25.4	—
Edinburgh	—	109.1	327	—	—	e 24 27?	{-94}	—	—
Scoresby Sund	—	109.3	346	18 5	PP	24 3	[-67]	—	—
Santa Barbara z.	—	124.1	52	i 17 49	[-66]	—	—	—	—
Tinemaha	—	124.3	49	i 17 50	[-66]	—	—	—	—
Haiwee	—	124.9	50	e 17 51	[-66]	—	—	—	—
Pasadena	—	125.4	52	i 17 52k	[-66]	—	—	—	—
Mount Wilson z.	—	125.5	52	i 17 52k	[-66]	—	—	—	—
Riverside z.	—	126.1	52	i 17 53k	[-66]	—	—	—	—
La Jolla z.	—	126.6	53	i 17 54	[-66]	—	—	—	—
Tucson	—	131.8	51	e 18 6	[-64]	—	—	—	—
Florissant	—	141.1	29	e 18 17	[-66]	—	—	—	—
St. Louis	—	141.3	29	e 18 17	[-66]	i 27 25	?	—	—
Little Rock	—	143.1	36	i 18 23	[-64]	—	—	—	—
Oak Ridge	—	143.2	4	i 18 24	[-64]	—	—	—	—
Philadelphia	—	145.3	9	i 18 31	[-64]	—	—	—	—
La Paz	—	157.6	179	i 18 49k	[-62]	(42 7)	?	42.1	—
Huancayo	—	160.4	156	e 19 5	[-49]	e 42 46	?	—	—

Additional readings :—

Malabar P_cP = +6m.51s., S_cS = +13m.31s.
 Hong Kong PP = +7m.46s., P_cP = +9m.13s.
 Taihoku iN = +7m.19s.
 Adelaide iS = +14m.46s., i = +15m.27s., +16m.57s., and +17m.27s.
 Nanking iN = +8m.7s., eN = +10m.29s.
 Melbourne i = +16m.1s. and +24m.15s.
 Riverview iE = +13m.20s., iZ = +13m.27s., eN = +16m.39s.
 Agra SSE = +16m.18s., SSSE = +16m.54s.
 Vladivostok sP = +11m.7s., sPP = +13m.4s.
 Tashkent PP = +12m.11s., sPP = +14m.31s., esS = +20m.17s., esSS = +24m.7s.
 Baku SP = +19m.19s.
 Sverdlovsk ipP = +12m.50s., isS = +23m.16s.
 Tiflis pP = +12m.59s., sS = +23m.39s.
 Ksara ipP = +13m.26s., esP = +14m.29s., pPP = +16m.29s., SKS = +20m.49s., sS = +24m.16s.
 Helwan pP = +11m.55s., e = +13m.39s., sS = +21m.19s., e = +22m.15s. and +22m.53s.
 Moscow ipP = +13m.45s., PS = +22m.26s., esS = +25m.5s.
 Pulkovo pP = +14m.8s., PP = +15m.52s., sPP = +18m.43s., SKS = +21m.35s., SS = +25m.35s.
 Triest e = +26m.32s. and +29m.38s.
 Copenhagen eE = +19m.57s., +25m.3s., and +28m.57s.
 Stuttgart ePPEZ = +17m.17s.
 Scoresby Sund +21m.4s. and +26m.39s.
 Tinemaha i = +19m.40s.
 Haiwee e = +19m.46s.
 Pasadena iZ = +19m.47s., +20m.9s., +20m.12s., +20m.17s., and +20m.33s.
 Mount Wilson iZ = +19m.47s., +20m.12s., and +20m.32s.
 Riverside eZ = +19m.45s. and +20m.9s., iZ = +20m.34s.
 Florissant ePKP = +21m.6s., ipPKPEN = +22m.1s., ePPE = +23m.48s.
 St. Louis ePKP = +21m.5s., eSKPE = +24m.31s.
 Little Rock i = +18m.87s.
 Oak Ridge iEZ = +20m.44s., eZ = +21m.8s., iZ = +21m.42s.
 Philadelphia ePP = +21m.51s., e = +35m.6s. and +40m.2s.
 La Paz iPPZ = +21m.11s., iN = +28m.57s.
 Huancayo e = +21m.49s.

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May 19d. 16h. 24m. 15s. Epicentre 42°·5N. 89°·3E. (as on 1922 Sept. 29d.). R.3.

A = +·0090, B = +·7372, C = +·6756; $\delta = -2$;
D = +1·000, E = -·012; G = +·008, H = +·676, K = -·737.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Semipalatinsk	10·0	325	e 2 49	+28	e 5 21	S _g	—	—
Frunse	10·8	277	e 2 29	- 3	e 4 32	- 1	—	5·7
Andijan	12·7	268	e 3 29	+31	e 5 9	-11	—	—
Tchimkent	14·5	276	e 4 49	?	e 6 59	+56	—	—
Tashkent	14·9	272	e 3 22	- 5	4 52	?	e 5·8	8·2
Samarkand	17·0	268	e 4 1	+ 7	—	—	e 8·8	—
Chiufeng	20·2	87	e 8 39	S	(e 8 39)	SS	12·2	—
Sverdlovsk	23·2	319	i 5 8	+ 5	i 9 18	+10	11·8	—
Nanking	25·5	105	—	—	e 10 18	+28	e 16·3	—
Baku	29·4	280	(e 7 45?)	?	—	—	e 7·8	—
Tiflis	32·6	282	e 6 37	+ 9	e 13 19	SS	e 16·6	—
Moscow	35·4	310	e 6 47	- 6	—	—	—	21·8
Pulkovo	39·2	317	e 7 25	0	e 13 22	- 2	17·8	22·2
Ksara	42·2	276	6 45?	-65	—	—	—	—
Copenhagen	49·3	314	—	—	15 57	+ 6	22·8	—

Additional readings:—

Andijan e = +5m.57s.

Chiufeng ePZ = +8m.46s., SNZ = +11m.5s., iN = +11m.13s., iEZ = +11m.20s.

Nanking eS = +13m.54s.

Moscow e = +14m.57s., +17m.56s., and +18m.28s.

Ksara +11m.45s.?

Long waves were also recorded at Vladivostok, Piatigorsk, Grozny, Prague, Hamburg, De Bilt, Cheb, and Stuttgart.

May 19d. 20h. 50m. 16s. Epicentre 9°·0S. 124°·0E. N.2.

A = -·5523, B = +·8188, C = -·1564; $\delta = -7$;
D = +·829, E = +·559; G = +·087, H = -·130, K = -·988.

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.	m.
Malabar	-0·5	16·3	275	i 3 40	+ 1	i 6 43	+ 9	—	—
Batavia	-0·5	17·3	278	i 3 50	- 2	i 7 6	SS	—	—
Palau	-0·6	19·4	33	4 20	+ 4	7 55	SS	—	—
Manila	-0·8	23·8	352	i 4 58 _a	- 3	i 9 13	+ 8	—	—
Perth	-0·8	24·2	198	5 9	+ 4	9 14	+ 2	11·7	—
Medan	-0·9	28·2	297	i 5 41	0	i 10 34	+14	—	—
Adelaide	-1·0	29·2	156	i 5 47	- 2	i 10 59	+24	i 16·7	18·6
Kosyun	-1·0	31·2	355	6 7	0	11 5	- 2	—	—
Taito	-1·1	31·9	355	6 19	+ 7	—	—	—	—
Hong Kong	-1·1	32·8	343	6 21	+ 1	11 26	-·5	—	16·7
Phu-Lien	-1·2	34·3	331	e 6 33	0	e 11 50	- 2	—	—
Melbourne	-1·2	34·5	150	e 7 6	+32	i 12 31	+36	17·2	21·9
Riverview	-1·2	35·2	140	i 6 42	+ 2	i 12 11	+ 5	—	24·2
Sydney	-1·2	35·2	140	e 6 8	-32	—	—	19·6	20·5
Titizima	-1·3	40·2	26	—	—	13 15	- 5	—	—
Zi-ka-wei	z. -1·3	40·3	357	e 7 22	- 2	e 16 14	SSS	—	—
Nanking	-1·3	41·4	354	i 7 33	0	i 13 40	+ 2	—	—
Wakayama	-1·4	44·5	14	7 58	0	14 25	+·3	—	—
Kobe	-1·4	45·0	13	e 8 2	0	14 31	+·1	—	—
Kameyama	-1·4	45·4	15	8 6	+ 1	14 36	0	—	—
Nagoya	-1·4	45·8	15	8 10	+ 2	14 39	- 2	—	—
Ibukisan	-1·4	45·9	15	—	—	14 44	+ 1	—	—
Misima	-1·4	46·3	18	8 13	+ 1	—	—	—	—
Kobu	-1·4	46·7	17	8 14	- 1	15 5	+10	—	—
Colombo	-1·4	46·8	288	7 19	-57	—	—	—	—

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.			
Calcutta	E. -1.4	47.0	313	8	18	0	15	2	+3	—	—
Toyama	-1.4	47.3	14	8	22	+2	—	—	—	—	—
Husiki	-1.4	47.4	14	—	—	—	15	10	+6	—	—
Oiwake	-1.4	47.4	17	8	19	-2	14	59	-5	—	—
Tyosi	-1.4	47.5	20	8	29	+8	—	—	—	—	—
Nagano	-1.5	47.6	16	8	23	+2	15	5	-1	—	—
Maebasi	-1.5	47.6	17	8	24	+3	15	4	-2	—	—
Kakioka	-1.5	47.7	18	8	18	-4	15	8	+1	—	—
Mito	-1.5	48.0	18	—	—	—	14	44	-28	—	—
Niigata	-1.5	49.0	16	—	—	—	15	31	+5	—	—
Hokusima	-1.5	49.2	18	8	35	+1	15	31	+2	—	—
Chiufeng	-1.5	49.6	353	i 8	34a	-3	15	32	-2	—	—
Yamagata	-1.5	49.7	18	—	—	—	15	40	+4	—	—
Kodaikanal	E. -1.5	50.1	292	e 6	58	?	—	—	—	—	—
Mizusawa	-1.5	50.7	18	e 8	36	-9	15	48	-2	—	—
Hyderabad	-1.5	52.2	301	e 8	53	-4	20	53	SSS	41.8	60.8
Vladivostok	-1.6	52.6	8	e 8	59	0	e 16	18	+3	—	—
Sapporo	-1.7	54.4	16	—	—	—	16	33	-5	—	—
Christchurch	-1.7	54.5	138	i 8	58	-14	16	46	+7	—	—
Wellington	-1.7	55.1	135	8	44?	-33	i 16	54	+7	e 25.7	37.7
Agra	E. -1.7	57.4	311	9	28	-6	i 17	13	-6	—	—
Bombay	-1.8	57.7	299	e 9	33	-2	17	23	+2	—	—
Frunse	-2.0	68.6	323	e 10	48	-1	e 19	41	+1	—	—
Andijan	-2.0	68.8	321	e 10	48	-3	e 19	42	0	—	—
Sempalatinsk	-2.0	70.5	333	e 11	0	-1	—	—	—	—	—
Tashkent	-2.0	71.0	319	i 11	2	-3	i 20	8	-1	e 33.8	—
Tchimbkent	-2.0	71.3	321	e 11	4	-2	e 20	15	+2	—	—
Samarkand	-2.0	71.7	317	e 11	6	-3	e 20	14	-4	—	—
Sverdlovsk	-2.1	83.6	331	i 12	18	+2	i 22	27	-5	36.7	—
Baku	-2.1	84.0	313	e 12	23	+5	e 22	36	0	44.7	55.9
Grozny	-2.1	87.8	314	e 12	38	+1	23	10	-5	—	—
Erevan	-2.1	87.9	312	e 12	44	+7	—	—	—	—	—
Tiflis	-2.1	88.0	313	i 12	36	-2	i 22	55	[-25]	43.7	—
Piatigorsk	-2.1	89.8	315	e 12	43	-3	i 23	9	[-22]	—	—
Sotchi	-2.1	92.1	314	e 12	50	-7	—	—	—	—	—
Ksara	-2.2	93.4	303	i 13	0	-3	23	28	[-24]	44.1	—
Moscow	-2.2	95.4	325	e 13	8	-4	e 24	10	[-8]	—	—
Yalta	-2.2	96.2	313	i 17	9	PP	e 23	39	[-28]	—	—
Simferopol	-2.2	96.3	314	e 17	8	PP	e 23	32	[-36]	—	—
Sebastopol	-2.2	96.6	314	e 17	12	PP	—	—	—	—	—
Helwan	-2.2	96.8	298	—	—	—	e 23	44	[-26]	—	—
Pulkovo	-2.2	99.6	329	13	26	-6	e 23	57	[-26]	—	—
Upsala	E. —	106.0	330	18	18	PP	—	—	—	—	—
Vienna	—	108.4	317	e 18	21	PP	—	—	—	—	—
Prague	—	109.4	320	e 18	44	PP	e 28	19	PS	e 50.5	—
Copenhagen	—	109.5	326	18	43	PP	24	46	[-25]	—	—
Triest	—	110.5	315	e 18	33	PP	i 26	24	?	—	—
Cheb	—	110.7	320	e 18	55	PP	e 24	48	[-28]	e 50.7	—
Hamburg	—	111.4	324	e 18	47	PP	—	—	—	—	—
Bergen	—	111.7	332	e 19	6	PP	e 25	44	?	e 51.5	—
Florence	—	112.6	313	19	14	PP	28	44	PS	—	—
Stuttgart	—	113.0	319	18	48	PP	e 28	44	PS	—	—
Chur	—	113.2	318	e 18	22	[-6]	—	—	—	—	—
Strasbourg	—	114.0	319	e 19	7	PP	e 28	44?	PS	e 49.7	—
De Bilt	—	114.6	324	e 19	24	PP	e 27	2	?	—	—
Scoresby Sund	—	114.9	348	19	26	PP	25	9	[-24]	—	—
Uccle	—	115.5	322	e 19	31	PP	e 29	18	PS	e 54.7	—
Paris	—	117.2	320	e 19	44?	PP	—	—	—	64.7	—
Tinemaha	z. —	117.4	53	i 18	33	[-6]	—	—	—	—	—
Edinburgh	—	117.6	329	e 19	44?	PP	e 29	56	?	e 59.7	—
Haiwee	z. —	117.8	54	i 18	30	[-10]	—	—	—	—	—
Kew	—	118.0	324	—	—	—	e 27	27	?	e 57.7	—
Pasadena	—	118.0	57	i 18	34	[-7]	e 25	22	[-22]	e 54.7	—
Mount Wilson	z. —	118.1	57	i 18	34	[-7]	e 25	17	[-27]	—	—
Oxford	—	118.4	325	e 19	21	PP	e 27	30	?	e 60.7	—

Continued on next page.

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		Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverside	Z.	—	118.7	56	i 18 35	[- 7]	—	—	—	—
La Jolla	Z.	—	118.9	57	e 18 35	[- 8]	—	—	—	—
Tucson		—	124.4	57	—	—	(e 39 56)	?	e 39.9	—
San Fernando		—	127.3	309	—	—	e 30 44	SKSP	—	—
Florissant		—	137.2	40	e 22 36	PP	e 35 37	?	e 62.3	—
Little Rock		—	137.9	47	e 22 26	PP	—	—	—	—
Ottawa		—	139.8	21	—	—	e 40 44?	SS	e 66.7	—
Toronto	N.	—	139.8	27	—	—	e 40 22	SS	—	—
Philadelphia		—	144.6	26	—	—	e 35 11	—	—	—
Rio de Janeiro		—	145.8	202	—	—	e 39 44?	SS	—	—
Huancayo		—	151.5	136	e 19 2	[- 41]	e 43 52	SS	e 77.0	—
La Paz		—	151.8	155	i 19 43k	[- 1]	i 30 7	{-26}	76.7	123.4

Additional readings:—

Perth PP = +5m.44s., PPP = +5m.54s., SS = +9m.59s.
 Medan iSE = +12m.1s.
 Adelaide i = +6m.42s., +6m.55s., +7m.5s., +11m.36s., +12m.49s., +13m.30s.,
 and +14m.16s.
 Hong Kong PP? = +6m.49s.
 Melbourne i = +13m.57s., SSSS = +14m.14s.
 Riverview i = +8m.3s., iN = +14m.21s., iE = +14m.42s.
 Nanking i = +17m.13s.
 Chiufeng iScS = +18m.14s.
 Mizusawa iSE = +15m.53s.
 Vladivostok e = +18m.36s.
 Christchurch ipP = +9m.16s., isS = +17m.18s.
 Agra ePPE = +11m.33s., PSE = +17m.43s., SSSE = +22m.46s.
 Tiflis ePcP = +12m.59s., ePP = +16m.2s., e = +23m.12s.
 Ksara PP = +16m.48s., PS = +25m.32s., PPS = +26m.8s., PKKP = +29m.50s.,
 SS = +31m.4s.
 Moscow PP = +17m.11s., SKS = +23m.35s.
 Yalta eS = +26m.24s.
 Pulkovo PP = +17m.30s., PPP = +20m.18s., S = +24m.46s., PPS = +26m.40s.
 Copenhagen e = +18m.52s., SKKS = +25m.41s., SN = +26m.16s., PS =
 +27m.44s., SS = +34m.2s., SSS = +37m.56s.
 Trieste e = +28m.14s.
 Bergen e = +28m.44s.
 Stuttgart PKP₂ = +19m.16s., ePP = +21m.16s., eN = +26m.44s.
 Strasbourg ePS = +29m.44s.?
 De Bilt eZ = +28m.50s., eE = +29m.2s.
 Scoresby Sund +28m.56s.
 Pasadena iEZ = +19m.39s.
 Mount Wilson ePKKPZ = +28m.53s.
 Riverside ePKKPZ = +28m.54s.
 Little Rock eN = +26m.45s. and +45m.41s.
 Philadelphia eSS = +40m.44s.
 Huancayo eSS = +42m.44s.
 La Paz iPKP₂Z = +20m.24s., SSN = +43m.44s., SSSN = +49m.7s.

May 19d. 21h. 17m. 37s. Epicentre 0°·4N. 98°·0E. X.
 (as on 1934 Aug. 21d., but see shock at 21h. 30m. 34s.).

A = -·1392, B = +·9902, C = +·0070; $\delta = -8$;
 D = +·990, E = +·139; G = -·001, H = +·007, K = -1·000.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Medan		3.3	13	i 0 12	-35	11 20	- 5	—	—
Batavia	Z.	11.0	127	2 11	-24	—	—	—	—
Malabar		12.2	129	e 2 44	- 7	—	—	—	—
Phu-Lien		22.1	22	e 4 57	+ 5	e 9 26	SS	—	—
Kodaikanal	E.	22.7	297	e 5 20	PP	e 9 23	SS	11.4	—
Manila		26.8	57	5 33	- 3	9 52	-20	—	12.9
Hong Kong		27.0	35	6 30	+52	10 12	- 3	—	—
Agra	E.	32.9	326	—	—	i 14 52	?	—	—
Zi-ka-wei		38.0	34	e 7 4	-11	—	—	23.7	26.0
Chiufeng		43.0	20	i 7 56a	- 1	14 37	+16	—	31.6

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.
Tashkent	45.6	331	e 8 29	+11	i 15 49	+50	—	—
Andijan	46.6	333	e 7 23	-62	—	—	—	—
Frunse	47.4	337	e 7 34	-58	e 16 1	+37	—	—
Semipalatinsk	52.3	346	e 8 28	-41	—	—	—	—
Tiflis	63.1	318	e 9 28	-58	e 17 57	-61	e 36.4	—
Sverdlovsk	63.8	340	e 9 31	-60	19 14	+ 9	—	—
Ksara	66.9	306	e 10 52	+ 1	e 19 54	+11	—	—
Moscow	73.5	329	e 11 39	+ 7	—	—	—	—
Pulkovo	78.6	333	e 12 10	+10	e 22 0	0	—	—
Prague	85.6	320	—	—	e 23 11	- 3	—	59.4
Triest	85.7	316	—	—	e 21 46	?	—	—
Copenhagen	87.1	327	—	—	23 23	- 5	—	—
Philadelphia	139.2	352	—	—	e 29 8	{-11}	—	—

Additional readings:—

Medan iEN = +2m.30s.

Tashkent e = +9m.16s., e = +9m.44s.

Tiflis eSKS = +19m.5s.

Sverdlovsk i = +10m.36s., e = +14m.36s.

Moscow e = +10m.34s.

Long waves were also recorded at Calcutta, Nanking, Zinsen, Melbourne, College, De Bilt, and Stuttgart.

May 19d. 21h. 30m. 34s. Epicentre 0°·4N. 98°·0E. (as at 21m. 17m.). R.2.

A = -·1392, B = +·9902, C = +·0070; $\delta = -8$;
D = +·990, E = +·139; G = -·001, H = +·007, K = -1·000.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Medan	3.3	13	i 1 9	P _g	—	—	—	—
Batavia	11.0	127	—	—	i 5 49	S _g	—	—
Malabar	12.2	129	e 2 31	-20	—	—	—	—
Phu-Lien	22.1	22	e 7 5	?	e 12 26	?	—	—
Kodaikanal	E. 22.7	297	i 5 16	PP	i 9 25	SS	11.5	14.8
Agra	E. 32.9	326	—	—	e 13 15	SS	—	—
Zi-ka-wei	38.0	34	i 7 16	+ 1	—	—	e 19.4	26.0
Chiufeng	43.0	20	i 7 56 _a	- 1	—	—	—	31.0
Tashkent	45.6	331	—	—	i 15 48	+49	—	32.9
Adelaide	51.8	138	e 9 26 _f	+21	e 17 1	+36	—	31.1
Vladivostok	52.4	32	—	—	(i 16 20)	-14	i 16.3	23.1
Erevan	62.7	316	e 10 32	+ 9	—	—	—	—
Tiflis	63.1	318	e 10 26	0	i 19 2	+ 6	—	—
Grozny	63.3	320	e 10 30	+ 3	—	—	—	—
Sverdlovsk	63.8	340	i 10 35	+ 4	19 15	+10	—	38.0
Piatigorsk	65.9	320	e 10 44	- 1	—	—	—	—
Ksara	66.9	306	i 10 50	- 1	19 55	+12	31.4	—
Sotchi	67.3	311	e 10 56	+ 2	—	—	—	—
Yalta	71.3	317	—	—	e 19 45	-52	—	—
Simferopol	72.2	318	—	—	e 20 40	- 7	—	—
Moscow	73.5	329	—	—	e 21 0	- 3	e 29.9	46.3
Pulkovo	78.6	333	e 12 2	+ 2	e 21 54	- 6	35.4	37.9
Cape Town	81.6	237	e 14 8	?	—	—	28.3	45.5
Vienna	84.1	318	e 12 31	+ 2	e 22 57	- 2	—	—
Prague	85.6	320	—	—	e 23 20	+ 6	—	62.4
Triest	85.7	316	—	—	i 23 8	[+ 4]	e 33.2	39.9
Cheb	86.9	329	—	—	e 22 26 _?	[-47]	—	61.4
Copenhagen	87.1	327	12 45	+ 1	23 26	- 2	—	—
Ohur	88.7	318	e 12 50	- 1	e 23 37	- 7	—	—
Stuttgart	88.8	319	e 12 51	- 1	—	—	—	—
Zurich	89.3	318	e 12 53	- 1	—	—	—	—
Tinamah	Z. 129.7	38	i 22 23	PKS	—	—	—	—
Pasadena	Z. 131.6	41	i 19 6	[- 4]	—	—	—	—
Mount Wilson	Z. 131.7	41	e 19 3	[- 7]	—	—	—	—
Riverside	Z. 132.2	41	e 19 5	[- 5]	—	—	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Vermont	134.4	351	—	—	e 27 36	[+64]	—	—
Philadelphia	139.2	352	—	—	e 28 6	?	e 62.9	—
Little Rock	143.5	15	i 19 27	[- 2]	—	—	—	—

Additional readings:—

Medan iE = +1m.27s., iN = +1m.38s., +2m.6s., +2m.28s. and +2m.52s.

Agra iE = +14m.50s.

Adelaide i = +18m.2s.

Ksara PS = +20m.29s.

Pasadena eZ = +21m.26s., i = +22m.44s.

Mount Wilson eZ = +21m.25s., +22m.44s.

Philadelphia e = +40m.56s.

Little Rock i = +19m.35s.

Long waves were also recorded at Hong Kong, Melbourne, Samarkand, Andijan, Nanking, Colombo, Sitka, Ivigtut, Oak Ridge, Hamburg, and San Fernando.

May 19d. Readings also at 0h. (Hong Kong (2), Chiufeng, Phu-Lien, Nanking, Irkutsk, Sverdlovsk, Tashkent, Pulkovo, Copenhagen, Tananarive, and near Mizusawa), 2h. (Batavia), 3h. (Apia and near Trieste), 4h. (Phu-Lien), 5h. (Ksara and Phu-Lien), 6h. (La Paz), 9h. (Stuttgart and Trieste), 10h. (Hong Kong, Phu-Lien, Nanking, Chiufeng, Irkutsk, Vladivostok, and Tashkent), 12h. (near Balboa Heights), 13h. (La Plata), 16h. (Tiflis and Copenhagen), 17h. (Sebastopol, Simferopol, Yalta, and San Juan), 18h. (Frunse), 19h. (near Trieste), 21h. (Mount Wilson, Pasadena, Riverside, and Tinemaha), 23h. (Stuttgart).

May 20d. 0h. 16m. 8s. Epicentre $13^{\circ}4N$. $121^{\circ}5E$. (as on 1931 May 29d.). X.

$$A = -.5083, B = +.8294, C = +.2317; \quad \delta = -4;$$

$$D = +.853, E = +.522; \quad G = -.121, H = +.198, K = -.973.$$

Depth of focus 0.025 is assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Manila	+0.6	1.3	337	i 0 28a	0	i 0 50	+ 1	—	—
Hong Kong	-0.4	11.3	323	2 26k	- 7	4 25	-11	—	6.0
Zi-ka-wei	z. -0.8	17.8	0	3 55	+ 1	7 9	+ 7	—	—
Nanking	-0.9	18.8	353	i 4 6	+ 1	i 7 26	+ 4	—	—
Batavia	-1.3	24.4	217	i 5 5a	+ 3	9 14	+ 7	—	—
Chiufeng	-1.5	27.1	352	e 5 52	PP	9 44	- 7	—	—
Agra	e. -2.2	42.8	296	e 9 47	?	e 13 41	- 4	—	—
Frunse	-2.6	49.8	316	e 8 38	+ 8	—	—	—	—
Tashkent	-2.8	53.1	314	9 9	+15	i 16 8	+ 3	e 26.0	30.8
Sverdlovsk	-3.1	63.0	328	i 10 12	+ 8	18 25	+10	28.9	—
Grozny	-3.2	70.5	312	e 10 55	+ 1	—	—	—	—
Tiflis	-3.2	71.2	310	e 10 49	- 9	e 19 59	+ 2	e 33.9	42.8
Erevan	-3.2	71.5	309	e 11 0	0	—	—	—	—
Piatigorsk	-3.2	72.4	313	e 11 8	+ 2	—	—	—	—
Moscow	-3.3	75.5	325	—	—	i 20 43	- 4	e 38.6	42.4
Yalta	-3.3	78.7	314	e 12 8	+25	e 21 24	- 1	—	—
Simferopol	-3.3	78.8	315	e 11 41	- 2	e 21 18	- 8	—	—
Ksara	-3.3	79.0	302	i 11 44a	0	21 29	+ 1	—	—
Pulkovo	-3.3	79.0	330	11 39	- 5	21 21	- 7	36.9	46.9
Copenhagen	-3.5	89.2	329	—	—	23 7	- 8	43.9	—
Scoresby Sund	-3.5	92.4	350	—	—	23 10	[-37]	—	—
Triest	-3.5	92.4	319	e 13 31	+39	i 22 58	[-49]	—	45.9

Additional readings:—

Zi-ka-wei iZ = +4m.47s.

Chiufeng iN = +11m.33s.

Tiflis e = +24m.24s.

Ksara ipP = +12m.24s., esS = +12m.41s.

Copenhagen +24m.7s.

Triest i = +23m.35s.

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

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May 20d. 3h. 5m. 16s. Epicentre 9°·5S. 160°·8E. (as on 1936 April 28d.). R.1.

$$A = -.9314, B = +.3244, C = -.1650; \quad \delta = -4;$$

$$D = +.329, E = +.944; \quad G = +.156, H = -.054, K = -.986.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	25.9	199	i 5 30	+ 2	i 9 53	- 4	—	14.8
Sydney	25.9	199	e 5 20	- 8	e 9 56	- 1	14.3	15.7
Palau	31.2	301	6 20	+ 4	—	—	—	—
Arapuni	31.6	158	—	—	11 34	+ 5	13.7	16.7
Melbourne	31.7	205	6 25	+ 5	11 23	- 8	13.2	17.7
New Plymouth	31.9	160	6 35?	+13	11 47	+13	15.0	—
Adelaide	32.5	216	i 6 26	- 1	i 11 27	-16	i 14.2	18.5
Wellington	34.1	163	6 43	+ 2	12 9	+ 1	15.7	21.7
Christchurch	35.6	166	i 7 0	+ 6	i 12 34	+ 4	—	—
Manila	46.3	301	i 8 16k	- 7	i 14 57	-12	—	—
Perth	47.2	235	9 15	+45	15 9	-12	20.4	23.7
Nake	48.5	323	9 4	+24	—	—	—	—
Omaesaki	49.0	337	8 28	-16	—	—	—	—
Tyosi	49.0	339	8 52	+ 8	—	—	—	—
Siomisaki	49.1	333	8 48	+ 4	—	—	—	—
Misima	49.2	337	8 45	0	15 53	+ 3	—	—
Numadu	49.2	337	8 51	+ 6	—	—	—	—
Hamamatu	49.3	337	8 39	- 7	—	—	—	—
Tokyo	49.4	338	8 29	-18	—	—	—	—
Hunatu	49.6	337	8 40	- 8	15 50	- 5	—	—
Kakioka	49.7	338	8 39	-10	15 51	- 6	—	—
Tukubasan	49.7	338	8 46	- 3	—	—	—	—
Kohu	49.8	337	8 54	+ 4	—	—	—	—
Kumagaya	49.9	338	8 57	+ 6	—	—	—	—
Simidu	49.9	329	8 23	-28	—	—	—	—
Kameyama	50.0	334	8 51	0	—	—	—	—
Miyazaki	50.0	327	8 52	+ 1	—	—	—	—
Nagoya	50.0	336	e 8 52	+ 1	e 16 1	0	22.2	—
Wakayama	50.1	333	8 55	+ 3	—	—	—	—
Maebasi	50.2	338	8 59	+ 6	—	—	—	—
Osaka	50.2	333	8 38	-15	—	—	—	—
Sumoto	50.2	333	e 8 49	- 4	16. 0	- 4	21.8	26.6
Gihu	50.3	336	8 53	- 1	16 2	- 3	—	—
Koti	50.3	330	8 48	- 6	16 4	- 1	—	—
Kosyun	50.3	310	9 12	+18	—	—	—	—
Hikone	50.4	335	8 59	+ 5	—	—	—	—
Kobe	50.4	333	e 8 41	-13	e 15 20	-46	e 21.4	27.1
Oiwake	50.4	337	9 1	+ 7	16 5	- 1	—	—
Ibukisan,	50.5	336	9 6	+11	—	—	—	—
Taito	50.5	310	8 24	-31	—	—	—	—
Nagano	50.8	338	8 57	0	—	—	—	—
Hokusima	50.9	340	9 37	-21	—	—	—	—
Karenko	50.9	312	8 49	- 9	—	—	—	—
Honolulu	51.0	53	e 8 54	- 5	i 16 21	+ 6	i 21.7	—
Sendai	51.2	341	9 8	+ 8	—	—	—	—
Toyama	51.2	337	9 11	+11	—	—	—	—
Toyooka	51.3	334	8 59	- 2	16 14	- 5	e 23.0	27.8
Unzendake	51.3	327	9 5	+ 4	—	—	—	—
Nagasaki	51.5	327	9 3	0	16 19	- 8	—	—
Hukuoka	51.8	329	e 9 3	- 2	e 16 17	- 8	—	—
Hukuoka B	51.8	329	e 9 3	- 2	16 25	0	e 24.9	—
Mizusawa	E. 51.9	342	e 9 8	+ 2	16 32	+ 5	22.3	—
	N. 51.9	342	8 58	- 8	16 25	- 2	21.6	—
Tomie	52.0	326	9 7	+ 1	—	—	—	—
Hamada	52.1	330	9 4	- 3	—	—	—	—
Malabar	52.6	268	i 9 6	- 5	16 23	-14	—	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Batavia	53.5	270	i 9 9	- 9	e 19 2	(- 6)	e 25.7	—
Husan	53.8	328	e 9 20	0	e 16 51	- 2	22.6	—
Taikyu	54.6	328	—	—	e 16 58	- 6	e 22.8	—
Zi-ka-wei	55.5	320	i 9 29 ^a	- 3	17 7	- 9	27.5	33.4
Sapporo	55.5	343	9 37	+ 5	17 18	+ 2	—	—
Hong Kong	55.7	307	9 33 ^a	- 1	17 4	-15	24.9	28.6
Keizyo	56.7	328	e 9 41	0	e 17 31	- 1	—	—
Zinsen	56.8	327	e 9 42	0	e 17 23	-11	—	—
Nanking	57.8	317	i 9 46	- 3	i 17 44	- 3	i 27.7	32.6
Vladivostok	58.8	336	e 9 55	- 1	e 14 53	?	e 25.7	29.6
Medan	63.2	280	e 10 22	- 5	18 48	- 9	e 36.7	—
Chiufeng	64.5	324	—	—	i 26 24	?	—	34.1
Calcutta	77.8	296	e 11 52	- 5	21 22	-30	—	43.9
Irkutsk	78.3	329	e 11 52	- 7	e 21 44	-13	32.7	41.6
Colombo	82.2	278	12 18	- 1	22 23	-16	40.2	56.4
College	83.6	20	e 11 26	-60	e 21 48	-65	e 34.0	—
Sitka	84.3	29	e 12 30	0	e 23 1	0	e 35.0	—
Ukiah	85.3	50	e 12 37	+ 2	23 10	- 1	—	—
Kodaikanal	85.3	282	i 12 37	+ 2	i 22 54	[- 7]	39.7	—
Berkeley	85.6	50	e 12 41	+ 5	e 23 13	- 1	e 41.0	—
Hyderabad	85.7	288	12 42	+ 5	22 49	[-15]	38.7	54.2
Lick	86.0	51	e 12 44	+ 6	—	—	—	—
Santa Barbara	86.8	55	e 12 46	+ 4	—	—	—	—
Fresno	87.2	53	e 13 1	+17	e 23 47	+18	—	—
Victoria	87.9	40	e 12 55	+ 8	i 23 42	+ 6	e 42.1	—
Agra	88.0	298	12 41	- 7	i 22 59	[-21]	39.9	—
Pasadena	88.0	55	e 12 49	+ 1	e 23 19	[- 1]	e 39.0	—
Mount Wilson	88.1	55	i 12 50	+ 2	e 23 45	+ 7	—	—
Seattle	88.4	41	—	—	e 23 16	[- 7]	e 36.5	—
La Jolla	88.5	57	i 12 56	+ 6	e 23 27	[+ 4]	—	—
Haiwee	88.6	53	i 12 54	+ 3	e 23 26	[+ 2]	—	—
Riverside	88.6	55	i 12 52	+ 1	e 23 25	[+ 1]	—	—
Tinemaha	88.6	53	i 12 53	+ 2	e 23 35	- 8	—	—
Bombay	91.2	289	e 12 59	- 4	23 37	[- 3]	44.7	62.3
Semipalatinsk	91.4	321	e 13 6	+ 2	e 23 16	[-25]	e 48.7	—
Almata	92.1	314	e 14 44	+97	—	—	—	—
Frunse	93.7	313	e 13 16	+ 2	e 23 44	[-10]	e 48.7	—
Tucson	93.7	58	e 13 28	+14	e 24 43	+13	e 40.4	—
Andijan	95.0	311	e 13 21	+ 1	e 24 30	{+15}	e 41.8	—
Bozeman	95.5	44	—	—	24 12	[+ 9]	e 42.0	—
Tashkent	97.4	312	e 13 27	- 5	24 53	-11	e 37.8	56.3
Tacubaya	102.5	72	e 18 19 [?]	PP	—	—	—	—
Sverdlovsk	103.5	327	i 14 3	+ 3	i 25 42	-15	43.7	61.3
Tananarive	108.4	245	—	—	24 25	[-41]	40.7	57.9
Little Rock	109.2	57	e 19 6	PP	e 25 14	[+ 4]	e 50.2	55.8
Florissant	110.6	51	i 14 40 ^k	+ 7	i 25 12	[- 4]	e 48.0	64.0
St. Louis	110.7	51	e 18 20	[0]	e 25 14	[- 2]	e 50.6	57.5
Baku	112.0	310	e 14 31	- 9	e 25 12	[-10]	52.7	71.0
Chicago	112.4	47	e 19 24	PP	e 26 20	{- 4}	e 47.1	—
Grozny	114.6	313	e 18 53	[+21]	—	—	54.4	—
Cincinnati	115.1	51	e 15 1	+ 5	—	—	—	—
Ann Arbor	115.2	46	—	—	e 26 50	{+ 7}	e 52.3	63.7
Tiflis	115.6	312	e 14 52	- 6	25 32	[- 4]	59.7	71.9
Erevan	116.1	310	e 18 52	[+17]	—	—	56.7	—
Moscow	116.1	328	19 44	PP	e 27 30	{+40}	e 55.2	66.3
Platigorsk	116.4	315	e 19 34	PP	—	—	60.7	—
Toronto	117.0	44	e 15 13	+ 8	25 44	[+ 3]	56.0	65.7
Pulkovo	117.7	334	e 15 4	- 4	25 38	[- 5]	52.7	64.7
Buffalo	118.6	47	e 15 12	0	—	—	—	—
Columbia	118.6	56	e 20 8	PP	e 25 52	[+ 6]	e 47.7	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Scoresby Sund	119.0	2	15 20	+ 6	25 56	[+ 9]	48.7	—
Charlottesville	119.9	52	e 21 18	PPP	e 25 59	[+ 9]	63.0	—
Ottawa	120.0	41	e 20 16	PP	e 25 54	[+ 4]	e 51.7	—
Huancayo	120.2	109	e 18 54	[+ 8]	—	—	e 57.2	—
Ithaca	120.3	46	e 20 2	PP	—	—	e 64.7	—
Georgetown	120.8	50	e 15 26	+ 4	i 25 59	[+ 6]	—	—
Philadelphia	122.0	48	e 19 50	PP	e 25 56	[0]	54.5	—
Vermont	122.0	43	e 20 30	PP	e 26 1	[+ 5]	e 51.2	—
Yalta	122.4	317	—	—	e 30 26	PS	e 60.8	—
La Plata	122.5	142	20 43	PP	—	—	61.0	—
Fordham	122.6	48	i 20 35	PP	i 25 59	[+ 1]	—	—
Upsala	122.7	339	—	—	e 25 55	[- 3]	e 50.7	65.9
Sebastopol	122.8	318	—	—	e 30 25	PS	e 64.7	—
Oak Ridge	123.7	44	i 18 57	[+ 3]	26 10	[+ 9]	e 63.7	—
Cape Town	123.8	217	i 26 5	SKS	(i 26 5)	[+ 3]	56.7	66.7
Ivigtut	124.1	16	23 26	PPP	27 2	{-42}	50.7	—
Ksara	124.1	304	e 15 32	P	25 47	[-15]	—	—
Königsberg	N. 124.9	333	e 20 27	PP	e 25 50	[-15]	e 60.6	—
La Paz	125.0	117	15 51	P	i 25 50	[-15]	59.7	74.8
East Machias	125.7	41	i 20 58	PP	—	—	e 53.0	—
Bergen	125.9	346	19 4	[+ 5]	e 27 51	{- 4}	51.5	65.7
Copenhagen	127.6	337	19 2	[0]	—	—	54.7	—
Bucharest	127.7	320	e 21 22	PP	—	—	32.7	42.7
Helwan	128.7	300	e 21 2	PP	—	—	—	—
Hamburg	130.1	337	e 19 8	[+ 1]	—	—	e 58.7	65.7
Budapest	130.2	326	19 10	[+ 3]	e 22 44?	PKS	e 66.2	77.2
Prague	130.8	332	e 19 38?	[+29]	—	—	e 58.7	64.7
Belgrade	130.9	322	e 18 12k	[-57]	—	—	e 65.9	—
Vienna	131.0	330	e 19 12	[+ 3]	—	—	e 64.7	—
Jena	131.5	334	e 19 38	[+28]	—	—	e 59.7	76.2
Cheb	131.7	333	e 19 56	[+46]	e 39 8	SS	e 63.7	66.7
Göttingen	131.7	337	e 19 20	[+10]	—	—	—	75.2
Edinburgh	131.9	348	e 21 54	PP	—	—	54.7	89.7
Graz	132.3	328	e 19 18	[+ 7]	e 31 54	PS	e 66.7	75.0
Durham	132.6	346	i 22 49	PKS	—	—	—	70.7
Zagreb	132.9	326	e 19 13	[+ 1]	—	—	e 60.7	64.7
De Bilt	133.0	339	e 19 16	[+ 4]	—	—	e 59.7	83.8
Stonyhurst	133.6	345	e 22 2	PP	i 39 42	SS	64.7	75.7
San Juan	133.7	73	e 19 14	[+ 1]	e 28 32	{-13}	e 50.2	—
Stuttgart	134.1	334	e 19 14	[+ 1]	—	—	e 62.7	79.7
Triest	134.1	328	e 19 21	[+ 8]	i 26 28	[- 3]	e 65.2	68.0
Bidston	134.2	347	e 21 49	PP	—	—	—	72.0
Karlsruhe	134.3	335	19 11	[- 3]	22 44?	PKS	63.7	—
Uccle	134.4	339	e 19 17	[+ 3]	—	—	58.7	75.6
Strasbourg	134.9	335	e 19 10	[- 5]	—	—	e 61.7	86.2
Rathfarnham	135.0	350	e 22 59	PKS	e 29 56	{+63}	65.7	74.9
Kew	135.3	343	e 21 57	PP	e 30 13	?	53.7	67.8
Oxford	135.3	344	e 19 39	[+24]	—	—	e 59.7	75.1
Padova	135.3	329	e 19 55	[+40]	24 13	?	—	—
Chur	135.5	332	e 19 13	[- 2]	—	—	—	—
Zurich	135.5	332	e 19 15	[0]	e 22 15	PP	—	—
Neuchatel	136.5	332	e 19 19	[+ 2]	—	—	—	—
Florence	136.7	327	e 19 33	[+16]	i 22 14	PP	—	—
Paris	136.7	340	e 19 44?	[+27]	22 44?	PP	64.7	77.7
Río de Janeiro	140.0	144	e 19 22	[+ 1]	—	—	i 41.1	—
Barcelona	142.9	333	e 23 4	PKS	—	—	—	79.8
Tortosa	N. 144.1	334	18 52	[-39]	—	—	e 59.7	103.8
Algiers	146.1	325	i 19 37	[+ 1]	e 33 44?	SKSP	e 54.7	74.7
Almeria	148.7	334	e 19 57	[+17]	—	—	e 61.6	—
Granada	148.9	336	i 19 46	[+ 6]	26 42	SKS	—	—
Malaga	149.7	336	19 56	[+15]	—	—	70.7	—
San Fernando	150.6	338	e 19 56	[+13]	—	—	70.7	88.9

For Notes see next page.

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NOTES TO MAY 20d. 3h. 5m. 16s.

Additional readings:—

Riverview iEN = +5m.36s., iE = +5m.45s., iEN = +6m.1s. and +6m.28s.,
 iE = +10m.0s., iN = +10m.7s.
 Adelaide iPP = +7m.16s., i = +7m.45s. and +13m.34s.
 Wellington PP = +8m.2s., SS? = +14m.54s.
 Christchurch iSNZ = +12m.38s.
 Perth PP = +10m.29s., P_cS = +15m.24s., SS = +17m.34s., SSS = +18m.34s.
 Sumoto ePN = +8m.54s.
 Kobe ePE = +8m.48s., eE = +18m.49s.
 Honolulu i = +9m.11s., iPP = +11m.34s.
 Toyooka PN = +9m.5s., ePE = +9m.7s.
 Zi-ka-wei iZ = +10m.11s. and +10m.35s., PPZ = +11m.49s., PPPZ = +12m.55s.,
 PPPZ = +13m.35s., iZ = +20m.27s.
 Hong Kong ? = +10m.8s., PP = +11m.55s., PS = +17m.31s., ? = +19m.23s.,
 SS = +20m.50s.
 Zinsen ePPN = +11m.42s.
 Nanking PPN = +12m.1s., iSNZ = +17m.38s., PSN = +18m.17s., SS =
 +21m.9s., SSSN = +23m.11s.
 Medan iN = +19m.26s., iE = +21m.0s.
 Calcutta PSE = +21m.56s., SSE = +27m.14s.
 Irkutsk e = +14m.0s., ePP = +15m.12s., ePPP = +16m.50s., e = +24m.38s.
 and +29m.20s.
 College ePP = +15m.15s., eSS = +27m.44s.
 Sitka ePP = +15m.50s., eSS = +28m.38s.
 Ukiah ePPP = +18m.5s., e = +19m.19s., eSS = +28m.56s., e = +34m.50s. and
 +35m.28s.
 Kodaikanal PPE = +15m.47s., PPPE = +17m.46s., ePSE = +23m.37s., SSE =
 +27m.29s., SSSE = +30m.54s.
 Berkeley ePE = +12m.44s., iPSEZ = +24m.31s., eE = +28m.49s., eSSE =
 +29m.24s.
 Lick eEN = +13m.12s.
 Fresno eN = +14m.22s., +14m.49s., and +15m.55s.
 Victoria SS = +29m.49s., SSSN = +34m.9s., PPSE = +34m.55s.; T₀ = 3h.5m.21s.
 Agra ePPE = +15m.57s., PPPE = +17m.39s., PSE = +23m.36s., SSE =
 +28m.29s., SSSE = +31m.57s.
 Pasadena ePPZ = +16m.10s., iS = +23m.45s., iPSZ = +24m.51s., eSSSZ =
 +33m.2s.
 Mount Wilson iZ = +13m.57s.
 Seattle eSS = +30m.10s.
 Haiwee ePPE = +16m.30s.
 Riverside i = +12m.55s., ePPZ = +16m.9s., eSNZ = +24m.5s.
 Tinemaha iPPZ = +16m.12s., eN = +23m.53s.
 Bombay PPE = +16m.44s., PSEN = +24m.20s.
 Tucson ePP = +17m.28s., eSKS = +24m.4s., ePS = +26m.4s., eSS = +31m.17s.
 Bozeman ePS = +26m.14s., eSS = +31m.51s., eSSS = +34m.44s., e = +37m.14s.
 Tashkent ePKP = +16m.58s., ePP = +17m.20s., SKS = +23m.58s., PPS =
 +27m.2s., eSS = +31m.26s.
 Sverdlovsk iPP = +18m.20s., iSKS = +24m.39s., iPS = +27m.24s., SSS =
 +38m.14s.
 Tananarive S = +26m.10s., PS = +27m.59s., SS = +34m.19s.
 Little Rock iPSE = +28m.34s., eSSE = +34m.53s., eSSSE = +39m.2s.
 Florissant ePKPE = +18m.31s., ePP = +19m.12s., iPPEZ = +19m.18s.,
 iPPPE = +21m.48s., iSKKSE = +26m.21s., iSN = +27m.3s., iPSE =
 +28m.44s., iPSNZ = +28m.49s., iPPS = +29m.55s., iSSE = +34m.40s.,
 iSSN = +34m.44s., iPPSSN = +35m.4s., iSSSE = +39m.15s.
 St. Louis ePPEN = +19m.15s., eSKKSE = +26m.19s., ePSE = +28m.43s.,
 iPSEN = +28m.51s., ePPSE = +29m.53s., eSSE = +34m.49s., eSSSE =
 +39m.19s.
 Baku e = +19m.40s., iPS = +28m.51s.
 Chicago ePPP = +21m.23s., ePS = +29m.2s., eSS = +34m.52s.
 Cincinnati i = +18m.11s., iPP = +19m.45s., e = +21m.58s., PS = +29m.30s.
 Ann Arbor e = +29m.32s., +35m.44s., +39m.50s., +44m.14s. and +48m.2s.
 Tiflis PKP = +18m.42s., ePP = +19m.42s., e = +20m.24s., ePPP = +23m.4s.,
 PS = +29m.27s., eSS = +35m.38s.
 Moscow SKSP = +30m.5s., SS = +35m.38s.
 Toronto PPE = +20m.6s., PPN = +20m.12s., SN = +28m.6s., iPS = +29m.44s.?
 SSN = +36m.9s.
 Pulkovo ePKP = +18m.40s., PP = +19m.58s., PPP = +22m.16s., S = +26m.51s.
 PS = +29m.14s., SS = +36m.8s.
 Buffalo iPP = +20m.14s., ePS = +29m.54s.
 Columbia ePS = +30m.16s., eSS = +36m.44s.
 Scoresby Sund PP = +20m.6s., PPP = +22m.56s., S = +28m.7s., PS = +29m.50s.
 SS = +36m.32s., eN = +39m.14s., eE = +39m.56s., eN = +41m.32s.
 Charlottesville e = +28m.28s., ePS = +30m.14s., eSS = +36m.28s., e = +50m.44s.

Continued on next page.

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Ottawa e = +30m.18s., +32m.32s., and +37m.20s.
 Huancayo ePP = +20m.24s., eSKSP = +30m.6s., ePS = +30m.28s., e = +37m.44s. and +51m.14s.
 Ithaca eN = +20m.32s.
 Georgetown ePKP = +18m.59s., ePP = +20m.31s., e = +27m.35s. and +30m.28s.
 Philadelphia iPP = +20m.30s., iSKKS = +27m.35s., eSKSP = +30m.11s., +32m.12s., eSS = +36m.16s., e = +37m.52s., iSSS = +40m.37s., e = +51m.44s.
 Vermont iSKKS = +27m.5s., i = +31m.31s., eSS = +37m.22s., i = +38m.29s., iSSS = +41m.42s.
 Fordham iSKKS = +27m.35s., ePS = +30m.29s., e = +32m.59s., eSS = +37m.35s.
 Oak Ridge iZ = eE = +20m.50s., eZ = +22m.20s., ePKSZ = +22m.55s., eZ = +24m.16s., eSKKSE = +27m.53s., e = +30m.49s., ePSZ = +31m.8s., iPPSZ = +32m.21s., eE = +33m.11s., eZ = +34m.11s. and +35m.15s., eN = +35m.43s., eZ = +36m.35s.
 Cape Town N = +27m.37s., E = +27m.40s., EN = +28m.51s., iPP = +30m.29s., N = +32m.4s., iPPP = +32m.27s., EN = +33m.2s., N = +37m.16s., iSKKSE = +37m.37s., iSN = +38m.1s., N = +39m.47s., E = +39m.56s., iPPSN = +40m.25s., iEN = +42m.4s., iN = +42m.14s., eSSE = +45m.4s., iSS = +45m.57s., eN = +51m.20s., eE = +51m.38s., eN = +53m.38s., eE = +54m.32s.
 Ivigtut S = +28m.20s., PS = +30m.2s., SS = +37m.38s., SSS = +42m.32s., Ksara ePKP = +18m.49s., iPP = +20m.38s., PS = +30m.45s.
 Königsberg eN = +23m.56s., +27m.18s., and +37m.41s.
 La Paz PKPZ = +19m.4s., iPKPZ = +19m.10s., ipPKPE = +20m.44s., ipPKPZ = +20m.56s., isPKPZ = +21m.47s., isPKPN = +21m.56s., iSKPZ = +22m.10s., iSKPE = +22m.20s., iE = +23m.8s., iPPPZ = +23m.36s., iZ = +24m.28s., iSKKS = +27m.12s., iSKSP = +31m.8s., iZ = +32m.4s., iPPSEN = +32m.26s., iPPSZ = +32m.39s., iSS = +38m.30s., iSSSZ = +43m.14s., iSSSEN = +43m.34s.
 East Machias e = +22m.43s., eSKSP = +30m.29s., e = +31m.1s., eSS = +37m.56s., eSSS = +46m.21s.
 Bergen ePP = +21m.5s., PPP = +23m.16s., ePS = +30m.15s., e = +31m.18s. and +33m.24s.
 Copenhagen PP = +21m.3s., eN = +35m.29s., SS = +38m.8s.
 Bucharest eEN = +22m.5s., eE = +22m.26s. and eN = +22m.51s.
 Helwan e = +25m.7s. and +38m.16s.
 Hamburg iE = +22m.41s., iN = +23m.44s., eE = +38m.50s.
 Prague e = +21m.33s., +38m.48s., +41m.11s., and +44m.20s.
 Belgrade eZ = +18m.22s., +18m.48s., eNE = +22m.35s., eNW = +25m.29s. and +29m.38s.
 Vienna ePP? = +22m.31s.
 Jena e = +21m.38s., eN = +22m.8s., eE = +22m.26s., +38m.44s., eN = +38m.56s., and +41m.26s.
 Cheb e = +21m.34s.
 Göttingen ePP = +21m.32s., iSKP = +22m.39s., i = +23m.44s., eSSEN = +39m.8s.
 Edinburgh i = +22m.49s., +39m.11s., and +41m.20s.
 Zagreb ePKPNW = +19m.20s., ePP = +21m.47s., eSKP = +22m.46s., e = +23m.18s., eSSNW = +39m.20s.
 De Bilt e = +21m.36s., +22m.47s., and eEN = +39m.25s.
 San Juan e = +18m.20s., iPP = +21m.55s.
 Stuttgart iPKPZ = +19m.23s., iZ = +20m.6s., ePP = +21m.44s., iPKSZ = +22m.52s., e = +23m.26s., eSSEN = +39m.20s., eE = +41m.44s.
 Trieste ePP = +21m.45s., iSKP = +22m.43s., i = +23m.24s. and +24m.19s., iSKKS = +28m.44s., i = +32m.7s. and +35m.23s., iSS = +39m.34s., SSS = +44m.27s.
 Bidston i = +22m.52s. and +39m.44s.
 Uccle iPPZ = +21m.47s., iSKPZ = +22m.50s., SSE = +39m.38s., SSSE = +44m.30s.
 Strasbourg e = +19m.50s., iSKP = +22m.44s., e = +23m.55s., ePP = +24m.47s., eSS = +39m.14s.
 Rathfarnham Castle e = +42m.44s. and +45m.52s.
 Kew iPKSEN = +22m.54s., iSSEN = +39m.50s., iSSSE = +44m.47s., iN = +46m.47s.
 Oxford eE = +22m.0s., i = +22m.52s. and +40m.1s.
 Rio de Janeiro iP = +22m.26s.
 Algiers P = +20m.10s., e = +26m.44s.? eSS? = +41m.44s.?
 Almeria i = +20m.11s.
 San Fernando ePP = +23m.16s., ePPP = +26m.30s., eSS = +42m.22s., eSSS = +48m.8s.
 Long waves were also recorded at Simferopol, Ferndale, and Pennsylvania.

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May 20d. Readings also at 2h. (Adelaide, Riverview, Sydney, Christchurch, Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, and near Graz), 3h. (Melbourne and Sitka), 5h. (Kodaikanal, Mount Wilson, Pasadena, Riverside, Tinemaha, Tananarive, and La Paz), 6h. (Mount Wilson, Pasadena, and Tinemaha), 7h. (Mount Wilson, Pasadena, and Riverside), 8h. (Tananarive), 9h. (Almata and Andijan), 12h. (near Mizusawa (4)), 14h. (Pasadena, Riverside, and Tinemaha), 16h. (Sverdlovsk and Tashkent), 17h. (near Fresno), 19h. (Andijan, Frunse, and near Samarkand), 20h. (Mizusawa).

May 21d. 2h. 50m. 16s. Epicentre $2^{\circ}5'S$. $153^{\circ}5'E$. N.3.

$A = -.8941$, $B = +.4458$, $C = -.0436$; $\delta = +5$;
 $D = +.446$, $E = +.895$; $G = +.039$, $H = -.019$, $K = -.999$.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	31.4	184	—	—	e 10 38	-48	e 15.5	16.2
Sydney	31.4	184	e 9 29	(+15)	e 13 29	SSS	15.4	22.1
Adelaide	35.3	201	i 3 50	?	e 11 16	-70	—	20.3
Melbourne	36.1	192	—	—	i 11 47	-51	16.2	20.1
Manila	36.5	299	i 6 59	- 3	12 21	-23	—	19.4
Wellington	43.3	157	13 39	S	(13 39)	-46	19.7	—
Christchurch	44.4	160	8 20	+12	14 0	-41	—	21.5
Zi-ka-wei	45.5	321	e 8 20	+ 3	—	—	23.5	30.5
Hong Kong	45.7	305	10 50	PPP	15 24	+24	—	23.9
Nanking	47.7	319	8 34	0	e 15 34	+ 5	24.5	28.0
Chiufeng	54.6	326	9 29 ^a	+ 3	e 17 37	+33	—	32.8
Frunse	83.6	314	e 12 25	- 1	e 23 2	+ 9	—	—
Andijan	84.9	311	e 12 30	- 3	e 23 3	- 4	—	—
Tashkent	87.4	312	e 12 54	+ 9	23 18	-13	40.7	52.7
Samarkand	88.9	310	e 12 52	0	e 23 24	[- 2]	—	—
Tinemaha	z. 90.2	53	i 12 59	+ 1	—	—	—	—
Mount Wilson	z. 90.2	56	i 12 59	+ 1	—	—	—	—
Pasadena	90.4	56	i 12 58	- 1	—	—	e 44.9	—
Riverside	z. 90.7	56	e 13 2	+ 1	—	—	—	—
Sverdlovsk	93.6	327	i 13 23	+ 9	24 9	-20	41.7	—
Baku	102.0	311	e 16 12	?	—	—	49.7	66.2
Tifis	105.6	313	e 13 57	-12	e 25 6	[+13]	e 46.7	65.8
Pulkovo	108.3	333	e 19 26	PP	e 28 32	PS	57.7	68.9
Florissant	E. 111.8	49	e 17 0	[-83]	e 25 32	[+11]	e 51.9	58.6
Scoresby Sund	112.0	358	—	—	25 18	[- 4]	57.7	—
Ksara	114.1	306	e 17 46	[-44]	—	—	—	—
Triest	124.4	327	—	—	e 25 55	[- 8]	—	62.2
Stuttgart	124.6	331	e 20 44?	PP	—	—	e 74.7	—
Paris	127.4	337	e 20 44?	PP	—	—	65.7	—
La Paz	134.7	116	i 19 10k	[- 4]	—	—	65.2	74.3

Additional readings:—

Adelaide i = +9m.10s.
 Melbourne e = +15m.26s.
 Wellington S = +17m.11s.
 Hong Kong SS = +18m.13s.
 Nanking SEN = +16m.6s., SS = +19m.38s.
 Chiufeng eSZ = +17m.46s.
 Tashkent ePP = +16m.32s., iSKKS = +23m.34s.
 Sverdlovsk PS = +25m.57s., SS = +31m.14s.
 Baku ePKP = +17m.59s., PS = +27m.24s., SS = +33m.32s.
 Florissant eE = +26m.35s. and +28m.58s.
 Scoresby Sund +29m.14s., SS = +35m.26s.
 Ksara iPP = +19m.33s., ePKKP = +27m.34s., ePS = +29m.32s., SS = +36m.34s.

La Paz iSKPZ = +22m.39s., iSKS? = +36m.24s., iSKKS = +38m.24s.
 Long waves were also recorded at Copenhagen, Edinburgh, Kew, Cheb, De Bilt, Ucele, San Fernando, Ivigtut, Oak Ridge, Philadelphia, Tucson, Ukiah, College, Rio de Janeiro, and Huancayo.

May 21d. Readings also at 2h. (Strasbourg), 5h. (Oaxaca), 9h. (Oaxaca and Tacubaya), 13h. (La Paz, near Mizusawa and Nagoya), 14h. (Manila), 15h. (Tifis and Triest), 16h. (Andijan, Frunse, near Samarkand, Ravensburg, Stuttgart, near Basle, Chur, Neuchatel, and Zurich), 19h. (Mizusawa), 20h. (Manila, Malabar, Tifis, and Sverdlovsk), 22h. (Medan, Malabar, near Batavia, and near Almeria).

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May 22d. 0h. 15m. 58s. Epicentre 32° 7S. 65° 7W. N.2.

A = +.3463, B = -.7670, C = -.5402; $\delta = +3$;
D = -.911, E = -.412; G = -.222, H = +.492. K = -.842.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago	4.2	258	1 2	+ 2	2 11	S _g	—	—
San Javier	5.8	238	1 29	+ 7	2 59	S*	—	—
La Plata	6.8	111	1 41	+ 4	3 8	+15	3.5	—
La Paz	16.3	352	3 48	+ 3	i 6 52	+ 7	i 8.8	10.6
Rio de Janeiro	22.1	69	i 4 52	0	i 8 52	+ 4	i 11.2	—
Huancayo	22.4	335	e 4 55	0	i 9 2	+ 9	11.5	—
San Juan	51.1	0	e 9 2	+ 2	e 15 47	-29	e 26.0	—
Columbia	68.2	347	e 13 32	PP	e 19 39	-20	e 30.5	—
Little Rock	N. 72.0	338	e 11 22	- 1	—	—	—	—
Philadelphia	73.2	353	e 11 26	- 4	e 20 45	-14	e 34.2	—
St. Louis	74.9	341	e 11 39	- 1	e 21 2	-17	—	—
Florissant	75.1	341	i 11 42	+ 1	i 21 6	-15	e 30.0	45.7
Oak Ridge	75.4	357	i 11 39	- 4	e 21 8	-17	e 44.0	—
Chicago	77.2	343	—	—	e 21 18	-27	e 36.3	—
Toronto	N. 77.4	351	—	—	i 21 33	-14	—	—
Tucson	77.7	323	e 11 52	- 4	e 21 40	-11	e 37.0	—
La Jolla	z. 81.6	318	e 12 21	+ 5	—	—	—	—
Riverside	z. 82.5	319	e 12 19	- 2	—	—	—	—
Mount Wilson	z. 83.0	319	i 12 21	- 2	—	—	—	—
Pasadena	83.0	319	e 12 22	- 1	—	—	e 40.7	—
Santa Barbara	z. 84.1	318	i 12 33	+ 4	—	—	—	—
Haiwee	84.4	321	e 12 28	- 2	—	—	—	—
Tinemaha	85.3	321	i 12 33	- 2	—	—	—	—
Christchurch	87.0	218	34 44	?	39 14	?	41.6	44.0
Bozeman	88.5	331	(e 12 2?)	-48	—	—	e 12.0	—
San Fernando	88.7	45	e 13 19	+28	e 23 41	- 3	48.5	—
Malaga	89.9	45	13 4	+ 7	—	—	—	—
Granada	90.7	45	i 13 1	0	e 24 11	+ 8	—	—
Paris	101.6	39	e 13 52	+ 1	—	—	51.0	64.0
Kew	101.8	36	e 17 2?	?	—	—	e 50.0	—
Edinburgh	103.3	31	—	—	e 24 2?	[-40]	e 53.0	—
Florence	103.7	47	(e 19 2?)	?	—	—	e 19.0	—
Uccle	103.7	37	—	—	e 25 44	-15	e 48.0	—
Strasbourg	104.3	41	e 14 2?	- 1	e 26 2?	- 2	e 35.0	—
De Bilt	104.9	37	—	—	e 26 2?	- 8	e 49.0	69.7
Stuttgart	105.2	42	e 14 4	- 4	e 24 50	[- 1]	e 49.0	—
Triest	106.2	46	e 19 54	?	e 26 8	- 7	—	53.5
Cheb	107.6	41	e 14 0	-19	e 25 7	[+ 5]	e 58.0	61.0
Scoresby Sund	107.8	14	—	—	25 2	[- 1]	56.0	—
Copenhagen	110.4	36	—	—	e 24 50	[-25]	50.0	—
Helwan	111.0	67	e 19 22	PP	e 28 42	PS	—	71.4
Ksara	116.2	66	i 19 44	PP	—	—	58.0	65.0
Pulkovo	120.7	36	20 11	PP	29 59	SKSP	—	77.8
Tiflis	125.4	59	e 18 59	[+ 1]	e 30 46	PS	e 64.8	71.8
Baku	128.8	62	e 19 11	[+ 6]	e 31 7	PS	62.0	91.9
Sverdlovsk	136.5	40	e 19 26	[+ 9]	—	—	63.0	80.0
Samarkand	141.6	66	e 19 21	[- 3]	—	—	—	—
Tashkent	143.5	63	e 19 29	[0]	—	—	63.0	90.3
Frunse	147.3	60	e 19 46	[+ 8]	—	—	—	—
Sempalatinsk	149.4	45	e 19 45	[+ 4]	—	—	—	—
Chiufeng	172.5	349	20 5a	[0]	e 25 20	PP	—	32.5
Zi-ka-wei	z. 173.8	259	e 20 11	[+ 5]	25 31	PP	—	106.4
Nanking	E. 176.2	263	21 49	[- 9]	e 25 43	PP	e 85.0	—

Additional readings:—

La Paz iSN = +6m.57s.

Huancayo iP = +5m.0s.

San Juan eSS = +19m.2s., e = +23m.2s.

Little Rock ePE = +11m.28s.

Continued on next page.

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Philadelphia ePP = +14m.5s., e = +23m.26s., eSSS = +29m.20s.
 Florissant ePPE = +14m.26s., eN = +18m.17s., iPSEN = +21m.47s.
 Oak Ridge ePcPZ = +11m.45s., iZ = +12m.51s., ePPZ = +14m.21s.
 Chicago e = +24m.0s. and +34m.2s.
 Tucson ePS = +22m.28s., eSS = +27m.2s., eSSS = +30m.14s.
 Mount Wilson iZ = +12m.27s. and +14m.12s., eZ = +18m.42s.
 Pasadena i = +12m.28s.
 Strasbourg e = +24m.2s.?
 Stuttgart ePP = +18m.26s., ePPS = +28m.56s.
 Trieste e = +23m.13s. and +46m.32s.?
 Scoresby Sund +26m.23s., PS = +28m.2s.
 Copenhagen +26m.50s., eE = +28m.38s.
 Helwan e = +29m.42s.
 Ksara ePPP = +21m.18s., ePS = +29m.35s., PPS = +30m.49s.
 Pulkovo PP = +23m.27s., PPS = +36m.17s.
 Tiflis e = +20m.46s.
 Baku e = +21m.11s., +22m.40s., and +35m.12s.
 Sverdlovsk e = +22m.8s., +23m.4s., +25m.19s., and +39m.59s.
 Samarkand e = +20m.21s.
 Tashkent e = +20m.20s. and +21m.16s., i = +23m.11s., +24m.4s., and +25m.51s., e = +35m.4s., +40m.38s., and +44m.22s.
 Nanking eE = +32m.23s.
 Long waves were also recorded at Cape Town, College, Sitka, Ivigtut, Almeria, Stonyhurst, Graz, Prague, Zagreb, Bombay, Hyderabad, Moscow, and Hong Kong.

May 22d. 10h. 36m. 19s. Epicentre 44°·2N. 12°·0E. (as on 1935 June 5d.). R.3.

A = +·7012, B = +·1491, C = +·6972; $\delta = 0$;
 D = +·208, E = -·978; G = +·682, H = +·145, K = -·717.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Florence	0·7	235	0 13	+ 3	—	—	0·3
Triest	1·9	42	e 0 27	- 1	i 0 57	S _g	—
Chur	3·2	327	e 0 44	- 2	e 1 23	+ 1	—
Zagreb	3·3	63	i 1 9	P _g	—	—	—
Zurich	4·0	318	—	—	e 1 32	-10	—
Neuchatel	4·5	304	e 1 1	- 3	—	—	—
Basle	4·6	313	e 1 26	P _g	—	—	—

Additional readings:—

Triest e = +32s. = P_g + 0s., i = +42s. = S - 7s.
 Zagreb e = +1m.19s. and +1m.43s. = S_g - 3s., eZ = +1m.51s.

May 22d. 23h. 21m. 7s. Epicentre 21°·7S. 170°·0E. (as on 1935 Dec. 26d.). R.3.

A = -·9150, B = +·1613, C = -·3697; $\delta = -8$;
 D = +·174, E = +·985; G = +·364, H = -·064, K = -·929.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Arapuni	17·1	165	—	—	7 43	+39	9·9	—
Apia	19·0	69	e 1 53?	?	—	—	e 8·4	—
Wellington	20·0	171	4 35	+ 5	8 18	+12	10·2	10·9
Riverview	20·6	230	4 36	0	i 8 30	+12	e 10·3	11·8
Sydney	20·6	230	e 4 35	- 1	i 8 35	+17	11·2	13·1
Christchurch	21·9	175	i 4 53	+ 3	i 9 3	+19	—	—
Melbourne	26·9	228	e 5 42	+ 5	i 10 13	- 1	13·9	14·6
Adelaide	30·5	237	e 6 13	+ 4	i 11 17	+ 5	—	19·9
Manila	60·3	303	e 10 2	- 5	18 20	0	26·9	—
Batavia	62·8	275	—	—	e 18 54	+ 2	e 29·9	—
Nanking	72·8	316	11 24	- 4	i 20 48	- 6	31·9	38·5
Medan	74·2	281	e 13 0	?	e 21 34	PS	e 43·9	—
Chiufeng	79·6	322	12 0 _a	- 6	22 1	-10	—	—
Ukiah	87·1	46	—	—	e 24 13	+45	e 40·5	—
Pasadena	z. 88·1	52	e 12 50	+ 2	—	—	e 43·9	—

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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.	88.3	52	e 12 49	0	—	—	—	—
Riverside	Z.	88.6	52	e 12 53	+ 2	—	—	—	—
Haiwee	Z.	89.2	51	e 13 9	+15	—	—	—	—
Tinemaha	E.	89.5	49	e 12 54	- 1	—	—	—	—
Calcutta	E.	90.9	294	e 12 44	-18	i 23 32	[- 6]	—	—
Tucson		92.8	56	e 13 18	+ 8	e 24 29	+ 7	e 45.4	—
Huancayo		107.6	111	—	—	e 25 10	[+ 8]	—	—
Florissant	E.	110.7	55	—	—	e 24 46	[-30]	e 53.8	61.6
La Paz		111.4	119	e 17 47	[-35]	i 28 53	PS	e 66.9	—
Tashkent		112.0	307	19 5	PP	25 12	[-10]	e 50.9	82.5
Sverdlovsk		118.6	324	e 19 20	PP	27 56	?	e 59.9	75.8
Ottawa		122.1	48	—	—	e 35 19	?	e 51.9	—
Philadelphia		122.4	56	—	—	e 37 42	SS	e 62.4	—
Rio de Janeiro		124.0	142	e 38 53?	SS	—	—	—	—
Grozny		129.4	309	e 18 53	[-13]	—	—	e 73.6	—
Tiflis		130.2	307	e 19 9	[+ 2]	28 24	{+ 1}	e 64.9	88.0
Scoresby Sund		130.7	5	22 33	PKS	—	—	e 62.9	—
Moscow		131.2	326	e 19 29	[+20]	—	—	—	—
Pulkovo		132.6	333	19 9	[- 2]	28 16	{-22}	e 70.9	78.1
Simferopol		137.2	314	e 21 46	PP	—	—	—	—
Yalta		137.3	313	e 23 23	PKS	—	—	—	—
Sebastopol		137.7	314	e 22 51	PKS	—	—	—	—
Ksara		138.0	296	e 19 21	[+ 2]	—	—	—	—
Copenhagen		142.2	339	19 33	[+ 8]	22 36	PP	e 62.9	—
Cheb		146.6	334	e 18 53?	[-43]	—	—	—	—
De Bilt		147.4	342	i 19 41	[+ 3]	e 42 23	SS	e 73.9	84.7
Zagreb		147.9	325	e 19 41	[+ 2]	—	—	—	—
Uccle		148.8	343	e 19 44	[+ 4]	—	—	e 60.9	—
Stuttgart		149.0	335	e 19 40	[0]	—	—	e 80.9	—
Kew		149.2	348	e 19 51	[+11]	—	—	e 73.9	—
Strasbourg		149.7	336	e 19 54	[+13]	—	—	e 42.9	—
Chur		150.3	335	e 19 47k	[+ 5]	—	—	—	—
Zurich		150.3	335	e 19 48	[+ 6]	—	—	—	—
Basle		150.5	336	e 19 47	[+ 5]	—	—	—	—
Paris		151.1	343	e 19 43	[0]	e 27 0	SKS	e 80.9	—
Granada		163.6	342	e 20 1	[+ 3]	—	—	e 83.9	—
San Fernando		164.9	348	e 31 12	?	—	—	e 89.9	—

Additional readings :—

Wellington PP? = +4m.57s., i = +12m.53s.?
 Riverview iEN = +4m.45s., iSN = +8m.33s.
 Christchurch sP = +5m.39s., S_cS = +15m.33s., sS_cSN = +16m.27s.
 Melbourne i = +10m.36s.
 Adelaide ePE = +6m.17s., i = +7m.8s., e = +9m.58s., iS? = +12m.13s., i = +14m.25s.
 Chiufeng iSN = +22m.4s.
 Pasadena iZ = +13m.7s.
 Mount Wilson iZ = +13m.0s. and +13m.8s., eZ = +15m.18s.
 Riverside eZ = +13m.10s.
 Tucson eSKS = +23m.47s., ePS = +25m.41s., eSS = +30m.47s., eSSS = +34m.29s.
 Florissant ePSE = +28m.35s., ePPSE = +29m.21s., eSSE = +34m.45s.
 Tashkent SKKS = +26m.9s., S = +26m.55s., PS = +28m.40s., PPS = +29m.47s., SS = +34m.41s.
 Sverdlovsk PP = +20m.0s., PS = +29m.56s.
 Ottawa e = +43m.35s.
 Philadelphia e = +51m.7s.
 Tiflis ePP = +21m.29s., e = +21m.55s., PKS = +22m.34s., SKSP = +31m.25s., eSS = +39m.13s.
 Moscow PP = +21m.24s., PKS = +22m.34s.
 Pulkovo PP = +21m.36s., PKS = +22m.37s., S = +29m.32s., PS = +31m.36s., SS = +39m.23s.
 Ksara ePP = +22m.11s., ePPS = +34m.35s.
 Stuttgart ePKP₂ = +20m.4s.
 Paris eSKP = +23m.47s.
 San Fernando ePPP = +35m.58s., eSSS = +61m.12s.
 Long waves were also recorded at Hong Kong, Cape Town, College, Sitka, Chicago, Oak Ridge, Ivigtut, Baku, Prague, and Edinburgh.

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May 22d. Readings also at 0h. (Scoresby Sund and Semipalatinsk), 1h. (Sumoto and near Lick), 4h. (Mizusawa), 5h. (Triest, near La Paz, and near Mizusawa), 6h. (Manila, Hong Kong, Chiufeng, Nanking, Phu-Lien, Husan, Zi-ka-wei, Calcutta, and near Algiers), 7h. (Baku, Sverdlovsk, Tashkent, Mount Wilson, Pasadena, and Riverside), 15h. (Manila, Tifis, Sverdlovsk, Tashkent, and near La Paz), 17h. (near Medan), 18h. (near Nagoya), 19h. (La Paz and Melbourne), 20h. (Andijan and near Samarkand), 21h. (Mizusawa, Sverdlovsk, and Tashkent), 22h. (Bucharest, Czernovitz, Sebastopol, Simferopol, and Yalta).

May 23d. 4h. 41m. 7s. Epicentre 35°·7N. 121°·4W. N.3.

A = -·4231, B = -·6932, C = +·5835; $\delta = +1$;
D = -·854, E = +·521; G = -·304, H = -·498, K = -·812.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Lick	1·5	353	e 0 21	0	e 0 36	- 3
Fresno	1·6	51	i 0 22	- 1	i 0 35	- 6
Branner	1·8	340	e 0 27	+ 1	e 0 50	S*
Berkeley	2·2	342	e 0 31	0	e 0 53	- 4
San Francisco	2·4	338	e 0 35	+ 1	e 1 8	S*

San Francisco gives also $eE = +1m.4s. = S + 2s.$

May 23d. 14h. 39m. 38s. Epicentre 43°·0S. 173°·0E. (as on 1922 Dec. 25d.). X.

A = -·7259, B = +·0891, C = -·6820; $\delta = -1$;
D = +·122, E = +·993; G = +·677, H = -·083, K = -·731.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Christchurch	0·6	209	e 0 7	- 2	i 0 18	+ 3
Greymouth	1·4	294	0 22	+ 2	0 41	S*
Wellington	2·2	37	0 31	0	0 54	- 3
New Plymouth	4·0	13	1 12	P _g	i 1 45	+ 3

Additional readings:—

Wellington $i = +44s.$ and $+1m.9s. = S_g + 2s.$

New Plymouth $i = +2m.0s. = S^* + 3s.$

May 23d. 15h. 32m. 7s. Epicentre 41°·0S. 179°·5W. N.3.

A = -·7547, B = -·0066, C = -·6561; $\delta = +8$;
D = -·007, E = +1·000; G = +·656, H = +·006, K = -·755.

New Zealand stations suggest depth 180km. Corrections corresponding to depth 0·030 have been applied here.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.
		°	°	m. s.	s.	m. s.	s.
Hastings	+0·4	3·1	296	0 53	+ 3	1 22	- 8
Wellington	+0·1	4·3	264	1 1	- 2	1 49	- 4
Arapuni	0·0	4·8	308	i 1 29	+21	1 57	- 6
Stratford	0·0	5·0	286	1 53?	S	(1 53?)	-15
New Plymouth	0·0	5·3	289	1 8	- 7	1 59	-16
Takaka	0·0	5·9	269	1 53?	+29	—	—
Christchurch	-0·1	6·4	244	e 1 30	0	i 2 44	+ 3
Riverview	N. -1·5	24·2	278	e 6 41	?	—	—
Manila	-4·0	78·2	301	16 36	?	20 23	-48
Nanking	-4·3	92·6	312	e 19 18	?	22 50	-50
Tifis	—	147·1	286	e 19 4	[-33]	—	—
Ksara	—	151·2	265	e 19 4	[-39]	e 27 6	SKS

Additional readings:—

New Plymouth $i = +1m.40s.$ and $+1m.46s.$

Ksara $i = +19m.20s.$

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May 23d. Readings also at 0h. (near Berkeley), 1h. (La Paz, Tucson, and near Zagreb), 2h. (Triest and near Zagreb), 5h. (near Manila), 6h. (Ksara and La Paz), 7h. (near Andijan and Frunse), 9h. (Andijan and Frunse), 11h. (near Balboa Heights, near Nagoya, and near Samarkand), 15h. (Tacubaya), 16h. (near Medan), 17h. (Oak Ridge), 18h. (near Manila), 19h. (Christchurch, Adelaide, Riverview, Sydney, Perth, Hong Kong, Manila, Chiufeng, Nanking, Tashkent, Tifis, Ksara, Yalta, Pulkovo, and Oak Ridge), 20h. (Baku, Copenhagen, Stuttgart, Strasbourg, Paris, De Bilt, and Uccle), 21h. (Andijan, Frunse, and Tashkent), 22h. (Helwan, La Paz, and La Plata), 23h. (Apia, Frunse, near Samarkand, and near Nagoya).

May 24d. Readings at 3h. (Chicago), 6h. (Almata, Andijan, and Frunse), 7h. (Almata, Andijan, near Frunse, near Mizusawa, and Nagoya), 8h. (Baku, Sverdlovsk, Tashkent, and near Sumoto), 9h. (Bagnères and Tacubaya), 11h. (near Hukuoka and Hukuoka B), 12h. (Manila, Nanking (2), and Perth), 16h. (Florissant, Tucson, Mount Wilson, and Pasadena (2)), 17h. (Apia, Philadelphia, and Scoresby Sund), 19h. (Tacubaya, Merida, Tucson, Mount Wilson, and Pasadena), 20h. (Philadelphia and Scoresby Sund), 21h. (La Paz, Mount Wilson, and Pasadena), 22h. (Melbourne, Andijan, Frunse, and near Samarkand), 23h. (College).

May 25d. 3h. 2m. 41s. Epicentre 3°·5S. 146°·5E. (as on 1930 May 20d.). R.2.

A = -·8323, B = +·5509, C = -·0610; $\delta = -6$;
D = +·552, E = +·834; G = +·050, H = -·034, K = -·998.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Palau	16·2	312	3 45	+ 1	7 7	+24	—	—
Riverview	30·6	172	i 11 19	S	(i 11 19)	+ 5	e 16·6	19·6
Sydney	30·6	172	e 10 55	S	(e 10 55)	-19	16·6	20·2
Manila	31·2	308	i 6 16	0	11 6	-17	14·6	17·3
Adelaide	32·3	191	i 11 43	S	(i 11 43)	+ 3	19·1	21·5
Melbourne	34·3	181	—	—	e 12 11	0	—	22·0
Kosyun	35·8	316	6 49	- 7	—	—	—	—
Nake	35·8	334	6 58	+ 2	—	—	—	—
Miyazaki	38·2	339	7 17	0	12 57	-12	—	—
Wakayama	39·2	345	7 23	- 2	13 19	- 5	—	—
Misima	39·3	351	7 24	- 2	—	—	—	—
Sumoto	39·4	345	e 7 26	- 1	—	—	e 20·2	—
Kobe	39·6	347	e 6 32	-57	e 12 34	-56	—	20·6
	z.	39·6	e 6 29	-60	e 12 21	-69	—	—
Nagoya	39·7	348	e 6 19	-70	—	—	—	—
Kohu	39·8	351	7 26	- 4	13 30	- 3	—	—
Hukuoka B	40·1	339	e 7 33	0	e 13 29	- 9	—	—
Perth	40·4	221	13 49	S	(13 49)	+ 7	20·6	22·0
Oiwake	40·5	349	7 40	+ 4	—	—	—	—
Hong Kong	40·8	311	7 37	- 2	13 49	+ 1	—	20·6
Nagano	40·9	349	7 40	0	13 45	- 5	—	—
Husan	41·9	338	e 7 51	+ 3	e 14 9	+ 4	—	—
Zi-ka-wei	z.	42·1	e 7 48	- 1	13 15	-53	20·2	21·7
Taikyu	42·8	338	e 7 57	+ 2	e 14 19	+ 1	—	—
Arapuni	43·6	146	—	—	i 18 19?	SSS	—	24·3
Nanking	44·2	325	8 5	- 1	i 14 45	+ 6	e 21·4	24·0
Keizyo	44·9	338	e 8 13	+ 1	e 14 47	- 2	e 18·3	—
Zinsen	44·9	337	e 8 12	0	e 14 54	+ 5	—	—
Wellington	45·5	150	17 58	SS	—	—	i 21·1	—
Christchurch	46·3	154	13 41	?	18 44	SS	—	—
Sapporo	46·8	355	8 35	+ 8	—	—	—	—
Medan	48·3	278	12 47	?	—	—	—	—
Chiufeng	51·7	330	e 9 8	+ 4	15 42	-42	23·1	28·5
Calcutta	E.	62·4	298	—	e 18 45	- 2	—	—
Frunse	79·3	315	e 11 42	-22	—	—	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Andijan	80.3	312	e 12 12	+ 3	—	—	—	—
Sitka	86.6	32	—	—	e 23 13	[+ 2]	e 37.3	—
Sverdlovsk	90.6	326	13 6	+ 6	23.44	[+ 8]	36.3	46.3
Pasadena	z. 96.4	56	e 13 29	+ 2	—	—	e 43.5	—
Mount Wilson	z. 96.5	56	e 13 27	0	—	—	—	—
Baku	97.3	311	17 26	PP	24 13	[0]	50.3	55.5
Tiflis	101.1	311	e 18 1	PP	e 26 41	PS	50.3	60.4
Tucson	102.6	57	—	—	e 31 55	SS	e 46.2	—
Pulkovo	106.0	333	e 19 36	?	e 24 55	[0]	54.8	63.4
Scoresby Sund	112.6	355	20 37	?	35 1	SS	—	—
Copenhagen	116.2	332	—	—	29 37	PS	57.3	—
Florissant	E. 117.6	47	—	—	e 26 43	{-17}	e 47.4	64.9
Cheb	119.5	328	e 15 19?	+ 2	—	—	e 59.3	74.3
Triest	121.1	323	e 20 3	PP	—	—	e 58.3	65.8
De Bilt	121.8	332	e 22 19?	PPP	e 30 19?	PS	e 57.3	74.4
Stuttgart	122.0	328	e 20 28	PP	—	—	e 60.3	73.3
Edinburgh	122.3	339	—	—	e 32 19?	?	e 54.3	74.3
Strasbourg	122.8	328	e 20 19?	PP	—	—	e 54.3	74.8
Uccle	123.0	332	e 17 55	[-58]	e 30 19?	SKSP	e 58.3	—
Ottawa	124.2	34	—	—	e 29 37	SKSP	e 55.3	—
Kew	124.6	334	—	—	e 29 19?	SKSP	e 55.3	73.2
Paris	125.3	331	e 20 19?	PP	—	—	64.3	75.3
Philadelphia	127.6	40	—	—	e 37 36	SS	e 54.6	—
Balboa Heights	134.0	81	—	—	36 19?	?	—	—
Huancayo	135.6	111	—	—	e 42 19	?	—	—
Granada	136.6	323	e 23 50	?	—	—	77.3	—
San Fernando	138.6	325	—	—	e 40 49	SS	69.3	—
La Paz	140.4	124	—	—	e 34 49	?	68.3	78.5
Rio de Janeiro	152.0	160	—	—	e 37 19	?	—	—

Additional readings:—

Riverview eSE = +15m.7s.

Sydney iS = +14m.19s.

Adelaide e = +12m.25s., i = +13m.19s., +14m.5s., and +14m.24s., eS? = +16m.42s., i = +17m.52s., and +18m.25s.

Melbourne i = +15m.12s., e = +15m.42s.

Sumoto eE = +7m.31s.

Perth PP = +14m.44s., PcP = +16m.34s., S = +18m.19s., SS = +19m.11s., PcS = +19m.19s.

Hong Kong PP = +9m.8s., PcP = +9m.42s.

Husan eSSE = +17m.22s.

Nanking eE = +16m.12s., SS = +18m.9s., SSSE = +18m.45s.

Zinsen eSSN = +18m.12s.

Chiufeng iZ = +16m.11s., iN = +16m.27s.

Sverdlovsk SS = +30m.7s.

Baku PS = +26m.19s., SS = +31m.43s.

Tiflis e = +20m.1s. and +32m.39s.

Tucson e = +43m.43s.

Pulkovo e = +21m.6s., +27m.52s., +28m.49s., +32m.35s., and +36m.15s., L_q = +50.3m.

Copenhagen +35m.42s.

Florissant eE = +27m.44s., eN = +30m.7s., eE = +30m.15s. and +36m.33s.

Triest e = +30m.19s., i = +32m.56s. and +38m.47s.

Ottawa e = +33m.19s.? and +38m.1s.

Philadelphia e = +38m.29s. and +43m.3s.

Long waves were also recorded at Ukiah, Columbia, Oak Ridge, Ivigtut, Cape Town, Honolulu, Moscow, Bergen, and other European stations.

May 25d. 13h. 28m. 55s. Epicentre 3°·5S. 146°·5E. (as at 3h.).

X.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Palau	16.2	312	3 44	0	—	—	—	—
Riverview	30.6	172	—	—	e 13 5	SSS	e 17.3	20.0
Sydney	30.6	172	—	—	e 11 17	+ 3	16.5	19.1
Manila	31.2	308	7 11	PP	11 32	+ 9	14.2	—
Adelaide	32.3	191	e 6 5	-20	e 11 0	-40	e 18.0	22.0

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Melbourne	34.3	181	—	—	e 13 19	+68	17.4	22.3
Misima	39.3	351	7 28	+ 2	—	—	—	—
Perth	40.4	221	i 13 40	S	(i 13 40)	- 2	21.6	—
Oiwake	40.5	349	7 36	0	—	—	—	—
Nagano	40.9	349	7 40	0	13 50	0	—	—
Zi-ka-wei	z. 42.1	328	e 7 48	- 1	—	—	—	22.9
Nanking	44.2	325	e 8 9	+ 3	14 44	+ 5	21.7	—
Chiufeng	51.7	330	e 9 6	+ 2	e 16 33	+ 9	—	27.7
Tashkent	82.8	312	—	—	e 22 5?	-40	e 45.1	—
Sverdlovsk	90.6	326	e 14 45	+105	—	—	31.1	42.8
Tiflis	101.1	311	—	—	e 32 53	SS	e 52.1	—
Pulkovo	106.0	333	—	—	e 28 50	?	55.1	63.6

Additional readings :—

Adelaide e = +12m.29s. and +14m.26s.

Sumoto eE = +7m.31s.

Perth i? = +16m.30s. and +17m.20s.

Nanking SSN = +17m.16s., SSS = +18m.12s.

Tashkent e = +24m.5s.?

Long waves were also recorded at Baku, Scoresby Sund, and European stations.

May 25d. Readings also at 1h. (Husan and near Hukuoka B), 2h. (Andijan, Frunse, Calcutta, and La Plata), 4h. (Adelaide), 7h. (Nanking, Mount Wilson, Pasadena, and near La Paz), 8h. (Grozny and Scoresby Sund), 11h. (Nanking and Chiufeng), 12h. (Mizusawa, near Nagoya, and Sumoto), 15h. (La Plata, near Manila, and near Trieste), 17h. (Erevan), 18h. (Samarkand and near Andijan), 19h. (Chiufeng, Hong Kong, and Nanking), 22h. (near Santiago and San Javier).

May 26d. 0h. European shock for which no determination is made.

Belgrade eZ = 53m.22s., 53m.46s., 54m.4s., 54m.19s., and 54m.56s.

Triest P = 53m.45s., iS = 54m.47s., i = 55m.7s., 55m.37s., 55m.46s., and 55m.55s.

Zagreb eP = 53m.45s., eS_g = 54m.41s., eNW = 55m.4s., e = 55m.10s., M = 55m.25s.

Chur eP = 54m.25s.

Zurich e = 55m.56s.

Padova eP = 56m.12s.

Strasbourg e = 58m.

Stuttgart e = 58m.

De Bilt e = 60m.

May 26d. 15h. 36m. 20s. Epicentre 31°·6N. 130°·6E. (as on 1935 July 3d.). X.

A = +.5543, B = +.6467, C = +.5240; $\delta = +5$;

D = +.759, E = +.651; G = -.341, H = +.398, K = -.852.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Hukuoka B	2.0	356	e 0 34	P _g	1 1	S _g	—
Sumoto	4.5	51	1 4	0	1 55	0	2.5
Kobe	4.9	50	e 1 11	+ 1	e 2 5	0	2.4
Nagoya	6.4	54	e 1 33	+ 2	2 43	0	2.9

May 26d. Readings also at 1h. (near Hukuoka B), 2h. (Rio de Janeiro), 3h. (Andijan), 5h. (near Sumoto), 6h. (near Capodimonte and Trieste), 8h. (Andijan), 9h. (Sebastopol, Theodosia, near Simferopol, and Yalta), 11h. (Christchurch), 12h. (Adelaide, Riverview, Sydney, and Wellington), 13h. (La Jolla, Mount Wilson, Pasadena, Tashkent, Tiflis, Simferopol, Yalta, Ksara, Pulkovo, Copenhagen, Paris, De Bilt, Strasbourg, and Stuttgart), 14h. (Baku, Sverdlovsk, and Scoresby Sund), 17h. (Frunse, Tashkent, Chiufeng, Little Rock, and Tacubaya), 18h. (Sverdlovsk, Copenhagen, and near Tiflis), 22h. (Mizusawa and near Nagoya), 23h. (Ksara, Sverdlovsk, and Tashkent).

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May 27d. 6h. 19m. 18s. Epicentre 28°·4N. 83°·3E. N.1.

A = +·1026, B = +·8736; C = +·4756; δ = -10;
D = +·993, E = -·117; G = +·056, H = +·472, K = -·880.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Agra	4·8	256	1 9	+ 1	2 5	+ 2	—	—
Dehra Dun	5·0	294	1 12	+ 1	2 2	- 6	2·5	2·7
Calcutta	7·4	140	1 42	- 3	3 2	- 7	3·5	—
Hyderabad	11·8	203	3 7	+21	5 22	+24	—	7·9
Bombay	13·5	228	i 3 6	- 3	5 31	- 8	—	9·0
Andijan	15·3	327	3 25	- 7	i 6 17	- 5	8·3	—
Almata	15·7	343	e 3 35	- 3	—	—	—	—
Frunse	16·1	337	e 3 39	- 4	e 6 49	+ 8	—	—
Tashkent	17·3	322	i 3 52	- 6	i 6 48	-21	8·7	12·7
Samarkand	17·6	314	e 4 2	0	e 6 14	-61	—	—
Tchimkent	17·8	325	e 4 2	- 2	e 7 28	+ 8	—	—
Kōdaikanal	E. 19·0	198	i 4 16	- 3	i 7 51	+ 5	9·6	—
Colombo	21·8	190	e 4 47	- 2	8 47	+ 5	—	17·3
Semipalatinsk	22·1	356	i 4 52	0	i 8 56	+ 8	12·2	—
Phu-Lien	22·5	104	i 4 55	- 1	i 8 59	+ 4	11·7	14·2
Hong Kong	28·5	95	5 52k	0	10 36	- 4	14·9	17·6
Medan	28·8	148	5 59	+ 5	i 12 19	SS	—	—
Chiufeng	29·3	57	i 6 0a	+ 1	i 10 46	- 7	—	18·0
Baku	29·8	303	i 6 38	+35	i 11 10	+ 9	16·0	23·1
Nanking	30·8	74	i 6 10a	- 2	i 11 12	- 5	14·9	19·4
Sverdlovsk	32·6	337	i 6 38	+10	i 11 51	+ 6	17·9	18·1
Zi-ka-wei	33·1	75	i 6 33k	0	11 50	- 2	—	18·7
Dairen	33·3	62	6 34	0	11 56	+ 1	—	—
Grozny	33·5	307	i 6 45	+ 9	i 12 4	+ 6	19·0	—
Taiyu	33·7	88	6 42	+ 4	12 1	0	—	—
Erevan	33·8	301	e 6 44	+ 5	—	—	21·7	—
Tiflis	33·9	304	i 6 42	+ 3	i 12 9	+ 5	19·5	30·7
Arisan	33·9	89	6 38	- 1	12 12	+ 8	—	—
Yingkow	34·0	76	6 16	-24	11 40	-26	—	—
Taihoku	34·2	86	e 12 5	S	(e 12 5)	- 4	19·1	19·2
Kosyun	34·4	92	6 53	+ 9	—	—	—	—
Karenko	34·5	88	6 45	0	—	—	—	—
Taito	34·5	90	6 49	+ 4	12 18	+ 4	—	—
Piatigorsk	35·6	308	i 6 46	+ 2	i 12 28	- 2	20·2	—
Heizyo	36·5	62	7 6	+ 4	e 12 46	+ 2	e 20·3	23·4
Isigakizima	36·7	86	7 12	+ 8	—	—	—	—
Zinsen	37·1	65	i 7 6a	- 1	i 12 49	- 4	e 17·3	20·4
Keizyo	E. 37·4	65	i 7 9	- 1	e 12 39	-18	e 15·7	23·5
Manila	37·5	103	i 7 11a	0	i 12 54	- 5	—	—
Taikyu	38·7	67	7 22	+ 1	13 15	- 2	20·8	22·7
Husan	39·1	68	7 21	- 3	e 13 5	-17	—	24·8
Tomie	39·1	72	7 24	0	—	—	—	—
Naha	39·2	83	7 20	- 5	13 25	+ 1	—	—
Unzendake	40·3	72	7 36	+ 1	13 32	- 9	—	—
Hukuoka	40·4	70	7 37	+ 2	13 45	+ 3	i 21·8	24·9
Hukuoka B	40·4	70	7 34	- 1	13 37	- 5	21·1	26·0
Nake	40·4	78	7 32	- 3	13 34	- 8	—	—
Ksara	40·6	289	i 7 41a	+ 4	i 13 53	+ 8	—	—
Kagosima	40·7	74	7 45	+ 7	13 37	-10	—	—
Kumamoto	40·7	72	7 38a	0	13 46	- 1	—	—
Theodosia	41·1	307	e 7 42	+ 1	13 54	+ 1	e 18·7	—
Batavia	41·4	142	7 41	- 3	15 13	+76	e 21·7	—
Miyazaki	41·4	73	7 43a	- 1	—	—	—	—
Ooita	41·4	71	7 42	- 2	—	—	—	—
Hamada	41·6	69	7 45	0	—	—	—	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Yalta	41.9	306	i 7 49	+ 1	14 7	+ 2	24.7	—
Simferopol	42.0	307	i 7 50	+ 1	14 8	+ 2	24.0	—
Hirosima	42.0	70	7 59	+10	—	—	—	—
Matuyama	42.3	70	7 51	0	—	—	—	—
Sebastopol	42.4	306	i 7 54	+ 2	i 14 16	+ 5	26.7	—
Moscow	42.4	323	7 52	0	14 10	- 1	23.2	25.2
Malabar	42.6	143	e 8 13	+20	e 17 26	SS	e 22.7	—
Koti	43.0	70	7 55	- 2	14 22	+ 1	—	—
Tadotu	43.1	69	7 41	-17	13 56	-26	—	—
Okayama	43.2	69	7 59	+ 1	—	—	—	—
Toyooka	43.8	67	8 2	- 1	i 14 32	- 1	22.8	28.1
Sumoto	44.0	68	8 1k	- 4	e 17 56	SS	23.3	28.2
Kobe	44.2	68	e 8 1	- 5	14 37	- 2	—	28.3
Wakayama	z. 44.2	68	e 8 3	- 3	e 14 43	+ 4	—	28.3
Wakayama	44.2	69	8 6	0	14 38	- 1	—	—
Osaka	44.5	68	8 9	0	14 42	- 1	—	—
Kyoto	44.6	68	8 11	+ 1	14 51	+ 7	—	—
Yagi	44.7	68	8 9	- 1	—	—	—	—
Siomisaki	44.8	70	8 11 ^a	0	—	—	—	—
Hikone	45.0	68	8 15	+ 2	—	—	—	—
Helwan	45.0	285	i 8 12	- 1	i 14 57	+ 7	—	31.0
Kameyama	45.2	69	8 14	0	14 52	- 2	—	—
Kanazawa	45.2	65	8 10	- 4	14 48	- 6	—	—
Tu	45.3	69	8 29	+14	—	—	—	—
Wazima	45.3	64	8 16	+ 1	14 53	- 2	—	—
Gihu	45.4	67	8 15	- 1	14 54	- 2	—	—
Nagoya	45.6	67	e 8 19	+ 1	(14 57)	- 2	15.0	28.9
Toyama	45.6	65	8 19	+ 1	14 59	0	—	—
Hamamatu	46.2	68	8 22	0	15 3	- 4	—	—
Matumoto	46.3	66	8 21	- 2	—	—	—	—
Nagano	46.4	65	8 24	0	15 10	0	—	—
Takada	46.4	65	8 21	- 3	—	—	—	—
Oiwake	46.7	67	8 29	+ 3	15 20	+ 6	—	—
Omaesaki	46.7	68	8 25	- 1	—	—	—	—
Kohu	46.8	67	8 28	+ 1	15 12	- 4	—	—
Niigata	46.9	63	8 34	+ 6	—	—	—	—
Hunatu	47.0	67	8 20	- 9	15 19	0	—	—
Maebasi	47.1	67	8 30	+ 1	15 11	- 9	—	—
Numadu	47.1	67	8 30	+ 1	—	—	—	—
Misima	47.2	67	8 30	0	15 24	+ 3	—	—
Ito	47.3	67	8 34	+ 3	—	—	—	—
Pulkovo	47.3	327	i 8 32	+ 1	i 15 22	- 1	20.7	28.7
Kumagaya	47.4	65	8 32	0	—	—	—	—
Akita	47.6	61	8 31	- 2	—	—	—	—
Bucharest	47.7	306	e 8 38	+ 4	15 32	+ 3	—	30.7
Yokohama	47.7	66	8 32	- 2	—	—	—	—
Tokyo	47.8	66	8 35	0	—	—	—	—
Mera	47.9	67	8 31	- 4	—	—	—	—
Yamagata	47.9	63	8 37	+ 2	—	—	—	—
Kakioka	48.0	65	8 35	- 1	15 28	- 5	—	—
Tukubasan	48.0	65	8 34	- 2	15 27	- 6	—	—
Hokusima	48.1	64	8 35 ^a	- 2	15 30	- 4	—	—
Hatidyozima	48.2	70	8 35	- 3	—	—	—	—
Sapporo	48.3	56	8 39 ^a	+ 1	15 38	+ 1	—	—
Sendai	48.3	63	8 39	+ 1	15 38	+ 1	—	—
Mizusawa	48.4	62	8 40	+ 1	e 15 36	- 2	25.6	—
Morioka	48.4	60	8 40	+ 1	15 40	+ 2	—	—
Tyosi	48.6	66	8 38	- 3	—	—	—	—
Lemberg	49.2	313	e 7 56	-49	e 19 22	SS	e 28.4	33.9
Urakawa	49.4	57	8 50	+ 3	15 55	+ 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.
Nemuro	51.4	56	(9 3)	+ 1	(16 18)	- 2	—	—
Titizima	51.6	77	9 3	0	—	—	—	—
Königsberg	51.7	320	i 8 55	- 9	i 16 25	+ 1	e 20.7	28.6
Belgrade	51.7	306	i 9 5k	+ 1	i 16 28	+ 4	e 32.1	—
Budapest	52.5	309	9 12	+ 2	16 47	+12	30.7	35.7
Palau	52.6	103	9 12	+ 1	16 35	- 2	—	—
Upsala	53.6	325	i 9 18	0	i 16 44	- 6	e 25.7	29.4
Vienna	54.3	311	e 9 24	+ 1	e 17 2	+ 3	e 30.7	36.7
Zagreb	54.7	308	e 9 28 ^a	+ 2	e 17 9	+ 4	e 32.3	37.4
Graz	55.0	309	i 9 26	- 3	i 17 18	+ 9	e 29.7	36.8
Prague	55.4	314	9 32	0	e 17 16	+ 1	e 25.7	32.2
Laibach	55.7	308	i 9 37 ^k	+ 3	i 17 23	+ 4	e 33.0	—
Copenhagen	56.3	321	i 9 38 ^a	0	i 17 28	+ 1	30.7	—
Triest	56.3	308	i 9 38 ^a	0	i 17 24	- 3	—	33.2
Cheb	56.7	314	e 9 41	0	e 17 35	+ 3	e 32.0	37.1
Hof	57.0	314	—	—	e 17 42	+ 6	e 28.7	32.7
Jena	57.1	315	e 9 42	- 2	e 17 36	- 2	e 28.7	32.7
Padova	57.6	308	i 9 50	+ 3	i 17 48	+ 4	e 32.7	43.7
Hamburg	57.8	318	i 9 50 ^a	+ 1	i 17 49	+ 2	e 31.2	32.7
Göttingen	58.0	316	i 9 51 ^k	+ 1	i 17 48	- 1	e 30.7	38.7
Florence	58.3	306	i 10 5	+13	i 17 52	- 1	31.7	35.2
Tananarive	58.6	221	9 56	+ 1	17 48	- 9	26.9	33.7
Stuttgart	58.9	313	9 58 ^a	+ 1	18 3	+ 2	e 30.7	38.4
Chur	59.0	311	e 9 57	0	e 18 0	- 3	—	—
Karlsruhe	59.4	313	i 10 2	+ 2	i 18 12	+ 4	33.2	38.9
Zurich	59.5	311	e 10 1 ^a	0	e 18 8	- 1	—	—
Bergen	59.7	327	i 10 2	0	i 18 12	0	e 28.3	37.4
Strasbourg	59.9	313	i 10 4 ^a	0	i 18 11	- 4	e 28.7	39.2
Basle	60.2	311	e 10 5	- 1	e 18 18	- 1	—	—
Neuchatel	60.7	311	e 10 8	- 1	e 18 20	- 5	—	—
De Bilt	60.9	317	i 10 11 ^a	0	i 18 30	+ 2	e 31.7	41.0
Uccle	61.6	316	i 10 16 ^a	0	i 18 38	+ 1	29.7	35.7
Paris	63.2	313	i 10 26 ^a	- 1	i 18 56	- 1	32.7	41.7
Durham	64.3	320	10 34	0	i 19 11	0	—	41.7
Kew	64.3	317	i 10 34 ^a	0	i 19 10	- 1	29.7	37.2
Oxford	64.8	318	i 10 41	+ 4	i 19 15	- 2	e 34.5	38.3
Edinburgh	64.9	322	i 10 38	0	i 19 22	+ 3	32.7	41.2
Stonyhurst	65.0	320	i 10 40	+ 1	i 19 25	+ 5	27.7	42.8
Barcelona	65.4	306	e 10 44	+ 3	e 19 24	- 1	e 36.4	39.0
Bidston	65.5	320	i 10 42	0	i 19 26	0	26.7	—
Algiers	66.2	300	10 42	- 5	i 19 28	- 7	30.7	42.7
Tortosa	66.8	305	i 10 49	- 2	i 19 41	- 1	27.3	39.0
Rathfarnham	67.3	320	e 10 49	- 5	i 19 47	- 1	33.2	44.2
Perth	67.8	150	8 52	-125	20 12	PS	40.7	—
Scoresby Sund	68.2	340	i 11 0	+ 1	i 20 0	+ 1	—	—
Almeria	70.3	302	i 11 7	- 6	i 20 21	- 4	e 42.1	—
Reykjavik	70.9	334	11 21	+ 5	e 20 36	+ 4	e 31.3	—
Granada	71.0	303	i 11 15	- 2	i 20 47	PS	—	—
Malaga	71.8	303	i 11 20	- 2	20 36	- 7	41.5	—
San Fernando	73.2	303	e 11 32	+ 2	i 20 56	- 3	38.2	47.2
College	78.7	20	e 11 56	- 5	e 21 53	- 9	e 42.0	—
Adelaide	82.0	137	i 12 17	- 1	i 22 40	+ 3	39.1	59.1
Ivigut	82.2	339	12 18 ^a	- 1	22 33	- 6	34.7	—
Cape Town	87.5	229	11 53	-52	i 23 9	[- 8]	38.0	49.4
Melbourne	87.8	136	12 47	0	23 7	[-12]	43.7	54.4
Sitka	88.5	20	e 12 53	+ 3	e 23 16	[- 7]	e 43.7	—
Riverview	89.4	130	e 12 54	- 1	i 23 42	- 8	e 44.7	56.7
Sydney	89.4	130	e 12 24	-31	(i 23 32)	[+ 3]	55.7	60.8
Victoria	99.6	18	e 13 45	+ 3	e 25 20	- 3	e 47.3	60.4
Seattle	100.5	17	—	—	e 24 20	[- 8]	—	—

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.
East Machias	102.1	339	e 18 2	PP	i 24 31	[- 5]	e 47.6	—
Honolulu	102.9	57	—	—	e 24 22	[-18]	55.7	—
Ottawa	103.8	345	14 0	- 1	24 38	[- 0]	e 49.7	—
Vermont	104.0	344	e 14 7	+ 5	e 25 32	{+ 9}	e 42.0	—
Bozeman	104.8	11	e 18 18	PP	e 24 44	[- 5]	—	—
Oak Ridge	105.4	342	e 14 54	+45	e 25 47	{+13}	e 57.7	—
Toronto	106.2	348	e 14 6	- 6	i 24 42	[-14]	50.3	—
Ithaca	E. 106.7	345	—	—	e 24 54	[- 4]	—	—
Buffalo	106.8	347	e 14 14	- 1	—	—	—	—
Fordham	107.6	342	e 17 24	[-46]	i 24 54	[- 8]	e 42.8	—
Ukiah	108.1	21	e 18 7	[- 4]	24 54	[-10]	e 51.7	—
Ann Arbor	108.3	351	e 18 54	PP	e 25 0	[- 5]	e 53.1	68.2
Pennsylvania	108.6	346	—	—	e 25 13	[+ 6]	e 63.7	71.1
Christchurch	108.7	131	16 42	?	26 29	-11	48.2	—
Philadelphia	108.8	343	e 14 28	+ 3	i 24 58	[-10]	e 44.7	—
Chicago	109.3	354	e 18 58	PP	e 25 1	[- 9]	e 49.8	—
Wellington	109.3	128	18 54	PP	—	—	59.2	61.7
Berkeley	109.5	21	e 14 32	+ 3	i 25 4	[- 7]	—	—
Georgetown	110.2	344	e 14 23	- 9	i 25 9	[- 5]	—	—
Charlottesville	111.4	345	e 19 2	PP	e 25 14	[- 5]	e 45.7	—
Tinemaha	N. 111.4	19	e 18 35	[+13]	—	—	—	—
Cincinnati	111.5	350	e 14 34	- 4	—	—	—	—
Haiwee	112.4	19	e 18 34	[+ 9]	—	—	—	—
St. Louis	112.7	355	e 19 11	PP	e 25 16	[- 9]	e 51.8	66.1
Mount Wilson	z. 114.2	20	e 18 12	[-19]	—	—	—	—
Pasadena	z. 114.2	20	e 18 36	[+ 5]	e 25 8	[-23]	e 55.3	—
Riverside	z. 114.6	20	e 18 36	[+ 4]	—	—	—	—
Columbia	115.9	346	e 19 45	PP	e 25 29	[- 8]	e 41.7	—
Tucson	117.9	14	e 14 59	P	e 25 41	[- 2]	e 56.2	—
San Juan	124.7	324	e 20 42	PP	—	—	e 63.3	—
Rio de Janeiro	131.8	265	i 21 33	PP	—	—	—	—
La Plata	146.6	250	19 42	[+ 5]	—	—	71.5	—
La Paz	151.1	288	i 19 46	[+ 3]	i 30 30	{+ 1}	76.4	89.7
Huancayo	154.2	306	e 19 52	[+ 5]	—	—	e 78.4	—

Additional readings and note:—

Agra $P_gEN = +1m.32s.$, $S_gEN = +2m.32s.$
Bombay $P^*EN = +3m.40s.$, $P_gEN = +4m.18s.$, $S^* = +6m.16s.$, $S_gEN = +7m.1s.$
Kodaikanal $iPPE = +4m.33s.$, $iSSE = +8m.36s.$
Colombo $iP = +4m.51s.$
Hong Kong $? = +6m.13s.$, $PP = +6m.29s.$, $SE = +10m.42s.$, $SS = +11m.51s.$,
 $SSS? = +12m.42s.$
Chiufeng $i = +9m.40s.$, $iSN = +10m.53s.$, $iZ = +11m.8s.$
Nanking $iSSE = +12m.28s.$, $iSSN = +12m.39s.$, $iSSSE = +12m.42s.$
Sverdlovsk $L_q = +17.6m.$
Zi-ka-wei $iZ = +7m.35s.$, $iN = +12m.1s.$
Tiflis $iPP = +7m.47s.$, $eSS = +14m.25s.$, $S_cS = +17m.7s.$
Taihoku $S = +15m.6s.$
Heizyo $PKP, PKP = +42m.21s.$
Zinsen $eSSN = +15m.32s.$, $ePKP, PKP = +43m.26s.$
Keizyo $ePKP, PKPE = +43m.17s.$
Manila $iEZ = +8m.45s.$
Taikyū $iE = +8m.54s.$, $PKP, PKP = +42m.56s.$
Husan $? = +8m.56s.$, $ePKP, PKP = +45m.10s.$
Ksara $PP = +9m.5s.$, $S_cS = +17m.53s.$
Toyooka $PN = +8m.6s.$, $eSE = +17m.58s.$, $SNZ = +18m.10s.$
Sumoto $PZ = +8m.4s.$, $ePN = +8m.7s.$
Kobe $PZ = +8m.5s.$, $iPE = +8m.9s.$, $ePPZ = +9m.50s.$, $iSN = +14m.46s.$,
 $iSE = +14m.49s.$, $S_cS? = +18m.3s.$
Helwan $e = +10m.14s.$, $+18m.32s.$, and $+19m.30s.$
Bucharest $eE = +9m.50s.$, $iPPEN = +10m.22s.$, $PPPEN = +11m.2s.$, $iEN =$
 $+12m.5s.$, $P_cSE = +12m.58s.$, $SSEN = +18m.27s.$, $SSSEN = +19m.42s.$
Mizusawa $PN = +8m.45s.$
Nemuro readings have been *increased* by 2m.
Königsberg $eN = +9m.9s.$, $iZ = +10m.32s.$, $iPPZ = +11m.0s.$, $iE = +11m.10s.$,
 $eE = +13m.15s.$ and $+14m.19s.$, $eZ = +14m.42s.$ and $+16m.36s.$, $eN =$
 $+18m.50s.$, $eE = +18m.56s.$, $eSSN = +20m.22s.$, $eSSE = +20m.26s.$
Belgrade $eS_cSNE = +19m.3s.$

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Upsala PPE = +11m.17s., iSN = +16m.48s., iN = +19m.7s., iSSE = +20m.36s.
 Zagreb e = +9m.52s., eP_cPNE = +10m.27s., ePP = +11m.52s., ePPPP = +13m.23s., ePS = +17m.20s., eS_cS = +19m.15s., eSS = +21m.18s., eSSS = +23m.5s., e = +25m.23s.
 Graz iS_cS = +19m.22s.
 Prague ePP = +11m.43s., eSS = +21m.18s.
 Laibach iNE = +19m.34s.
 Copenhagen P_cPZ = +10m.44s., PP = +11m.46s., PPP = +12m.58s., P_cS = +14m.42s., eN = +18m.54s., iS_cS = +19m.28s., SSE = +21m.15s., SSSN = +22m.54s., L_a = +27.7m.
 Trieste iPP = +11m.45s., i = +12m.19s., +13m.2s. and +13m.13s., iPS = +18m.0s., i = +19m.16s., +19m.34s., +22m.16s., +22m.40s., and +23m.57s.
 Cheb eN = +19m.33s.
 Jena e = +13m.12s. and +26m.42s.
 Hamburg eZ = +22m.48s.
 Göttingen ePPE = +11m.48s., ePPPE = +13m.30s., iSE = +17m.53s., ePSEN = +18m.42s., iS_cSEN = +19m.42s., eSSEN = +21m.42s.
 Tananarive SSN = +21m.42s., SSE = +21m.45s.
 Stuttgart ePP = +12m.6s., ePPP = +13m.16s., eP_cS = +14m.22s., eS_cS = +19m.55s., eSSS = +23m.42s.; T₀ = 6h.19m.5s.
 Zurich e = +13m.36s. and +19m.49s.
 Bergen i = +10m.11s., PP = +12m.17s., PPP = +13m.17s., e = +19m.53s. and +24m.42s.?
 Strasbourg iPP = +12m.14s., iPPP = +13m.34s., ePPPP = +14m.54s., ePS = +18m.22s., iS_cS = +19m.51s., eSS = +22m.2s., iSSS = +24m.46s.
 De Bilt iPPZ = +12m.28s., iPPPZ = +13m.45s., e = +20m.2s.
 Uccle iPPZ = +12m.28s., iPPPZ = +13m.47s., iEZ = +14m.7s. iS_cSE = +20m.10s., SSN = +23m.12s., SSS = +25m.22s.
 Paris PS = +20m.26s., SSS = +26m.5s.
 Durham SS = +23m.4s.
 Kew iPPP = +14m.43s., eSZ = +19m.15s. iS_cSEN = +20m.29s., eSSEN = +24m.30s., iSSSN = +26m.17s.
 Oxford e = +12m.58s. and +14m.28s., i = +20m.33s. and +26m.19s.
 Edinburgh i = +13m.4s., +14m.48s., +20m.29s., and +24m.45s.
 Stonyhurst PP = +13m.6s., PPP = +14m.34s., iS_cS = +20m.40s., iSS = +23m.25s., SSS = +26m.5s.
 Bidston iPPP = +14m.35s., iSSS = +26m.17s.
 Algiers PS = +20m.34s., SS = +26m.32s.
 Rathfarnham Castle ePP = +13m.20s., ePPP = +14m.46s., ePS = +20m.17s., e = +20m.54s., eSSS = +28m.4s.
 Perth SS = +20m.57s.
 Scoresby Sund P_cP = +11m.55s., PP = +13m.39s., PPPE = +15m.0s., P_cSN = +16m.18s., eSE = +20m.10s., eS_cS = +20m.56s., SS = +24m.24s., +27m.30s.
 Reykjavik PP = +13m.55s., PPP = +15m.27s., PS = +20m.47s.
 Malaga e = +11m.29s., +11m.58s., and +12m.58s., PP = +13m.46s., e = +14m.58s., S_cS = +21m.22s., SS = +24m.42s.
 San Fernando ePP = +14m.23s., iSS = +25m.37s.
 College eSS = +26m.49s.
 Adelaide iPP = +15m.30s., iSKS = +22m.22s., i = +27m.30s., iSS = +27m.40s., i = +30m.19s. and +33m.49s.
 Ivigtut eE = +22m.40s., PS = +23m.24s., SS = +27m.12s.
 Cape Town PSN = +24m.28s., PSE = +24m.42s., SS = +29m.8s., iE = +30m.58s., eN = +35m.36s.
 Melbourne PP = +16m.16s., ? = +23m.30s., SS = +29m.14s., SSS = +33m.24s., i = +36m.0s.
 Sitka eSS = +29m.12s., eSSS = +32m.48s.
 Riverview eN = +16m.30s., eEN = +23m.21s., iN = +24m.45s.
 Sydney S is given as iP.
 Victoria PPN = +17m.45s., SKSN = +24m.23s.; T₀ = 6h.19m.20s.
 East Machias e = +32m.29s. and +39m.41s.
 Honolulu i = +24m.40s. and +25m.42s., S = +48m.2s.
 Ottawa PP = +18m.14s., PS = +27m.18s.; T₀ = 6h.19m.6s.
 Vermont e = +17m.15s., iPP = +18m.17s., iSKKS = +24m.42s. = SKS - 3s., eSS = +33m.10s.
 Bozeman eSS = +33m.21s.
 Oak Ridge iPPZ = +19m.22s., ePPN = +19m.37s., eZ = +23m.15s., ePSE = +28m.45s., ePSN = +28m.48s.
 Toronto iPPN = +18m.27s., PSN = +27m.33s., PPS = +28m.42s., SS = +33m.19s.; T₀ = 6h.19m.11s.
 Buffalo ePKP = +17m.58s., iPP = +18m.40s., ePPP = +21m.4s., iPS = +27m.56s., iPPS = +28m.58s., i = +36m.8s.
 Fordham ePP = +18m.42s., i = +18m.49s., iPPP = +21m.7s., iPS = +28m.13s., iPPS = +29m.9s., e = +31m.47s., i = +36m.47s., e = +42m.47s.
 Ukiah ePP = +18m.44s., e = +21m.3s., ePS = +28m.10s.

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Ann Arbor ePS = +28m.18s., eSS = +34m.12s.
 Christchurch iEZ = +18m.55s., S = +27m.53s., PSN = +28m.57s., SS = +34m.11s., SSS = +38m.12s.
 Philadelphia e = +17m.25s., +18m.46s., +20m.59s., +22m.28s., +24m.30s., +28m.10s., +29m.7s., and +33m.16s.
 Chicago e = +21m.21s., ePS = +28m.11s., eSS = +34m.17s., eSSS = +39m.0s., e = +39m.29s.
 Wellington PKKP? = +34m.5s.
 Berkeley iPP = +19m.0s., PPP = +21m.20s., iSKKSEN = +26m.4s., ePS = +28m.32s.
 Georgetown iPP = +19m.3s., iPS = +28m.36s., e = +34m.43s.
 Charlottesville e = +28m.42s., +33m.52s., and +37m.57s.
 Tinemaha ePPN = +19m.11s.
 Cincinnati ePKP = +18m.12s., PP = +19m.12s., PPP = +21m.44s., e = +28m.0s., PS = +28m.46s.
 St. Louis eSKKSE = +26m.29s., eN = +28m.44s., ePSE = +29m.0s., eSSE = +35m.11s.
 Mount Wilson PKPZ = +18m.38s., iPPZ = +19m.21s.
 Pasadena ePPZ = +19m.16s., iPPZ = +19m.36s., eZ = +20m.26s., iPPPZ = +22m.0s., eSKKSN = +26m.32s., iPSZ = +29m.13s., ePKKPZ = +29m.34s., ePPSZ = +30m.22s., eZ = +33m.13s., eSSZ = +40m.7s.
 Riverside iPPZ = +19m.25s., eZ = +33m.10s.
 Columbia ePPP = +22m.13s., ePS = +29m.17s., eSS = +35m.34s.
 Tucson ePP = +19m.54s., eS = +27m.5s., ePS = +29m.34s., eSS = +36m.18s.
 San Juan ePS = +30m.42s., eSS = +37m.34s.
 La Paz iE = +20m.2s., iPKP₂ = +20m.21s., ipPKP = +21m.32s., isPKP = +22m.4s., SKP = +23m.26s., iPP = +24m.10s., iSKS? = +26m.28s., iZ = +26m.56s., iSKSP = +33m.50s., iSS = +42m.48s., iSSS = +48m.37s.
 Huancayo e = +23m.49s., +26m.0s., and +42m.50s.
 Long waves were also recorded at Czernovitz.

Himalayan Earthquake of 1936 May 27d. 6h.

The shock considered above is well situated for observation by stations in Asia and Europe, and in fact by all principle observing countries of the world, with the exception of the American continent. In the latter only the two stations of Alaska, Sitka, and College come within an arcual radius of 90° from the epicentre, and are well placed for recording a good P observation. Altogether there are 120 sets of good P and S pairs scattered round in azimuth, affording as many estimates of the value of T₀. The mean of these is 6h.19m.20s., the preliminary value. Using this T₀ and calculating the epicentral distance for each station from its P observation, an epicentre is found to be situated near 28°N. 83°E. Computing distances of all the stations from this position and comparing with those deduced from P a set of residuals R can be written down for all the stations.

In this earthquake the stations have been arranged in groups according to azimuth as below. The table gives the required data about each group for the purpose of determining the equations of condition to be satisfied by the corrections x y t to be applied to longitude latitude of the epicentre, and the T₀. The weight of a group is proportional to the square root of the number of stations.

	Mean Az.	R Residual	No. of Stations	Weight of Group	$\frac{\delta \Delta}{\delta t}$	Residual Calculated	o—c
India	205	+0.20	4	4	.08	+0.33	-0.13
Dehra Dun	295	0.0	1	2	.07	-0.08	+0.08
South-East China	102	-0.35	4	4	.11	-0.41	+0.06
Japan, North China	65	-0.69	73	17	.12	-0.68	-0.01
Formosa	88	-0.25	4	4	.12	-0.53	+0.28
East Indies	143	0.0	2	3	.11	-0.05	+0.05
Tananarive	221	+0.40	1	2	.14	+0.21	+0.19
Australia	135	-0.43	3	3	.20	-0.31	-0.12
Russia	332	-0.60	8	5	.09	-0.44	-0.16
Crimea, Levant	306	+0.05	11	6	.12	-0.28	+0.33
European	311	-0.40	43	13	.14	-0.37	-0.03
Alaska	20	-1.10	2	4	.20	-0.91	-0.19

The equation of condition for one station is:—

$$\frac{\delta t}{\delta \Delta} [x \sin Az + y \cos Az - R] + t = 0$$

or applying a factor for weight μt , the equation for a group:—

$$\frac{\mu \delta t}{\delta \Delta} [x \sin Az + y \cos Az - R] + \mu t = 0$$

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For all the groups these are as follows :—

$$\begin{array}{rcl}
 -21.0x & -45.5y & +4t = +10.0 \\
 -26.0x & +12.0y & +2t = 0.0 \\
 +35.6x & -7.6y & +4t = -12.7 \\
 +128.9x & +59.5y & +17t = -97.8 \\
 +33.3x & +1.0y & +4t = -8.3 \\
 +16.4x & -21.8y & +3t = 0.0 \\
 -9.4x & -10.7y & +2t = +5.7 \\
 +10.6x & -10.6y & +3t = -6.4 \\
 -26.1x & +48.9y & +5t = -33.3 \\
 -40.5x & +29.5y & +6t = +2.5 \\
 -69.6x & +61.3y & +13t = -37.1 \\
 +5.1x & +14.1y & +3t = -16.5
 \end{array}$$

of which the solution by least squares is

$$\begin{array}{l}
 x = -.27 \text{ (whence } x \text{Sec } \delta = -0.31) \\
 y = -.43 \\
 t = -2.1
 \end{array}$$

giving the T_0 and epicentre adopted.

The column of the table headed "Residual Calculated" contains the values of $-.27 \sin Az - .43 \cos Az - 2.1 \frac{\delta \Delta}{\delta t}$ for each group.

The last column gives the difference between columns three and seven, and indicate the errors in Δ to be expected in the final determination.

May 27d. Readings also at 0h. (near Wellington), 1h. (Tifis), 2h. (Hong Kong and near Manila), 3h. (Rio de Janeiro, Ksara, Tifis, and De Bilt), 4h. (De Bilt), 6h. (near Santiago), 7h. (Andijan, Frunse, Samarkand, Mount Wilson, Pasadena, Santiago, Fresno, Lick, near Berkeley, and Branner), 8h. (near Fresno and Lick), 9h. (Agra, Andijan (2), and Frunse (2)), 12h. (Arapuni, near Wellington, near Erevan, Grozny, and Tifis), 13h. (Sverdlovsk, Tashkent, and Agra), 14h. (near Sumoto), 17h. (Sebastopol and Yalta), 18h. (Ksara), 19h. (near Berkeley, Branner, Lick, San Francisco, and Fresno), 20h. (Tashkent and Sverdlovsk), 21h. (Yalta).

May 28d. 0h. 28m. 44s. Epicentre $35^\circ.5N. 5^\circ.5W.$ (as on 1935 Oct. 18d.). R.3.

$$\begin{array}{l}
 A = +.8104, B = -.0780, C = +.5807; \quad \delta = +4; \\
 D = -.096, E = -.995; \quad G = +.578, H = -.056, K = -.814.
 \end{array}$$

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
San Fernando	1.1	330	i 0 15	- 1	i 0 30	+ 2	—	—
Malaga	1.5	35	i 0 18	- 3	—	—	—	—
Granada	2.2	42	i 0 32	+ 1	i 0 53	- 4	—	—
Almeria	2.9	61	e 0 41	0	e 1 19	+ 5	—	—
Toledo	4.5	15	0 57	- 7	—	—	—	—
Alicante	4.9	54	1 18	P*	—	—	—	—
Tortosa	N. 7.1	40	e 3 10	S	(e 3 10)	+ 9	—	—
Barcelona	8.4	43	e 3 22	S	(e 3 22)	-12	—	4.3
Triest	17.7	49	—	—	e 6 53	-24	e 8.6	11.8
Ksara	33.8	81	—	—	e 11 55	- 8	—	39.3

Additional readings :—

San Fernando $i = +22s.$ and $+39s.$

Tortosa $S?N = +3m.56s. = S_s + 8s.$

Barcelona $eS = +3m.49s.$

Long waves were also recorded at Strasbourg, Stuttgart, Paris, Cheb, Uccle, De Bilt, and Copenhagen.

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May 28d. 12h. 28m. 25s. Epicentre 22°·3N. 121°·3E. (as on 1935 Nov. 15d.). R.2.

$$A = -.4807, B = +.7906, C = +.3795; \quad \delta = +14;$$

$$D = +.854, E = +.520; \quad G = -.197, H = +.324, K = -.925.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	2.8	4	0 58	P _g	1 30	S _g	—	2.4
Hong Kong	6.6	271	1 27k	- 7	3 24	S _g	—	6.0
Manila	7.7	183	1 50	+ 1	3 21	+ S _g 5	—	—
Zi-ka-wei	8.9	0	e 2 15	+ 9	4 17	S*	5.9	8.2
Nanking	10.0	348	e 2 17	- 4	e 4 41	S*	5.4	6.7
Phu-Lien	13.7	266	3 4	- 7	—	—	e 7.0	—
Hukuoka B	13.9	33	e 3 37	+23	e 7 30	L	(e 7.5)	—
Husan	14.5	26	e 3 43	+21	—	—	e 9.0	—
Taikyu	15.1	24	e 3 38	+ 8	—	—	—	—
Keizyo	16.1	17	e 3 19	-24	e 7 21	+40	e 9.4	—
Sumoto	17.0	42	e 4 8	+14	—	—	—	—
Kobe	17.4	41	e 4 19	+20	—	—	—	—
Chiufeng	18.4	347	e 4 18	+ 7	e 7 43	+10	e 9.4	12.3
Nagoya	18.8	43	e 3 40	-36	5 4	?	—	—
Medan	28.8	234	e 5 53	- 1	—	—	—	—
Batavia	31.8	208	i 6 17k	- 4	—	—	—	—
Tashkent	47.3	307	i 8 32	+ 1	i 15 22	- 1	e 24.2	30.7
Sverdlovsk	55.6	325	i 9 44	+11	17 30	+13	33.6	35.7
Baku	61.9	306	e 10 24	+ 6	e 18 47	+ 6	31.6	40.7
Tiflis	65.6	307	e 10 43	+ 1	e 19 31	+ 4	34.6	43.0
Pulkovo	71.3	328	e 11 18	- 1	e 20 55	PS	42.1	43.9
Theodosia	71.6	311	e 11 15	- 5	—	—	—	—
Simferopol	72.6	312	e 11 26	0	—	—	—	—
Yalta	72.6	311	e 11 28	+ 2	e 20 47	- 5	—	—
Ksara	74.2	300	11 36	0	e 21 52	PS	—	—
Scoresby Sund	83.7	349	—	—	22 55	+ 1	43.6	—
Zagreb	84.2	317	e 12 35	+ 6	—	—	—	—
Stuttgart	86.8	322	e 12 43	+ 1	e 23 35	+10	e 48.6	57.6
De Bilt	87.2	326	—	—	e 23 35?	+ 6	e 45.6	56.9
Strasbourg	87.7	323	e 12 35?	-11	e 23 35?	+ 1	e 43.6	—
Edinburgh	88.8	332	—	—	e 23 50	+ 5	e 46.6	—

Additional readings —

Taihoku S? = +1m.46s.
 Hong Kong ? = +2m.55s. and +3m.42s.
 Zi-ka-wei iZ = +4m.55s., +6m.23s., +7m.7s., and +7m.23s.
 Nanking iEN = +5m.7s.
 Chiufeng iN = +4m.27s., iSZ = +7m.51s.
 Sverdlovsk L_a = +25.6m.
 Tiflis PS = +19m.49s., SS = +24m.36s.
 Pulkovo L_a = +38.6m.
 Ksara eSS = +27m.0s.

Long waves were also recorded at Bergen, Copenhagen, Upsala, Hamburg, Prague, Uccle, Paris, Kew, Rathfarnham Castle, and Granada.

May 28d. 18h. 49m. 4s. Epicentre 10°·4N. 103°·7W. N.1.

$$A = -.2263, B = -.9572, C = +.1805; \quad \delta = +2;$$

$$D = -.973, E = +.230; \quad G = -.042, H = -.176, K = -.984.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Oaxaca	N. 9.2	43	2 11	+ 1	—	—	—	—
Tacubaya	N. 9.8	23	2 23	+ 5	—	—	—	—
Guadalajara	N. 10.3	359	2 48?	+23	—	—	—	—
Merida	N. 16.9	49	3 41	-12	—	—	—	—
Tucson	22.9	345	e 5 0	0	9 18	+15	e 11.6	—
Balboa Heights	23.5	91	4 56?	- 9	—	—	—	—
La Jolla	25.9	333	e 5 26	- 2	(e 10 46)	+49	e 10.8	—
Little Rock	26.4	24	e 5 34	+ 1	19 56	- 9	e 13.4	17.9
Riverside	z. 26.9	334	e 5 31	- 6	—	—	—	—
Mount Wilson	27.4	334	1 5 38	- 4	19 49	-33	—	—

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.
Pasadena		27.4	334	i 5 39	- 3	e 10 26	+ 4	e 12.3	—
Santa Barbara	z.	28.4	332	e 5 47	- 4	—	—	—	—
Haiwee		29.0	337	e 5 51	- 5	—	—	—	—
Denver		29.3	358	e 6 9	+10	i 10 52	- 1	i 14.7	20.6
Tinemaha		29.9	336	i 6 2	- 2	—	—	—	—
Fresno	N.	30.3	333	e 6 3	- 5	—	—	—	—
St. Louis	E.	30.6	21	i 6 11	+ 1	e 11 11	- 3	i 15.1	—
Florissant		30.7	21	i 6 11k	0	i 11 7	- 9	i 14.6	—
Columbia		31.2	38	e 6 16	0	e 11 26	+ 3	e 16.0	—
Lick	E.	31.6	332	e 6 22	+ 3	e 11 24	- 5	e 15.5	18.4
	N.	31.6	332	e 6 21	+ 2	e 11 27	- 2	—	—
Berkeley		32.3	332	5 22	-63	i 11 36	- 4	—	—
Des Moines		32.3	15	e 7 36	PP	e 11 26	-14	e 16.9	—
Cincinnati		33.2	28	i 6 34	0	i 11 46	- 8	—	—
Ukiah		33.8	332	e 6 24	-15	e 12 2	- 1	16.2	—
Chicago		34.3	20	e 6 41	- 2	i 12 16	+ 5	e 17.5	—
Chicago (Loyola)		34.4	20	i 6 48	+ 4	i 12 31	+19	—	—
Charlottesville		35.5	36	e 6 56	+ 3	e 12 24	- 5	e 16.5	—
Huancayo		35.7	128	i 6 57	+ 2	i 12 42	+10	e 16.9	—
Bozeman		35.9	352	e 6 58	+ 1	e 12 40	+ 5	15.5	—
Ann Arbor		36.2	25	e 6 56	- 4	i 12 44	+ 5	e 18.5	—
San Juan		36.8	73	e 7 9	+ 4	e 12 56	+ 8	15.9	—
Georgetown		36.9	36	i 7 9	+ 3	i 12 54	+ 4	—	—
Pennsylvania		37.8	33	e 7 8	- 5	e 13 6	+ 3	e 23.0	26.9
Buffalo		38.9	30	i 7 23	0	i 13 11	- 9	—	—
Toronto		39.2	28	i 7 26	+ 1	i 13 13	-11	18.2	—
Ithaca		39.7	32	i 7 32	+ 3	i 13 44	+12	e 19.9	—
Fordham		40.0	36	i 7 32	0	i 13 39	+ 3	e 21.8	—
Seattle		40.5	342	—	—	e 13 46	+ 2	e 17.1	—
Victoria		41.6	341	e 7 43	- 2	i 14 6	+ 6	e 19.0	24.3
Saskatoon		41.8	357	e 7 50	+ 3	e 14 4	+ 1	e 20.4	—
Ottawa		42.2	30	e 7 52	+ 2	i 14 18	+ 9	e 20.1	—
Oak Ridge		42.4	36	i 7 53	+ 1	i 14 27	+16	e 22.9	—
Vermont		42.8	32	i 7 58	+ 3	i 14 26	+ 8	e 21.1	—
La Paz		44.0	127	i 8 5a	0	i 14 34	- 2	20.6	23.6
East Machias		46.2	36	i 8 23	+ 1	e 15 23	+16	e 22.3	—
Sitka		52.8	339	e 9 12	0	i 16 46	+ 7	e 22.9	—
Honolulu		53.3	289	i 9 16	0	i 16 52	+ 6	22.3	—
La Plata		62.4	138	10 20	- 1	18 32	-15	29.9	—
College		62.5	341	e 10 18	- 4	e 18 45	- 3	e 26.1	—
Ivigtut		64.6	26	10 36	0	19 20	+ 5	30.9	—
Rio de Janeiro		67.5	120	e 10 56	+ 1	e 19 56	+ 5	i 31.9	—
Scoresby Sund		77.3	20	11 52a	- 2	21 46	0	34.9	—
Rathfarnham		85.8	37	—	—	i 24 3	PS	41.6	44.9
Edinburgh		87.0	34	e 12 56?	+13	i 23 19	[+ 6]	41.9	50.6
Bidston		87.7	36	—	—	e 23 26	- 8	e 36.9	45.8
Stonyhurst		87.9	36	12 56?	+ 9	—	—	—	—
Durham		88.2	35	—	—	23 25	[+ 4]	—	51.4
Bergen		88.9	28	e 13 2	+10	23 39	- 7	42.9	—
Oxford		89.2	38	e 13 14	+20	i 23 53	+ 5	e 42.3	54.2
San Fernando		89.5	53	e 13 11	+16	23 54	+ 3	40.9	—
Kew		89.8	38	e 12 58	+ 2	i 23 59	+ 5	e 36.9	43.2
Malaga		90.8	52	13 2	+ 1	23 37	[0]	42.1	—
Wellington		90.9	228	13 13	+11	23 35	[- 3]	41.7	—
Granada		91.3	52	13 6	+ 3	24 6	- 2	—	—
Almeria		92.3	52	16 50	PP	e 25 30	PS	e 45.3	—
Paris		92.3	40	e 15 56?	?	i 23 55	[+ 9]	42.9	49.9
De Bilt		92.8	35	e 13 10	0	e 23 51	[+ 2]	e 43.9	52.2
Uccle		92.8	37	e 13 14	+ 4	i 24 26	+ 4	43.9	—
Christchurch		92.9	226	23 47	SKS	(23 47)	[- 2]	38.3	42.6
Tortosa	N.	93.4	47	e 15 56?	?	—	—	e 36.9	46.4

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Hamburg	94.9	33	e 16 56?	PP	e 25 29	PS	e 44.9	47.9
Copenhagen	95.3	30	16 44	PP	e 24 44	- 1	44.9	—
Upsala	95.6	26	—	—	e 23 56	[- 8]	e 44.9	57.3
Strasbourg	95.7	38	e 13 27	+ 3	e 24 9	[+ 5]	e 39.9	49.9
Göttingen	95.8	35	—	—	e 24 8	[+ 3]	—	55.9
Stuttgart	96.5	38	e 13 27	0	e 24 12	[+ 4]	e 45.9	49.9
Jena	96.9	35	—	—	e 26 26	PS	e 40.9	60.9
Cheb	97.8	36	e 17 26	PP	e 26 29	PS	e 46.9	54.9
Prague	98.9	35	e 17 17	PP	—	—	e 39.9	53.9
Königsberg	99.6	28	e 17 50	PP	e 24 26	[+ 3]	e 48.1	—
Triest	100.6	39	e 14 1	+15	i 25 30	- 2	e 47.8	54.1
Pulkovo	100.7	22	e 13 48	+ 1	25 26	- 7	46.9	58.0
Graz	101.0	38	e 22 5	?	—	—	e 51.9	56.8
Zagreb	101.9	39	e 14 11	+19	e 24 39	[+ 4]	e 48.5	52.6
Budapest	102.9	36	e 18 56?	PP	—	—	e 48.9	65.9
Moscow	106.3	21	18 32	PP	24 56	[0]	52.9	64.3
Bucharest	108.6	35	19 8	PP	24 56	[-11]	57.9	60.9
Riverview	108.6	238	—	—	e 34 2	SS	e 44.6	57.7
Sydney	108.6	238	—	—	e 27 29	PS	56.9	60.4
Sverdlovsk	111.5	9	e 18 8	[-14]	27 5	?	47.9	59.3
Sebastopol	112.6	32	e 19 28	PP	—	—	—	—
Simferopol	112.6	31	e 19 27	PP	e 23 19	PPPP	55.1	—
Husan	112.8	315	e 28 57	PS	—	—	e 51.5	—
Yalta	113.0	31	e 19 19	PP	e 23 9	PPPP	56.9	—
Melbourne	113.5	234	—	—	e 29 7	PS	52.3	67.8
Chiufeng	117.7	327	e 19 55	PP	—	—	e 50.8	63.0
Adelaide	118.9	236	—	—	i 24 43	[-64]	52.1	66.8
Semipalatinsk	119.1	356	e 20 4	PP	—	—	—	—
Grozny	119.3	25	e 19 56	PP	—	—	59.2	—
Tiflis	120.2	27	20 15	PP	25 50	[- 1]	51.9	61.7
Zi-ka-wei	z. 120.3	316	e 20 11	PP	i 30 13	PS	—	—
Ksara	121.2	40	e 18 56	[+ 8]	—	—	58.4	67.9
Nanking	121.5	318	19 56	PP	28 0	{+34}	e 57.3	65.1
Cape Town	122.0	124	—	—	i 37 44	SS	59.2	66.4
Baku	123.5	24	20 41	PP	—	—	55.9	65.0
Frunse	126.7	2	e 19 26	[+26]	—	—	e 68.4	—
Tashkent	127.8	7	20 54	PP	28 24	{+16}	e 56.4	73.1
Andijan	128.7	4	e 19 36	[+32]	—	—	e 68.9	—
Manila	129.5	298	19 8	[+ 2]	—	—	58.9	—
Hong Kong	130.8	311	21 16	PP	31 28	PS	—	66.1
Agra	E. 142.4	357	—	—	41 23	SS	e 57.2	—
Batavia	149.9	276	19 45	[+ 3]	23 54	PP	—	—
Medan	154.0	302	e 20 33	[+46]	—	—	—	—
Colombo	162.5	349	20 26	[+29]	—	—	—	83.2

Additional readings:—

Little Rock ipPEN = +6m.16s., iPPEN = +6m.42s., isSN = +11m.22s., iSS = +12m.16s.

Riverside i = +5m.34s.

Denver epPEN = +7m.0s., iPPN = +7m.16s., isSEN = +12m.40s., iSSE = +13m.0s., iEN = +13m.56s.

Tinemaha eN = +8m.47s.

St. Louis ipPE = +7m.6s., ipPE = +7m.23s., isPE = +7m.40s., isSE = +13m.0s., iSSE = +13m.26s.

Florissant ipP = +7m.2s., ipPEN = +7m.6s., iPPEN = +7m.20s., isP = +7m.28s., isSEN = +12m.48s., iSSEN = +13m.4s., iScSE = +16m.5s.

Columbia e = +6m.59s.

Berkeley eSN = +11m.39s., eSE = +11m.43s.

Cincinnati ipP = +7m.34s., iPP = +7m.48s., isP = +7m.57s., ipPP = +8m.30s., iScP = +12m.46s., isS = +13m.24s., iSS = +14m.7s.

Ukiah is = +12m.9s., SS = +14m.32s., SSS = +15m.41s.

Chicago (Loyola) iPP = +7m.55s., iSS = +14m.28s.

Charlottesville e = +5m.36s., +8m.4s., +11m.44s., +12m.32s., and +14m.24s.

Bozeman ePP = +8m.0s., ePcP = +9m.22s., eS = +11m.57s., SS = +14m.57s.

Ann Arbor iPP = +8m.14s., eSS = +14m.56s.

Georgetown ipP = +8m.24s.

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Pennsylvania e = +8m.49s.
Buffalo iPP = +8m.50s., i = +12m.32s. and +13m.42s., iSS = +15m.28s.
Toronto iPP = +8m.37s.; T_0 = 18h.49m.27s.
Ithaca ePPEN = +9m.8s.
Fordham ipP = +9m.1s., iSS = +16m.31s.
Seattle e(S) = +14m.6s. and +14m.26s.
Saskatoon SSS = +17m.30s.; T_0 = 18h.49m.18s.
Ottawa PP = +9m.20s., e = +14m.2s., SS = +17m.10s.
Oak Ridge ePPE = +9m.23s., P_cP = +9m.36s., iPPPZ = +9m.57s., eSSN = +17m.17s., iSSZ = +17m.29s., iSSE = +17m.51s., iE = +19m.25s.
Vermont PP = +9m.38s., eSS = +7m.34s.
La Paz iN = +8m.37s., ipP = +9m.26s., isS = +10m.4s., ipPP = +10m.54s., iSN = +14m.38s., iN = +14m.52s., iPS = +15m.5s., isSZ = +15m.34s., isSN = +16m.3s., iScSN = +16m.46s., iSSN = +17m.43s., iSSS = +18m.29s.
Sitka i = +16m.22s.
College eSS = +22m.52s.
Ivigtut +20m.33s. and +26m.56s.
Rio de Janeiro eSN = +20m.4s.
Scoresby Sund +14m.50s. and +26m.51s.
Rathfarnham Castle i = +29m.53s.
Edinburgh i = +23m.30s. and +29m.21s.
Bidston iS = +23m.56s., eSS = +29m.36s.
Bergen SS = +30m.4s.
Oxford iSKS = +23m.28s.
San Fernando PP = +16m.46s., SKS = +23m.34s., SS = +29m.50s.
Kew eSKSEN = +23m.35s., eSSEN = +29m.53s.
Malaga PP = +16m.25s., PS = +25m.17s.
Wellington i = +24m.4s., SS? = +31m.6s.
Paris e = +23m.22s.
De Bilt eZ = +16m.57s. and +18m.59s., eSS = +30m.39s.
Uccle ePPZ = +16m.54s., iSKSE = +23m.51s., SSE = +30m.28s.
Christchurch S = +30m.47s.
Hamburg eE = +31m.14s.
Copenhagen SKKS = +24m.2s., PS = +25m.44s., PPS = +26m.8s., SS = +31m.8s., L_q = +40.9m.
Upsala SS = +31m.12s.
Strasbourg ePP = +17m.21s., ePS = +26m.6s., eSS = +31m.24s.
Göttingen eEN = +26m.8s. and +31m.20s.
Stuttgart ePPEZ = +17m.19s., e = +23m.26s., ePS = +25m.56s., eSS = +31m.32s.; T_0 = 18h.48m.55s.
Jena e = +31m.38s.
Prague e = +26m.38s.
Königsberg eE = +28m.12s., eN = +32m.16s., eE = +32m.44s.
Triest eZ = +16m.38s., e = +17m.9s., iPP = +17m.57s., iSKS = +24m.32s., iPS = +26m.54s., i = +27m.6s., PPS = +27m.38s., i = +28m.38s. and +31m.27s., iSS = +32m.36s.
Pulkovo PP = +17m.55s., SKS = +24m.31s., SS = +32m.20s.
Zagreb eNE = +22m.16s., eNW = +32m.44s.
Moscow ePPS = +28m.47s., SS = +33m.32s.
Riverview eE = +34m.26s.
Sverdlovsk PP = +19m.24s., PS = +28m.49s.
Melbourne e = +30m.6s. and +35m.26s.
Adelaide e = +35m.58s.
Chiufeng iEN = +29m.31s., iZ = +29m.50s., SS = +36m.19s.
Tiflis PS = +29m.56s., e = +32m.26s., eSS = +36m.4s.
Zi-ka-wei iZ = +37m.20s.
Ksara iPP = +20m.23s., e = +23m.3s., PS = +30m.23s., SS = +37m.9s., SSS = +41m.43s.
Nanking PSE = +29m.52s., PPS = +31m.12s., SS = +35m.42s., SSS = +41m.8s., iN = +42m.35s.
Cape Town e = +41m.32s.
Baku PS = +30m.36s., SS = +37m.56s., SSS = +42m.26s.
Tashkent PS = +30m.56s., SS = +38m.14s., SSS = +42m.56s.
Manila PPZ = +21m.13s., SKPEN = +22m.28s., PS = +31m.24s.
Hong Kong SS = +38m.29s.
Agra SSE = +46m.36s.
Long waves were also recorded at Manzanillo, Santiago, Ferndale, Toyooka, Hukuoka B, Phu-Lien, Apia, Perth, Tananarive, Bombay, Hyderabad, Kodaikanal, Theodosia, Algiers, and Barcelona.

May 28d. Readings also at 4h. (Sebastopol and Yalta), 7h. (Simferopol and Yalta), 8h. (Tacubaya), 9h. (Apia (2), Tacubaya, Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, Ksara, Sebastopol, Simferopol, Theodosia, Yalta, and Tiflis), 11h. (Tiflis), 12h. (Sebastopol), 14h. (Göttingen), 15h. (Tacubaya), 16h. (Oak Ridge), 21h. (near Branner, Lick, and Fresno), 22h. (Mount Wilson, Pasadena, Riverside, Wellington, Sumoto, and near Nagoya (2)), 23h. (Sumoto),

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May 29d. 14h. 42m. 50s. Epicentre 56°·8N. 132°·7W. N.3.

A = -·3713, B = -·4024, C = +·8368; $\delta = +2$;
D = -·735, E = +·678; G = -·567, H = -·615, K = -·548.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sitka	1·5	280	i 0 22	+ 1	i 0 40	+ 1	—	—
Tinemaha	21·9	148	i 4 50	0	—	—	—	—
Haiwee	22·9	148	e 5 0	0	—	—	—	—
Mount Wilson	z. 24·7	149	i 5 18	+ 1	—	—	—	—
Pasadena	z. 24·7	149	i 5 21	+ 4	—	—	—	—
Riverside	z. 25·1	149	e 5 18	- 3	—	—	—	—
Chicago	32·2	98	e 7 11	PP	—	—	e 17·5	—
Florissant	32·9	105	e 13 46	SSS	e 17 34	(+34)	i 19·0	20·1
Scoresby Sund	43·6	28	—	—	18 46	(+42)	25·2	—

Additional readings:—

Sitka iP = +27s.

Chicago e = +8m.22s.

Long waves were also recorded at College, Bozeman, and Columbia.

May 29d. Readings also at 1h. (Bucharest), 5h. (near Trieste), 6h. (near Berkeley, Lick, Branner, San Francisco, Fresno, Andijan, and Frunse), 7h. (near Samarkand, La Paz, and near Santiago), 9h. (Grozny and Tiflis), 21h. (Drome), 22h. (Christchurch).

May 30d. 7h. 8m. 38s. Epicentre 25°·7N. 90°·5E. (as on 1933 March 6d.). X.

A = -·0079, B = +·9010, C = +·4337; $\delta = -4$;
D = +1·000, E = +·009; G = -·004, H = +·434, K = -·901.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	3·7	211	1 3	P*	1 44	S*	—	—
Hyderabad	13·9	236	5 52	S	(5 52)	+ 3	7·2	8·0
Phu-Lien	15·6	105	3 22?	-14	—	—	—	—
Bombay	N. 17·7	251	—	—	e 6 59	-18	—	—
Almata	20·8	332	e 4 35	- 3	—	—	—	—
Andijan	21·2	320	e 4 42	0	e 8 34	+ 4	—	—
Frunse	21·5	325	e 4 47	+ 2	—	—	—	—
Tashkent	23·4	317	e 4 59	- 6	e 9 7	- 5	e 12·4	16·0
Samarkand	24·0	311	e 5 32	PP	e 9 37	+14	—	—
Chiufeng	25·7	50	e 5 22	- 4	e 9 51	- 2	e 12·4	16·2
Sverdlovsk	37·7	334	e 7 21	+ 9	e 13 10	+ 8	19·4	—
Copenhagen	62·4	322	—	—	24 22?	?	37·4	—

Additional readings:—

Calcutta P, E = +1m.15s.

Hyderabad S = +6m.54s.

Tashkent e = +3m.8s.

Chiufeng ePEN = +5m.29s.

Long waves were also recorded at Tiflis, Baku, and Pulkovo.

May 30d. 10h. 7m. 41s. Epicentre 37°·2N. 121°·7W. (as on May 16d.). R.3.

A = -·4186, B = -·6777, C = +·6046; $\delta = +4$.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Lick	0·1	17	e 0 1	0	i 0 4	+ 1
Branner	0·4	299	i 0 6	0	i 0 15	+ 5
Berkeley	0·8	326	i 0 14	+ 3	i 0 27	+ 6
San Francisco	0·9	313	i 0 14	+ 1	i 0 27	+ 4
Fresno	N. 1·6	106	e 0 19?	- 4	—	—

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May 30d. 20h. 40m. 5s. Epicentre 34°·0N. 135°·5E. (as on 1932 May 24d.). X.

$$A = -.5913, B = +.5811, C = +.5592; \delta = +2.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Sumoto	0.6	304	i 0 8	- 1	0 17	+ 2	0.3
Kobe	0.7	339	0 9k	- 1	i 0 19	+ 1	0.3
Nagoya	1.7	45	e 0 25	+ 1	0 45	+ 1	—
Toyooka	1.7	340	e 0 25	+ 1	0 38	- 6	0.7

May 30d. Readings also at 1h. (La Paz), 3h. (near Hukuoka B), 4h. (near Medan), 6h. (Manila, Mount Wilson, and Pasadena), 8h. (La Paz, Tifis, and near Piatigorsk), 9h. (Phu-Lien and Santiago), 12h. (near Santiago), 15h. (Scoresby Sund, Copenhagen, Sverdlovsk, Moscow, Pulkovo, Branner, Fresno, and near Lick), 16h. (Tifis, Grozny, Tashkent, Simferopol, Yalta, Hamburg, De Bilt, Strasbourg, Stuttgart, Scoresby Sund, and Tucson), 17h. (Frunse and near Samarkand).

May 31d. Readings at 1h. (near Almeria and Granada), 2h. (Almeria, Alicante, Malaga, Toledo, and near Algiers), 3h. (Copenhagen, Sverdlovsk, Tashkent, Hong Kong and near Manila), 4h. (near Fresno), 6h. (near Basle, Chur, Neuchatel, and Zurich), 8h. (Granada), 12h. (Samarkand), 14h. (Almata and near Frunse), 15h. (Frunse and Samarkand), 17h. (Belgrade), 19h. (Yalta), 20h. (La Paz), 21h. (Belgrade).

June 1d. 11h. 20m. 51s. Epicentre 23°·2S. 179°·4W. (as on 1934 Oct. 10d.). R.3.

$$A = -.9191, B = -.0096, C = -.3939; \delta = -1;$$

$$D = -.010, E = +1.000; G = +.394, H = +.004, K = -.919.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Wellington	18.7	194	7 51	S	(7 51)	+11	i 22.5	27.2
Christchurch	21.4	196	e 4 41	- 3	e 8 24	-10	—	12.3
Riverview	27.9	241	e 9 51	?	e 10 27	- 3	i 13.7	—
Manila	69.5	297	11 14	+ 6	16 2	?	—	19.8
Sumoto	E. 72.1	322	e 11 22	- 1	—	—	—	—
Mizusawa	E. 72.4	330	(11 28)	+ 3	11 28	P	—	—
Batavia	72.7	271	10 8	?	i 20 15	-38	—	—
Nanking	80.9	311	12 42	+29	21 55	-30	—	—
La Jolla	Z. 81.6	49	e 12 16	0	—	—	—	—
Pasadena	81.7	47	i 12 17k	0	i 21 34	-60	—	—
Mount Wilson	Z. 81.8	47	i 12 18	+ 1	—	—	—	—
Riverside	Z. 82.1	48	i 12 20	+ 1	—	—	—	—
Haiwee	82.9	46	i 12 23	0	—	—	—	—
Tinemaha	83.3	46	i 12 25	0	i 21 50	-60	—	—
Chiufeng	87.2	316	e 12 46	+ 2	22 9	-80	—	—
La Paz	101.9	114	18 32	PP	i 23 43	[-52]	—	—
Tashkent	120.7	305	i 20 25	PP	i 26 16	[+24]	—	54.2
Sverdlovsk	125.5	324	i 15 11	P	i 28 13	{+21}	47.2	—
Scoresby Sund	130.9	10	21 15	PP	—	—	—	—
Baku	135.4	305	e 21 48	PP	(36 9?)	SS	36.2	—
Moscow	137.6	330	e 18 49	[-30]	—	—	—	—
Grozny	137.9	310	e 22 3	PP	—	—	—	—
Pulkovo	138.0	338	i 19 22	[+ 3]	—	—	—	—
Tifis	138.9	307	e 19 26	[+ 6]	e 26 38	SKS	—	—
Theodosia	144.3	317	e 19 34	[+ 2]	—	—	—	—
Simferopol	145.2	317	i 19 36	[+ 2]	—	—	—	—
Yalta	145.2	316	i 19 37	[+ 3]	—	—	—	—
Sebastopol	145.7	317	e 19 39	[+ 4]	—	—	—	—
Copenhagen	146.4	348	i 19 36k	[+ 0]	—	—	—	—
Edinburgh	147.2	4	e 20 9?	[+32]	—	—	—	—

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.
Ksara	147.4	297	i 19 43	[+ 5]	—	—	—	—
Hamburg	z. 148.8	349	e 19 41 _a	[+ 1]	—	—	—	—
De Bilt	z. 150.9	354	e 19 43	[+ 0]	—	—	—	—
Jena	151.0	346	e 19 50	[+ 7]	—	—	—	—
Kew	z. 151.7	1	i 19 50	[+ 6]	—	—	—	—
Uccle	152.1	355	19 53	[+ 9]	e 29 24	{-70}	—	—
Stuttgart	153.6	347	e 19 48 _k	[+ 1]	e 26 54	SKS	—	—
Strasbourg	153.9	349	e 19 49	[+ 2]	—	—	e34.2	—
Paris	154.3	358	e 19 46	[- 1]	—	—	—	—
Toledo	162.9	12	e 20 47	[+50]	—	—	—	—
Granada	165.6	14	e 21 1	?	i 24 46	?	—	—
Malaga	165.8	17	21 2	?	24 47	?	—	—
Almeria	166.1	10	—	—	e 43 20	SS	—	—

Additional readings:—

Wellington iPP? = +9m.58s., iPPP? = +10m.28s., S = +15m.14s., iSS = +19m.3s.

Sumoto eN = +11m.25s.

Nanking PP = +15m.53s., SN = +21m.58s., SS = +27m.22s.

Pasadena iZ = +14m.31s.

Mount Wilson iZ = +14m.33s.

Riverside eZ = +14m.32s.

Haiwee eNZ = +14m.37s.

Chiufeng SS?EN = +26m.30s.

La Paz iE = +27m.59s.

Tashkent i = +22m.0s., +23m.27s., and +24m.50s., e = +30m.11s., +33m.3s.,

+35m.45s., and +40m.21s.

Sverdlovsk e = +16m.57s. and +19m.5s., i = +20m.12s.

Scoresby Sund +22m.33s.

Moscow e = +19m.19s. and +21m.25s.

Pulkovo i = +21m.54s., +22m.53s., and +24m.18s., e = +25m.20s. and

+26m.25s.

Tiflis e = +22m.4s. and +33m.16s.

Simferopol e = +22m.7s.

Yalta e = +23m.17s.

Sebastopol e = +22m.21s.

Copenhagen +22m.12s., e = +26m.9s.

Ksara pPKP = +20m.47s., ePP = +22m.8s., ipPP = +23m.13s.

De Bilt iZ = +19m.50s., eZ = +22m.16s.

Jena iP = +19m.53s.

Kew eZ = +21m.23s.

Uccle eZ = +22m.27s. and +23m.27s.

Stuttgart ePKPZ = +19m.56s. and +20m.8s., ePP = +22m.23s., ePKS =

+23m.33s.

Strasbourg iZ = +20m.10s., eSKPZ = +23m.34s.

Paris PKP₂ = +20m.7s.

June 1d. Readings also at 0h. (La Paz), 1h. (Mizusawa and Apia), 3h. (Samarkand), 5h. (Medan and Taikyū), 7h. (Haiwee, Mount Wilson, Pasadena, Riverside, and Tinemaha), 8h., 9h., and 11h. (near Sumoto), 12h. (Christchurch), 13h. (Apia and Wellington), 14h. (Tashkent, Erevan, Sverdlovsk, Tiflis, Frunse, and near Andijan), 15h. (Andijan, Frunse, Samarkand, Erevan, Tiflis (2), Piatigorsk, and near Grozny), 17h. (near Santiago), 19h. (Andijan and Samarkand), 21h. (near Batavia), 23h. (near Branner).

June 2d. 12h. 25m. 14s. Epicentre 39°·8N. 74°·3E. (as on 1931 April 26d.). X.

A = +·2079, B = +·7396, C = +·6401; $\delta = -4$;
D = +·963, E = -·271; G = +·173, H = +·616, K = -·768.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Andijan	1.8	299	e 0 22	- 4	e 0 48	+ 2	0.9
Frunse	3.1	4	e 0 42	- 2	11 26	+ 6	1.5
Almata	4.0	29	e 0 59	+ 2	e 1 53	S*	—
Tashkent	4.1	293	e 0 58	0	i 2 5	S ₂	3.1
Samarkand	5.6	272	e 1 24	+ 4	e 3 6	S ₂	3.5

Additional readings:—

Andijan eP₂ = +27s.

Frunse eP₂ = +59s., e = +1m.10s.

Almata eP₂ = +1m.7s.

Tashkent e = +1m.44s.

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June 2d. 13h. Epicentre probably near Formosa, though not recorded in that island.

Manila P? = 29m.33s., S? = 31m.12s., M = 34m.25s.
 Nanking eE = 29m.36s., L = 32m.53s., M = 34m.2s.
 Chiufeng ePN = 31m.13s., N = 39m.18s.
 Zi-ka-wei eZ = 31m.45s., iZ = 34m.0s.
 Sverdlovsk eP = 36m.45s., L = 53m.
 Tashkent e = 46m.0s. and 47m.43s., L = 50m.54s., M = 53m.24s.
 Long waves were also recorded at Hong Kong, Phu-Lien, Pulkovo, Copenhagen, and Stuttgart.

June 2d. Readings also at 0h. (Malabar), 1h. (Apia), 2h. (Mizusawa), 4h. (Mizusawa and Triest), 6h. (near Nagoya and Sumoto), 7h. (San Juan), 8h. (La Paz and San Juan), 9h. (Bozeman), 12h. (near La Paz), 13h. (Prague), 16h. (Oak Ridge and near Wellington), 17h. (Frunse and near Samarkand), 18h. (Manila), 20h. (near Tiflis), 22h. (Bucharest).

June 3d. 2h. 55m. 41s. Epicentre 41°·6N. 142°·1E. (as on 1931 July 19d.). R.1.

$$A = -\cdot5901, B = +\cdot4594, C = +\cdot6639; \quad \delta = +3;$$

$$D = +\cdot614, E = +\cdot789; \quad G = -\cdot524, H = +\cdot408, K = -\cdot748.$$

Correction for depth of focus 0·0075 has been applied.

	Corr. for Focus	Δ	Az.	P.		O-C.		S.		O-C.		L.	M.
				n.	s.	s.	s.	m.	s.	s.	m.		
Urakawa	+0·2	0·7	43	0	7	-	6	0	20	-	3	—	—
Hakodate	+0·2	1·0	280	0	13k	-	4	0	24	-	7	—	—
Muroran	+0·2	1·1	311	0	15	-	3	0	37	+	4	—	—
Aomori	+0·2	1·3	232	0	15k	-	6	0	33	-	6	—	—
Obihiro	+0·2	1·5	32	0	23	-	1	0	49	+	5	—	—
Sapporo	+0·2	1·5	339	0	22k	-	2	0	49	+	5	—	—
Miyako	+0·2	2·0	183	0	28a	-	3	0	49	-	8	—	—
Morioka	+0·1	2·1	201	0	26	-	5	0	51	-	6	—	—
Kusiro	+0·1	2·2	51	0	23	-	10	0	48	-	11	—	—
Akita	+0·1	2·5	218	0	34	-	3	1	3	-	4	—	—
Mizusawa	+0·1	2·6	197	i 0	37	-	2	i 1	8	-	1	—	—
Haboro	+0·1	2·8	354	0	43a	+	2	—	—	—	—	—	—
Nemuro	+0·1	3·1	54	0	43	-	3	1	18	-	4	—	—
Isinomaki	+0·1	3·2	190	0	49	+	2	1	17	-	8	—	—
Sendai	+0·1	3·5	198	0	49a	-	2	1	26	-	6	—	—
Yamagata	+0·1	3·6	203	0	52	-	1	1	31	-	4	—	—
Hokusima	0·0	4·1	198	0	55	-	3	1	47	+	2	—	—
Niigata	0·0	4·3	214	1	16	+	15	2	6	+	16	—	—
Mito	0·0	5·4	194	1	13	-	4	2	11	-	7	—	—
Takada	0·0	5·4	215	1	26	+	9	2	59	?	—	—	—
Kakioka	0·0	5·6	196	1	16	-	4	2	17	-	6	—	—
Tokubasan	0·0	5·6	197	1	16	-	4	2	17	-	6	—	—
Nagano	0·0	5·8	213	1	24	+	2	2	38	+	10	—	—
Wazima	0·0	5·8	225	1	22	+	0	2	36	+	8	—	—
Kumagaya	0·0	5·9	203	1	23	-	1	2	41	+	10	—	—
Oiwake	0·0	5·9	209	1	25	+	1	2	43	+	12	—	—
Tyosai	0·0	6·0	189	1	21	-	4	2	40	+	7	—	—
Husiki	0·0	6·2	221	1	47	+	19	3	4	+	26	—	—
Toyama	0·0	6·2	219	1	29	+	1	2	41	+	3	—	—
Tokyo	0·0	6·3	198	1	28	-	2	2	41	0	—	—	—
Yokohama	0·0	6·5	198	1	32	0	—	2	56	+	10	—	—
Hunatu	0·0	6·6	205	1	35	+	1	3	5	+	17	—	—
Kanazawa	0·0	6·6	222	1	24	-	10	3	10	+	22	—	—
Kiyosumi	0·0	6·6	193	1	56	+	22	3	15	+	27	—	—
Kohu	0·0	6·6	207	1	39	+	5	3	3	+	15	—	—

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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.
Takayama	0-0	6-6	217	1	27	-7					
Iida	0-0	6-9	210	2	1	+23	3	13	+17		
Ito	0-0	7-0	201	1	55	+16	3	9	+10		
Mera	0-0	7-0	196	1	38	-1	3	16	+17		
Misima	0-0	7-0	202	1	40	+1	3	3	+4		
Gihu	0-0	7-5	216	1	46	0	3	18	+7		
Nagoya	0-0	7-6	214	e1	48	0	3	40	+26		5-2
Ibukisan	0-0	7-6	218	1	51	+3	3	21	+7		
Hamamatu	0-0	7-7	208	2	0	+11	3	21	+5		
Sikka	0-0	7-7	5	1	50	+1	3	27	+11		
Hikone	0-0	7-8	218	1	55	+4					
Kameyama	-0-1	8-1	215	1	53	0	3	40	+16		
Miyadu	-0-1	8-1	224	1	52	-1					
Tu	-0-1	8-1	215	2	1	+8	3	49	+25		
Kyoto	-0-1	8-2	219	1	56	+1					
Toyooka	z. -0-1	8-3	226	1	58	+2					
Osaka	-0-1	8-6	219	2	8	+8	3	59	+23		
Hatidyozima	-0-1	8-7	193	2	0	-2	3	30	-9		
Kobe	-0-1	8-8	221	e2	4	+1					5-1
Wakayama	-0-1	9-1	219	2	10	+3	4	7	+18		
Sumoto	-0-1	9-2	220	e2	10	+1	e4	17	+26		5-1
Hamada	-0-1	10-3	233	2	28	+4	4	38	+20		
Koti	-0-1	10-5	223	2	27	+1	4	59	+36		
Taikyu	-0-1	12-0	246	2	50	+3					
Husan	-0-1	12-1	242	2	47	-1	e5	10	+7		
Hukuoka B	-0-1	12-2	233	e3	3	+13	e5	24	+19		
Keizyo	E. -0-1	12-3	256	e2	50	-1	i5	17	+9	i6-5	
Zinsen	-0-1	12-6	256	e3	19?	+24					
Kumamoto	-0-1	12-6	230	2	50	-5					
Unzendake	-0-1	12-9	231	2	58	-1					
Zi-ka-wei	z. -0-3	19-5	245	e4	19	-2	8	26	+36	10-0	11-2
Chiufeng	-0-3	19-7	274	e4	17	-6	i7	59	+5		
Nanking	-0-3	20-9	251	4	47	+11				10-3	11-9
Hong Kong	-0-5	30-3	239				11	7	+6		16-3
Semipalatinsk	-0-7	42-6	304	e8	6	+18					
Almata	-0-7	46-9	296	e8	29	+7					
Frunse	-0-8	48-6	296	e8	22	-13	e15	36	+6		
Andijan	-0-8	51-0	294	e8	39	-14	e16	21	+17		
Sverdlovsk	-0-8	51-9	317	9	12	+12	i16	38	+22	23-3	33-6
Sitka	-0-8	52-4	43				e16	28	+5	e26-3	
Tashkent	-0-8	52-8	296	e11	24	PP	16	32	+4	e26-2	32-8
Agra	E. -0-8	53-6	276	9	12	0	16	34	-5		
Samarkand	-0-8	55-1	295	e9	26	+3					
Moscow	-0-9	63-7	322	e10	22	-2	e17	53	-59	e31-3	40-6
Pulkovo	-0-9	64-3	329	10	27	-1	19	1	+1	32-3	39-0
Baku	-0-9	65-9	306	10	41	+2				33-3	40-8
Grozny	-0-9	66-7	308	e10	46	+2	19	40	+10	41-5	
Scoresby Sund	-0-9	67-3	355	10	48k	0	19	48	+11	31-3	
Piatigorsk	-0-9	67-8	310	e10	48	-3	e19	49	+6	37-8	
Tiflis	-1-0	68-2	307	e10	54	+1	e19	54	+7	34-3	42-6
Erevan	-1-0	69-3	305	e11	6	+6					
Sotchi	-1-0	70-0	312	e11	19	+14					
Theodosia	-1-0	71-5	314	11	15	+1	e20	37	+10		
Bergen	-1-0	72-1	340				e21	20	+46	e37-3	
Simferopol	-1-0	72-2	316	e11	19	+1	e20	44	+9	e40-3	
Yalta	-1-0	72-5	314	e11	17	-3	e20	41	+2	e40-3	
Sebastopol	-1-0	72-7	316	e11	21	0	e20	50	+9		
Tinemaha	-1-0	72-7	56	e11	24	+3	e20	43	+2		
Haiwee	-1-0	73-3	57	e11	26	+1					
Copenhagen	-1-0	73-8	334	11	28	0	20	55	+1	34-3	
Mount Wilson	z. -1-0	74-5	58	i11	33	+1					
Pasadena	z. -1-0	74-5	58	e11	31	-1				e34-1	
Riverside	z. -1-0	75-1	58	e11	34	-1					
Za Jolla	-1-0	75-9	59	i11	57	+17					
Hamburg	-1-0	76-3	334	e11	41a	-1				e37-3	47-3

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.			
Ivigtut	-1.0	76.9	6	—	—	—	21	13	-17	36.3	—
Prague	-1.0	77.5	330	e 14	49	?	e 21	43	+ 6	—	34.3
Jena	N. -1.0	77.9	331	e 11	55	+ 4	—	—	—	—	—
Edinburgh	-1.0	78.1	341	—	—	—	e 21	51	+ 7	e 37.3	—
Cheb	-1.0	78.3	331	—	—	—	e 22	19?	+33	e 40.3	43.8
De Bilt	-1.0	79.1	335	e 11	58	0	e 21	55	0	e 37.3	49.4
Stonyhurst	-1.0	79.8	340	e 11	44	-17	e 21	49	-14	42.3	50.3
Tucson	-1.0	80.3	56	e 12	9	+ 5	e 22	7	- 1	e 33.3	—
Zagreb	-1.0	80.3	326	e 12	4	0	e 22	19?	+11	e 38.3	43.1
Bidston	-1.0	80.4	341	e 12	9	+ 4	e 22	22	+13	—	—
Uccle	-1.0	80.5	336	e 12	5	0	e 22	25	+15	37.3	49.8
Stuttgart	-1.0	80.6	331	e 12	5	- 1	e 22	47	+36	e 41.3	50.9
Strasbourg	-1.0	81.3	332	e 12	10	+ 1	e 22	19?	0	e 38.3	—
Triest	-1.0	81.3	327	e 12	9	0	22	29	+10	e 39.3	44.9
Kew	-1.0	81.4	338	e 12	10	0	e 22	25	+ 5	e 37.3	42.4
Oxford	-1.0	81.4	338	—	—	—	22	24	+ 4	e 41.3	48.6
Zurich	-1.0	82.0	331	e 11	29	-44	—	—	—	—	—
Paris	-1.0	82.8	335	e 12	11	- 6	—	—	—	42.3	48.3
Florence	-1.0	83.9	326	i 12	19	- 4	—	—	—	—	—
Florissant	-1.0	86.5	38	i 12	50	+14	i 23	8	- 5	e 39.5	46.0
St. Louis	E. -1.0	86.7	38	—	—	—	e 23	0	-15	—	46.4
Ottawa	-1.0	86.7	26	—	—	—	e 23	1	-14	e 39.3	—
Little Rock	-1.1	88.8	43	e 9	5	?	e 24	8	?	—	—
Oak Ridge	Z. -1.1	90.6	24	e 12	54	- 1	—	—	—	—	—
Philadelphia	-1.1	91.7	28	—	—	—	e 23	40	[- 3]	e 39.6	—
Toledo	-1.1	92.9	335	e 13	2	- 4	e 24	7	- 6	e 43.5	57.5
Granada	-1.1	95.2	334	17	9	PPP	—	—	—	38.3	—

Additional readings :—

Mera S = +3m.33s.
 Misima +3m.16s.
 Zi-ka-wei iZ = +4m.38s. and +5m.15s.
 Tashkent ePPP = +12m.15s., SS = +20m.55s.
 Agra PSE = +17m.10s., SSSSE = +21m.22s.
 Baku PS = +20m.8s., SS = +24m.49s.
 Scoresby Sund +20m.18s.
 Tiflis P = +10m.57s., e = +19m.59s., eSKS = +20m.38s., L_a = +30.3m.
 Copenhagen 21m.31s.
 Mount Wilson iZ = +11m.50s.
 Pasadena i = +11m.51s.
 Riverside iZ = +11m.55s.
 Ivigtut +22m.1s.
 Tucson eSS = +27m.19s.
 Stuttgart eSKS = +22m.19s.
 Triest i = +22m.55s., e = +31m.43s.
 Kew ePSE = +23m.1s.
 Florence ?S = +13m.52s.
 Florissant iPZ = +12m.55s., eSEN = +22m.57s. = SKS, iPSE = +23m.44s.,
 iPSN = +23m.49s., eSSE = +28m.48s., eSSN = +28m.55s.
 St. Louis iPSE = +23m.45s.
 Philadelphia eS = +23m.51s.
 Long waves were also recorded at Bombay, Christchurch, Upsala, Graz, Durham,
 and San Fernando.

June 3d. 9h. 15m. 17s. Epicentre 40°3N. 126°0W. N.1.

Epicentre and Time at Origin given in Bulletin of the Seismological Society of America, Vol. 27, No. 2, page 93.

$$A = -.4483, B = -.6170, C = +.6468; \quad \delta = +1;$$

$$D = -.809, E = +.588; \quad G = -.380, H = -.523, K = -.763.$$

	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
	°	°	m.	s.	s.	m.	s.	s.	m.	m.
Ferndale	1.4	79	i 0	19	- 1	i 0	32	- 4	—	—
Ukiah	2.4	119	e 0	32	- 2	e 1	7	S*	—	—
San Francisco	3.7	132	i 0	53	0	i 1	35	0	—	—
Berkeley	3.8	128	e 0	51k	- 3	i 2	2	S _e	—	—
Branner	4.1	132	e 0	59	+ 1	i 1	47	+ 2	—	—

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		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Lick		4.5	129	e 1 4	0	e 1 54	- 1	—	—
Fresno	N.	6.0	124	i 1 27	+ 2	i 2 36	+ 3	—	—
Tinemaha		6.8	115	i 1 38	+ 1	i 2 21	-32	—	—
Haiwee		7.5	121	i 1 48	+ 2	—	—	—	—
Seattle		7.8	19	e 1 40	-11	3 23	+ 4	3.8	—
Victoria		8.3	13	e 1 51	- 7	i 3 33	+ 2	i 5.0	6.5
Mount Wilson	Z.	8.8	131	i 2 4	- 1	i 3 43	- 1	—	—
Pasadena	Z.	8.8	132	e 2 2	- 3	i 3 39	- 5	—	—
Riverside	Z.	9.3	129	e 2 7	- 4	—	—	—	—
La Jolla	Z.	10.2	133	e 2 19	- 5	—	—	—	—
Bozeman		12.2	59	e 2 45	- 6	e 5 9	+ 1	i 7.3	—
Tucson		14.6	119	e 3 23	0	e 6 23	+18	—	—
Denver		16.1	85	e 3 34	- 9	e 6 48	+ 7	9.2	10.7
Sitka		17.8	343	e 4 9	+ 5	i 7 35	+15	i 8.7	—
Des Moines		24.3	75	e 5 16	+ 3	e 9 36	+ 8	e 13.0	—
Little Rock		27.1	92	e 5 45	+ 6	e 10 16	- 1	e 14.2	17.6
Madison		27.2	71	i 5 51	+11	e 10 42	+24	e 17.2	19.9
Florissant		27.3	82	e 5 41	0	i 10 23	+ 3	e 12.8	17.2
St. Louis		27.5	82	i 5 43	0	i 10 23	- 1	i 12.1	17.4
College		27.6	339	e 5 52	+ 8	e 10 30	+ 5	e 12.9	—
Chicago (Loyola)		28.7	75	e 5 54	+ 1	—	—	—	—
Chicago		28.8	75	e 6 7	+13	e 10 49	+ 4	e 13.1	—
Tacubaya	N.	31.0	125	6 22	+ 8	—	—	—	—
Ann Arbor		31.5	72	e 6 25	+ 7	e 11 37	+ 9	e 16.0	—
Honolulu		33.0	244	e 7 43	+71	e 13 43	+112	15.7	—
Toronto		34.3	69	i 6 45	+ 2	12 11	0	16.5	—
Buffalo		34.9	70	i 6 51	+ 3	—	—	—	—
Columbia		36.0	85	—	—	e 12 31	- 5	e 16.2	—
Pennsylvania		36.1	73	—	—	e 10 18	?	e 19.3	—
Charlottesville		36.4	78	e 7 5	+ 4	e 12 39	- 3	e 16.9	—
Ottawa		36.6	65	e 7 4	+ 1	12 49	+ 4	e 17.7	—
Ithaca		36.7	70	i 7 13	+ 9	e 12 49	+ 2	e 19.7	—
Georgetown		37.2	76	e 7 10	+ 2	i 12 59	+ 5	i 18.7	—
Philadelphia		38.3	74	e 7 19	+ 1	e 13 11	0	i 17.6	—
Vermont		38.5	66	i 7 22	+ 3	e 13 19	+ 5	e 19.1	—
Fordham		39.0	72	i 7 20	- 4	e 13 28	+ 7	e 21.1	—
Oak Ridge		40.2	68	i 7 33	- 1	e 13 45	+ 6	e 20.7	—
Ivigut		49.9	38	8 52	+ 1	16 13	+14	22.7	—
San Juan		55.4	94	e 9 33	+ 1	e 17 21	+ 6	e 28.2	—
Scoresby Sund		56.8	23	9 43k	+ 1	17 38	+ 4	26.7	—
Huancayo		70.3	126	—	—	e 20 17	- 8	e 28.9	—
Bergen		71.7	23	11 44	+23	20 59	+18	e 37.7	—
Edinburgh		72.3	30	e 11 43?	+18	e 21 1	+13	e 33.7	40.0
Rathfarnham		73.0	33	e 11 26	- 3	e 21 17	+20	34.7	44.0
Bidston		74.2	32	e 12 19	+43	e 22 9	+58	—	—
Upsala		75.5	19	e 11 43	0	e 21 24	- 2	e 31.7	45.6
Oxford		76.2	32	11 52	+ 5	21 37	+ 3	—	44.9
Kew		76.8	32	e 11 51a	+ 1	e 21 51	+10	e 35.7	45.5
Copenhagen		77.7	23	11 57	+ 1	21 54	+ 3	32.7	—
Pulkovo		78.0	12	e 12 2	+ 5	21 51	- 3	36.7	45.2
La Paz	N.	78.2	123	12 1	+ 3	22 3	+ 7	44.7	55.9
De Bilt		78.4	28	e 12 1	+ 2	e 22 3	+ 5	e 34.7	42.6
Hamburg		78.8	25	e 12 2	+ 1	e 22 13	+10	e 38.7	44.7
Uccle		79.1	30	e 12 5	+ 2	22 8	+ 2	e 34.7	—
Paris		80.0	32	e 12 6	- 2	e 22 16	0	38.7	46.7
Chiufeng		81.8	317	e 12 22	+ 5	22 45	+10	e 37.5	45.9
Strasbourg		82.2	29	e 12 21	+ 2	e 22 48	+ 9	e 34.7	—
Cheb		82.5	26	e 12 43?	+22	e 22 55	+13	e 41.7	47.7
Stuttgart		82.5	38	e 12 23	+ 2	e 22 55	+13	e 37.7	—
Sverdlovsk		82.7	356	12 35	+13	i 22 52	+ 8	e 34.2	42.3

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Moscow	83.0	10	e 12 27	+ 4	22 38	- 9	35.2	51.3
Prague	83.2	24	e 12 5	-19	e 22 49	0	e 39.7	44.7
Toledo	84.0	41	12 28	0	—	—	e 40.4	52.9
San Fernando	85.4	45	—	—	23 19	+ 7	42.2	—
Nanking	86.1	309	—	—	i 23 28	+10	e 40.2	—
Malaga	86.2	43	12 40	+ 1	—	—	—	—
Granada	86.3	43	e 12 51	+11	23 21	+ 1	—	—
Semipalatinsk	86.4	344	e 12 54	+14	—	—	—	—
Triest	86.8	27	12 43	+ 1	e 23 21	- 4	e 41.8	48.2
Zagreb	87.4	25	e 12 47	+ 2	e 23 26	- 5	e 42.4	49.7
Florence	87.5	29	13 13	+28	—	—	—	46.7
Simferopol	92.9	14	e 13 20	+ 9	e 23 20	[-29]	51.6	—
Yalta	93.4	14	e 13 21	+ 8	e 23 22	[-30]	39.7	—
Grozny	96.0	6	e 13 39	+14	—	—	—	—
Andijan	97.2	346	—	—	e 28 10	?	—	—
Tashkent	97.2	349	e 12 37	?	i 24 15	[+ 3]	e 42.7	63.8
Manila	97.2	296	e 21 56	?	e 27 3	?	—	—
Tiflis	97.6	7	e 14 36	+64	e 24 16	[+ 2]	e 43.7	61.5
Baku	99.2	3	—	—	e 24 24	[+ 2]	43.7	62.6
Christchurch	100.4	221	11 12	?	21 31	?	e 40.8	48.0
Ksara	104.0	16	e 14 15	+13	—	—	—	—

Additional readings and notes:—

Ukiah iP = +33s. and +35s., i = +37s., +42s., and +48s.
 Branner eE = +1m.9s., iN = +1m.42s.
 Lick eN = +2m.18s., iE = +2m.27s., and +3m.19s.
 Fresno iN = +3m.25s.
 Seattle eS = +3m.31s.
 Victoria iSN = +3m.39s.
 Pasadena i = +2m.8s., iSZ = +3m.45s.
 Riverside iZ = +2m.13s.
 Bozeman i = +2m.53s., e = +5m.48s., and +6m.27s., i = +6m.48s.
 Tucson iP = +3m.28s., e = +6m.13s. and +6m.43s., i = +7m.59s., +8m.2s., and +8m.48s.
 Denver ipP = +3m.45s., iPP = +3m.57s., iSS = +7m.16s.
 Des Moines e = +6m.15s.
 Little Rock ipPEN = +5m.57s., ePPN = +6m.29s., iPPPN = +6m.40s., iN = +7m.26s., eSE = +10m.27s., eSSN = +11m.40s.; T₀ = 9h.15m.20s.
 Florissant ipP = +5m.52s., isPEZ = +6m.11s., ipPEZ = +6m.17s., iN = +10m.33s., iE = +10m.39s., iSS = +10m.46s., iSSN = +11m.44s.
 St. Louis ipPEN = +5m.54s., iPPEN = +6m.26s., iPPPEN = +6m.37s., isSEN = +10m.47s., eSS = +11m.37s.
 College eSS = +11m.53s.
 Chicago (Loyola) ePP = +6m.40s., e = +8m.10s.
 Ann Arbor ePP = +7m.25s., e = +9m.55s., eSSN = +13m.43s.
 Toronto iSE = +12m.15s., SSE = +14m.8s.; T₀ = 9h.15m.19s.
 Buffalo iSS = +14m.53s., i = +16m.15s.
 Ottawa PPE = +8m.15s., SSSN = +15m.15s.; T₀ = 9h.15m.18s.
 Ithaca ipPE = +8m.27s., eEN = +17m.19s.
 Georgetown eP = +7m.17s., PP = +8m.32s., iSS = +16m.17s.
 Philadelphia i = +7m.50s., ePP = +8m.46s., iSS = +15m.46s.
 Vermont ePP = +8m.52s., e = +13m.12s., eSSS = +17m.8s., e = +17m.42s.
 Fordham ipP = +7m.29s., iPP = +9m.2s., e = +17m.38s.
 Oak Ridge eSSZ = +16m.37s., eSSSN = +17m.15s.
 San Juan e = +9m.54s. and +18m.7s.
 Scoresby Sund +13m.16s. and +22m.7s.
 Edinburgh e = +8m.13s.
 Rathfarnham Castle e = +16m.5s.
 Kew ePPZ = +14m.56s.
 Uccle ePSN = +22m.45s.—
 Strasbourg ePPZ = +15m.38s., ePS = +23m.33s., eSS = +28m.28s.
 Stuttgart ePPZ = +15m.43s.
 Sverdlovsk i = +12m.42s., SS = +28m.7s.
 Moscow SS = +28m.25s.
 Prague ePS = +23m.43s.?
 Triest S = +23m.32s., i = +23m.40s.
 Zagreb eP = +12m.54s., ePNE = +13m.4s., ePPNE = +16m.15s., eSKSNW = +23m.32s., eSS = +28m.19s.
 Tashkent iS = +24m.44s., i = +26m.32s. and +28m.16s., SS = +31m.57s., SSS = +35m.43s.
 Tiflis e = +17m.54s., +17m.58s., +24m.58s., and +39m.13s.
 Baku e = +32m.18s.
 Christchurch eSS = +27m.43s., eSSS = +31m.11s.
 Ksara e = +18m.33s., ePS = +27m.33s., ePPS = +28m.25s.
 Long waves were also recorded at Hong Kong, Bombay, Durham, Stonyhurst, Graz, Göttingen, Jena, Belgrade, Algiers, Melbourne, and Wellington.

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June 3d. 10h. 23m. 36s. Epicentre 43°·8N. 146°·5E. R.1.

(as on 1935 Oct. 2d. and near the position 43°·6N. 146°·7E., given in Bulletin of Central Meteorological Observatory, Tokio).

A = -·6019, B = +·3984 C = +·6921; $\delta = +1$;
D = +·552, E = +·834; G = -·577, H = +·382, K = -·722.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nemuro	0·8	235	0 12	+ 1	0 26	+ 5	—	—
Kusiro	1·7	242	0 16	- 8	0 40	- 4	—	—
Obihiro	2·6	250	0 41	+ 4	1 23	+16	—	—
Asahigawa	3·0	270	0 48	+ 5	—	—	—	—
Urakawa	3·2	239	0 49	+ 3	1 27	+ 5	—	—
Sapporo	3·8	261	0 59	+ 5	1 42	+ 5	—	—
Muroran	4·4	252	1 4	+ 1	2 6	+13	—	—
Hakodate	4·7	247	1 14	+ 7	2 20	+20	—	—
Aomori	5·2	237	1 14	0	2 16	+ 3	—	—
Morioka	5·7	226	1 19	- 2	2 20	- 5	—	—
Mizusawa	6·2	223	e 1 23	- 5	i 2 30	- 8	—	—
Akita	6·3	232	1 31	+ 1	2 41	0	—	—
Sendai	7·0	220	1 41	+ 2	2 51	- 8	—	—
Yamagata	7·2	222	1 47	+ 5	2 57	- 7	—	—
Hukusima	7·6	219	1 42	- 6	2 59	-15	—	—
Niigata	8·1	226	2 44	+49	—	—	—	—
Kakioka	9·0	214	2 0	- 7	3 33	-16	—	—
Tukubasan	9·0	215	2 1	- 6	3 35	-14	—	—
Tyosi	9·2	210	2 14	+ 4	3 36	-18	—	—
Maebasi	9·3	220	2 15	+ 4	3 49	- 7	—	—
Kumagaya	9·4	218	2 12	- 1	3 49	-10	—	—
Nagano	9·6	224	2 8	- 8	4 13	+10	—	—
Oiwake	9·6	222	2 16	0	4 21	+18	—	—
Tokyo	9·6	215	2 19	+ 3	3 49	-14	—	—
Wazima	9·7	232	2 16	- 1	4 5	- 1	—	—
Yokohama	9·9	214	2 34	+15	—	—	—	—
Hunatu	10·2	218	2 43	+19	4 11	- 7	—	—
Kohu	10·2	220	2 25	+ 1	3 43	-35	—	—
Misima	10·4	216	2 36	+10	4 12	-11	—	—
Gihu	11·3	225	2 38	- 1	4 11	-34	—	—
Nagoya	11·3	224	e 2 49	+10	e 4 47	+ 2	—	—
Chiufeng	22·8	272	e 4 58	- 1	e 9 6	+ 5	—	14·7
Nanking	24·6	251	5 24	+ 8	9 55	+21	e 14·2	16·3
Frunse	50·6	295	e 8 52	- 4	—	—	—	—
Samarkand	57·1	296	e 9 44	0	e 17 44	+ 6	—	—
Moscow	63·9	323	i 10 26	- 5	e 15 1	?	—	—
Grozny	67·9	309	e 10 56	- 2	—	—	—	—
Tiflis	69·4	308	e 11 3	- 4	—	—	—	—
Mount Wilson	z. 70·6	60	e 11 15	+ 1	—	—	—	—
Erevan	70·6	307	e 10 25	-49	—	—	—	—
Sotchi	71·0	313	e 11 14	- 3	—	—	—	—
Riverside	z. 71·2	60	e 11 19	+ 1	—	—	—	—
Copenhagen	73·2	335	12 30	+60	—	—	—	—
Stuttgart	z. 80·2	333	e 12 3	- 6	—	—	—	—
Zagreb	80·2	327	e 12 7	- 2	—	—	—	—

Additional readings :—

Mizusawa iPE = +1m.26s.

Zagreb eSNW = +12m.27s., eNW = +12m.36s.

Long waves were also recorded at Tashkent, Seattle, and Bozeman.

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June 3h. 10h. 54m. 38s. Epicentre 40°·3N. 126°·0W. (as at 9h.). R.3.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Ferndale	1.4	79	e 0 20	0	i 0 35	- 1
San Francisco	3.7	132	e 0 52	- 1	e 1 35	0
Berkeley	3.8	128	0 53	- 1	—	—
Branner	4.1	132	e 0 58	0	e 1 47	+ 2
Lick	4.5	129	e 1 4	0	e 1 56	+ 1
Fresno	N. 6.0	124	e 1 27	+ 2	e 2 35	+ 2

Additional readings :—

Branner ePN = +1m.1s.

Lick eEN = +1m.59s., eN = +2m.18s.

Fresno eN = +2m.41s.

June 3d. Readings also at 3h. (Andijan, Frunse, and Samarkand), 4h. (Andijan, Frunse, near Samarkand, and Tashkent), 9h. (Bergen and Simferopol), 11h. (Jena), 13h. (Yalta), 14h. (Prague and near Tananarive), 17h. (Huan-cayo, La Paz, La Plata, and Rio de Janeiro), 18h. (San Juan, Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, Florissant, Oak Ridge, Paris, and Sverdlovsk), 21h. (Frunse (2) and near Andijan (2)).

June 4d. 13h. 8m. 37s. Epicentre 35°·5N. 141°·0E. (as on 1935 Feb. 19d.). X.

A = -·6327, B = +·5123, C = +·5807; $\delta = -3$;
D = +·629, E = +·777; G = -·451, H = +·365, K = -·814.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	3.4	265	e 0 48	- 1	2 26	?	—	—
Mizusawa	E. 3.6	1	e 0 55	+ 4	i 1 41	S*	—	—
	N. 3.6	1	e 0 59	+ 8	e 1 45	S*	—	—
Kobe	4.9	262	e 1 11	+ 1	e 2 27	S*	—	4.4
Toyooka	Z. 5.0	273	1 12	+ 1	—	—	—	—
Sumoto	Z. 5.2	258	e 0 32	-42	e 2 55	S _g	—	3.8
	N. 5.2	258	e 0 37	-37	e 3 14	S _g	—	3.8
Hukuoka	B. 9.0	260	e 2 8	+ 1	e 5 26	S _g	—	—
Taikyu	10.1	270	2 25	+ 3	—	—	—	—
Zi-ka-wei	Z. 16.9	261	e 3 50	- 3	7 36	+37	—	12.1
Nanking	E. 18.8	265	4 13	- 3	8 50	+68	e 11.9	13.2
Chiufeng	20.0	291	e 4 28	- 2	8 17	+ 1	—	13.5
Manila	27.6	226	6 56	+72	11 53	+88	—	—
Frunse	50.7	300	e 8 54	- 3	—	—	—	—
Andijan	52.9	298	e 8 40	-33	—	—	—	—
Tashkent	54.9	300	i 8 51	-37	i 17 45	+37	e 28.3	35.4
Sverdlovsk	55.9	319	i 9 43	+ 8	e 17 36	+15	27.4	—
Samarkand	57.1	298	e 8 22	-82	—	—	—	—
Baku	68.7	306	—	—	e 20 14	+ 9	e 36.2	44.8
Pulkovo	69.1	329	e 13 35	PP	e 20 4	- 6	39.4	44.6
Tifis	71.3	308	e 11 20	+ 1	20 37	0	37.4	41.2
Oak Ridge	E. 96.5	23	e 17 15	PP	—	—	—	—

Additional readings :—

Kobe eN = +3m.7s., eS?E = +3m.17s., eS?Z = +3m.34s.

Toyooka ePN = +1m.21s.

Sumoto eN = +2m.16s., eSE = +2m.58s.

Nanking iSSN = +10m.12s.

Tashkent e = +6m.6s., +17m.58s., and +24m.18s.

Samarkand e = +8m.27s.

Pulkovo e = +16m.0s. and +23m.43s.

Tifis e = +11m.33s. and +30m.28s.

Oak Ridge eZ = +17m.21s.

Long waves were also recorded at Hong Kong, Bergen, Copenhagen, Edinburgh, Kew, De Bilt, Uccle, Strasbourg, Stuttgart, and Paris.

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June 4d. 18h. 25m. 22s. Epicentre 36°·2N. 137°·1E. R.3.
(given by Nagoya and as on 1935 April 15d.).

A = -·5911, B = +·5493, C = +·5906; $\delta = -6$;
D = +·681, E = +·732; G = -·433, H = +·402, K = -·807.

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Nagoya	1·1	182	i 0 17 ^a	+ 1	0 41	+13	0·9
Toyooka	2·0	250	e 0 26	- 3	0 53	+ 2	0·9
Kobe	2·2	224	e 0 31	0	† 1 2	+ 5	1·3
Sumoto	2·6	224	e 0 40	+ 3	e 1 17	S*	1·4
Mizusawa E.	4·3	48	e 1 1	0	e 2 20	S _g	—
Hukuoka B	6·1	245	e 1 29	+ 2	3 12	S _g	—

Additional readings:—

Kobe iP = +34s., iE = +58s.

Long waves were also recorded at Nanking, Chiufeng, Tashkent, Sverdlovsk, and Wellington.

June 4d. Readings also at 0h. (Tiflis), 2h. (La Paz, Malabar, and near Batavia), 7h. (Nagoya and near Algiers), 12h. (San Juan), 14h. (near Nagoya), 15h. (Bucharest and Tiflis), 16h. (San Juan and near Nagoya), 17h. (De Bilt), 21h. (De Bilt and near Hukuoka B), 23h. (near Nagoya and Sumoto).

June 5d. 14h. 37m. 40s. Epicentre 0°·4N. 123°·7E. N.2.

A = -·5548, B = +·8319, C = +·0070; $\delta = -9$;
D = +·832, E = +·555; G = -·004, H = +·006, K = -1·000.

Depth of focus 0·030.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	-0·8	14·4	349	i 3 13 ^a	+ 3	i 6 27	+46	—	—
Batavia	-1·0	18·1	248	4 27	+32	8 17	+73	—	—
Kosyun	-1·3	21·8	353	4 32	- 3	—	—	—	—
Taito	-1·4	22·5	355	4 40	- 1	—	—	—	—
Arisan	-1·5	23·3	354	4 47	- 2	8 50	+ 8	—	—
Karenko	-1·5	23·7	356	4 51	- 2	—	—	—	—
Hong Kong	-1·5	23·8	337	4 50	- 4	8 51	- 1	—	11·3
Isigakizima	-1·5	24·0	2	4 54	- 2	—	—	—	—
Medan	-1·6	25·2	279	i 5 51	+45	10 1	+45	—	—
Phu-Lien	-1·7	26·4	322	e 5 16	- 1	(10 20?)	+44	10·3	—
Zi-ka-wei z.	-2·1	30·9	357	i 5 52 ^k	- 2	—	—	—	—
Nanking	-2·1	32·0	351	i 6 1	- 3	i 11 5	+ 2	—	—
Titizima	-2·1	32·0	33	5 3	-61	—	—	—	—
Miyazaki	-2·1	32·4	13	6 6	- 2	11 4	- 5	—	—
Nagasaki	-2·2	32·9	10	6 11	0	—	—	—	—
Perth	-2·2	33·2	192	12 20	S	(12 20)	+60	i 13·7	14·8
Hukuoka B	-2·2	33·8	11	e 6 15	- 4	10 2	-87	—	—
Husan	-2·3	35·1	7	e 6 45	+15	e 9 1	?	—	—
Sumoto	-2·3	35·5	17	i 6 34 ^a	0	—	—	—	—
Wakayama	-2·3	35·5	17	6 33	- 1	11 51	- 3	—	—
Taikyu	-2·3	35·8	6	6 34	- 2	—	—	—	—
Kobe	-2·3	35·9	17	e 6 34	- 3	e 11 58	- 2	—	—
Osaka	-2·3	36·0	17	6 41	+ 3	11 59	- 2	—	—
Tu	-2·4	36·4	18	6 42	+ 2	—	—	—	—
Kameyama	-2·4	36·5	17	6 42	+ 1	12 7	- 1	—	—
Hamamatu	-2·4	36·7	20	6 48	+ 5	—	—	—	—
Ibukisan	-2·4	36·9	17	6 43	- 2	—	—	—	—
Nagoya	-2·4	36·9	19	6 45	0	(12 18)	+ 4	12·3	—
Gihu	-2·4	37·1	19	6 47 ^a	+ 1	—	—	—	—
Zinsen n.	-2·4	37·2	3	e 6 46	- 1	e 12 22	+ 4	—	—

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	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Keizyo	-2.4	37.3	4	6	47	-1	—	—	—	—	—
Misima	-2.4	37.5	21	6	49	-1	—	—	—	—	—
Hunatu	-2.4	37.8	21	6	54	+1	—	—	—	—	—
Kohu	-2.4	37.9	21	6	54	+1	—	—	—	—	—
Adelaide	-2.4	38.0	160	i 6	56	+2	i 15	13	?	—	21.6
Toyama	-2.4	38.4	18	6	59	+1	—	—	—	—	—
Oiwake	-2.4	38.5	20	6	58	-1	—	—	—	—	—
Maebasi	-2.4	38.7	20	7	0	0	—	—	—	—	—
Nagano	-2.4	38.7	19	7	1	+1	12	39	-2	—	—
Wazima	-2.5	38.9	17	7	3	+2	—	—	—	—	—
Kakioka	-2.5	39.0	21	6	52	-10	—	—	—	—	—
Chiufeng	-2.5	40.3	351	i 7	13a	0	—	—	—	—	—
Hukusima	-2.5	40.4	22	7	15a	+1	13	6	+1	—	—
Calcutta	-2.5	40.9	305	7	2	-16	13	24	+12	19.4	22.8
Sendai	-2.6	41.0	21	7	20	+2	13	14	+2	—	—
Mizusawa	E. -2.6	41.9	21	(e 7	28)	+2	e 7	28	P	—	—
Riverview	-2.7	42.9	146	i 7	34k	0	i 17	3	SS	—	—
Sydney	-2.7	42.9	146	e 4	56	?	—	—	—	23.1	23.8
Melbourne	-2.7	43.0	155	e 7	33	-2	e 16	52	SS	—	—
Sapporo	-2.8	45.5	18	7	56	+2	—	—	—	—	—
Agra	E. -3.2	51.3	305	8	38	+1	16	56	+82	—	—
Almata	-3.6	59.8	322	e 9	39	+2	—	—	—	—	—
Frunse	-3.6	61.0	320	9	51	+5	e 17	45	+3	—	—
Andijan	-3.6	61.5	317	e 9	53	+3	e 18	5	+17	—	—
Christchurch	-3.6	61.9	142	i 9	53	+1	i 18	5	+12	—	—
Tashkent	-3.7	63.8	17	10	9	+4	i 18	30	+13	e 31.2	37.0
Samarkand	-3.7	64.7	314	e 11	20	+69	e 20	38	+129	—	—
Sverdlovsk	-3.9	75.3	330	i 11	26	+7	i 20	46	+8	33.3	—
Baku	-4.0	77.5	311	e 12	15	pP	21	5	+2	39.3	—
Grozny	-4.0	81.0	314	11	54	+2	e 21	45	+2	—	—
Erevan	-4.0	81.5	311	e 12	8	+13	—	—	—	—	—
Tiflis	-4.0	81.5	312	11	54	-1	e 21	51	+3	e 48.3	—
Piatigorsk	-4.1	83.0	315	12	20	+18	e 22	20	+16	—	—
Moscow	-4.2	87.5	326	12	23	-2	22	22	[-55]	44.8	59.3
Simferopol	-4.2	89.4	315	e 11	45	-49	e 23	3	-7	—	—
Yalta	-4.2	89.4	314	e 12	31	-3	e 23	1	-9	—	—
Sebastopol	-4.2	89.8	314	e 17	14	PP	—	—	—	—	—
Pulkovo	-4.2	91.4	330	12	40	-4	23	18	-11	45.3	52.3
Copenhagen	-4.4	101.4	328	18	38	PP	e 25	11	+11	50.3	—
Bergen	—	103.2	334	—	—	—	e 26	20?	+25	—	—
Cheb	—	103.2	321	—	—	—	e 23	20?	[-81]	—	—
Hamburg	—	103.5	326	e 18	58	PPP	i 23	59	[-44]	—	—
Stuttgart	—	105.6	321	e 18	13	PP	e 24	4	[-49]	e 62.3	—
Scoresby Sund	—	105.6	349	20	20	?	24	6	[-47]	—	—
Strasbourg	—	106.5	321	e 18	20?	PP	—	—	—	e 27.3	—
De Bilt	—	106.7	326	18	20	PP	e 24	15	[-43]	e 54.3	—
Uccle	—	107.7	324	e 18	28	PP	e 24	18	[-45]	e 53.3	—
Edinburgh	—	109.3	331	—	—	—	e 24	20?	[-50]	—	—
Paris	—	109.6	322	e 18	36	PP	—	—	—	62.3	—
Kew	z. —	110.1	326	e 12	20?	?	—	—	—	—	—
Pasadena	z. —	112.7	52	e 18	12	[-14]	—	—	—	—	—
Mount Wilson	z. —	112.8	52	e 18	15	[-11]	—	—	—	—	—
Granada	—	118.6	314	e 18	38	[-4]	—	—	—	—	—
Little Rock	N. —	131.3	40	e 22	8	PPP	—	—	—	—	—
Oak Ridge	z. —	134.9	15	i 18	54	[-21]	—	—	—	—	—
San Juan	—	158.9	26	—	—	—	e 36	6	?	—	—

Additional readings and note :—

Batavia PEN = +4m.38s.
 Hong Kong ? = +5m.53s., SS = +10m.4s.
 Zi-ka-wei iZ = +6m.51s. and +7m.4s.
 Nanking iN = +7m.1s., S? = +13m.9s.
 Kobe PN = +6m.38s.
 Nagoya S = +8m.30s.
 Zinsen ePPP? = +8m.16s.
 Adelaide i = +8m.20s., e = +12m.22s., i = +16m.45s.

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Chiufeng $i = +8m.13s.$ and $+9m.25s.$, $iP_cS = +12m.13s.$, $i = +14m.20s.$ and $+16m.59s.$
 Calcutta PPE = $+8m.28s.$, SSE = $+16m.0s.$, SSSE = $+16m.50s.$
 Melbourne $i = +8m.51s.$ and $+22m.10s.$
 Agra PSE = $+17m.26s.$, SSE = $+21m.6s.$
 Christchurch $e = +21m.5s.$
 Tashkent epP = $+10m.40s.$, ePP = $+13m.14s.$, SS = $+29m.43s.$
 Sverdlovsk iP = $+12m.10s.$, $i = +14m.10s.$, and $+17m.8s.$
 Baku PS = $+22m.9s.$
 Tifis eP_cP = $+12m.39s.$, ePP = $+15m.5s.$, ePPS = $+22m.53s.$
 Moscow pPP = $+16m.52s.$, pS = $+23m.50s.$
 Simferopol $e = +16m.12s.$
 Yalta $e = +16m.7s.$
 Pulkovo pP = $+13m.25s.$, PP = $+16m.18s.$, sPP = $+17m.24s.$, SKS = $+22m.51s.$,
 pS = $+24m.14s.$
 Copenhagen $+23m.49s.$, SS = $+32m.8s.$
 Stuttgart ePPEZ = $+18m.55s.$, ePPP = $+21m.26s.$, ePS = $+27m.48s.$, $e = +28m.24s.$
 Scoresby Sund $e = +27m.8s.$
 Strasbourg $e = +19m.20s.$
 De Bilt iZ = $+19m.9s.$
 Uccle $e = +19m.29s.$ and $eE = +27m.53s.$
 Paris $i = +19m.20s.$
 Pasadena eZ = $+18m.58s.$
 Little Rock iPEN = $+22m.11s.$, eE = $+23m.18s.$
 Oak Ridge iZ = $+19m.42s.$ and $+22m.8s.$
 Long waves were also recorded at Hyderabad.

Note.—Certain observing stations stand out from the general run of moderately good fit. For example Medan, Batavia, Samarkand show very large positive residuals for P and S. It is suggested that these phases due to pP sS or some allied form, and not the direct P and S at all.

June 5d. Readings also at 1h. (San Juan and Sumoto), 3h. (near Sumoto), 4h. (near Nagoya), 6h. (Wellington), 8h. (Medan and near Samarkand), 12h. (Graz, Medan, and Wellington), 13h. (Kew, Mizusawa, near Kobe, Nagoya, and Sumoto), 15h. (Tifis), 17h. (near Nagoya), 22h. (Berkeley, Andijan (2) Frunse (2), and near Samarkand (2)).

June 6d. 16h. 21m. 35s. Epicentre $26^{\circ}2N. 43^{\circ}5W.$

N.3.

A = $+0.6508$, B = -0.6176 , C = $+0.4415$; $\delta = -11$;
 D = -0.688 , E = -0.725 ; G = $+0.320$, H = -0.304 , K = -0.897 .

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Oak Ridge	28.1	313	e 5 44	- 4	e 9 56	-38	e 12.9	—
San Fernando	33.2	63	e 6 37	+ 3	—	—	15.4	—
Malaga	34.7	62	i 6 48	+ 2	e 12 22	+ 5	—	—
Granada	35.4	62	i 6 55	+ 2	—	—	15.0	—
Toledo	35.4	58	e 6 47	- 6	—	—	e 15.7	—
Almeria	36.3	63	—	—	e 12 38	- 3	e 17.9	—
Bidston	40.4	37	—	—	e 13 45	+ 3	e 16.4	—
Oxford	40.7	40	—	—	16 45	SS	—	20.5
St. Louis	N. 40.9	300	e 12 19	?	e 13 41	- 9	e 16.2	—
Florissant	41.0	300	i 9 10	PP	1 13 56	+ 5	e 16.8	20.8
Kew	41.2	41	—	—	e 13 50	- 4	e 16.4	—
Paris	42.0	46	e 6 25?	?	—	—	19.4	22.4
De Bilt	44.6	41	i 8 4	- 6	e 14 38	- 6	e 18.4	21.4
Strasbourg	45.4	47	e 8 25?	+ 9	—	—	e 18.4	—
Stuttgart	46.3	47	e 8 25	+ 2	e 15 1	- 8	e 22.4	—
Cheb	48.6	45	e 8 25?	-16	—	—	e 22.4	—
Triest	49.1	51	i 8 43	- 1	i 15 45	- 3	—	24.4
Copenhagen	49.6	38	—	—	15 52	- 3	23.4	—
Tucson	58.1	293	e 9 57	+ 6	e 17 55	+ 4	e 27.8	—
Pulkovo	59.5	35	e 10 5	+ 4	e 17 59	-10	28.4	33.6
Sebastopol	63.0	51	—	—	e 21 27	?	—	—
Simferopol	63.4	51	e 11 0	+32	—	—	—	—
Yalta	63.5	52	e 10 28	- 1	e 19 2	+ 1	e 24.4	—
Tifis	71.7	52	e 11 21	0	—	—	e 45.9	—
Sverdlovsk	75.5	33	e 11 47	+ 4	—	—	32.4	—
Tashkent	88.3	44	e 13 17	+28	i 23 34	- 6	—	50.1

For Notes see next page.

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NOTES TO JUNE 6d. 16h. 21m. 35s.

Additional readings:—

Florissant eEZ = +13m.21s.

Simferopol e = +13m.59s.

Yalta e = +14m.33s.

Tashkent e = +23m.1s., +27m.39s., +29m.19s., +32m.41s., and +35m.19s.

Long waves were also recorded at Edinburgh, Durham, Stonyhurst, Uccle, Moscow, Baku, Bozeman, Pasadena, and Huancayo.

June 6d. Readings also at 2h. (Frunse, Tashkent, and near Andijan), 3h., 4h., and 5h. (2) (Samarkand), 6h. (Adelaide, Apia, Christchurch, Honolulu, and near La Paz), 7h. (Chiufeng, Hong Kong, Phu-Lien, Nanking, Pulkovo, Copenhagen, De Bilt, Uccle, Stuttgart, Strasbourg, Paris, Oak Ridge, Sverdlovsk, Tashkent, and Tucson), 8h. (Granada), 10h. (Pasadena, Andijan, Frunse, and near Samarkand), 12h. (Christchurch), 14h. (Samarkand), 15h. (Scoresby Sund), 16h. (Samarkand (2), Florissant, Philadelphia, and San Juan), 17h. (Scoresby Sund), 18h. (Almata, Andijan, Tashkent, Baku, Sverdlovsk, near Samarkand (3), and near Taihoku), 19h. (Nanking), 20h. (Philadelphia, Mount Wilson, Riverside, Tinemaha, Madison, near Berkeley, Branner, Lick, San Francisco, near Balboa Heights, and near Andijan), 21h. (Huancayo, Mount Wilson, Pasadena, and Riverside), 22h. (Baku, Medan (2) and Sverdlovsk), 23h. (near Lick).

June 7d. 3h. 58m. 49s. Epicentre 72°·8N. 2°·5E. R.3.
(as on 1924 July 19d.; also see 7d. 4h. below).

A = +·2954, B = +·0129, C = +·9553; $\delta = +3$;
D = +·044, E = -·999; G = +·954, H = +·042, K = -·296.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Scoresby Sund	8·0	266	2 11	+18	—	—	4·2	—
Pulkovo	16·9	126	3 58	+ 5	e 7 9	+10	8·6	9·3
Copenhagen	17·6	161	3 58k	- 4	7 22	+ 7	8·2	—
Hamburg	19·5	166	i 4 24k	0	—	—	e 8·2	—
De Bilt	20·8	175	4 38	0	8 28	+ 6	e 9·7	13·4
Kew	21·4	185	e 4 47	+ 3	e 8 51	+17	10·2	—
Ivigtut	22·0	265	4 56	+ 5	9 14	+28	11·2	—
Uccle	22·0	177	i 4 53	+ 2	i 9 0	+14	e 10·2	—
Jena	22·2	165	e 4 53	0	—	—	—	—
Moscow	22·2	121	4 46	- 7	8 44	- 6	11·7	13·5
Paris	24·0	180	i 5 6	- 4	—	—	11·2	—
Stuttgart	24·2	169	e 5 14	+ 2	e 9 43	+16	e 12·7	—
Strasbourg	24·4	172	i 5 19a	+ 5	e 9 51	+21	e 12·2	—
Vienna	25·4	158	e 5 18	- 6	—	—	—	—
Basle	25·4	173	e 5 24	0	—	—	—	—
Zurich	25·6	172	e 5 24	- 1	—	—	—	—
Simferopol	31·4	135	6 13	- 4	—	—	—	—
Sebastopol	31·6	136	e 6 35	+16	e 10 39	-50	—	—
Yalta	31·9	135	e 6 17	- 5	—	—	—	—
Granada	35·8	190	e 6 43	+13	—	—	—	—
Tiflis	37·0	123	7 1	- 5	e 12 56	+ 5	18·2	22·6
Baku	39·5	118	7 14	-14	e 13 28	- 1	19·6	25·2
Tashkent	44·1	97	8 11	+ 5	—	—	—	—
Andijan	45·5	95	e 8 33	+16	—	—	—	—
Philadelphia	48·6	273	e 8 49	+ 8	e 15 57	+16	e 25·5	—
Florissant	54·1	286	e 9 25	+ 3	e 17 7	+10	e 25·7	31·6
Tinemaha	62·9	310	i 10 25	0	—	—	—	—
Mount Wilson	z. 65·6	308	i 10 44	+ 2	—	—	—	—
Pasadena	z. 65·7	308	e 10 44	+ 1	—	—	e 40·2	—
Riverside	z. 65·7	308	e 10 44	+ 1	—	—	—	—

Additional readings:—

Simferopol e = +9m.21s. and +20m.41s.

Yalta e = +9m.21s., +10m.11s., and +20m.15s.

Tiflis ePP = +8m.23s.

Tashkent e = +9m.38s.

Florissant eSZ = +17m.16s.

Mount Wilson iZ = +12m.41s., eZ = +14m.41s.

Pasadena eZ = +12m.35s.

Long waves were also recorded at Zagreb, Upsala, Edinburgh, Stonyhurst, and Cheb.

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June 7d. 4h. 38m. 21s. Epicentre 72°·8N. 2°·5E. (as at 3h.).

R.2.

A = +·2954, B = +·0129, C = +·9553; $\delta = +3$;
D = +·044, E = -·999; G = +·954, H = +·042, K = -·296.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Scoresby Sund	8·0	266	e 2 9	+16	(3 39?)	+15	3·6	—
Pulkovo	16·9	126	e 3 39	-14	e 7 3	+ 4	8·2	9·2
Copenhagen	17·6	161	3 59k	- 3	7 19	+ 4	8·6	—
Durham	18·1	188	4 14	+ 6	—	—	—	12·8
Bidston	19·5	190	e 4 21	- 3	e 8 19	+23	—	—
Hamburg	19·5	166	e 4 25a	+ 1	e 8 9	+13	e 10·6	13·6
Königsberg	19·5	148	i 4 18	- 6	i 7 54	- 2	e 11·2	—
De Bilt	20·8	175	4 37	- 1	8 29	+ 7	e 9·2	13·6
Oxford	21·1	187	4 48	+ 7	8 54	+26	e 12·1	—
Kew	21·4	185	e 4 50	+ 6	e 8 46	+12	9·6	14·9
Ivigtut	22·0	265	4 52	+ 1	9 9	+23	11·6	—
Uccle	22·0	177	4 52	+ 1	i 9 2	+16	e 10·6	—
Jena	22·2	165	i 3 51	-62	e 7 59	-51	—	19·2
Moscow	22·2	121	4 45	- 8	8 58	+ 8	11·8	13·0
Cheb	23·1	164	e 5 3	+ 1	e 9 9	+ 2	—	13·2
Paris	24·0	180	i 5 6	- 4	e 9 33	+10	11·6	13·6
Stuttgart	24·2	169	e 5 13	+ 1	e 9 42	+15	e 12·2	16·0
Strasbourg	24·4	172	i 5 19a	+ 5	e 9 51	+21	e 11·6	—
Vienna	25·4	158	e 5 8	-16	—	—	e 14·6	—
Basle	25·4	173	e 5 25	+ 1	—	—	e 15·6	—
Zurich	25·6	172	e 5 17	- 8	—	—	—	—
Triest	27·6	164	i 6 44	+60	i 10 48	+23	—	14·2
Florence	29·3	167	(7 39?)	?	—	—	—	(22·6)
Bucharest	30·4	145	e 7 57	PP	e 12 57	SS	18·2	—
Simferopol	31·4	135	6 14	- 3	e 11 30	+ 4	18·2	—
Sebastopol	31·6	136	e 6 15	- 4	e 12 49	SS	e 18·0	—
Theodosia	31·7	133	e 6 19	- 1	e 13 14	SS	23·6	—
Yalta	31·9	135	e 6 18	- 4	e 12 57	+83	16·8	—
Toledo	33·1	190	e 6 38	+ 5	e 12 8	+16	e 16·0	—
Granada	35·8	190	i 7 1	+ 5	e 12 45	+12	—	—
Malaga	36·2	189	e 7 46	PP	—	—	—	—
San Fernando	36·6	192	e 7 25	PP	e 12 58	+13	—	—
Tiflis	37·0	123	7 1	- 5	—	—	18·2	22·4
Baku	39·5	118	—	—	e 16 33	SS	20·0	25·8
Ottawa	43·8	275	e 8 7	+ 4	e 14 45	+12	e 21·6	—
Tashkent	44·1	97	i 7 57	- 9	e 14 33	- 4	e 21·6	27·0
Andijan	45·5	95	e 8 9	- 8	—	—	e 18·9	—
Toronto	46·4	278	e 10 15	PP	i 15 23	+13	21·6	—
Philadelphia	48·6	273	e 8 47	+ 6	e 15 54	+13	e 23·9	—
Florissant	54·1	286	e 9 26	+ 4	i 17 8	+11	e 25·7	31·8
Chiufeng	58·4	56	e 8 45	-68	—	—	—	37·7
Tinemaha	N. 62·9	310	e 10 21	- 4	—	—	—	—
Haiwee	63·8	309	e 10 33	+ 2	—	—	—	—
Pasadena	Z. 65·7	308	i 10 49	+ 6	—	—	e 32·6	—
Riverside	Z. 65·7	308	e 10 48	+ 5	—	—	—	—
Tucson	65·8	302	e 10 46	+ 2	e 19 42	+12	e 33·6	—

Additional readings and note:—

Königsberg eE = +4m.26s., eN = +8m.7s. and +9m.12s., eE = +9m.38s. and +10m.33s., iN = +10m.55s.

Uccle iNZ = +5m.6s.

Jena eN = +8m.7s.

Stuttgart e = +5m.26s.

Florence readings have been increased by 10m.

Bucharest e = +15m.21s.

Simferopol e = +7m.9s.

Yalta e = +7m.23s., +15m.57s., and +21m.21s.

Malaga e = +8m.46s.

Tiflis ePP = +8m.25s., e = +8m.46s.

Ottawa PPE = +9m.39s.; T₀ = 4h.38m.24s.

Philadelphia e = +9m.46s., ePP = +10m.45s., e = +13m.46s., eSS = +21m.57s.

Florissant ePPN = +12m.54s., eSE = +17m.13s., eSSN = +20m.50s., eSSE = +20m.54s.

Long waves were also recorded at Bergen, Belgrade, Edinburgh, Stonyhurst, Upsala, Sverdlovsk, Almeria, Oak Ridge, Madison, Bozeman, Ukiah, and Sitka.

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June 7d. Readings also at 0h. (near Lick), 1h. (Colombo, Tifis, Sverdlovsk, and Tashkent), 2h. (Phu-Lien and near Sumoto), 4h. (Pulkovo and Pasadena), 6h. (Mount Wilson, Pasadena, and near Malabar), 7h. (Montezuma, Baku, Erevan, Grozny, and Tifis), 8h. (Ksara, Tashkent and Sverdlovsk), 10h. (Grozny, Tifis (2), and Montezuma), 11h. (Scoresby Sund, Pulkovo, and Sverdlovsk, Copenhagen, De Bilt, Strasbourg, Stuttgart, Mount Wilson, and Pasadena), 12h. (near Tananarive), 13h. (Andijan, Frunse, Samarkand, and Semipalatinsk), 18h. (Scoresby Sund, De Bilt, Strasbourg, Stuttgart, Tashkent, Tifis, Copenhagen, Mount Wilson, Pasadena, Pulkovo, La Paz, and near Manila), 19h. (San Javier), 20h. (Malaga).

June 8d. 12h. 35m. 19s. Epicentre $36^{\circ}3'N$. $140^{\circ}1'E$. (as on 1935 July 31d.). X.

$$A = -.6183, B = +.5170, C = +.5920; \quad \delta = +5;$$

$$D = +.641, E = +.767; \quad G = -.454, H = +.380, K = -.806.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Tukubasan	0.1	180	0 4	+ 3	0 10	+ 7	—
Komaha	0.7	207	0 10	0	0 20	+ 2	—
Tokyo	0.7	200	0 9 _a	- 1	0 19	+ 1	0.3
Mitaka	0.8	215	0 8	- 3	0 19	- 2	—
Kiyosumi	1.2	177	0 14	- 3	0 28	- 3	—
Nagoya	2.8	245	e 0 40	0	1 19	+ 7	—

June 8d. Readings also at 0h. (Tifis), 2h. (Andijan, Frunse, Samarkand, Tashkent, Christchurch, and Wellington), 4h. (Baku, Erevan, Grozny (2), Sochi, Tifis (2), Simferopol, Yalta, Ksara, Samarkand, Sverdlovsk, Nagoya, and Mount Wilson), 6h. (Nagoya and near Mizusawa), 9h. (Mount Wilson (2), Pasadena (2), Tifis (2), Sverdlovsk, Pulkovo, Copenhagen, Stuttgart, De Bilt, Uccle, Strasbourg, Zurich, Trieste, near Belgrade, Bucharest (3), Zagreb, Mizusawa, near Nagoya, Sumoto, and Kobe), 10h. (Mount Wilson, Pasadena, and near La Paz), 11h. (near Branner, Fresno, and Lick), 16h. (San Fernando), 17h. (Riverview, Sydney, Sverdlovsk, and Tashkent), 19h. (Almeria and near Balboa Heights), 20h. (Grozny), 21h. (near Tananarive), 22h. (Tacubaya and Tifis).

June 9d. 0h. 2m. 42s. Epicentre $27^{\circ}5'N$. $87^{\circ}0'E$. N.3.

$$A = +.0464, B = +.8858, C = +.4617; \quad \delta = -4;$$

$$D = +.999, E = -.052; \quad G = +.024, H = +.461, K = -.887.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Calcutta	5.1	166	1 11	- 2	2 14	+ 4	—	—
Dehra Dun	8.3	292	1 58	0	—	—	—	—
Hyderabad	12.8	220	4 47	?	6 8	S*	6.6	7.1
Bombay	15.6	239	e 4 18?	+ 42	6 25	- 4	—	—
Andijan	17.9	322	e 4 6	+ 1	e 7 21	- 1	—	—
Frunse	18.4	330	e 4 10	- 1	e 7 50	+ 17	—	—
Kodaikanal	E. 19.4	211	—	—	e 7 44	- 10	i 9.5	—
Tashkent	20.0	319	e 4 28	- 2	i 8 12	+ 6	e 10.6	12.9
Samarkand	20.6	311	e 4 37	+ 1	e 7 37	- 41	—	—
Chiufeng	27.1	54	—	—	e 10 31	+ 14	—	17.8
Sverdlovsk	34.8	335	e 6 55	+ 8	12 27	+ 9	19.3	—
Grozny	36.7	307	e 7 5	+ 1	e 12 35	- 12	—	—
Tifis	37.1	304	e 7 18	+ 11	e 12 58	+ 5	e 22.8	—
Ksara	44.0	291	e 7 55	- 10	e 11 55	?	—	—
Pulkovo	49.9	327	8 58	+ 7	16 3	+ 4	22.3	29.8

Calcutta $P_g = +1m.42s$.
Bombay $S^* = +7m.1s$, $S_g = +7m.41s$.
Long waves were also recorded at Baku, Strasbourg, Stuttgart, Paris, De Bilt, Kew, Copenhagen, and Scoresby Sund.

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June 9d. 16h. 36m. 31s. Epicentre 0°·2S. 98°·8E. N.2.

A = -·1530, B = +·9882, C = -·0035; $\delta = -4$;
D = +·988, E = +·153; G = +·001, H = -·003, K = -1·000.

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Medan		3·8	359	i 1 7	P _g	i 1 38	+ 1	—	—
Batavia		10·0	127	2 23	+ 2	4 48	+35	—	—
Malabar		11·2	129	2 39	+ 2	4 40	- 3	—	—
Colombo		20·2	291	4 38	+ 6	8 31	+21	10·4	12·3
Phu-Lien		22·4	20	i 4 57	+ 2	8 58	+ 5	10·5	—
Kodaikanal	E.	23·6	298	i 5 10	+ 4	i 9 29	+13	11·6	13·6
Calcutta	E.	24·9	337	5 24	+ 5	9 48	+ 9	—	—
Manila		26·5	55	i 5 34 _a	0	10 49	+42	15·2	17·5
Hyderabad		26·7	313	5 41	+ 6	10 11	+ 1	11·7	16·7
Hong Kong		27·0	33	5 33	- 5	10 59	+44	—	18·5
Bombay		31·9	308	6 25	+ 3	11 29	+ 5	15·1	21·3
Agra	E.	33·9	326	6 36	- 3	11 52	-12	—	—
Dehra Dun		36·3	329	12 49	S	(12 49)	+ 8	21·6	22·5
Nanking		37·4	29	7 35	+25	13 21	+24	17·2	25·5
Chiufeng		43·2	19	i 7 58 _a	0	14 20	- 4	e 21·4	30·4
Kumamoto		44·6	40	8 12	+ 2	—	—	—	—
Zinsen		45·6	31	—	—	e 13 33	-86	e 21·3	—
Keizyo		45·8	32	—	—	e 14 32	-30	—	—
Andijan		47·5	333	e 8 30	- 2	e 16 25	+59	—	—
Frunse		48·3	336	e 8 38	0	i 15 33	- 4	—	—
Sumoto		48·3	41	e 8 36	- 2	—	—	—	—
Wakayama		48·4	41	8 39	0	—	—	—	—
Kobe		48·7	41	e 8 40	- 1	—	—	—	32·2
Gihu		50·2	42	8 52	- 1	—	—	—	—
Nagoya		50·2	42	e 7 53	-60	—	—	—	—
Adelaide		50·9	138	i 9 16	+18	i 16 11	- 2	23·3	34·1
Wazima		51·5	39	8 59	- 4	—	—	—	—
Nagano		51·8	41	9 5	0	—	—	—	—
Oiwake		51·9	42	9 4	- 2	—	—	—	—
Semipalatinsk		53·0	346	e 8 11	-63	—	—	—	—
Tananarive		53·6	247	—	—	e 16 54	+ 4	—	25·1
Mizusawa		55·2	40	e 9 27	- 3	e 9 59	?	—	—
Melbourne		56·7	137	—	—	e 17 31	- 1	30·2	33·8
Sapporo		57·6	36	9 47	0	—	—	—	—
Riverview		59·4	130	—	—	e 18 5	- 3	e 34·5	38·5
Sydney		59·4	130	—	—	e 26 19	?	38·2	41·8
Baku		60·1	319	i 10 6	+ 1	18 16	- 1	29·0	42·0
Erevan		63·7	317	e 10 30	0	—	—	—	—
Tiflis		64·1	318	i 10 31	- 2	i 19 3	- 6	39·5	42·6
Grozny		64·2	320	e 10 36	+ 2	19 6	- 4	41·5	—
Sverdlovsk		64·7	338	i 10 39	+ 2	i 19 13	- 3	39·4	40·1
Piatigorsk		66·3	320	i 10 7	-40	18 49	-47	—	—
Ksara		67·9	306	i 10 59 _a	+ 1	19 57	+ 1	—	41·5
Helwan		70·7	302	11 14	- 1	20 24	- 6	—	40·2
Theodosia		71·7	318	11 19	- 2	20 32	- 9	—	—
Yalta		72·4	317	i 11 23	- 2	i 20 39	-11	—	—
Simferopol		72·5	318	11 24	- 2	i 20 41	-10	—	—
Sebastopol		72·8	317	i 11 27	- 1	20 44	-10	—	—
Moscow		74·4	330	i 11 34	- 3	i 21 1	-12	38·5	47·1
Christchurch		78·2	135	21 51	S	(21 51)	- 5	39·1	43·8
Wellington		79·4	132	i 17 14	SSS	i 20 59	-70	e 41·0	50·5
Pulkovo		79·5	332	12 3	- 2	21 56	-14	39·5	50·8
Cape Town		81·9	236	—	—	i 22 31	- 5	38·3	45·6
Budapest		83·2	317	e 12 29?	+ 5	e 22 29?	-20	—	—
Vienna		85·1	318	e 12 34	0	e 22 57	[- 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.
Zagreb	85.1	316	e 12 33 _a	- 1	e 22 54	[- 6]	—	—
Upsala	85.8	330	12 33	- 4	i 23 2	[- 3]	e 48.5	—
Prague	86.5	320	e 12 44?	+ 3	e 23 10	[0]	—	56.5
Triest	86.7	316	12 39	- 3	i 23 10	[- 1]	e 48.2	—
Cheb	87.9	320	—	—	e 22 29?	[-50]	—	—
Padova	88.0	315	e 23 27	S	(e 23 27)	[+ 7]	—	—
Copenhagen	88.1	326	12 48 _k	?	23 26	[+ 5]	41.5	—
Florence	88.4	314	e 12 57	+ 7	i 23 29	[+ 6]	—	—
Hamburg	89.5	324	i 12 54	- 1	i 23 41	-10	e 52.5	—
Stuttgart	89.9	319	12 56 _a	- 1	e 23 44	-11	e 55.5	—
Zurich	90.3	317	e 12 58	- 1	e 23 42	[+ 8]	—	—
Strasbourg	90.8	319	i 13 0 _a	- 1	i 23 52	-12	e 53.5	—
Basle	91.0	317	e 13 .1	- 1	e 23 53	-12	—	—
Bergen	91.9	331	—	—	26 0	+106	e 53.5	—
De Bilt	92.4	323	i 13 8	- 1	e 24 7	-11	e 44.5	66.0
Uccle	93.0	321	e 13 10	- 1	i 24 11	-13	e 44.5	—
Paris	94.3	319	i 13 12	- 5	e 23 29?	[-28]	57.5	—
Algiers	94.7	306	e 12 34	-45	e 24 13	[+14]	e 53.6	—
Kew	95.8	322	e 13 24	0	e 24 36	-13	e 57.5	—
Oxford	96.4	322	17 23	PP	i 24 36	-19	e 58.0	—
Edinburgh	96.8	326	—	—	e 23 59	[-11]	e 53.5	—
Granada	100.0	308	e 17 50	PP	—	—	54.5	—
Toledo	100.0	310	e 17 17	PP	—	—	—	—
San Fernando	102.1	307	e 18 7	PP	e 26 20	+35	58.5	—
Tinemaha	E. 129.7	39	e 19 0	[- 6]	—	—	—	—
Haiwee	E. 130.5	40	e 19 11	[+ 3]	—	—	—	—
Pasadena	Z. 131.5	42	i 19 11	[+ 1]	—	—	e 64.5	—
Mount Wilson	Z. 131.6	42	i 19 10	[0]	—	—	—	—
La Jolla	Z. 132.9	42	e 19 14	[+ 2]	—	—	—	—
Ottawa	134.5	354	e 21 41	PP	e 39 47	SS	e 63.5	—
Rio de Janeiro	134.6	237	23 29?	?	—	—	—	—
Oak Ridge	136.8	349	20 20	[+62]	—	—	81.5	—
Tucson	137.5	- 38	e 19 36	[+17]	e 34 41	?	e 63.8	—
Florissant	140.5	11	e 19 22	[0]	e 29 8	{-19}	e 67.9	80.4
La Paz	158.9	219	20 35	[+43]	i 25 19	?	77.5	84.8

Additional readings :—

Batavia SN = +5m.2s.
 Kodaikanal PPE = +5m.41s., SSE = +10m.30s.
 Calcutta sP = +6m.55s., sS = +11m.33s.
 Hong Kong PP = +6m.25s., SS? = +11m.48s.
 Bombay SSEN = +13m.6s.
 Agra SSE = +14m.38s., SSSE = +15m.42s.
 Dehra Dun +16m.59s.
 Nanking PP = +8m.39s., PPP = +9m.2s.
 Chiufeng SN = +14m.25s.
 Gihu i = +10m.20s.
 Adelaide e = +9m.54s., i = +17m.59s.
 Tananarive eN = +17m.24s.
 Riverview eN = +29m.23s.
 Tiflis PP = +13m.10s., iSKS = +20m.24s.
 Sverdlovsk L_a = +32.1m.
 Ksara iP_cP = +11m.29s.
 Yalta e = +13m.15s.
 Christchurch eS = +29m.45s.
 Wellington i = +35m.14s.
 Cape Town iN = +22m.38s., i = +22m.56s. and +23m.15s., iN = +24m.13s.,
 iE = +24m.25s. and +28m.31s.
 Zagreb eP_cP = +13m.36s., ePPNW = +17m.2s., ePPPNE = +17m.12s., eS_cS =
 +23m.11s.
 Triest i = +23m.1s., iPS = +24m.4s., i = +24m.10s.
 Copenhagen +23m.13s.
 Stuttgart eP_cP = +13m.12s., ePP = +16m.36s.
 Zurich eSKS = +23m.24s.
 Strasbourg ePS = +25m.11s., eSSSS = +36m.59s.
 De Bilt PPZ = +16m.49s., eE = +23m.39s.
 Uccle ePPZ = +16m.51s.
 Algiers e? = +22m.0s.

Continued on next page.

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Kew ePPEZ = +17m.19s., eSSN = +30m.22s.
 Oxford eE = +20m.43s., iE = +23m.53s.
 Tinemaha eZ = +22m.23s.
 Haiwee eEN = +22m.29s.
 Pasadena iZ = +19m.25s., iEZ = +22m.30s., iZ = +22m.47s.
 Ottawa e = +22m.45s.
 Oak Ridge PP = +22m.4s., eSKPN = +22m.53s., ePPPZ = +24m.31s.
 Florissant ePKPE = +19m.28s., ipPKPE = +19m.43s., iPPNZ = +22m.22s.,
 ePPE = +22m.26s., ipPPNZ = +22m.37s., iSKPZ = +22m.58s., iSKPEN =
 +23m.2s., ipSKPEN = +23m.18s., ePPPZ = +25m.26s., eSSN = +40m.34s.
 Long waves were also recorded at Taikyu, Husan, Ivigtut, College, Sitka, Boze-
 man, Philadelphia, Huancayo, and San Juan.

June 9d. Readings also at 2h. (Chiufeng, Nanking, Phu-Lien, Tashkent, and Sverdlovsk), 8h. (Andijan, Sverdlovsk, Tashkent, Bombay, and near Calcutta), 13h. (Madison), 15h. (Jena), 17h. (Tifis), 18h. (Alicante, Sebastopol, Simferopol, Theodosia, Yalta, and Tifis), 19h. (Sumoto and near Hukuoka (3)), 23h. (Florence).

June 10d. 3h. 29m. 12s. Epicentre 26°·5N. 64°·0E. N.2.

A = +·3923, B = +·8044, C = +·4462; $\delta = +5$;
 D = +·899, E = -·438; G = +·196, H = +·401, K = -·895.

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bombay	11·1	131	(2 33)	- 3	(4 48)	+ 7	4·8	8·1
Agra	12·6	84	2 46	-10	e 5 15	- 2	—	—
Dehra Dun	12·9	70	6 8	S	(6 8)	+43	7·5	9·8
Samarkand	13·4	10	e 3 1	- 6	e 6 21	+44	—	—
Andijan	15·8	24	e 3 39	0	—	—	—	—
Hyderabad	16·2	121	1 58	?	6 51	+ 8	10·8	13·9
Tchimkent	16·5	15	e 3 49	+ 1	—	—	—	—
Baku	18·2	323	4 26	+17	7 40	+11	10·8	13·9
Frunse	18·5	25	e 4 16	+ 3	e 7 42	+ 6	—	—
Kodaikanal	20·6	140	e 4 32	- 4	i 8 21	+ 3	10·2	12·6
Tifis	21·9	319	e 4 49	- 1	8 53	+ 9	13·0	14·8
Calcutta	22·4	95	4 55	0	9 4	+11	11·2	15·2
Colombo	24·7	141	5 22	+ 5	10 38	+62	14·2	19·0
Ksara	25·3	293	i 5 28	+ 5	10 12	+26	—	—
Helwan	28·9	285	—	—	11 11	+24	12·1	20·0
Theodosia	29·4	317	e 5 53	- 7	e 11 24	+29	20·8	—
Yalta	29·9	315	e 6 4	0	e 11 32	+29	19·3	—
Simferopol	30·2	316	e 6 8	+ 1	e 11 49	+42	e 19·8	—
Sebastopol	30·4	315	e 6 11	+ 2	e 11 12	+ 2	—	—
Sverdlovsk	30·4	357	6 13	+ 4	i 11 13	+ 3	19·4	—
Moscow	34·9	334	6 50	+ 2	12 22	+ 2	20·8	25·4
Bucharest	35·2	311	e 7 30	+39	—	—	15·8	—
Phu-Lien	39·3	89	—	—	e 15 48?	?	—	—
Pulkovo	40·5	335	e 7 43	+ 7	13 43	- 1	20·8	25·2
Königsberg	42·4	324	—	—	e 14 14	+ 3	e 24·6	34·0
Zagreb	42·5	310	e 8 15	+22	e 14 48?	+35	e 26·3	—
Graz	43·1	311	e 7 56	- 2	e 17 48	SS	e 28·8	31·6
Triest	44·0	310	e 7 53	-12	i 14 37	+ 1	—	28·2
Prague	44·4	316	—	—	e 13 48?	-53	e 24·8	27·3
Chiufeng	44·9	59	e 8 12	0	i 14 50	+ 1	22·4	28·5
Hong Kong	45·6	84	14 55	S	(14 55)	- 4	—	27·6
Florence	45·6	306	2 40	?	14 33	-26	24·8	—
Cheb	45·7	316	e 12 48?	?	e 18 30	SS	—	33·3
Upsala	45·9	330	—	—	e 14 48?	-15	e 25·8	32·2
Copenhagen	47·0	324	8 31	+ 2	15 21	+ 2	24·8	—
Stuttgart	47·5	314	e 8 31	- 1	e 15 30	+ 4	e 29·8	—
Nanking	47·6	70	—	—	e 19 15	SS	26·6	—
Hamburg	47·8	321	e 9 48?	PP	—	—	e 28·3	35·8
Zurich	47·8	312	e 8 17	-18	—	—	—	—
Strasbourg	48·4	314	e 7 48?	-51	—	—	e 27·8	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
De Bilt	50.5	318	—	—	e 16 6	- 2	e 28.8	39.1
Uccle	50.8	316	—	—	e 16 16	+ 4	e 24.8	—
Paris	51.9	313	e 8 48?	-18	—	—	27.8	33.8
Bergen	51.9	329	—	—	e 23 15	?	—	—
Kew	53.8	317	e 5 29	?	e 16 59	+ 6	e 27.8	35.7
Manila	54.2	91	17 13	S	(17 13)	+15	—	34.5
Oxford	54.4	317	—	—	e 17 3	+ 2	30.8	37.6
Edinburgh	55.7	322	—	—	e 23 48?	?	e 33.8	41.8
Toledo	57.1	302	—	—	e 16 45	-53	—	38.5
Granada	57.2	299	e 11 28	PP	—	—	32.8	—
San Fernando	59.4	299	—	—	e 18 12	+ 4	34.8	—
Scoresby Sund	63.8	339	—	—	19 12	+ 7	32.8	—
Ivigtut	76.8	333	—	—	21 42	+ 1	36.8	—
La Paz	N. 134.6	273	e 29 32	SKKS	(e 29 32)	{+41}	—	—

Additional readings and notes:—

Bombay gives eE = 3h.27m.30s.; true P and S are given as SEN and SSE respectively.

SSE = +3m.33s.

Agra SSE = +5m.36s., iN = +5m.41s.

Andijan e = +4m.51s., +7m.32s., and +9m.20s.

Kodaikanal PPE = +4m.49s., SSE = +9m.6s.

Tiflis e = +5m.42s., iSS = +9m.32s., i = +10m.13s., e = +11m.14s.

Calcutta PPE = +5m.21s., SSE = +9m.58s.

Sverdlovsk L_g = +16m.24s.

Königsberg eE = +14m.28s., eN = +17m.24s., eE = +17m.33s.

Zagreb e = +8m.29s.

Triest i = +14m.47s. and +15m.7s., iSS? = +18m.8s., i = +18m.40s.

Prague eS = +18m.22s.

Chiufeng iN = +18m.29s.

Hong Kong S? = +20m.40s.

Stuttgart e = +19m.0s.

Manila SEN = +23m.18s.

Oxford i = +17m.33s.

Scoresby Sund +23m.42s. and +26m.42s.

Long waves were also recorded at Keizyo, Durham, Cape Town, Stonyhurst, Rathfarnham Castle, Jena, College, Sitka, Tucson, Philadelphia, Huancayo, and Rio de Janeiro.

June 10d. 8h. 23m. 27s. Epicentre 5°.5S. 147°0E. (as on 1930 June 23d.). R.1.

A = -.8348, B = +.5421, C = -.0958; $\delta = -6$;
D = +.545, E = +.839; G = +.080, H = -.052, K = -.995.

Depth of focus 0.0225 is assumed.

	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Palau	-0.8	17.9	316	3 56	+ 1	7 20	+16	—	—
Riverview	-1.4	28.6	173	i 5 38a	- 2	i 10 13	- 5	—	13.4
Sydney	-1.4	28.6	173	e 5 38	- 2	i 9 57	-21	11.7	15.8
Adelaide	-1.6	30.4	194	i 5 56	+ 2	i 10 43	- 2	i 12.6	20.2
Melbourne	-1.6	32.2	184	e 6 59	+49	i 11 13	- 1	12.1	16.2
Manila	-1.7	32.7	310	i 6 15k	+ 1	i 11 31	+11	—	—
Titizima	-1.7	32.9	353	6 19	+ 3	—	—	—	—
Isigakizima	-1.8	37.2	325	6 46	- 7	12 29	+ 2	—	—
Kosyun	-1.8	37.6	319	6 57	+ 1	12 34	+ 1	—	—
Nake	-1.8	37.9	335	7 1	+ 2	—	—	—	—
Taito	-1.8	37.9	320	7 1	+ 2	—	—	—	—
Karenko	-1.9	38.5	322	7 6	+ 3	12 47	+ 2	—	—
Giran	-1.9	39.0	323	7 12	+ 5	—	—	—	—
Hatidyoizima	-1.9	39.2	351	7 10	+ 1	12 50	- 6	—	—
Taityu	-1.9	39.2	321	7 10	+ 1	12 55	- 1	—	—
Taihoku	-1.9	39.3	323	7 10	0	12 59	+ 2	—	13.0
Perth	-1.9	39.3	225	i 7 8	- 2	13 13	+16	18.6	19.6
Batavia	-1.9	39.9	269	i 7 16	+ 1	—	—	e 16.6	—
Miyazaki	-1.9	40.2	340	7 20	+ 2	13 5	- 6	—	—
Kagosima	-1.9	40.3	339	7 13	- 5	—	—	—	—

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	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Siomisaki	-1.9	40.4	347	7	19	0	—	—	—	—	
Simidu	-1.9	40.5	343	7	19	-1	—	—	—	—	
Omaesaki	-1.9	40.9	349	7	20	-4	12	58	-23	—	
Mera	-1.9	41.0	352	7	25	+1	—	—	—	—	
Ito	-1.9	41.1	352	7	26	+1	—	—	—	—	
Hamamatu	-2.0	41.2	350	7	26	+1	13	20	-4	—	
Kumamoto	-2.0	41.3	339	7	28	+2	—	—	—	—	
Misima	-2.0	41.3	352	7	27	+1	13	25	-1	—	
Numadu	-2.0	41.3	352	7	32	+6	—	—	—	—	
Tokusima	-2.0	41.3	346	7	44	+18	—	—	—	—	
Wakayama	-2.0	41.3	346	7	26	0	13	25	-1	—	
Apia	-2.0	41.4	103	i 7	27	0	13	34	+7	—	
Ooita	-2.0	41.4	341	7	13	-14	—	—	—	—	
Sumoto	-2.0	41.4	346	7	28k	+1	e 13	25	-2	18.1	
Tu	-2.0	41.4	348	8	2	+35	—	—	—	18.4	
Unzendake	-2.0	41.4	339	7	41	+14	—	—	—	—	
Yagi	-2.0	41.4	347	7	29	+2	—	—	—	—	
Yokohama	-2.0	41.5	352	7	31	+3	13	29	0	—	
Kameyama	-2.0	41.6	348	7	28	-1	—	—	—	—	
Nagasaki	-2.0	41.6	339	7	29	0	—	—	—	—	
Osaka	-2.0	41.6	347	7	30	+1	—	—	—	—	
Tyosi	-2.0	41.6	354	7	32	+3	13	31	+1	—	
New Plymouth	-2.0	41.6	148	7	33p	+4	13	41	+11	e 19.6	
Arapuni	-2.0	41.7	146	—	—	—	13	33	+1	18.2	
Hunatu	-2.0	41.7	350	8	10	+41	14	12	+40	—	
Kobe	-2.0	41.7	346	e 7	30	+1	e 13	33	+1	i 17.7	
	E. N. or Z.	41.7	346	e 7	27	-2	e 13	54	+22	e 18.4	
Tadotu	-2.0	41.7	345	7	13	-16	—	—	—	21.6	
Tokyo	-2.0	41.7	352	7	32	+3	—	—	—	—	
Nagoya	-2.0	41.8	349	e 7	22	-8	—	—	—	—	
Iida	-2.0	41.9	350	7	39	+8	—	—	—	—	
Kohu	-2.0	41.9	350	7	33	+2	13	35	0	—	
Kyoto	-2.0	41.9	348	7	25	-6	—	—	—	—	
Saga	-2.0	41.9	340	7	39	+8	—	—	—	—	
Tomie	-2.0	41.9	338	7	46	+15	—	—	—	—	
Gihu	-2.0	42.0	349	7	32	0	13	35	-1	—	
Hikone	-2.0	42.0	348	7	33	+1	13	34	-2	—	
Okayama	-2.0	42.0	345	7	35	+3	—	—	—	—	
Hukuoka	-2.0	42.1	340	7	33	0	e 13	36	-2	—	
Hukuoka B	-2.0	42.1	340	7	35	+2	13	38	0	17.5	
Ibukisan	-2.0	42.1	349	7	33	0	13	35	-3	—	
Hirosima	-2.0	42.2	343	7	56	+22	—	—	—	—	
Kakioka	-2.0	42.2	353	7	28	-6	13	36	-3	—	
Tukubasan	-2.0	42.2	353	7	33	-1	13	36	-3	—	
Kumagaya	-2.0	42.3	352	7	33	-2	—	—	—	—	
Mito	-2.0	42.3	353	7	35	0	—	—	—	—	
Hong Kong	-2.0	42.5	313	7	38	+2	13	50	+6	—	
Maebasi	-2.0	42.6	352	7	39	+2	13	45	0	—	
Oiwake	-2.0	42.6	351	7	38	+1	13	50	+5	—	
Toyooka	-2.0	42.6	346	e 7	40	+3	14	47	+2	18.3	
	E. N.	42.6	346	7	37	0	e 16	38	SS	18.3	
Utsunomiya	-2.0	42.6	352	7	39	+2	—	—	—	—	
Hamada	-2.0	42.8	342	7	40	+1	—	—	—	—	
Nagano	-2.0	43.0	350	7	41	+1	13	52	+1	—	
Kanazawa	-2.0	43.1	348	7	40	-1	13	51	-2	—	
Toyama	-2.0	43.2	349	7	45	+3	13	58	+4	—	
Husiki	-2.0	43.3	349	7	52	+9	14	7	+11	—	
Takada	-2.1	43.4	350	7	40	-3	13	58	+2	—	
Aidu	-2.1	43.5	353	7	36	-8	—	—	—	—	
Wellington	-2.1	43.5	149	7	44	0	13	58	+1	19.7	
Hukusima	-2.1	43.7	353	7	45	0	13	58	-2	20.6	

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.			
Wazirna	-2.1	43.9	349	7	48	+1	14	6	+3	—	—
Husan	-2.1	44.0	339	7	48	0	14	5	0	19.2	—
Sendai	-2.1	44.1	354	7	50	+1	—	—	—	—	—
Niigata	-2.1	44.1	352	7	57	+8	—	—	—	—	—
Zi-ka-wei	E. -2.1	44.1	330	e7	53	+4	14	19	+13	—	—
Christchurch	-2.1	44.2	153	i7	51	+2	i15	17	+69	—	—
Yamagata	-2.1	44.2	353	7	52	+3	—	—	—	—	—
Taikyu	-2.1	44.8	340	7	57	+3	14	21	+5	18.8	—
Mizusawa	-2.1	45.0	355	i7	57	+1	i14	20	+1	18.8	—
Morioka	-2.1	45.5	354	8	1	+1	14	26	-1	—	—
Nanking	-2.2	46.2	327	i8	7	+2	i14	41	+5	20.8	—
Aomori	-2.2	46.7	354	8	10	+1	14	45	+2	—	—
Keizyo	-2.2	46.9	339	i8	11	+1	e14	50	+4	e19.1	—
Zinsen	-2.2	47.0	338	i8	13k	+2	e14	10	-37	i19.5	—
Phu-Lien	-2.2	47.6	306	8	18	+2	15	3	+7	20.6	—
Hakodate	-2.2	47.6	354	8	24	+8	—	—	—	—	—
Urakawa	-2.3	47.8	357	8	15	-2	15	2	+5	—	—
Muroran	-2.3	48.1	355	8	18	-1	15	5	+3	—	—
Obihiro	-2.3	48.5	357	8	32	+10	—	—	—	—	—
Heizyo	-2.3	48.7	338	8	24	0	—	—	—	—	—
Sapporo	-2.3	48.8	355	8	26k	+1	15	15	+3	—	—
Nemuro	-2.3	48.9	359	8	26	+1	15	16	+3	—	—
Medan	-2.3	49.1	280	e8	24	-3	i15	47	-29	—	—
Asahigawa	-2.3	49.5	357	8	36	+6	—	—	—	—	—
Chatham Is.	-2.3	50.0	147	e7	33?	?	e14	9	?	19.6	20.6
Haboro	-2.4	50.1	357	8	2	-32	—	—	—	—	—
Vladivostok	-2.4	50.9	348	8	39	-1	15	39	-1	23.2	23.6
Chiufeng	-2.5	53.7	332	i9	4k	+4	i16	22	+4	24.1	26.4
Honolulu	-2.7	60.2	61	i9	48	+1	i18	39	-4	i24.8	—
Calcutta	-2.8	63.8	299	10	59	+48	19	34	+65	—	—
Colombo	-2.9	68.1	280	11	21	+41	20	30	+68	26.7	38.6
Kodaikanal	E. -2.9	71.1	284	e10	59	0	i20	7	+8	33.4	42.7
Hyderabad	-2.9	71.4	291	11	37	+36	20	37	+34	33.1	43.6
Agra	E. -2.9	74.1	300	e11	14	-4	20	29	-6	—	—
Dehra Dun	-2.9	74.9	304	12	3	+40	(20	43)	-2	20.7	22.6
Bombay	-3.0	76.9	291	i12	18	+44	i21	7	0	—	—
Semipalatinsk	-3.0	79.8	324	e11	53	+3	—	—	—	—	—
Frunse	-3.0	81.1	315	e11	53	-5	e21	49	-6	—	—
Andijan	-3.0	82.1	313	e12	1	-2	e22	0	-6	—	—
Tchimkent	-3.0	84.5	314	e12	27	+11	—	—	—	—	—
College	-3.0	84.8	23	e12	16	-1	i22	25	-10	e33.9	—
Sitka	-3.1	88.0	32	i12	28	-5	i22	56	-11	e35.6	—
Sverdlovsk	-3.2	92.6	327	i12	52	-3	i23	35	[-13]	38.2	50.2
Ukiah	-3.2	93.3	51	e12	35	-23	e23	44	[-8]	e38.4	—
Berkeley	-3.2	93.9	51	i12	55	-6	e24	43	+40	—	—
Victoria	-3.2	93.9	42	e12	51	-10	i24	43	+40	e47.8	—
Seattle	-3.2	94.5	43	e14	39	?	e23	39	[-19]	—	—
Pasadena	-3.2	97.1	56	i13	9a	-6	e24	29	-3	i39.4	—
Tinemaha	-3.2	97.1	53	i13	9	-6	—	—	—	—	—
Tananarive	-3.2	97.1	250	17	13	PP	24	58	[+46]	e40.4	53.6
Mount Wilson	z. -3.2	97.2	56	i13	10a	-6	—	—	—	—	—
Haiwee	-3.2	97.3	54	e13	12	-4	e23	31	{-62}	—	—
Riverside	z. -3.2	97.7	56	i13	12a	-6	—	—	—	—	—
La Jolla	-3.2	97.8	57	e13	13	-6	e23	34	[-41]	—	—
Baku	-3.3	99.0	311	14	4	PP	e24	59	{+13}	42.6	55.8
Grozny	—	101.9	313	14	11	+19	e23	54	{-73}	46.8	—
Bozeman	—	102.3	45	e13	33	-21	e24	59	{-11}	e42.8	—
Tiflis	—	102.8	311	14	18	+22	25	1	{-13}	48.0	63.6
Erevan	—	103.1	310	e17	56	PP	—	—	—	—	—
Tucson	—	103.2	58	e13	31	-27	e25	30	{+13}	e47.4	—
Piatigorsk	—	103.8	314	e18	3	—	—	—	—	—	—
Moscow	—	105.4	326	14	25	pP	25	27	{-7}	54.0	57.4
Pulkovo	—	108.0	333	13	57	P	25	47	{-6}	51.6	59.0
Simferopol	—	110.0	316	e19	31	PPP	e26	7	{0}	40.8	—
Yalta	—	110.1	314	e18	42	PP	e26	5	{-3}	58.0	—

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.			
Sebastopol	—	110.5	315	e 18	54	PP	e 28	54	PS	—	—
Ksara	—	110.6	303	e 19	34	PPP	e 29	6	PS	—	—
Upsala	—	113.3	335	—	—	—	e 25	49	{-41}	e 50.6	58.6
Scoresby Sund	—	114.6	355	18	9	[-23]	e 24	49	[-43]	48.6	—
Königsberg	—	114.8	329	e 19	48	PP	e 26	7	{-33}	e 51.6	61.2
Helwan	—	114.9	300	14	11	-44	27	0	{+19}	—	—
Bucharest	—	115.6	317	e 20	3	PP	—	—	—	—	31.8
Cape Town	E.	117.5	227	20	17	PP	28	38	S	53.6	60.6
	N.	117.5	227	20	5	PP	28	35	S	53.6	60.6
Madison	—	117.9	43	e 19	37	PP	—	—	—	—	—
Bergen	—	118.0	340	e 20	24	PP	e 25	12	[-32]	55.4	—
Copenhagen	—	118.2	332	e 18	23	[-18]	e 26	23	{-41}	48.6	—
Florissant	—	118.6	46	e 18	28	[-14]	i 24	53	[-53]	e 56.2	64.4
Budapest	—	119.0	322	19	45	PP	—	—	—	e 59.6	63.6
Chicago	—	119.6	44	e 20	3	PP	—	—	—	e 49.3	—
Vienna	—	120.2	325	e 18	29	[-17]	e 20	40	PP	e 56.6	—
Prague	—	120.4	327	e 19	33	PP	e 26	21	{-58}	e 55.6	62.6
Hamburg	—	120.6	331	e 19	33	PP	—	—	—	e 55.6	60.6
Graz	—	121.3	324	e 18	31	[-18]	e 30	31	?	e 59.6	65.8
Jena	—	121.4	328	e 20	3	PP	e 30	33	?	e 58.6	68.0
Cheb	—	121.5	327	e 20	9	PP	e 28	10	?	e 57.6	65.6
Zagreb	—	121.6	327	e 18	34	[-15]	e 26	39	{-48}	e 57.8	63.4
Ann Arbor	E.	122.1	40	e 20	57	PP	e 30	3	?	e 55.8	—
Cincinnati	—	122.7	46	i 19	49	PP	—	—	—	—	—
Triest	—	123.0	323	e 19	6	{+13}	i 27	58	{-39}	e 51.6	63.6
De Bilt	—	123.8	332	e 18	37	[-18]	—	—	—	e 57.6	73.3
Ivigtut	—	123.9	8	e 18	32	[-23]	e 24	39	[-83]	48.6	—
Stuttgart	—	124.0	327	e 18	35	[-20]	e 27	57	{+14}	e 59.6	73.8
Karlsruhe	—	124.2	328	—	—	—	e 22	14	?	e 62.6	—
Padova	—	124.3	323	i 21	18	PPP	—	—	—	—	—
Toronto	—	124.3	39	i 20	20	PP	i 28	3	{+18}	e 62.6	—
Edinburgh	—	124.3	339	e 19	3	{+7}	—	—	—	51.6	—
Durham	—	124.6	338	21	6	PPP	—	—	—	—	62.6
Strasbourg	—	124.8	327	e 18	38	[-19]	e 25	39	[-26]	e 56.6	—
Buffalo	—	124.9	40	i 18	38	[-19]	—	—	—	e 52.9	—
Uccle	—	125.1	331	e 18	40	[-17]	—	—	—	i 62.2	63.7
Zurich	—	125.1	326	e 18	36	[-21]	—	—	—	—	—
Basle	—	125.5	327	e 18	39	[-19]	—	—	—	—	—
Florence	—	125.5	320	e 18	33	[-25]	i 29	33	?	—	64.6
Ottawa	—	125.6	35	e 20	31	PP	e 28	33	{+40}	e 49.6	—
Stonyhurst	—	125.6	337	e 21	33	PP	—	—	—	51.6	63.6
Neuchatel	—	126.2	327	e 18	40	[-19]	—	—	—	—	—
Bidston	—	126.2	337	i 20	44	PP	e 27	54	{-3}	57.6	—
Kew	—	126.7	335	e 18	40	[-20]	—	—	—	57.6	60.6
Paris	—	127.3	331	e 16	3	?	i 28	39	{+35}	79.6	64.6
Columbia	—	127.3	50	e 20	38	PP	—	—	—	e 54.0	—
Vermont	—	127.5	35	i 20	40	PP	e 28	42	{+36}	e 51.8	—
Georgetown	—	128.1	43	i 18	43	[-20]	—	—	—	—	—
Philadelphia	—	128.8	41	i 19	47	PP	e 26	58	{-76}	e 46.6	—
Fordham	—	129.2	40	e 20	51	PP	—	—	—	e 58.5	—
Oak Ridge	—	129.7	36	i 18	35	[-31]	—	—	—	—	—
Barcelona	—	132.4	325	22	4	PPP	e 34	8	?	—	67.2
La Plata	—	133.3	150	20	57	PP	—	—	—	84.6	—
Tortosa	N.	133.7	325	e 22	8	PP	—	—	—	64.6	71.1
Huancayo	—	134.4	113	e 18	51	[-23]	e 25	17	[-75]	—	—
Algiers	—	134.6	319	e 15	48	?	e 27	46	{-65}	e 61.6	—
Toledo	—	136.9	327	i 19	0	[-18]	—	—	—	—	72.5
Almeria	—	138.0	324	e 19	10	[-9]	—	—	—	e 61.8	—
Granada	—	138.5	324	e 18	52	[-27]	—	—	—	—	—
La Paz	—	138.9	122	e 19	0	[-20]	i 28	32	{-45}	74.2	—
Malaga	—	139.3	324	19	1	[-19]	e 28	35	{-45}	—	—
San Fernando	—	140.5	325	e 19	9	[-13]	—	—	—	57.6	76.6
San Juan	—	145.2	65	i 19	14	[-20]	—	—	—	e 60.0	—
Rio de Janeiro	—	149.9	160	i 19	44	{+2}	—	—	—	i 42.0	—

For Notes see next page.

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Additional readings:—

Riverview iN = +6m.17s., iNZ = +6m.37s., iEN = +10m.46s., iN = +11m.31s., iE = +11m.43s.
Adelaide iPP = +6m.56s., i = +7m.7s. and +7m.58s., iSS = +11m.36s., i = +12m.21s., +13m.13s., and +13m.23s., iScS = +17m.11s.
Melbourne S = +10m.48s.
Manila iZ = +6m.52s., iN = +7m.0s.
Taihoku PEN = +7m.13s., iZ = +7m.50s.
Perth PP = +8m.48s., PcP = +9m.13s., PPP = +9m.23s., PPPP = +9m.58s., PcS = +12m.58s., SS = +15m.43s., SSS = +16m.45s., SSSS = +17m.13s.
Batavia iZ = +7m.56s., iE = +9m.23s.
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Sumoto e = +8m.2s., eSN = +13m.28s., iN = +14m.30s., iE = +15m.5s.
New Plymouth iPP? = +9m.14s.
Arapuni iSS = +17m.3s.
Kobe iPN = +7m.31s., iN = +8m.8s., iE = +8m.13s., iN = +9m.51s., eE = +14m.34s., eN = +14m.40s.
Nagoya iP = +8m.8s.
Hong Kong PP? = +8m.12s., ? = +9m.52s., SS? = +15m.14s., ? = +17m.8s., +18m.10s., +18m.53s., and +29m.12s.
Toyooka iN = +8m.15s.
Wellington pP = +8m.2s., iPP? = +9m.10s., iPPP = +9m.53s., i = +10m.45s., sS = +14m.33s., iSS? = +17m.17s., iSSS = +18m.2s.
Christchurch ipPZ = +8m.28s., iPcP = +9m.35s., SSEN = +17m.39s., iScSZ = +17m.59s.
Nanking pP = +8m.47s., sS = +15m.17s., i = +15m.45s., iSS = +19m.13s.
Keizyo iPP? = +8m.59s., eEN = +15m.57s.
Zinsen iPP = +8m.49s., iPPZ = +8m.51s., iPPP = +10m.40s., iEN = +15m.56s.
Phu-Lien i = +8m.56s. and +16m.14s.
Medan iE = +16m.14s., iN = +16m.30s.
Chiufeng pP = +9m.41s., iSE = +16m.28s., sSEZ = +17m.28s., iSSE = +19m.54s.
Calcutta pP = +12m.23s., PP = +14m.19s., sS = +22m.15s.
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Ukiah ePP = +16m.36s., epS = +24m.45s., eSP = +24m.53s., e = +25m.51s., ePPS = +26m.13s., eSS = +30m.7s.
Berkeley iEZ = +16m.39s., ePPE = +16m.59s., iZ = +17m.23s., iN = +17m.35s., eE = +17m.41s., iPSEZ = +25m.54s.
Seattle epS = +24m.31s.
Pasadena iEZ = +13m.54s., iZ = +14m.43s., iPPZ = +17m.3s., iPPE = +17m.34s., iSKSE = +23m.27s., ePPSZ = +26m.2s., iE = +26m.34s.
Tinemaha iZ = +14m.6s., eN = +18m.41s.
Riverside ePPZ = +17m.41s.
Tananarive PPE = +17m.46s., SKS = +23m.31s., SP = +26m.47s., SS = +30m.43s.
Baku pPP = +18m.11s., e = +23m.42s. and +27m.9s.
Grozny e = +18m.43s.
Bozeman ePP = +17m.44s., e = +23m.59s., eSP = +26m.8s., ePS = +26m.19s., eSS = +31m.50s., esSS = +32m.51s.
Tiflis e = +14m.24s., epP = +14m.59s., e = +17m.27s., ePP = +18m.21s., e = +23m.59s., PS = +25m.56s., eSS = +32m.51s.
Tucson ePP = +17m.50s., eSKS = +24m.2s., ePS = +27m.27s.
Moscow PP = +18m.8s., PPP = +18m.54s., SKS = +24m.59s., pS = +26m.36s.
Pulkovo pP = +14m.40s., PP = +18m.11s., pPP = +19m.5s., SKS = +25m.9s., SP = +26m.31s., pS = +27m.3s., SS = +33m.27s., sSS = +34m.33s.
Sebastopol e = +19m.34s.
Scoresby Sund eN = +19m.15s., e = +19m.57s., +25m.58s., +27m.22s., eE = +28m.2s., eEN = +30m.4s., eE = +35m.15s., e = +36m.3s.
Königsberg eN = +22m.30s., ePPPE = +22m.50s., eE = +25m.57s. and +29m.15s., iPSN = +29m.48s., ePSE = +29m.55s., ePPSN = +31m.3s., eE = +32m.2s., eSSE = +46m.29s.
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Bucharest eE = +20m.15s.

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Cape Town PPN = +20m.24s., PPP = +23m.17s., N = +23m.42s., E = +25m.3s.,
 N = +25m.7s., SKS = +26m.34s., E = +29m.7s., PS?N = +29m.34s.,
 PS?E = +29m.38s., PPSE = +31m.1s., SSE = +36m.4s., SSS = +40m.31s.
 Bergen ePS? = +29m.58s., e = +30m.29s. and +37m.5s.
 Copenhagen PKP = +19m.45s., PP = +20m.21s., PS = +30m.34s., e =
 +35m.45s., +36m.51s.
 Florissant iPP = +19m.40s., ipPPZ = +20m.15s., epPPE = +20m.27s., iSKP =
 +21m.7s., iPPPEZ = +22m.23s., iSKKSE = +26m.7s., iSKKSNZ =
 +26m.10s., iSNZ = +27m.20s., iSPE = +29m.26s., iSPN = +29m.30s.,
 isSPEN = +30m.31s., isSPZ = +30m.35s., iPPPSZ = +31m.36s., iPPPSE =
 +31m.39s., iSSEN = +35m.44s., iSSSN = +40m.15s.
 Chicago e = +21m.2s., +21m.22s., and +27m.42s., eSP = +29m.17s., e =
 +30m.18s., eSS = +35m.50s.
 Prague ePP = +20m.33s., ePPP = +23m.3s., eSS = +36m.33s., eSSS =
 +41m.21s.
 Hamburg eZ = +20m.40s. and +30m.53s., iN = +36m.31s., eE = +41m.42s.
 Jena ePN = +18m.36s., e = +20m.33s., eE = +20m.36s., eN = +37m.33s.
 Zagreb e = +20m.2s., eNE = +20m.14s., e = +20m.48s. and +22m.8s., ePPPZ =
 +23m.18s., eNE = +26m.23s., eNW = +28m.58s., eZ = +30m.48s., ePPPS =
 +32m.0s., e = +36m.2s., eSS = +37m.23s.
 Ann Arbor eE = +31m.3s. and +37m.57s.
 Cincinnati eSP = +29m.45s., iPPS = +31m.24s., eSS = +36m.54s.
 Trieste iPP = +20m.59s., i = +25m.14s., +26m.41s., and +29m.14s., iPPS =
 +31m.11s., i = +36m.18s., iSS = +37m.59s., i = +40m.45s. and +42m.12s.
 De Bilt eZ = +15m.51s., i = +21m.2s., eEN = +31m.27s.
 Ivigtut eN = +20m.15s. and +26m.53s., eE = +29m.17s., eN = +30m.33s.
 Stuttgart ePZ = +15m.51s., ePKP = +19m.20s., e = +20m.21s., iPP = +21m.2s.,
 ePS = +31m.9s., eSS = +37m.21s.
 Toronto iN = +36m.55s.
 Edinburgh e = +16m.3s.
 Strasbourg ePZ = +15m.33s.?, iPP = +21m.10s., iZ = +22m.34s., ePPPZ =
 +23m.11s., ePPPPN = +28m.29s., iPSKSZ = +31m.8s., iPS = +31m.42s.,
 iPPS = +32m.33s., ePPPS = +33m.51s., eSS = +38m.33s.
 Buffalo iPP = +20m.28s., esSP = +31m.16s., i = +32m.57s.
 Uccle iPPZ = +21m.13s., iN = +28m.32s., SPZ = +31m.33s.
 Zurich e = +21m.12s.
 Basle e = +21m.10s. and +31m.30s.
 Ottawa eE = +21m.53s., e = +30m.33s., +33m.41s., and +37m.9s., eE =
 +38m.33s.
 Bidston e = +38m.43s. and +52m.53s.
 Kew iPPZ = +20m.42s., iPKS = +21m.21s., ePKKPN = +28m.28s., eSPZ =
 +31m.33s., eSSN = +38m.40s., eEN = +52m.54s.
 Paris PP = +21m.20s., PS = +31m.33s.?
 Columbia e = +21m.54s., eSS = +37m.32s.
 Vermont e = +20m.57s., ePS = +30m.40s., e = +33m.2s., eSS = +37m.42s.,
 esSS = +38m.12s., e = +46m.33s.
 Georgetown i = +19m.55s., iPP = +20m.46s., SKP = +22m.2s., eSP =
 +30m.55s., iPPPS = +33m.26s., e = +34m.25s., eSS = +37m.40s.
 Philadelphia e = +20m.19s., ePP = +20m.49s., e = +21m.49s., i = +22m.7s.,
 e = +22m.45s. and +28m.54s., ePS = +31m.2s., e = +33m.18s., eSS =
 +37m.46s.
 Fordham ePPP = +23m.29s., isSP = +31m.52s., i = +33m.37s., eSS =
 +38m.1s., e = +51m.29s.
 Oak Ridge pPZ = +18m.47s., PP = +20m.57s., iSKP = +21m.49s., iE =
 +22m.9s., iN = +22m.11s., iZ = +22m.39s., iSKSE = +22m.55s., iZ =
 +28m.55s., eE = +28m.59s., eZ = +36m.19s., eSSZ = +38m.59s., eSSE =
 +39m.9s., eZ = +39m.29s., eE = +40m.17s.
 Huancayo iPP = +21m.35s., i = +22m.34s., e = +24m.43s., ePS = +31m.38s.,
 eSS = +39m.49s.
 Algiers iPP = +21m.3s., iSKP = +22m.6s., ePPP = +24m.0s.
 Toledo i = +21m.51s., +22m.33s., and +40m.57s.
 Almeria PP = +22m.42s.
 Granada iPP = +22m.40s.
 La Paz iSKP? = +22m.11s., iPPE = +22m.43s., iSKSE? = +25m.40s.,
 iSKSPE = +31m.57s., iSKSPN = +32m.2s., PP = +35m.12s., iSS =
 +41m.39s., iE = +48m.57s.
 Malaga e = +19m.27s. and +20m.35s., PP? = +22m.22s., e = +23m.39s.
 San Fernando iPP = +23m.27s., PS = +33m.20s., SS = +40m.10s.
 San Juan ePP = +23m.8s., ePS = +34m.12s., e = +38m.49s., eSS = +41m.36s.

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June 10d. 17h. 11m. 15s. Epicentre 26°·5N. 64°·0E. (as at 3h.).		R.3.							
	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.	
	°	°	m. s.	s.	m. s.	s.	m.	m.	
Bombay	11.1	131	-0 45?	?	—	—	—	—	
Agra	12.6	84	e 2 40	-16	4 58	-19	5.7	8.6	
Dehra Dun	12.9	70	5 15	S	(5 15)	-10	7.4	8.8	
Samarkand	13.4	10	e 3 3	-4	e 5 18	-19	e 7.0	—	
Tashkent	15.4	15	e 3 38	+4	e 6 30	+6	e 8.6	11.8	
Andijan	15.8	24	e 3 47	+8	—	—	e 9.4	—	
Hyderabad	16.2	121	6 46	S	(6 46)	+3	9.8	11.3	
Tchimkent	16.5	15	e 3 49	+1	—	—	—	—	
Frunse	18.5	25	e 3 58	-15	—	—	e 7.8	—	
Kodaikanal	20.6	140	e 8 12	S	(e 8 12)	-6	11.6	12.7	
Tifis	21.9	319	4 50	0	e 8 59	+15	12.8	14.2	
Grozny	22.4	324	e 5 0	+5	e 9 14	+21	19.6	—	
Calcutta	22.4	95	4 50	-5	8 59	+6	11.1	15.2	
Piatigorsk	24.3	323	e 4 39	-34	—	—	—	—	
Colombo	24.7	141	9 50	S	(9 50)	+14	—	20.0	
Ksara	25.3	293	e 5 28	+5	10 12	+26	—	—	
Helwan	28.9	285	e 6 0	+5	e 10 50	+3	—	20.1	
Yalta	29.9	315	e 6 4	0	e 11 5	+2	—	—	
Simferopol	30.2	316	e 6 8	+1	e 11 13	+6	e 20.8	—	
Sebastopol	30.4	315	e 6 9	0	e 11 14	+4	—	—	
Sverdlovsk	30.4	357	e 6 43	+34	11 21	+11	19.2	20.4	
Moscow	34.9	334	e 6 55	+7	—	—	e 22.2	27.4	
Pulkovo	40.5	335	e 9 10	+94	e 13 41	-3	20.8	25.2	
Königsberg	42.4	324	—	—	e 18 56	?	e 33.0	—	
Triest	44.0	310	e 11 25	PP	e 15 15	+39	—	28.2	
Prague	44.4	316	—	—	e 18 27	SS	—	30.8	
Chiufeng	44.9	359	—	—	e 14 56	+7	—	28.6	
Copenhagen	47.0	324	—	—	15 21	+2	24.8	—	
Stuttgart	47.5	314	—	—	e 15 27	+1	e 28.8	—	
De Bilt	50.5	318	—	—	e 16 8	0	e 28.8	33.7	
Vladivostok	56.6	55	—	—	e 16 20	-71	33.0	39.0	
Scoresby Sund	63.8	339	—	—	26 51	?	33.8	—	

Additional readings:—

Agra eN = +5m.11s.
 Tashkent e = +3m.54s., +5m.6s., and +7m.34s.
 Hyderabad S = +8m.16s.
 Kodaikanal eSE = +10m.46s., SSE = +11m.12s.
 Tifis e = +6m.1s., SS = +9m.37s.
 Calcutta SSE = +9m.53s.
 Helwan e = +6m.33s.
 Yalta e = +7m.16s.
 Sverdlovsk e = +7m.25s., SS = +13m.57s., e = +16m.24s.
 Moscow e = +8m.45s. and +15m.15s.
 Pulkovo e = +16m.38s.
 Königsberg eE = +28m.20s.
 Chiufeng IN = +18m.33s.
 Long waves were also recorded at Hong Kong, Nanking, and at other European stations.

June 10d. 18h. 53m. 10s. Epicentre 34°·0N. 39°·0W. N.3.

A = +.6443, B = -.5217, C = +.5592; $\delta = -0$;
 D = -.629, E = -.777; G = +.435, H = -.352, K = -.829.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
San Fernando	26.8	76	e 5 40	+4	—	—	11.8	—
Ivigtut	27.8	351	—	—	(10 50?)	+22	10.8	—
Malaga	28.2	74	5 50	+1	e 8 21	?	—	—
Toledo	28.4	68	e 5 49	-2	(e 11 48)	+70	e 11.8	—
Granada	28.8	73	e 5 54	0	e 12 44	?	—	—

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.
San Juan	28.8	245	—	—	e 10 50	+ 5	—	—
Philadelphia	29.3	293	e 6 3	+ 4	e 9 0	?	e 10.9	—
Ottawa	30.1	304	e 6 50?	+44	e 11 20	+14	e 13.8	—
Bidston	31.9	42	—	—	e 11 46	+12	e 13.5	—
Oxford	32.3	46	—	—	11 43	+ 3	13.8	17.4
Kew	32.8	46	—	—	e 11 50?	+ 2	13.8	15.0
Paris	33.9	52	e 6 36	- 3	e 12 3	- 1	14.8	15.8
Columbia	34.6	283	e 8 4	?	e 14 50	?	e 18.8	—
Uccle	35.5	48	—	—	e 12 32	+ 3	e 15.8	—
De Bilt	36.2	46	—	—	12 42	+ 3	e 15.8	18.3
Strasbourg	37.3	53	e 8 35	?	e 13 4	+ 8	e 15.8	—
Scoresby Sund	37.6	10	—	—	13 17	+17	15.8	—
Stuttgart	38.3	53	e 7 15	- 3	e 13 8	- 3	e 17.8	—
Hamburg	39.4	45	—	—	e 12 50?	-37	—	18.8
Florissant	41.1	292	e 7 42	+ 1	e 14 0	+ 7	e 21.0	22.4
Copenhagen	41.1	42	9 14	PP	13 57	+ 4	16.8	—
Triest	41.4	57	e 7 48	+ 4	e 12 20	-97	—	21.4
Prague	41.8	51	e 9 14	?	e 14 7	+ 4	—	22.8
Pulkovo	50.9	38	e 9 44	+46	e 16 16	+ 3	25.3	27.2
Moscow	55.2	42	e 14 17	?	—	—	e 25.3	30.0
Simferopol	55.6	56	e 9 28	- 5	—	—	—	—
Yalta	55.7	57	e 9 26	- 8	—	—	—	—
La Paz	57.6	213	e 9 46	- 1	(16 50)	-54	16.8	—
Tinemaha	z. 62.6	298	e 10 23	+ 1	—	—	—	—
Haiwee	z. 62.8	297	e 10 27	+ 3	—	—	—	—
Mount Wilson	z. 63.6	295	e 10 28	- 1	—	—	—	—
Pasadena	z. 63.7	295	e 10 37	+ 7	—	—	—	—
Sverdlovsk	66.9	36	e 11 0	+ 9	e 19 56	+13	26.8	36.2
Baku	68.0	56	(e 6 50?)	?	—	—	e 6.8	—
Tashkent	80.0	46	—	—	e 22 15	- 1	e 38.0	43.5

Additional readings :—

Malaga e = +6m.33s.

Stuttgart ePP = +8m.43s.

Florissant ePPEZ = +9m.20s., eSZ = +14m.3s., eSSN = +17m.3s., iSSN = +17m.13s., iSSSN = +18m.12s.

Pulkovo e = +20m.15s.

Moscow e = +19m.30s. and +22m.54s.

Tashkent e = +22m.49s. and +30m.31s.

Long waves were also recorded at Madison, Tucson, Almeria, Stonyhurst, Durham, Edinburgh, Cheb, and Königsberg.

June 10d. 21h. 58m. 30s. Epicentre 63°·5N. 149°·0W. (as on 1931 May 29d.). X.

$$A = -.3825, B = -.2298, C = +.8949; \delta = -4;$$

$$D = -.515, E = +.857; G = -.767, H = -.461, K = -.446.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
College	1.5	21	i 0 32	+11	i 0 58	+19	—	—
Sitka	9.3	128	e 2 9	- 2	e 5 7	+71	—	—
Tinemaha	z. 32.3	130	e 6 25	0	—	—	—	—
Mount Wilson	z. 35.0	134	e 6 48	- 1	—	—	—	—
Riverside	z. 35.4	132	e 6 50	- 3	—	—	—	—
Florissant	42.1	98	e 7 49	0	e 14 15	+ 7	e 21.8	25.8
Vladivostok	47.7	285	—	—	e 18 35	PP	—	—
Philadelphia	47.9	83	—	—	e 20 14	PPP	25.5	—
Sverdlovsk	57.5	343	9 50	+ 3	17 48	+ 5	30.5	—

Additional readings :—

Sitka iS = +5m.21s.

Tinemaha eZ = +6m.30s.

Florissant eE = +17m.30s.

Philadelphia e = +22m.19s., +23m.8s., +24m.14s., and +25m.20s.

Sverdlovsk e = +9m.55s.

Long waves were also recorded at Tucson, Madison, Oak Ridge, Chiufeng, Baku, and Tashkent.

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June 10d. Readings also at 0h. (Medan, Andijan, Semipalatinsk, and near Frunse), 2h. (Calcutta, Santiago, and San Juan), 3h. (Chiufeng, Agra, Bombay, Kodaikanal, Tifis, Yalta, Helwan, Scoresby Sund, Sverdlovsk, Copenhagen, Pulkovo, De Bilt, Rathfarnham Castle, and La Paz), 4h. (La Paz), 6h. (Theodosia, Simferopol, Yalta, Nagoya, near Sebastopol, near Wellington near Branner, Lick, and Fresno), 7h. (Nagoya), 8h. (Santiago and near Taihoku), 9h. (Calcutta and Zagreb), 10h. (Philadelphia), 13h. (Helwan and Tifis), 14h. (Agra, Bombay, Kodaikanal, Andijan, Frunse, Tashkent, Baku, Grozny, Tifis, Helwan, Pulkovo, and Sverdlovsk), 15h. (Copenhagen), 17h. (Santiago), 20h. (Ithaca), 23h. (near Nagoya).

June 11d. 3h. 26m. 34s. Epicentre $7^{\circ}4N$. $83^{\circ}1W$. (as on 1935 Feb. 27d.). X.

$$A = +.1191, B = -.9845, C = +.1288; \quad \delta = +1;$$

$$D = -.993, E = -.120; \quad G = +.015, H = -.128, K = -.992.$$

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Balboa Heights	3.8	64	i 0 59	+ 5	i 1 43	+ 6	—	1.9
San Juan	19.8	55	i 4 31	+ 4	—	—	e 9.1	—
Huancayo	20.9	158	e 4 27	-12	(e 8 12)	-12	e 8.2	—
La Paz	28.2	148	e 5 46	- 3	i 10 46	+11	—	18.5
Tucson	35.9	318	e 6 56	- 1	e 12 51	+16	e 18.4	—
Vermont	38.1	12	e 6 40	-36	e 12 7	-61	e 14.4	—
Riverside	z. 41.3	314	i 8 7	+24	—	—	—	—
Mount Wilson	z. 41.9	314	i 7 53	+ 5	—	—	—	—
Pasadena	z. 41.9	314	e 7 51	+ 3	—	—	—	—

Additional readings:—

San Juan i = +4m.34s.

Huancayo e = +1m.49s. and +2m.35s.

Tucson eSS = +15m.34s.

Long waves were also recorded at Baku, Sverdlovsk, De Bilt, Paris, and Scoresby Sund.

June 11d. 9h. 43m. 44s. Epicentre $26^{\circ}3N$. $64^{\circ}8E$. N.3.

$$A = +.3817, B = +.8112, C = +.4431; \quad \delta = +8;$$

$$D = +.905, E = -.426; \quad G = +.189, H = +.401, K = -.896.$$

	Δ	Az.	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Bombay	10.5	133	e 2 51	+23	—	—	e 5.0	—
Agra	E. 11.8	83	e 2 48	+ 2	e 5 3	+ 5	—	—
Dehra Dun	12.3	68	5 56	S	(5 56)	+46	7.8	10.3
Samarkand	13.5	7	e 3 8	- 1	—	—	e 7.3	—
Hyderabad	15.5	122	7 1	S	(7 1)	+34	10.6	12.2
Tashkent	15.5	13	e 3 29	- 6	e 6 22	- 5	i 9.0	10.4
Andijan	15.8	22	e 3 43	+ 4	e 7 32	- 2	e 10.7	—
Frunse	18.4	23	e 4 14	+ 3	e 8 51	+78	—	—
Baku	18.7	322	e 5 11	+56	e 8 43	+63	10.8	13.9
Calcutta	E. 21.7	95	e 4 47	- 1	8 56	+16	11.1	15.2
Tifis	22.5	317	4 52	- 4	e 8 58	+ 3	12.6	14.8
Colombo	24.1	142	9 52	S	(9 52)	+27	—	19.2
Ksara	26.0	292	e 5 34	+ 5	10 16	+18	—	—
Helwan	29.6	284	—	—	e 10 56	- 2	—	20.2
Sverdlovsk	30.7	355	e 4 17	?	e 11 47	+31	19.2	—
Moscow	35.4	333	e 6 48	- 5	—	—	22.1	27.5
Pulkovo	41.0	334	e 9 26	?	e 13 46	- 5	21.3	25.5
Chiufeng	44.4	58	—	—	e 14 54	+13	e 24.6	28.5
Triest	44.7	310	—	—	e 15 16	+20	e 29.6	31.1
Prague	45.0	316	—	—	e 18 16?	?	—	29.3
Copenhagen	47.6	323	—	—	15 16?	-11	28.3	—
De Bilt	51.1	317	—	—	e 16 41	+25	e 27.3	33.7

For Notes see next page.

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NOTES TO JUNE 11d. 9h. 43m. 44s.

Additional readings:—

Hyderabad S = +9m.26s.

Tashkent e = +3m.55s., +5m.5s., +5m.21s., +7m.6s., +8m.10s., and +8m.33s.

Calcutta SSE = +9m.49s.

Helwan eS = +11m.16s.

Sverdlovsk e = +9m.18s., $L_q = +15.5m.$

Moscow e = +8m.38s., +9m.50s., +13m.26s., and +16m.47s.

Pulkovo e = +16m.38s.

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

June 11d. Readings also at 1h. (Florence and Mizusawa), 8h. (near Nagoya), 10h. (Semipalatinsk), 11h. (near Helwan, near La Paz, and near San Javier), 12h. (La Paz), 13h. (Adelaide, Melbourne, Riverview, Sydney, Perth, Manila, Wellington, Christchurch, Nanking, Chiufeng, Husan, Vladivostok, Tashkent, Sverdlovsk, Moscow, Pulkovo, Copenhagen, De Bilt, Strasbourg, and Uccle), 14h. (Stuttgart and Paris), 15h. (near Andijan), 19h. (Manila, Samarkand, Tashkent, and Sverdlovsk), 21h. (Tashkent, Sverdlovsk, Pulkovo, Ksara, Sochi, Piatigorsk, Tifis (2), and near Erevan), 22h. (Charlottesville) 23h. (Merida).

June 12d. 15h. 51m. 11s. Epicentre $18^{\circ}7'N$. $102^{\circ}7'W$. N.2.

$$A = -0.2082, B = -0.9240, C = +0.3206; \quad \delta = -9;$$

$$D = -0.976, E = +0.220; \quad G = -0.070, H = -0.313, K = -0.947.$$

		Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Manzanillo	E.	1.6	283	0 9	-14	—	—	—	—
Guadalajara	N.	2.1	343	0 33	+ 3	—	—	—	—
Tacubaya	N.	3.4	78	0 58	+ 9	—	—	—	—
Tucson		15.4	333	e 3 44	+10	e 6 43	+19	e 8.0	—
La Jolla	z.	19.3	321	e 4 20	- 2	—	—	—	—
Riverside	z.	20.1	323	e 4 29	- 2	—	—	—	—
Pasadena		20.7	323	e 4 37	0	—	—	e 11.3	—
Mount Wilson	z.	20.7	323	i 4 36	- 1	—	—	—	—
Santa Barbara	z.	21.8	320	e 4 49	0	—	—	—	—
Haiwee		22.0	326	e 4 53	+ 2	—	—	—	—
Florissant		22.8	26	i 4 58	- 1	i 9 15	+14	i 12.7	14.9
Tinemaha		22.9	326	i 5 0	0	—	—	—	—
La Paz		49.0	133	e 8 44	0	—	—	—	—
Pulkovo		92.8	22	e 18 35	?	e 25 2	+40	77.8	83.0
Sverdlovsk		103.2	9	—	—	e 24 27	[-41]	53.8	—
Tashkent		119.5	6	—	—	e 31 43	?	—	41.7

Additional readings:—

Florissant ePPN = +5m.28s., eSSEZ = +10m.8s.

Long waves were also recorded at Oaxaca, Huancayo, Bozeman, Oak Ridge, Madison, Scoresby Sund, De Bilt, Uccle, Paris, Strasbourg, Stuttgart, and Copenhagen.

June 12d. Readings also at 0h. (near Ksara), 1h. (near Hukuoka B and near Wellington), 3h. (near Santiago), 5h. (Sverdlovsk, Tashkent, Chiufeng, Kobe, Nagoya, near Hukuoka, Hukuoka B, and Sumoto), 6h. and 7h. (2) (near Wellington), 11h. (Zurich and near Triest), 13h. (Haiwee, La Jolla, Mount Wilson, Pasadena, Riverside, and Tinemaha), 14h. (Andijan, Sochi, near Samarkand, and near Nagoya), 15h. (Christchurch, Apia, Frunse, and near Amata), 16h. (La Jolla, Mount Wilson, Pasadena, Riverside, Tinemaha, and Wellington), 17h. (Erevan, Sochi, Tifis (2), and Piatigorsk), 18h. (Adelaide, Mount Wilson, Pasadena, Riverside, Drome, and near La Paz), 19h. (Sverdlovsk, Pulkovo, and Perth), 22h. (Oak Ridge, Batavia, and near Malabar), 23h. (La Paz and Sumoto).

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June 13d. 0h. 32m. 37s. Epicentre 31°·8N. 22°·4E. N.2.

A = +·7858, B = +·3239, C = +·5270; $\delta = +12$;
D = +·381, E = -·925; G = +·487, H = +·201, K = -·850.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Helwan	7·9	101	e 1 50	- 2	—	—	—	4·9
Capodimonte	11·2	327	e 2 40	+ 3	e 3 3	?	—	—
Ksara	11·5	76	e 2 45	+ 3	i 4 46	- 4	—	—
Bucharest	12·9	12	e 2 54	- 7	5 9	-16	—	5·4
Belgrade	13·1	354	e 2 54 _a	- 9	i 5 42	+13	e 8·0	—
Zagreb	14·9	342	e 3 21	- 6	—	—	—	6·3
Triest	15·4	337	3 27	- 7	i 5 55	-29	—	10·1
Laibach	15·5	339	—	—	i 5 57	-30	—	6·3
Sebastopol	15·5	31	3 31	- 4	e 6 31	+ 4	—	—
Yalta	15·7	33	3 32	- 6	6 32	+ 1	—	—
Padova	15·9	332	i 3 41	+ 1	—	—	—	—
Simferopol	16·0	32	i 3 36	- 5	6 38	0	—	—
Graz	16·2	343	i 3 39	- 5	i 6 6	-37	—	6·4
Theodosia	16·6	34	i 3 46	- 3	6 53	+ 1	—	—
Algiers	16·8	293	i 3 56	+ 4	e 7 9	+12	e 8·4	—
Vienna	17·1	346	e 3 50	- 5	e 7 0	- 4	e 11·4	—
Sotchi	18·0	44	i 4 6	- 1	—	—	—	—
Chur	18·0	331	e 4 4	- 3	e 7 3	-22	—	—
Zurich	18·8	330	e 4 14 _k	- 2	e 7 35	- 7	—	—
Prague	19·2	344	e 4 19	- 2	i 7 45	- 5	e 11·4	15·4
Neuchatel	19·2	327	e 4 18	- 3	—	—	—	—
Basle	19·4	329	e 4 21	- 2	e 8 5	+11	—	—
Stuttgart	19·7	334	i 4 26 _k	0	e 7 56	- 4	e 12·4	—
Cheb	19·7	341	e 4 56	+30	i 7 57	- 3	—	8·2
Tortosa	19·7	304	e 4 25	- 1	8 1	+ 1	—	—
Erevan	19·7	59	4 31	+ 5	8 4	+ 4	—	—
Alicante	19·8	295	4 33	+ 6	—	—	—	—
Strasbourg	20·1	331	i 4 29 _k	- 2	i 8 3	- 5	e 9·4	—
Piatigorsk	20·3	46	4 34	+ 1	8 14	+ 2	—	—
Tiflis	20·4	54	i 4 36	+ 2	i 8 17	+ 3	11·9	—
Jena	20·7	340	e 4 35	- 2	e 8 17	- 3	—	—
Almeria	21·1	291	4 43	+ 2	—	—	—	—
Göttingen	21·7	338	i 4 50	+ 2	e 8 41	+ 1	—	—
Granada	22·0	291	i 4 57	+ 6	e 8 45	- 1	12·1	—
Malaga	22·6	291	e 7 25	?	e 10 10	?	—	—
Paris	22·7	324	i 4 52	- 6	e 8 59	0	17·4	—
Toledo	22·8	298	e 5 2	+ 3	—	—	—	—
Uccle	23·2	329	e 5 4	+ 1	i 9 7	- 1	—	—
Hamburg	23·5	340	e 5 5	0	i 9 12	- 2	18·4	—
Baku	23·7	60	i 5 13	+ 6	i 9 25	+ 7	13·4	15·6
De Bilt	23·9	333	i 5 11 _k	+ 2	i 9 25	+ 4	e 14·4	14·9
San Fernando	24·0	289	e 5 15	+ 5	9 37	+14	—	—
Copenhagen	24·9	346	i 5 19 _k	0	9 34	- 5	13·4	—
Kew	25·8	326	e 5 27	0	e 9 56	+ 1	e 14·4	16·2
Moscow	26·2	19	i 5 28	- 3	9 53	- 9	16·6	18·0
Oxford	26·4	326	e 5 33	0	10 1	- 4	—	—
Pulkovo	28·5	8	i 5 49	- 3	10 29	-11	14·4	17·1
Edinburgh	30·0	331	e 8 23 _?	?	—	—	—	—
Sverdlovsk	36·3	35	i 7 2	+ 2	12 39	- 2	17·9	—
Samarkand	36·6	65	e 7 11	+ 8	—	—	e 14·7	—
Tashkent	38·4	62	e 7 55	+37	13 6	- 6	e 19·3	20·8
Dakar	40·1	254	e 7 28	- 5	—	—	e 17·4	—
Frunse	42·2	59	e 10 56	?	12 56	?	—	—
Scoresby Sund	45·6	341	—	—	14 59	0	—	—

For Notes see next page.

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NOTES TO JUNE 13d. 0h. 32m. 37s.

Additional readings :—

Bucharest eE = +4m.13s., eEN = +5m.2s.
 Belgrade e = +3m.34s., iP = +4m.58s.
 Zagreb e = +3m.27s., +3m.33s., and +3m.44s., ePPNW = +4m.4s., ePSNE = +4m.46s., e = +4m.55s., eNE = +5m.2s., eZ = +5m.29s., iSS = +5m.40s., i = +5m.45s.
 Trieste i = +3m.36s. and +3m.47s.
 Laibach i = +6m.7s.
 Stuttgart ePP = +5m.0s., iSEN = +8m.12s., eSS = +8m.42s. T₀ = 0h.32m.30s.
 Tifis ePPP = +5m.8s.
 Jena eN = 8m.1s. and 8m.6s.
 Granada iS_g = +5m.25s.
 Toledo P_g = +5m.7s.
 San Fernando ePP = +5m.46s.
 Tashkent PP = +8m.38s., PPP = +9m.0s., SS = +15m.23s.
 Dakar ePPP = +9m.9s.
 Scoresby Sund +17m.59s.
 Long waves were also recorded at La Paz and Cape Town.

June 13d. Readings also at 0h. (Granada, Malaga, San Fernando, Rio de Janeiro, and Tifis), 1h. (Andijan), 3h. (Mizusawa and Nagoya), 4h. (San Juan, Nagoya, near Andijan, Frunse (2), and Samarkand), 7h. (near Santiago), 8h. (Chiufeng, Manila, Tifis, and near Wellington), 9h. (Adelaide, Melbourne, Riverview, Perth, Vladivostok, Tashkent, Sverdlovsk, Pulkovo, and Copenhagen), 12h. (Manila, Sverdlovsk, and Tifis), 14h. (near Erevan and Tifis), 16h. (Batavia, Chur, and Zurich), 19h. (Andijan and Samarkand), 20h. (Merida, Oaxaca, Tacubaya, Tucson, Mount Wilson, Philadelphia, Baku, Andijan, and Tashkent), 21h. (Scoresby Sund, Sverdlovsk, Trieste, Hong Kong, Chiufeng, near Manila, and Taihoku), 22h. (Copenhagen).

June 14d. 2h. 27m. 47s. Epicentre 54°·8N. 161°·7E. (as on 1934 June 2d.). R.1.

$$A = -\cdot 5473, B = +\cdot 1810, C = +\cdot 8171; \quad \delta = -5;$$

$$D = +\cdot 314, E = +\cdot 949; \quad G = -\cdot 776, H = +\cdot 257, K = -\cdot 576.$$

	Δ	Az.	P.	O - C.	S.	O - C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	20·9	230	4 49	+10	8 49	+25	—	—
Vladivostok	22·5	251	e 5 9	+13	e 9 20	+25	11·3	15·7
Nagoya	26·0	231	e 5 27	- 2	—	—	—	—
Chiufeng	33·4	264	e 8 0	?	e 12 26	+29	e 17·2	23·1
Nanking	37·7	251	e 8 58	?	e 14 2	+60	e 18·7	25·1
Semipalatinsk	46·8	301	e 10 40	?	—	—	—	—
Sverdlovsk	51·4	317	i 9 3	+ 1	16 17	- 3	30·7	32·8
Frunse	54·7	296	e 9 32	+ 6	—	—	—	—
Scoresby Sund	54·7	2	9 27k	+ 1	17 7	+ 2	26·2	—
Tinemaha	55·1	74	i 9 29	- 1	—	—	—	—
Haiwee	E. 55·9	74	e 9 36	+ 1	—	—	—	—
Santa Barbara	Z. 56·2	77	e 9 36	- 1	—	—	—	—
Mount Wilson	Z. 57·3	76	i 9 46	+ 1	—	—	—	—
Pasadena	57·3	76	i 9 45	0	e 17 40	0	—	—
Andijan	57·4	296	e 9 54	+ 8	17 55	+13	—	—
Tashkent	58·6	298	e 9 56	+ 1	e 17 57	0	27·9	36·8
La Jolla	Z. 58·7	76	e 9 57	+ 2	—	—	—	—
Pulkovo	59·1	334	9 57	- 1	18 4	0	32·2	37·5
Moscow	60·4	327	10 7	0	18 22	+ 1	35·7	38·3
Copenhagen	66·7	342	10 48a	- 2	19 37	- 4	32·2	—
Florissant	68·0	53	i 10 56	- 2	i 19 51	- 6	e 32·7	35·6
Baku	68·5	311	e 11 4	+ 3	e 20 8	+ 5	35·2	45·2
Edinburgh	68·6	351	—	—	e 20 3	- 1	—	—
Ottawa	68·7	39	—	—	e 19 53	-12	e 33·2	—
Tifis	69·6	315	11 9	+ 1	e 20 14	- 2	37·2	46·7
Theodosia	70·3	322	e 11 13	0	—	—	—	—
Simferopol	70·8	324	e 11 14	- 2	—	—	—	—
Erevan	71·0	314	e 11 17	0	—	—	—	—
Yalta	71·2	323	e 11 16	- 2	—	—	—	—
Sebastopol	71·3	324	e 11 29	+10	—	—	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
De Bilt	71.3	345	11 18 _a	- 1	21 27	+50	e 35.2	—
Oak Ridge	z. 72.7	38	i 11 25	- 2	—	—	—	—
Kew	72.7	349	e 11 25	- 2	e 21 30	+37	e 34.2	—
Uccle	72.7	346	e 11 27	0	e 21 30	+37	e 35.2	—
Vienna	72.9	337	e 11 20	- 8	—	—	—	—
Philadelphia	73.5	42	—	—	e 21 4	+ 1	e 37.6	—
Stuttgart	73.9	342	i 11 33 _a	- 1	e 14 19	PP	e 39.2	—
Strasbourg	74.3	343	i 11 37 _a	+ 1	—	—	e 32.2	—
Paris	74.9	346	i 11 40	0	—	—	39.2	—
Zurich	75.3	342	e 11 42	0	—	—	—	—
Chur	75.6	341	e 11 43	- 1	—	—	—	—
Triest	75.9	338	e 11 43	- 2	e 21 28	- 2	e 39.2	47.0
Toledo	z. 84.6	350	12 32	+ 1	—	—	—	—

Additional readings :—

Sverdlovsk $L_0 = +27.6m.$

Copenhagen $+19m.54s.$ and $+20m.45s.$

Florissant $iSZ = +19m.55s., eSSE = +24m.21s., eSSSE = +27m.32s.$

Tiflis $P_0P = +11m.52s., e = +20m.25s.$ and $+21m.47s.$

Philadelphia $eSS = +25m.42s., e = +30m.1s.$ and $+30m.57s.$

Long waves were also recorded at Sitka, Tucson, Hong Kong, Bombay, Hyderabad, Upsala, Hamburg, Bidston, Prague, Granada, and San Fernando.

June 14d. 10h. 4m. 24s. Epicentre $75^\circ 0N. 7^\circ 0E.$ (as on 1927 Aug. 8d.). X.

$$A = +.2569, B = +.0315, C = +.9659; \quad \delta = -5;$$

$$D = +.122, E = -.993; \quad G = +.959, H = +.118, K = -.259.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Scoresby Sund	9.6	257	2 26	+10	—	—	4.6	—
Pulkovo	17.4	138	3 47	-12	7 7	- 4	8.6	9.4
Copenhagen	19.4	171	4 15	- 8	—	—	9.6	—
Moscow	22.5	131	4 55	- 1	8 43	-12	12.6	17.0
De Bilt	22.9	183	—	—	9 12	+ 9	e 12.6	—
Paris	26.2	187	—	—	9 36?	-26	—	—
Sverdlovsk	26.8	102	i 5 40	+ 4	e 10 20	+ 8	14.6	—
Simferopol	32.2	143	e 6 23	- 1	—	—	—	—
Yalta	32.7	142	e 7 6	+37	—	—	—	—
Tiflis	37.3	131	e 5 48	?	e 10 4	?	—	—
Tashkent	43.3	104	—	—	e 17 50	?	e 19.6	27.7
Mount Wilson	z. 65.2	311	e 10 46	+ 6	—	—	—	—
Pasadena	z. 65.3	311	e 10 50	+ 9	—	—	—	—

Tiflis gives also $e = +7m.8s.$

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

June 14d. 17h. 1m. 34s. Epicentre $36^\circ 5N. 36^\circ 0E.$ (as on 1929 May 16d.). R.2.

$$A = +.6503, B = +.4725, C = +.5948; \quad \delta = -7;$$

$$D = +.588, E = -.809; \quad G = +.481, H = +.350, K = -.804.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara	2.7	182	e 0 45	P*	i 1 20	S*	—	—
Erevan	7.6	58	e 1 52	+ 4	—	—	—	—
Sotchi	7.6	21	e 1 48	0	e 3 24	+10	e 5.4	—
Helwan	7.7	212	e 1 53	+ 4	e 3 15	- 1	—	—
Yalta	8.1	351	e 1 58	+ 3	i 4 1	+35	—	—
Sebastopol	8.3	348	e 2 3	+ 5	—	—	—	—
Simferopol	8.5	351	e 1 59	- 1	e 3 58	+22	—	—
Theodosia	8.5	357	e 2 4	+ 4	—	—	—	—
Tiflis	8.6	50	2 3	+ 1	e 4 12	+33	14.6	5.4
Piatigorsk	9.2	33	e 2 13	+ 3	—	—	e 5.1	—
Grozny	10.1	44	e 2 30	+ 8	—	—	e 5.4	—
Bucharest	10.9	320	e 2 35	+ 2	e 5 41	S _g	6.4	8.1
Baku	11.5	66	e 2 46	+ 4	5 56	S*	7.4	—
Czernowitz	N. 13.9	332	e 3 26?	+12	—	—	—	9.4
Belgrade	14.4	310	i 3 19	- 2	e 6 26	+25	e 7.8	9.4

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Budapest	16.6	317	3 50	+ 1	7 3	+11	8.9	12.4
Zagreb	17.6	308	e 4 1k	- 1	e 7 32	+17	e 9.7	10.8
Graz	18.5	311	i 4 11	- 2	e 7 40	+ 4	e 9.4	11.0
Vienna	18.5	315	e 4 11	- 2	e 7 45	+ 9	e 12.6	—
Triest	19.0	306	4 15a	- 4	i 7 59	+13	10.2	12.4
Moscow	19.3	3	4 18	- 4	7 54	+ 2	11.6	14.1
Padova	20.2	305	e 4 32	0	11 20	L	(11.3)	—
Prague	20.6	319	e 4 32	- 4	e 8 28	+10	e 10.9	13.9
Königsberg	21.2	335	e 4 41	- 1	e 8 33	+ 3	e 13.6	—
Cheb	21.7	316	e 4 44	- 4	e 8 50	+10	—	15.1
Chur	22.1	306	e 4 53	+ 1	e 7 55	-53	—	—
Jena	22.6	317	e 5 2	+ 5	e 9 2	+ 5	e 12.4	17.5
Stuttgart	23.0	311	e 4 58	- 3	e 9 8	+ 3	e 11.9	15.5
Pulkovo	23.5	353	4 56	- 9	9 22	+ 8	14.4	15.9
Basle	23.6	307	e 5 24	+18	—	—	—	—
Strasbourg	23.8	310	i 5 5a	- 3	9 24	+ 5	e 11.4	14.0
Neuchatel	23.9	305	e 5 9	0	—	—	—	—
Samarkand	24.5	74	5 18	+ 3	e 9 49	+17	—	—
Hamburg	24.8	322	e 5 15	- 3	i 10 15	+38	—	14.4
Copenhagen	24.9	328	5 18	- 1	9 44	+ 5	12.4	—
Sverdlovsk	26.1	31	i 5 30	0	i 10 1	+ 1	17.6	18.3
Tashkent	26.2	69	i 5 31	0	i 9 59	- 3	14.4	19.1
Upsala	26.2	339	5 27	- 4	10 7	+ 5	e 15.4	18.6
Algiers	26.3	280	i 5 38	+ 6	e 9 38	-25	e 11.4	—
De Bilt	26.7	315	5 34	- 1	e 10 37	+27	e 12.4	20.4
Uccle	26.7	312	e 5 35	0	e 10 16	+ 6	e 13.4	—
Paris	27.3	307	e 5 39	- 2	e 10 48	+28	14.4	15.4
Andijan	28.5	71	e 6 0	+ 8	—	—	e 13.0	—
Kew	29.6	312	e 6 6	+ 5	e 11 33	+35	14.4	20.0
Frunse	30.1	67	e 6 9	+ 3	—	—	—	—
Granada	31.4	284	i 6 19	+ 2	e 11 27	+ 1	—	—
Toledo	31.4	289	6 16	- 1	—	—	—	—
Bidston	31.8	315	—	—	e 11 28	- 4	14.7?	19.3
Malaga	32.2	283	e 6 24	0	e 11 20	-18	—	—
San Fernando	33.7	282	e 6 35	- 3	e 11 58	- 3	19.4	—
Bombay	N. 36.7	109	i 7 17	+13	i 13 1	+14	—	—
Hyderabad	41.9	106	7 51	+ 3	14 11	+ 6	19.7	28.2
Scoresby Sund	45.2	337	8 16k	+ 2	15 8	+14	24.4	—
Calcutta	E. 47.0	93	—	—	e 13 51	?	i 19.0	30.6
Colombo	49.7	116	8 43	- 6	—	—	—	32.3
Chiufeng	60.7	60	10 10a	+ 1	i 18 28	+ 3	—	35.6
Nanking	66.3	67	e 10 51	+ 4	19 41	+ 5	—	40.6
Ottawa	77.6	319	—	—	e 21 26?	-23	e 36.4	—
Florissant	89.9	321	i 12 57	0	e 23 55	0	e 39.2	46.0
Mount Wilson	z. 105.2	338	e 18 4	[+ 2]	i 18 28	?	—	—
Pasadena	105.4	338	e 18 20	[+17]	i 18 28	?	—	—

Additional readings :—

Tiflis e = +2m.20s., +2m.38s., +3m.11s., and +3m.53s.
 Bucharest SSSSEN = +6m.14s.
 Belgrade e = +3m.51s. and +5m.28s.
 Budapest PN = +3m.54s., PPPN = +4m.11s.
 Zagreb ePP = +4m.18s., ePPP = +4m.46s.
 Triest iP = +4m.17s., i = +5m.29s., iE = +9m.6s., iN = +9m.40s.
 Prague iP = +4m.35s., ePP = +5m.1s.
 Königsberg iPPEZ = +4m.45s., iPPPZ = +5m.14s., iPcSE = +8m.39s., eE = +11m.5s., iPSE = +13m.5s.
 Jena eE = +9m.8s.
 Stuttgart eSS = +10m.26s.
 Sverdlovsk L₀ = +15m.8s.
 Uccle iE = +10m.35s.
 Malaga e = +7m.28s. and +9m.58s.
 Scoresby Sund +9m.59s. and +18m.26s.
 Florissant ePEN = +13m.1s., ePPZ = +16m.35s., eSKSE = +23m.36s., ePSE = +25m.6s.

Long waves were also recorded at Tucson, Bozeman, Cape Town, Ivigtut, Durham, Göttingen, Bergen, Tortosa, and Huancayo.

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June 14d. Readings also at 0h. (Christchurch, Perth, Mount Wilson, Pasadena, and Sverdlovsk), 1h. (Tashkent), 5h. (near Santiago), 6h. (Samarkand, Tiflis, Moscow, Pulkovo, Copenhagen, De Bilt, Uccle, and Triest), 13h. (near Hukuoka and Hukuoka B), 17h. (Andijan, near Samarkand, and near Ferndale), 20h. (Ksara), 22h. (Tashkent, Sverdlovsk, Scoresby Sund, Fresno, Branner, Lick, and near Berkeley).

June 15d. Readings at 0h. (Madison and Tiflis), 1h. (Oak Ridge), 2h. (Grozny), 3h. (Manila and Nagoya), 5h. (Samarkand), 6h. (La Paz), 7h. (Mount Wilson, Pasadena, Agra, Andijan, Frunse, near Mizusawa, and near La Paz), 8h. (Baku, Sverdlovsk, Tiflis, Tashkent, Pulkovo, Copenhagen, and Scoresby Sund), 9h. (Haiwee, Mount Wilson, Pasadena, Königsberg, and near Apia), 10h. (Sverdlovsk, Nagoya, and near Manila), 13h. (Batavia, near Malabar, and near Hukuoka B), 14h. (Andijan, Tashkent, Sverdlovsk, Florence, near Triest, and near Frunse), 17h. (near Ferndale), 22h. (near Manila).

June 16d. 0h. 33m. 37s. Epicentre $14^{\circ}8S$. $175^{\circ}0W$. (as on 1935 Jan. 1d.). R.2.

A = -0.9631, B = -0.0843, C = -0.2554; $\delta = -10$;
D = -0.087, E = +0.996; G = +0.255, H = +0.022, K = -0.967.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Apia	3.3	72	e 0 46k	- 1	2 23?	?	—	—
Arapuni	24.7	198	—	—	i 11 5	?	12.4	—
Wellington	27.9	197	i 6 57	+71	10 54	+24	12.9	16.4
Christchurch	30.6	197	e 9 55	?	e 13 21	?	14.5	—
Riverview	36.0	232	—	—	e 11 23	-73	e 15.1	18.7
Sydney	36.0	232	—	—	e 11 48	-48	18.4	22.2
Melbourne	42.2	229	—	—	i 14 0	- 9	e 23.0	24.2
Adelaide	46.2	235	—	—	e 14 58	- 9	e 18.6	25.4
Manila	69.8	292	11 10	+ 1	19 35	-44	—	35.4
Santa Barbara z.	72.0	45	i 11 28	+ 5	—	—	—	—
Ukiah	72.4	40	—	—	e 20 53	+ 3	e 29.5	—
La Jolla z.	72.9	48	i 11 32	+ 4	—	—	—	—
Pasadena	72.9	47	i 11 27	- 1	e 20 59	+ 3	e 29.6	—
Mount Wilson z.	73.0	46	i 11 28	- 1	—	—	—	—
Haiwee	74.1	45	e 11 39	+ 4	—	—	—	—
Tinemaha z.	74.4	44	e 11 29	- 8	—	—	—	—
Batavia	77.0	267	10 17	?	21 44	+ 1	—	—
Tucson	77.3	50	e 11 56	+ 2	e 21 53	+ 7	e 32.4	—
Nanking	78.8	308	e 12 3	+ 2	e 22 5	+ 2	e 37.4	—
Sitka	79.0	20	e 12 23	+20	e 22 8	+ 3	e 32.4	—
College	82.3	11	—	—	e 22 23	-17	e 34.4	—
Chiufeng	84.2	314	e 12 26	- 3	e 22 55	- 5	e 39.9	44.0
Florissant	95.1	51	e 17 3	PP	i 24 4	[+ 2]	e 43.8	48.2
Huancayo	96.1	104	—	—	e 24 29	{+ 5}	e 39.4	—
La Paz E.	101.3	111	e 14 23	+33	i 27 57	+139	54.4	62.9
Ottawa	106.9	46	—	—	e 25 5	[+ 7]	e 46.4	—
San Juan	112.2	75	e 20 23	?	e 25 23	[0]	e 52.4	—
Tashkent	118.9	309	e 19 48	PP	26 29	[+42]	e 52.4	64.8
Rio de Janeiro	119.6	128	—	—	27 23?	?	—	—
Sverdlovsk	120.8	328	20 19	PP	—	—	55.4	67.5
Scoresby Sund	121.9	11	21 35	PPP	32 5	?	50.4	—
Pulkovo	131.4	344	19 17	[+ 8]	—	—	61.4	70.3
Moscow	132.1	336	19 19	[+ 9]	—	—	56.9	83.0
Baku	133.4	312	—	—	22 48	PPS	61.4	81.2
Tiflis	136.4	316	e 19 23	[+ 6]	—	—	e 68.4	80.9
Edinburgh	138.4	7	—	—	e 40 23?	SS	—	84.4
Copenhagen	138.7	354	19 23?	[+ 3]	22 23?	PP	68.4	—
Hamburg	141.0	355	e 19 23?	[0]	—	—	e 70.4	—
Simferopol	141.1	327	e 19 43	[+20]	—	—	—	—
Yalta	141.4	326	e 23 28	PP	—	—	—	—
Kew	143.1	5	e 22 1	PP	—	—	e 75.4	83.9
Uccle	144.0	2	e 19 33	[+ 2]	—	—	e 60.4	—
Paris	145.9	3	i 19 37	[+ 1]	—	—	77.4	87.4
Stuttgart	145.9	355	e 19 37	[+ 1]	—	—	e 70.4	—
Strasbourg	146.1	357	e 19 38	[+ 2]	—	—	e 61.4	—

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.
Zurich	147.3	355	e 19 47	[+ 9]	—	—	—	—
Zagreb	147.6	346	e 19 42	[+ 4]	—	—	e 78.7	—
Triest	148.3	348	e 19 39	[0]	—	—	e 70.4	77.8
Padova	148.8	351	e 20 8	[+28]	—	—	—	—
Toledo	z. 153.7	16	20 16	[+29]	—	—	—	—
San Fernando	156.2	23	e 19 50	[+ 1]	—	—	79.4	—
Granada	156.4	17	e 20 29	[+40]	—	—	82.4	—

Additional readings and notes :—

Wellington SS? = +11m.57s.

The New Zealand stations give all their phases with uncertainty.

Sydney i = +12m.47s.

Melbourne i = +18m.48s., +20m.25s., and +20m.46s.

Pasadena i = +11m.33s.

Mount Wilson iZ = +11m.34s.

Tinemaha i = +11m.43s.

Chiufeng ePEN = +12m.34s.

Florissant iPPPZ = +18m.56s., eSKSE = +23m.0s., ePSE = +25m.24s.,

eSSEN = +31m.4s., eSSZ = +31m.14s.

La Paz iE = +29m.29s.

Ottawa e = +34m.5s.

San Juan e = +30m.59s.

Tashkent iPP = +20m.26s., PPP = +23m.24s., SKKS = +27m.29s., PS =

+30m.23s., PPS = +31m.34s., SS = +36m.23s.

Sverdlovsk i = +20m.43s., PS = +30m.7s., PPS = +31m.33s., SS = +37m.17s.

Pulkovo PKS = +22m.41s., PS = +31m.53s., PPS = +34m.25s., SS = +39m.29s.

Moscow PP = +21m.11s., PKS = +22m.45s., PS = +31m.45s.

Baku PS = +32m.16s., SS = +40m.11s., SSS = +44m.41s.

Tiflis e = +23m.3s., +24m.12s., +35m.11s., and +45m.23s.

Zagreb eP = +19m.50s., eZ = +19m.55s., eNE = +20m.8s., eNW = +20m.52s.,

+23m.47s.

Triest i = +21m.30s., eSS = +43m.1s.

Long waves were also recorded at Perth, Honolulu, Vladivostok, Chicago, Columbia, Cape Town, Ivigtut, Upsala, Graz, Cheb, De Bilt, Stonyhurst, Prague, and Tortosa.

June 16d. 3h. 30m. 59s. Epicentre 33°·3S. 71°·8W. (as on 1932 Nov. 29d.). X.

$$A = +.2611, B = -.7940, C = -.5490; \quad \delta = +1;$$

$$D = -.950, E = -.312; \quad D = -.171, H = +.522, K = -.836.$$

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Santiago	0.9	99	0 14	+ 1	0 25	+ 2	—
San Javier	2.4	179	0 37	+ 3	1 4	+ 2	—
La Plata	11.6	102	2 39	- 4	4 49	- 4	5.7
La Paz	17.1	12	3 57	+ 2	7 17	+13	10.2
Mount Wilson	z. 80.2	323	i 12 6	- 3	—	—	—
Pasadena	z. 80.2	323	i 12 5	- 4	—	—	—

June 16d. Readings also at 1h. (near Branner), 3h. (Santiago, Samarkand, Kobe, near Sumoto, and Nagoya), 4h. (Santiago), 5h. (Tiflis), 8h. and 12h. (Santiago), 15h. (Agra, Calcutta, Bombay, Andijan, Frunse, Tiflis, Samarkand, Baku, Sverdlovsk, Grozny, Ksara, Moscow, Pulkovo, Copenhagen, and De Bilt), 16h. (Tiflis), 18h. (near Batavia (2) and Malabar (3)), 19h. (Batavia, Malabar (2), Baku, Sverdlovsk, Pulkovo, Copenhagen, Triest, Tiflis, and Scoresby Sund), 20h. (Yalta), 23h. (Batavia, Manila, Sverdlovsk, Kobe, and near Sumoto).

June 17d. 8h. 40m. 52s. Epicentre 25°·5N. 55°·2E. (as on 1935 July 2d.). X.

$$A = +.5151, B = +.7412, C = +.4305; \quad \delta = +4;$$

$$D = +.821, E = -.571; \quad G = +.246, H = +.354, K = -.903.$$

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Tiflis	18.3	335	e 4 3	- 7	e 8 5	+34	e 9.1
Grozny	19.4	340	e 4 25	+ 2	—	—	—
Andijan	20.9	38	e 4 42	+ 3	e 8 37	+13	—
Frunse	23.5	37	e 5 8	+ 3	—	—	—
Yalta	25.5	324	e 5 22	- 3	e 9 43	- 7	—
Simferopol	25.8	324	—	—	e 9 42	-13	—

Long waves also recorded at Baku and Sverdlovsk.

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June 17d. 8h. 55m. 52s. Epicentre 35.8N. 139° 9E. (as on 1935 June 4d.). R.3.

Close to the positions determined by Tokyo.

$$A = -.6204, B = +.5224, C = +.5850; \quad \delta = +2.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	M. m.
Komaba	0.2	230	0 1	- 2	0 12	+ 7	—
Tokyo	0.2	223	0 3	0	0 12	+ 7	0.2
Tokyo (Imp. Univ.)	0.2	223	0 5	+ 2	0 14	+ 9	—
Mitaka	0.3	245	0 6	+ 2	0 15	+ 7	—
Tukubasan	0.4	21	0 7	+ 1	0 16	+ 6	—
Kamakura	0.5	210	0 6	- 1	0 15	+ 2	—
Kiyosumi	0.7	160	0 7	- 3	0 17	- 1	—
Nagoya	2.4	255	e 0 54	P _g	1 15	S _s	—

June 17d. Readings also at 0h. (Philadelphia), 1h. (Sumoto), 4h. (Kobe, near Nagoya, and Sumoto), 9h. (La Paz), 11h. (Tacubaya), 12h. (Calcutta), 14h. (Calcutta, near Santiago, and San Javier), 16h. (near Apia), 18h. (College), 20h. (Madison and Malabar).

June 18d. 14h. 56m. 27s. Epicentre 26° 6N. 90° 3E. N.2.

$$A = -.0047, B = +.8941, C = +.4478; \quad \delta = -4;$$

$$D = +1.000, E = +.005; \quad G = -.002, H = +.448, K = -.894.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Calcutta E.	4.5	204	0 56	- 8	1 53	- 2	—	4.5
Agra E.	11.0	276	2 28	- 7	4 28	-10	—	—
Dehra Dun	11.4	292	4 33	S	(4 33)	-15	6.2	6.6
Hyderabad	14.3	232	5 32	S	(5 32)	-26	7.5	9.1
Phu-Lien	16.0	108	e 2 33?	?	e 6 40	+ 2	—	—
Bombay	17.8	248	e 4 5	+ 1	e 7 8	-12	8.9	9.4
Almata	19.9	330	4 30	+ 1	8 16	+12	—	—
Kodaikanal E.	20.4	221	i 4 34	0	e 7 53	-21	9.2	10.3
Andijan	20.5	317	4 36	+ 1	8 30	+14	—	—
Frunse	20.7	325	4 44	+ 7	e 8 43	+23	—	9.0
Tashkent	22.7	315	i 4 56	- 2	i 9 8	+ 9	12.9	13.8
Samarkand	23.4	308	5 7	+ 2	e 9 17	+ 5	—	—
Medan	24.4	160	5 16	+ 2	9 31	+ 1	—	—
Chiufeng	25.3	50	e 5 24	+ 1	e 9 50	+ 4	—	16.1
Nanking	25.3	71	e 5 21	- 2	e 10 2	+16	e 13.8	—
Baku	36.0	303	7 0	+ 2	12 43	+ 7	e 20.6	25.1
Sverdlovsk	36.9	333	i 7 5	- 1	i 12 49	- 1	18.6	—
Vladivostok	37.4	53	e 8 9	+59	e 12 48	- 9	20.8	23.4
Grozny	39.6	306	7 32	+ 3	e 13 32	+ 2	—	—
Tiflis	40.0	304	e 7 32	0	e 13 34	- 2	e 21.2	33.8
Sotchi	43.9	306	e 8 8	+ 4	—	—	—	—
Theodosia	47.2	308	e 8 30	0	—	—	—	—
Moscow	47.5	322	8 32	0	e 14 54	-32	—	—
Yalta	48.0	307	e 8 34	- 2	e 15 32	- 1	—	—
Simferopol	48.1	308	e 8 34	- 3	e 15 34	0	—	—
Sebastopol	48.4	308	e 8 44	+ 5	—	—	—	—
Pulkovo	52.3	327	9 6	- 3	16 30	- 3	27.6	32.4
Copenhagen	61.6	321	10 13	- 3	33 33	L	(33.6)	—

Additional readings:—

Calcutta P*E = +1m.11s.

Agra P_g = +3m.38s., S_g = +5m.47s.

Hyderabad S = +6m.58s.

Kodaikanal SSE = +8m.34s.

Moscow e = +11m.12s.

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

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June 18d. 19h. 51m. 56s. Epicentre 36°·0N. 139°·9E. (as on 1936 May 1). R.3.

$$A = -0.6188, B = +0.5211, C = +0.5878; \quad \delta = -3;$$

$$D = +0.644, E = +0.765; \quad G = -0.450, H = +0.379, K = -0.809;$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	M. m.
Tukubasan	0.3	37	0 7	+ 3	0 17	+ 9	—
Komaha	0.4	207	0 14	?	0 23	+13	—
Mitaka	0.4	220	0 9	+ 3	0 19	+ 9	—
Tokyo	0.4	207	0 6	0	0 16	+ 6	0.3
Komakura	0.7	203	0 3	- 7	0 14	- 4	—
Kiyosumi	0.9	167	0 10	- 3	0 23	0	—
Susaki	1.5	209	0 15	- 6	0 33	- 6	—
Nagoya	2.5	250	0 40	+ 4	e 1 7	+ 3	—

June 18d. Readings also at 0h. (Sumoto, Alicante, Toledo, near Almeria, Granada, and Malaga), 5h. (Sumoto), 6h. (Sumoto and La Paz), 9h. (Theodosia), 10h. (near Reykjavik), 11h. (Padova, Zurich, near Triest, Florence, Zagreb, and near Reykjavik (2)), 12h. (Granada and near Reykjavik), 13h. (Grozny and Tifis (4)), 14h. and 15h. (Tifis), 16h. (near Sumoto), 18h. (Tifis and Toledo).

June 19d. 16h. 34m. 51s. Epicentre 26°·4N. 96°·9E. N.2.

$$A = -0.1076, B = +0.8892, C = +0.4446; \quad \delta = -8;$$

$$D = +0.993, E = +0.120; \quad G = -0.053, H = +0.441, K = -0.896.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Calcutta	E. 8.7	245	2 6	+ 3	3 35	- 6	—	8.7
Phu-Lien	10.5	120	2 29	+ 1	i 5 19	+53	5.6	5.7
Hong Kong	16.2	101	6 59	S	(6 59)	+16	8.6	9.1
Agra	E. 16.9	277	3 42	-11	6 42	-17	—	—
Hyderabad	19.3	246	4 21	- 1	8 8	+16	10.2	14.5
Nanking	E. 19.8	68	4 30	+ 3	8 18	+16	11.1	12.3
Chiufeng	E. 21.0	43	e 4 39	- 1	8 37	+11	—	12.7
	N. 21.0	43	e 4 42	+ 2	8 40	+14	—	12.7
Taihoku	22.2	88	e 9 5	?	e 12 0	?	—	—
Medan	22.9	177	5 0	0	12 5	L	(12.1)	—
Almata	23.4	322	5 7	+ 2	9 29	+17	e 10.5	—
Bombay	23.4	257	i 5 7	+ 2	i 9 15	+ 3	11.2	15.6
Kodaikanal	E. 24.5	235	e 5 14	- 1	9 33	+ 1	—	—
Frunse	24.6	318	e 5 24	+ 8	e 9 55	+21	—	—
Andijan	24.8	311	e 5 12	- 6	e 9 58	+21	—	—
Colombo	25.4	224	9 44	S	(9 44)	- 4	—	16.8
Manila	25.4	113	5 28	+ 4	9 56	+ 8	12.6	—
Tashkent	27.2	311	6 2	+22	e 10 35	+17	i 15.8	17.2
Zinsen	27.4	59	e 8 11	?	—	—	e 15.1	—
Keizyo	27.7	59	e 9 8	?	e 12 3	?	e 15.6	—
Taikyu	28.6	63	e 8 16	?	e 16 15	L	(e 16.2)	—
Vladivostok	32.9	51	e 5 58	-33	—	—	17.8	19.2
Batavia	34.0	162	e 6 24	-16	17 1	L	(17.0)	—
Sverdlovsk	39.9	330	i 7 28	- 3	13 29	- 6	25.2	24.2
Baku	41.1	303	7 43	+ 2	13 59	+ 6	23.2	—
Grozny	44.5	307	8 14	+ 5	—	—	42.6	—
Tifis	45.1	304	8 14	0	e 14 56	+ 4	e 20.8	32.6
Ksara	52.6	294	e 9 9	- 2	e 16 44	+ 7	—	—
Yalta	52.8	307	e 11 25	PP	e 17 15	+36	—	—
Simferopol	52.9	308	e 9 30	+17	e 16 43	+ 2	—	—
Pulkovo	55.7	327	9 33	- 1	17 23	+ 4	27.2	34.2
Copenhagen	65.4	323	10 41	0	19 27	+ 2	37.2	—
Hamburg	67.3	321	—	—	e 19 9?	-39	e 36.2	—
Stuttgart	69.0	316	e 11 0	- 5	e 20 9	0	e 37.2	—
De Bilt	70.5	319	11 11	- 3	e 20 29	+ 2	e 38.2	46.6
Paris	73.2	317	e 11 28	- 2	—	—	41.2	—
Edinburgh	73.7	325	—	—	e 21 9?	+ 4	—	—
Kew	73.9	321	e 11 28	- 6	—	—	e 40.2	—

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NOTES TO JUNE 19d. 16h. 34m. 51s.

Additional readings:—

Calcutta S*E = +4m.1s., S_gE = +4m.27s.
 Hong Kong S = +8m.20s.
 Agra PPE = +3m.56s., SSE = +7m.5s.
 Chiufeng iS_cSN = +15m.42s.
 Medan iSN = +12m.15s.
 Bombay PPEN = +5m.29s.
 Tashkent iPP = +6m.38s.
 Sverdlovsk L_q = +21.4m.
 Tifis e = +8m.25s., ePP = +9m.56s., eSS = +18m.27s.
 Ksara eSS = +15m.21s.
 Copenhagen +20m.39s.

Long waves were also recorded at Husan, Scoresby Sund, Granada, San Fernando, Bergen, Moscow, Bidston, Uccle, Trieste, and Strasbourg.

June 19d. 16h. 39m. 45s Epicentre 34°·4N. 134°·8E. (as on 1934 Nov. 3d.). X.

A = -·5814, B = +·5855, C = +·5650; δ = +6;

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Sumoto	0·1	128	i 0 0	- 1	i 0 3	0	0·1
Kobe	0·4	48	e 0 9k	+ 3	i 0 18	+ 8	0·4
Nagoya	1·9	67	0 35	P _g	1 1	S _g	—
Hukuoka B	3·7	258	e 2 1	S _g	e 2 51	?	—

June 19d. Readings also at 1h. (Sumoto), 4h. (Mizusawa), 5h. (Nagoya and Mizusawa), 6h. (Tifis (2), Mizusawa, and near Nagoya), 12h. (Manila, Trieste, Bucharest, and Zagreb), 13h. (Tacubaya), 14h. (Almata, Andijan, Frunse, Samarkand, Tashkent, Sverdlovsk, and Manila), 17h. (near Bagnères), 22h. (near Branner), 23h. (Charlottesville).

June 20d. 3h. 24m. 12s. Epicentre 35°·7N. 100°·3W. (as given by St. Louis). N.3.

A = -·1452, B = -·7990, C = +·5835; δ = -4;
 D = -·984, E = +·179; G = -·104, H = -·574, K = -·812.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Des Moines	7·8	39	—	—	e 3 44	S*	—
Florissant	8·5	65	i 1 59	- 1	i 3 38	+ 2	i 4·8
St. Louis	8·5	67	e 2 1	+ 1	i 3 39	+ 3	—
Tucson	9·4	252	e 2 48	S*	e 4 11	+12	—
Oak Ridge	23·2	64	i 5 2	- 1	—	—	i 12·1

Additional readings:—

Des Moines e = +4m.11s.
 Florissant iS*N = +4m.8s., iS_gN = +4m.43s.
 St. Louis iS_gN = +4m.37s.
 Tucson eS* = +4m.21s.

June 20d. 6h. 32m. 17s. Epicentre 40°·4N. 29°·5W. (as on 1931 July 9d.). X.

A = +·6628, B = -·3750, C = +·6481; δ = -4;
 D = -·492, E = -·870; G = +·564, H = -·319, K = -·762.

The stations recording P for this shock are situated in Azimuths ranging only from 30° to 90°. In consequence any determination made on this data would be of little value, and the readings have been referred to the epicentre of 1931 July 9d.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
San Fernando	18·6	95	4 13	- 1	8 1	+23	9·2	—
Toledo	19·4	83	e 4 14	- 9	e 7 47	- 7	e 9·4	11·4
Malaga	19·9	92	e 4 25	- 4	—	—	—	—
Granada	20·4	91	i 4 28	- 6	e 7 52	-22	—	—
Bidston	22·0	45	e 5 4	+13	e 9 3	+17	e 10·7	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Oxford	22.4	50	4 58	+ 3	i 9 10	+17	e 11.2	—
Kew	22.9	51	e 5 2 _a	+ 2	e 9 0	- 3	e 10.7	—
Edinburgh	23.2	39	e 4 43	-20	e 9 25	+17	—	—
Paris	24.1	59	e 5 3	- 8	e 9 34	+ 9	11.7	12.7
Uccle	25.6	55	e 5 27	+ 2	e 9 55	+ 4	e 11.7	—
De Bilt	26.3	52	5 35	+ 3	10 6	+ 3	e 12.7	15.1
Strasbourg	27.5	60	e 4 43?	-60	—	—	e 11.7	—
Stuttgart	28.4	60	e 5 49	- 2	—	—	e 13.7	—
Hamburg	29.5	50	e 6 43?	+42	—	—	—	—
Cheb	30.6	59	e 6 22	+12	e 11 21	+ 7	e 15.7	17.7
Copenhagen	31.3	46	6 19	+ 2	11 25	+ 1	14.7	—
San Juan	38.4	248	—	—	e 13 7	- 5	e 21.2	—
Pulkovo	41.2	40	e 7 36	- 6	e 13 52	- 2	20.7	23.6
Moscow	45.3	47	e 8 4	-11	e 14 20	-35	e 24.2	26.2
Simferopol	45.8	63	e 10 10	PP	—	—	—	—
Yalta	46.0	64	e 8 15	- 6	—	—	—	—
Florissant	46.0	289	e 9 59	PP	e 15 2	- 2	e 21.5	25.2
Ksara	51.4	77	e 9 1	- 1	e 16 25	+ 5	—	—
Tiflis	54.2	63	e 9 20	- 3	e 17 0	+ 2	—	—
Sverdlovsk	57.2	40	e 8 38	?	e 15 42	?	23.7	—
Tashkent	70.1	53	—	—	e 20 13	- 9	e 34.7	42.6

Additional readings:—

San Juan e = +13m.14s.

Florissant eSSE = +18m.1s.

Ksara ePPP = +11m.47s.

Tashkent e = +20m.57s.

Long waves were also recorded at Ivigtut, Scoresby Sund, Prague, Baku, and Tucson.

June 20d. 7h. Undetermined shock, probably in Atlantic:—

San Juan e = 6h.17s., 8m.12s., and 9m.46s.

Huancayo e = 9m.34s., 10m.11s., 14m.0s., 17m.46s., 18m.0s., and 19m.45s.

Florissant ePE = +10m.48s., iSEN = 17m.3s., eSSE = 19m.28s., eSSN = 19m.31s.,

eSSSE = 20m.30s., eLE = 22m.26s., ME = 27m.22s.

La Paz ePE = 10m.55s., iSN = 15m.7s., iSE = 15m.14s., iL = 18m.30s., iN =

19m.13s., MN = 21m.24s.

Haiwee eP = 13m.35s.

Mount Wilson iPZ = 13m.39s.

Pasadena ePZ = 13m.39s.

Tinemaha eP = 13m.48s.

Malaga e = 14m.8s., 14m.28s., and 14m.48s.

Toledo eP = 14m.16s., i = 14m.36s.

Almeria e = 14m.20s.

Granada iP = 14m.21s., eS = 18m.0s.

Rio de Janeiro eP = 20m.23s., eL = 23m.21s.

Tashkent e = 33m.12s. and 34m.9s., L = 6m., M = 68m.6s.

Long waves were also recorded at La Plata, Scoresby Sund, De Bilt, Copenhagen,

Baku, and Sverdlovsk.

June 20d. 8h. 25m. 2s. Epicentre 40° 4N. 29° 5W.

X.

(as at 6h. See also note to that shock).

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
San Fernando	18.6	95	e 4 11	- 3	e 8 0	+22	9.0	—
Toledo	19.4	83	e 4 19	- 4	e 8 17	+23	e 10.3	—
Malaga	19.9	92	e 4 30	+ 1	—	—	—	—
Granada	20.4	91	i 4 31	- 3	e 8 1	-13	—	—
Bidston	22.0	45	e 5 25	+34	e 9 23	+37	e 11.2	—
Kew	22.9	51	e 5 0	0	e 9 18	+15	e 11.0	—
Edinburgh	23.2	39	e 4 58?	- 5	e 9 28	+20	—	—
Paris	24.1	59	e 5 16	+ 5	—	—	12.0	14.0
De Bilt	26.3	52	5 39	+ 7	10 10	+ 7	e 13.0	15.2
Strasbourg	27.5	60	e 5 58?	+15	—	—	e 12.0	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Stuttgart	28.4	60	e 6 28	+37	—	—	e 14.0	—
Hamburg	29.5	50	—	—	e 11 58?	+ 62	—	—
Scoresby Sund	30.4	6	6 28	+19	—	—	15.0	—
Cheb	30.6	59	—	—	e 10 58?	-16	e 16.0	19.0
Copenhagen	31.3	46	—	—	11 28	+ 4	16.0	—
Pulkovo	41.2	40	7 43	+ 1	e 13 55	+ 1	21.0	24.2
Moscow	45.3	47	8 20	+ 5	—	—	e 23.8	27.6
Sebastopol	45.5	64	e 8 8	- 9	—	—	—	—
Simferopol	45.8	63	e 8 26	+ 7	—	—	—	—
Yalta	46.0	64	e 8 18	- 3	—	—	—	—
Florissant	E. 46.0	289	e 8 21	0	e 15 31	+27	e 23.4	26.5
Ksara	51.4	77	e 9 0	- 2	e 16 26	+ 6	—	—
Tiflis	54.2	63	e 9 22	- 1	e 16 58	0	—	—
Sverdlovsk	57.2	40	e 7 38	?	—	—	24.0	—

Additional readings:—

Florissant ePPPE = +10m.1s.

Long waves were also recorded at Ivigtut, Durham, Prague, Baku, and Tashkent.

June 20d. 14h. 3m. 25s. Epicentre 42°4N. 9°8W. N.3.

A = +.7277, B = -.1257, C = +.6743; $\delta = +3$;
D = -.170, E = -.985; G = +.664, H = -.115, K = -.738.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.
Coimbra	2.4	155	0 33	- 1	—	—	—
Toledo	5.0	119	i 1 14	+ 3	i 1 28	-40	—
San Fernando	6.6	153	2 53	S	(2 53)	+ 5	—
Malaga	7.0	142	1 37	- 2	—	—	—
Granada	7.1	136	i 1 39	- 2	i 3 3	+ 2	—
Bagnères	7.4	82	e 1 38	- 7	i 3 5	- 4	—
Almeria	7.9	132	i 1 51	- 1	i 3 17	- 4	—
Tortosa	N. 7.9	98	e 2 3	+11	e 3 29	+ 8	3.6
	Z. 7.9	98	1 58	+ 6	3 23	+ 2	3.6
Alicante	8.2	117	—	—	3 2	-27	—
Barcelona	8.9	92	—	—	i 3 54	+ 8	5.1
Paris	10.8	49	e 2 31	-	—	—	6.6
Kew	11.2	32	i 2 35	-	—	—	7.1
Uccle	12.8	44	2 59	-	—	—	—
Neuchatel	12.8	63	e 3 1	+	—	—	—
Basle	13.3	61	e 3 8	+	—	—	—
Strasbourg	13.7	57	e 3 17	+	—	—	e 7.6
Zurich	13.9	63	e 3 17	+	—	—	—
De Bilt	14.0	41	e 3 17	+	—	—	e 7.1
Edinburgh	14.2	15	e 2 35?	?	—	—	—
Stuttgart	14.7	58	e 3 23	- 2	—	—	e 9.6
Jena	N. 16.9	52	e 3 56	+	—	—	—
Triest	17.2	71	i 4 0	+	i 7 28	+22	—
Zagreb	18.8	71	e 4 21	+	e 8 11	+29	—
Vienna	19.2	63	e 4 22	+	—	—	—
Copenhagen	19.6	39	4 23 _a	-	8 15	+17	10.6
Pulkovo	29.9	41	e 7 35	+91	—	—	17.6
Tiflis	39.8	73	e 7 39	+19	e 13 44	+11	—
Sverdlovsk	45.6	47	i 6 11	?	—	—	20.6
Mount Wilson	Z. 79.2	307	i 11 48	-16	—	—	—
Pasadena	Z. 79.3	307	e 11 49	-14	—	—	—

Additional readings:—

Toledo P_s = +1m.94s.

San Fernando iS_s = +3m.49s.

Bagnères eN = +1m.41s., SSE = +3m.12s., SSSN = +3m.20s., EN = +4m.17s.,

iE = +4m.29s.

De Bilt iZ = +3m.23s.

Triest iNE = +4m.11s., e = +5m.27s.

Long waves were also recorded at San Juan, Scoresby Sund, and Hamburg.

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June 20d. Readings also at 0h. (near Batavia and Malabar), 1h. (Florence), 2h. Scoresby Sund), 3h. (San Juan, Tucson, Mount Wilson, Pasadena, St. Louis (2), La Paz, Florissant (2), Oak Ridge, near Denver, and near Fern-dale), 4h. (Andijan, Manila, Nanking, Sverdlovsk, and near Tiflis), 5h. (Edinburgh, De Bilt, Strasbourg, Paris, Stuttgart, Copenhagen, Tashkent, and Tiflis), 9h. (near San Javier), 10h. (Nanking, Seattle, San Juan, Huan-cayo, and La Paz), 11h. (Tucson, Mount Wilson, Pasadena, Tinemaha, Rio de Janeiro, and near Sumoto), 12h. (Mount Wilson, Pasadena, and near Samarkand), 15h. (Nagoya, Florence, and near Trieste), 16h. (near Nagoya and near Toledo), 18h. (near Toledo), 19h. (near Tiflis), 20h. (Pulkovo Sverdlovsk, Copenhagen, De Bilt, Uccle, Strasbourg, Stuttgart, Paris, and Granada), 21h. (near Sumoto and Nagoya), 22h. (near Kobe and Sumoto (2)).

June 21d. 16h. 47m. 34s. Epicentre 44°·6N. 10°·6E. (as on 1934 Aug. 25d.). X.

$$A = +.6999, B = +.1310, C = +.7022; \quad \delta = +11;$$

$$D = +.184, E = -.983; \quad G = +.690, H = +.129, K = -.712.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.
Padova	1.2	48	e 0 27	+10	—	—
Triest	2.5	65	e 0 37	+ 1	i 1 1	- 3
Zurich	3.1	334	e 0 34	+10	e 1 9	-11
Ravensburg	3.3	348	—	—	e 1 16	- 9
Neuchatel	3.5	314	e 0 50	0	—	—
Stuttgart	4.3	348	—	—	e 1 47	- 3

Zurich gives also $eP_s = +39s$.

June 21d. 19h. 25m. 25s. Epicentre 44°·6N. 10°·6E. (as at 16h.). X.

$$A = +.6999, B = +.1310, C = +.7022; \quad \delta = +11;$$

$$D = +.184, E = -.983; \quad G = +.690, H = +.129, K = -.712.$$

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Padova	1.2	48	e 0 16	- 1	0 30	- 1	—	—
Triest	2.5	65	0 38	+ 2	i 1 7	+ 3	—	—
Zurich	3.1	334	e 0 42	- 2	e 1 17	- 3	—	—
Ravensburg	3.3	348	e 0 50	+ 3	e 1 24	- 1	—	—
Basle	3.4	326	e 0 55	+ 6	i 1 35	S*	—	—
Neuchatel	3.5	314	e 0 48	- 2	e 1 36	+ 6	—	—
Zagreb	4.0	70	e 1 8	P*	e 2 3	S*	—	—
Besançon	4.1	311	—	—	e 1 58	S*	—	—
Graz	4.2	52	e 0 59	- 1	i 1 54	+ 6	—	2.2
Stuttgart	4.3	348	e 1 3	+ 2	e 1 51	+ 1	—	2.3
Strasbourg	4.4	335	e 1 11	P*	—	—	—	—
Vienna	5.4	45	e 1 29	P*	2 32	S*	2.7	—
Prague	6.0	25	e 1 40	P*	e 2 34	+ 1	—	3.1
Jena	6.3	6	e 1 43	P*	e 2 34	- 7	e 2.9	3.4
Uccle	7.5	328	e 2 47	+61	e 3 46	S*	—	—
Granada	13.0	240	e 0 30	?	e 3 37	P	—	—
Malaga	13.8	240	—	—	e 5 33	-13	—	—

Additional readings:—

Triest $P_s = +42s$, $iN = +49s$, $iE = +53s$.

Zurich $eP_s = +46s$.

Neuchatel $e = +58s$.

Zagreb $eP^*Z = +1m.9s$, $eP_s = +1m.15s$, $ePP = +1m.17s$ and $+1m.21s$, $iPS = +1m.65s$, $+1m.57s$, $eZ = +2m.0s$, $iNW = +2m.10s$.

Stuttgart $eP_s = +1m.7s$, $iS_s = +1m.59s$.

Strasbourg $eP_s = +1m.23s$, $iPS = +1m.47s$, $eSS = +2m.16s$, $iSSS = +2m.21s$, $i = +2m.29s$.

Vienna $P^* = +1m.40s$, $S = +2m.40s$.

Prague $eP_s = +1m.45s$.

Jena $e = +1m.59s$ and $+2m.42s$.

Long waves were also recorded at De Bilt.

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June 21d. 20h. 36m. 4s. Epicentre 44°·6N. 10°·6E. (as at 19h.).

X.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Florence	0·9	150	0 26	+13	—	—	—	—
Padova	1·2	48	e 0 23	+ 6	0 37	+ 6	—	—
Triest	2·5	65	0 36	0	i 1 1	- 3	—	—
Zurich	3·1	334	e 0 34	-10	e 1 10	-10	—	—
Ravensburg	3·3	348	e 0 50	+ 3	e 1 16	- 9	—	—
Basle	3·4	326	e 0 47	- 2	e 1 27	0	—	—
Neuchatel	3·5	314	e 0 49	- 1	e 1 28	- 2	—	—
Zagreb	4·0	70	e 1 0	+ 3	i 1 49	+ 7	—	—
Besançon	4·1	311	—	—	e 1 47	+ 2	—	—
Stuttgart	4·3	348	e 0 57	- 4	e 1 49	- 1	—	2·2
Strasbourg	4·4	335	—	—	e 2 2	+ 9	—	—
Jena	6·3	6	e 1 38	+ 8	—	—	e 2·4	2·8

Additional readings:—

Zurich $eP_s = +38s.$

Zagreb $eNW = +1m.2s., ePP = +1m.6s., +1m.12s., ePS = +1m.43s., iZ = +2m.4s.$

Strasbourg $eSS = +2m.11s., e = +2m.35s. \text{ and } +2m.50s.$

Jena $i = +1m.51s.$

Long waves were also recorded at De Bilt.

June 21d. Readings also at 1h. (Sumoto), 4h. (near Samarkand), 5h. (near Andijan), 6h. (near Bagnères), 7h. (Copenhagen, De Bilt, Paris, Stuttgart, and near Nagoya), 10h. (near Tananarive), 13h. (Chiufeng, Nanking, Hong Kong, Phu-Lien, Vladivostok, Tashkent, and Sverdlovsk), 15h. (Vladivostok, Tashkent, Baku, Tiflis, Ksara, Sverdlovsk, Pulkovo, and Scoresby Sund), 17h. (near Christchurch), 19h. (Baku, Helwan, Ksara, Tiflis, Tashkent, Sverdlovsk, near Manila, and near Triest), 20h. (Paris), 21h. (Baku, Erevan, Grozny, Ksara, Tiflis, Tashkent, Sverdlovsk, and near Mizusawa), 22h. (Nagoya, Mount Wilson, Pasadena, Tinemaha, Triest, and Zurich), 23h. (Mount Wilson, Pasadena, Tinemaha, Yalta, Simferopol, Tiflis, Chiufeng, Grozny, Vladivostok, Ksara, Sverdlovsk, and Mizusawa).

June 22d. 3h. 43m. 55s. Epicentre 44°·6N. 10°·6E. (as on 1936 June 21d.).

R.3.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Florence	0·9	150	0 25	+12	0 45	+22	—	—
Padova	1·2	48	0 14	- 3	0 27	- 4	—	—
Chur	2·3	342	e 0 23	-10	0 43	-16	—	—
Triest	2·5	65	e 0 33	- 3	i 1 3	- 1	—	—
Zurich	3·1	334	e 0 37	- 7	e 1 11	- 9	—	—
Ravensburg	3·3	348	e 0 44	- 3	e 1 22	- 3	—	—
Basle	3·4	326	e 0 49	0	e 1 29	+ 2	—	—
Neuchatel	3·5	314	e 0 43	- 7	e 1 34	+ 4	—	—
Zagreb	4·0	70	e 1 5	P*	i 1 58	S*	—	—
Besançon	4·1	311	—	—	e 1 51	+ 6	—	—
Graz	4·2	52	i 1 0	0	i 1 50	+ 2	—	2·1
Stuttgart	4·3	348	e 1 2	+ 1	i 1 53	+ 3	—	2·2
Strasbourg	4·4	335	e 1 5	+ 2	e 1 55	+ 2	—	—
Vienna	5·4	45	e 1 20	+ 3	e 1 32	?	—	—
Cheb	5·6	12	—	—	e 2 5	-18	—	3·3
Jena	6·3	6	e 1 35	+ 5	e 1 54	-47	e 2·5	3·1
Paris	7·0	310	—	—	e 3 26	+27	—	—
Uccle	7·5	328	e 2 47	?	e 3 35	S*	—	—
De Bilt	8·3	336	—	—	e 4 5?	+34	—	—
Dakar	38·2	227	6 5?	-72	—	—	—	—

Additional readings:—

Chur $i = +24s.$

Triest $e = +36s., i = +39s. \text{ and } +43s.$

Zurich $eP_s = +40s.$

Ravensburg $eP_s = +48s., e = +1m.13s.$

Zagreb $SP = +1m.16s. \text{ and } +1m.46s., iSp = +1m.54s.$

Stuttgart $e = +1m.31s.$

Strasbourg $eP_s = +1m.14s., ePP = +1m.22s., ePS = +1m.40s., Ss = +2m.9s.,$

$SSs = +2m.13s., i = +2m.26s.$

Vienna $S^* = +1m.24s.$

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June 22d. 5h. 57m. 24s. Epicentre 44°·6N. 10°·6E. (as at 3h. 43m. 55s.). X.

	Δ	Az.	P.	O-C.	S.	O-C.
	°	°	m. s.	s.	m. s.	s.
Padova	1.2	48	0 21	+ 4	—	—
Triest	2.5	65	e 0 35	- 1	1 5	+ 1
Zurich	3.1	334	e 0 41	- 3	e 1 11	- 9
Ravensburg	3.3	348	e 1 6	+19	—	—
Neuchatel	3.5	314	e 0 51	+ 1	—	—
Zagreb	4.0	70	—	—	e 1 47	+ 5
Stuttgart	4.3	348	—	—	e 1 42	- 8

Additional readings:—

Zagreb e = +1m.55s., eNW = +2m.20s.

June 22d. 10h. 28m. 8s. Epicentre 22°·5S. 70°·2W. (as on 1933 Nov. 3d.). X.

A = +.3130, B = -.8693, C = -.3827; δ = +11;
D = -.941, E = -.339; G = -.130, H = +.360, K = -.924.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Montezuma	1.2	95	i 0 21	+ 4	i 0 27	- 4	—	—
La Paz	6.3	18	i 1 34 a	+ 4	i 2 52	+11	3.2	3.4
Santiago	10.9	182	—	—	4 19	-17	—	—
Huancayo	11.6	334	e 3 10	+27	i 5 44	+51	—	—
La Plata	16.4	142	3 40	- 6	5 58	-50	6.7	—
Florissant	64.2	344	e 10 30	- 4	e 19 10	0	—	—
Tucson	67.2	324	(e 10 55)	+ 2	—	—	e 10.9	—
La Jolla	z. 71.3	319	e 11 18	- 1	—	—	—	—
Riverside	z. 72.1	320	i 11 23	0	—	—	—	—
Mount Wilson	z. 72.7	320	i 11 27 k	0	—	—	—	—
Pasadena	72.7	320	i 11 26 k	- 1	—	—	—	—
Haiwee	z. 74.0	322	e 11 34	- 1	—	—	—	—
Tinemaha	74.8	322	i 11 39	0	—	—	—	—
Ksara	115.2	62	e 19 29	PP	e 22 46	PPP	67.9	—

Additional readings:—

Montezuma i = +31s., i = +39s.
La Paz iN = +2m.6s. and +2m.22s.
Florissant iZ = +10m.53s., eE = +19m.38s., iZ = +19m.53s., iE = +19m.56s.
La Jolla eZ = +11m.41s., iZ = +11m.53s.
Riverside iZ = +11m.48s., iZ = +11m.58s.
Mount Wilson iZ = +11m.53s., iZ = +12m.3s.
Pasadena iEZ = +11m.51s., iZ = +12m.2s.
Haiwee iZ = +12m., iENZ = +12m.10s.
Tinemaha iENZ = +12m.4s.

June 22d. 19h. 27m. 5s. Epicentre 13°·6N. 44°·8W. N.1.

A = +.6897, B = -.6849, C = +.2351; δ = +5;
D = -.705, E = -.710; G = +.169, H = -.166, K = -.972.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
San Juan	21.0	287	4 40	0	e 7 44	-42	e 13.4	—
Dakar	26.5	85	—	—	9 19	-48	e 11.0	—
Rio de Janeiro	36.5	177	i 12 41	S	(i 12 41)	- 3	i 18.9	—
Philadelphia	37.5	322	c 7 3	- 8	12 53	- 6	e 15.2	—
La Paz	37.9	218	i 7 16 k	+ 2	i 13 5	0	17.9	18.4
Columbia	38.6	309	—	—	e 13 19	+ 4	e 17.7	—
Huancayo	39.7	231	c 7 29	0	e 12 55	-37	e 15.8	—
Ottawa	41.1	327	e 7 49	+ 8	e 13 55	+ 2	e 16.9	—
San Fernando	41.4	50	e 8 22	+38	e 14 10	+13	—	—
Malaga	42.8	50	e 7 52	- 3	e 14 8	-19	—	—

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
	'	'	m.	s.	s.	m.	s.	s.	m.	m.
Granada	43.6	50	i 8	7	+ 5	e 14	40	+10	—	—
Almeria	44.3	51	e 8	10	+ 3	e 14	43	+ 3	—	—
Toledo	44.3	47	e 8	4	- 3	—	—	—	e 18.5	—
Chicago	46.5	316	e 2	26	?	e 15	22	+10	—	—
Florissant	47.3	311	i 8	33	+ 2	c 15	31	+ 8	e 21.3	26.6
Ivigtut	47.7	358	—	—	—	15	43	+14	22.9	—
Tortosa	47.8	47	e 7	55?	-40	—	—	—	22.0	26.8
Madison	48.2	317	—	—	—	e 15	37	+ 1	—	—
Bidston	51.6	31	e 9	19	+16	e 16	30	+ 7	21.9	—
Oxford	51.6	34	—	—	—	i 16	24	+ 1	e 21.2	—
Kew	52.0	34	e 9	21 _a	+15	e 16	37	+ 9	23.9	24.2
Paris	52.3	38	i 9	12	+ 3	e 16	44	+11	23.9	28.9
Edinburgh	53.0	28	e 9	31	+17	e 17	57	+75	e 22.9	—
Durham	53.1	30	—	—	—	e 16	58	+15	—	25.9
Uccle	54.3	36	c 9	25	+ 2	17	8	+ 9	e 22.9	—
De Bilt	55.3	35	9	33	+ 2	17	24	+11	22.9	35.2
Strasbourg	55.4	40	e 9	32	0	17	29	+14	25.9	—
Florence	56.3	46	9	10	-28	—	—	—	—	—
Stuttgart	56.4	40	e 9	40	+ 1	e 17	40	+12	e 24.9	28.9
Padova	57.2	44	e 8	55?	-50	—	—	—	—	—
Triest	58.5	44	9	54	0	18	4	+ 8	27.7	30.6
Hamburg	58.6	35	e 9	57	+ 2	e 18	8	+11	e 27.9	31.9
Scoresby Sund	58.6	8	9	56 _k	+ 1	18	6	+ 9	26.9	—
Prague	60.0	39	e 10	4	0	e 18	24	+ 8	e 26.9	30.9
Zagreb	60.1	45	e 10	4	- 1	—	—	—	e 30.9	—
Copenhagen	60.6	33	10	9	0	18	31	+ 7	24.9	—
Vienna	60.8	42	e 10	10	0	—	—	—	—	—
Tucson	62.7	300	e 10	28	+ 5	e 19	7	+16	e 29.9	—
Riverside	68.1	302	e 10	59	0	—	—	—	—	—
Haiwee	68.5	304	e 11	3	+ 2	—	—	—	—	—
Mount Wilson	68.7	302	i 11	3	0	—	—	—	—	—
Pasadena	68.8	302	i 11	3	0	—	—	—	e 33.1	—
Tinemaha	68.8	305	e 11	5	+ 2	—	—	—	—	—
Santa Barbara	70.0	302	e 11	12	+ 1	—	—	—	—	—
Pulkovo	70.8	31	e 11	10	- 6	e 20	33	+ 2	30.9	34.4
Helwan	71.4	63	e 11	20	+ 1	e 20	40	+ 2	—	—
Sebastopol	72.2	47	e 11	8	-16	—	—	—	—	—
Simferopol	72.6	47	e 12	38	+72	—	—	—	—	—
Yalta	72.7	47	e 11	27	0	—	—	—	—	—
Theodosia	73.5	47	e 11	2	-30	—	—	—	—	—
Moscow	74.5	36	e 11	37	0	e 21	21	+ 7	33.7	41.8
Ksara	74.8	59	i 11	41 _a	+ 2	e 21	38	+20	36.6	42.9
Piatigorsk	79.1	47	e 11	55	- 8	—	—	—	—	—
Tiflis	80.7	49	12	13	+ 1	22	27	+ 4	e 37.4	54.2
Grozny	81.1	48	e 12	13	- 1	—	—	—	—	—
Baku	84.7	50	e 12	36	+ 4	23	8	+ 3	39.9	47.5
Sverdlovsk	86.8	32	i 12	42	0	23	10	[- 2]	35.9	43.3
Tashkent	98.2	43	13	44	+ 9	24	10	[- 7]	—	57.6
Manila	148.5	25	18	47	[-52]	—	—	—	—	—

Additional readings:—

San Juan IP = +4m.55s., i = +8m.42s.
 Dakar ISS = +10m.16s.
 Philadelphia e = +8m.8s., e = +12m.21s., e = +14m.7s.
 La Paz PPz = +8m.39s., ISSE = +15m.41s.
 Columbia e = +16m.1s.
 Florissant IPPEZ = +10m.25s., ePPN = +10m.27s., ePPPEZ = +11m.9s., eEN = +16m.59s., eSSSEN = +18m.55s., eSSSE = +20m.7s.
 Kew eSZ = +16m.40s.
 Strasbourg ePPP = +12m.41s., eSSS = +23m.22s.
 Stuttgart e = +11m.43s.
 Trieste e = +24m.17s.
 Zagreb ePZ = +10m.6s., ePNW = +10m.9s., eZ = +10m.21s., ePP = +12m.41s.
 Copenhagen 19m.8s., 22m.19s., 24m.55s.
 Riverside ePP = +13m.35s.

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Haiwee iPPZ = +13m.43s.
 Mount Wilson iPPZ = +13m.39s.
 Pasadena iPEZ = +13m.38s.
 Tinemaha iPPZ = +13m.37s.
 Santa Barbara iPPZ = +13m.52s.
 Yalta e = +14m.38s.
 Theodosia e = +14m.17s.
 Ksara PP = +14m.39s., eSS = +27m.7s.
 Tiflis ePPP = +17m.17s., eSS = +27m.27s.
 Tashkent iPP = +17m.35s., PPP = +20m.6s., S = +26m.24s., SS = +31m.49s.
 Manila LN = +21m.50s.
 Long waves also recorded at Vladivostok, Stonyhurst, Göttingen, and Algiers.

June 22d. 23h. 42m. 6s. Epicentre 40°·2N. 75°·2E. N.3.

(epicentre given by stations of Central Asia).

A = +·1951, B = +·7385, C = +·6455; δ = +12;
 D = +·967, E = -·225; G = +·165, H = +·624, K = -·764.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	2·3	284	0 35	+ 2	i 0 51	- 8	—	1·2
Frunse	2·7	350	e 1 0	P _g	e 1 16	+ 7	—	2·1
Almata	3·3	22	e 1 14	P _g	i 2 12	+47	—	2·2
Tashkent	4·6	286	i 1 2	- 4	i 1 59	+ 1	i 2·3	3·2
Tchimkent	4·7	299	1 11	+ 4	i 2 10	+10	—	2·9
Samarkand	6·3	268	e 1 24	- 6	—	—	—	—
Sverdlovsk	19·1	335	e 4 24	+ 4	e 8 17	+29	e 10·6	—
Grozny	22·1	288	4 52	0	—	—	—	—
Tiflis	22·9	284	e 5 2	+ 2	e 9 12	+ 9	e 11·4	—
Ksara	31·8	270	e 6 15	- 6	e 11 40	+ 8	—	19·9

Additional readings:—

Andijan iP* = +37s., P_g = +39s., iS_g = +1m.8s.
 Frunse eP_g = +1m.6s., i = +1m.47s., iS_g = +1m.53s., iS_gS = +1m.59s.
 Almata eP_g = +1m.22s.
 Tashkent i = +1m.16s. and +1m.46s.
 Tchimkent e = +1m.27s., i = +2m.23s., iS_g = +2m.36s.
 Long waves were also recorded at De Bilt, Uccle, Stuttgart, Copenhagen, Pulkovo, and Moscow.

June 22d. Readings also at 0h. (Baku, Tashkent, Pulkovo, Copenhagen, and near Mizusawa), 1h. (near Malabar), 3h. (Padova), 4h. (Tacubaya, Triest, Zurich (2), and near Basle), 5h. (College, Sitka, Haiwee, Mount Wilson, Pasadena, Riverside, Tinemaha, Sverdlovsk, and Tiflis), 6h. (Graz and Philadelphia), 7h. (Andijan, Frunse, and Kew), 8h. (Chatham Is., Christchurch, and Wellington), 9h. (Sverdlovsk), 10h. (Vladivostok, Tashkent, Nanking, Chiufeng, Phu-Lien, Riverview, and Christchurch), 11h. (Perth, Sydney, Chatham Is., Wellington, Padova, Zurich, Ravensburg, Stuttgart (2), near Basle, Triest, Neuchatel, and near Lick), 13h. (Medan, Samarkand, and near Reykjavik), 15h. (near Triest), 16h. (near Manila), 17h. (near Nagoya and near Tiflis), 20h. (Zagreb), 21h. (Tacubaya and near La Paz), 22h. (Ksara, Paris, Riverview, Sydney, and near Balboa Heights), 23h. (Scoresby Sund).

June 23d. Readings at 0h. (Baku), 1h. (Nagoya, Batavia, Manila, Andijan, Frunse (2), Samarkand, Tashkent (2), Tiflis, Sverdlovsk, and Riverview), 2h. (near Nagoya), 3h. (near Manila), 4h. (Florence, Padova, Ravensburg, Stuttgart, Samarkand, near Neuchatel, and Triest), 8h. (Andijan), 14h. (Oak Ridge and near Nagoya), 15h. (Sverdlovsk, Tashkent, Hong Kong, Nanking, Chiufeng, and near Taihoku), 17h. (De Bilt, Stuttgart, Copenhagen, Pulkovo, Moscow, Sverdlovsk, and Scoresby Sund (3)), 18h. (Edinburgh, Scoresby Sund (2), Strasbourg, Copenhagen, Pulkovo, De Bilt, Stuttgart, and Tashkent), 19h. (Ivigtut, Kew, Paris, Sverdlovsk, and Tashkent), 20h. (Scoresby Sund), 22h. (Wellington), 23h. (near Manila).

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June 24d. 4h. 4m. 37s. Epicentre $37^{\circ}7'N$. $67^{\circ}4'E$. (as on 1935 July 5d.). X.

$A = +.3041$, $B = +.7304$, $C = +.6115$; $\delta = -11$;
 $D = +.923$, $E = -.384$; $G = +.235$, $H = +.564$, $K = -.791$.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Samarkand	2.0	347	0 59	S*	—	—	—	2.1
Tashkent	3.9	21	i 0 39	-17	i 1 4	-36	i 1.2	—
Tchikent	4.9	20	1 25	P*	i 2 33	S _g	—	2.7
Andijan	5.0	52	1 11	0	i 2 9	+ 1	—	2.4
Frunse	7.6	49	1 51	+ 3	i 3 9	- 5	—	—
Almata	9.2	55	e 2 7	- 3	e 4 9	+15	—	—
Semipalatinsk	15.7	30	e 3 34	- 4	—	—	—	—
Grozny	17.4	295	4 17	+18	—	—	—	—
Ksara	25.7	270	7 30	?	e 10 36	+43	—	—
Moscow	27.0	320	5 40	+ 2	10 20	+ 5	—	—
Pulkovo	32.3	325	6 27	+ 2	11 41	+ 1	13.7	—
Copenhagen	40.5	314	7 38	+ 2	13 53	+ 9	—	—

Additional readings:—

Samarkand $iP_g = +1m.8s.$, $iPP = +1m.13s.$, $iS_g = +1m.43s.$, $i = +1m.45s.$
 Andijan $e = +1m.15s.$, $ePP = +1m.25s.$, $e = +1m.38s.$
 Frunse $+2m.3s.$, $+2m.32s.$, and $+2m.51s.$
 Almata $e = +3m.20s.$

June 24d. Readings also at 0h. (Baku and Moscow), 5h. (near Wellington), 7h. (near Nagoya), 8h. (Almeria, Granada, and Malaga), 9h. (near Medan), 10h. (Baku, Sverdlovsk, and Strasbourg), 11h. (Simferopol, Yalta, and near Samarkand), 14h. (Andijan, Frunse, near Batavia, and Malabar), 16h. (Phu-Lien), 19h. (Tiflis), 23h. (Charlottesville and near Berkeley).

June 25d. 16h. 51m. 54s. Epicentre $32^{\circ}4'N$. $138^{\circ}0'E$. (as on 1934 Sept. 11d.). R.1.

$A = -.6275$, $B = +.5650$, $C = +.5358$; $\delta = +6$;
 $D = +.669$, $E = +.743$; $G = -.398$, $H = +.359$, $K = -.844$.

Depth of focus 0.060.

	Corr. for Focus	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Hatidyozima	+1.9	1.7	66	0 54k	+ 3	1 35	+ 3	—	—
Siomisaki	+1.8	2.1	299	0 54a	- 2	1 39	- 1	—	—
Omaesaki	+1.7	2.2	5	0 56k	0	1 41	+ 1	—	—
Hamamatu	+1.6	2.3	354	0 58a	+ 2	1 51	+11	—	—
Susaki	+1.6	2.4	20	0 58	+ 1	1 44	+ 2	—	—
Tu	+1.5	2.6	332	1 0a	+ 2	1 46	+ 1	—	—
Ito	+1.5	2.7	20	1 0	0	1 46	- 2	—	—
Kameyama	+1.5	2.7	332	0 59a	- 1	1 47	- 1	—	—
Misima	+1.5	2.8	16	1 1k	0	1 49	- 1	—	—
Numadu	+1.5	2.8	15	1 1	0	1 53	+ 3	—	—
Yagi	+1.5	2.8	319	0 59a	- 2	1 46	- 4	—	—
Mera	+1.4	2.9	31	1 0k	+ 1	1 49	- 1	—	—
Nagoya	+1.4	2.9	343	1 2	+ 1	1 50	0	—	1.9
Osaka	+1.4	3.0	318	1 2	- 1	1 52	- 1	—	—
Wakayama	+1.4	3.0	308	1 1a	- 2	1 49	- 4	—	—
Gihu	+1.4	3.1	341	1 4a	0	1 50	- 5	—	—
Iida	+1.4	3.1	357	1 6	+ 2	1 53	- 2	—	—
Hikone	+1.3	3.2	333	1 3a	- 1	1 54	- 1	—	—
Kamakura	+1.3	3.2	23	1 2	- 2	1 50	- 5	—	—
Kyoto	+1.3	3.2	324	1 4a	0	1 54	- 1	—	—

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	Corr. for Focus †	Δ	Az.	P.		O-C.	S.		O-C.	L. m.	M. m.
				m.	s.		m.	s.			
Sumoto	+1.3	3.2	307	i 1	1a	- 3	i 1	51	- 4	—	1.9
Ibukisan	+1.3	3.3	336	1	11a	+ 5	2	0	+ 2	—	—
Kobe	+1.3	3.3	315	i 1	3a	- 3	i 1	53	- 5	—	1.9
Kohu	+1.3	3.3	8	1	4	- 2	1	56	- 2	—	—
Muroto	+1.3	3.3	285	1	2a	- 4	1	52	- 6	—	—
Tokushima	+1.3	3.3	301	1	4a	- 2	1	55	- 3	—	—
Yokohama	+1.3	3.3	24	1	6k	0	1	57	- 1	—	—
Katuura	+1.2	3.4	34	1	3	- 3	1	53	- 5	—	—
Kiyosumi	+1.2	3.4	34	1	5	- 1	1	54	- 4	—	—
Komaba	+1.1	3.5	24	1	7	+ 1	2	0	+ 2	—	—
Mitaka	+1.1	3.5	21	1	13	+ 7	2	3	+ 5	—	—
Tokyo I.U.	+1.1	3.6	23	1	7	0	1	58	- 2	—	—
Tokyo	+1.1	3.6	23	1	8k	+ 1	2	0	0	—	2.0
Matumoto	+1.0	3.8	359	1	9	+ 1	2	4	+ 1	—	—
Takayama	+1.0	3.8	351	1	8	0	—	—	—	—	—
Koti	+1.0	3.9	288	1	8a	- 2	2	3	- 2	—	—
Kumagaya	+1.0	3.9	16	1	10k	0	2	2	- 3	—	—
Miyadu	+1.0	3.9	323	1	19a	+ 9	2	14	+ 9	—	—
Oiwake	+1.0	4.0	7	1	10	- 1	2	7	- 1	—	—
Tadotu	+1.0	4.0	299	1	6a	- 5	2	1	- 7	—	—
Toyooka	+1.0	4.0	321	1	10a	- 1	2	5	- 3	—	2.5
Maebasi	+0.9	4.1	12	1	14	+ 3	2	4	- 4	—	—
Tyosi	+0.9	4.1	35	1	11k	0	2	7	- 1	—	—
Kanazawa	+0.9	4.2	344	1	17	+ 4	2	16	+ 6	—	—
Kakioka	+0.9	4.2	24	1	11k	- 2	2	9	- 1	—	—
Tukubasan	+0.9	4.2	23	1	11k	- 2	2	7	- 3	—	—
Nagana	+0.9	4.2	2	1	15	+ 2	2	12	+ 2	—	—
Toyama	+0.8	4.3	351	1	15	+ 2	2	15	+ 5	—	—
Husiki	+0.8	4.4	350	1	16	+ 2	2	9	- 4	—	—
Utunomiya	+0.8	4.4	19	1	14	0	2	11	- 2	—	—
Mito	+0.7	4.5	27	1	15k	+ 1	2	15	+ 2	—	—
Matuyama	+0.7	4.6	290	1	14k	- 1	2	13	- 2	—	—
Takada	+0.6	4.7	2	1	28	+13	2	26	+11	—	—
Wazima	+0.5	5.0	349	1	22	+ 4	2	25	+ 5	—	—
Onahama	+0.5	5.1	27	1	20	0	2	24	+ 1	—	—
Aidu	+0.4	5.5	18	1	9a	-15	2	14	-17	—	—
Hamada	+0.4	5.5	298	1	24	0	2	33	+ 2	—	—
Miyazaki	+0.4	5.5	267	1	26	+ 2	2	26	- 5	—	—
Niigata	+0.4	5.6	9	1	32	+ 7	2	37	+ 4	—	—
Hukushima	+0.4	5.7	20	1	27k	0	2	36	0	—	—
Kumamoto	+0.2	6.1	275	1	31a	+ 1	2	44	+ 3	—	—
Yamagata	+0.2	6.2	18	1	34	+ 3	2	47	+ 4	—	—
Kagosima	+0.2	6.3	265	1	35	+ 3	2	50	+ 4	—	—
Sendai	+0.2	6.3	21	1	35	+ 3	2	47	+ 1	—	—
Hukuoka	+0.2	6.4	282	1	35a	+ 1	i 2	50	+ 2	—	2.9
Hukuoka B	+0.2	6.4	282	1	35	+ 1	2	39	- 9	—	—
Saga	+0.1	6.5	279	1	58	+24	2	52	+ 4	—	—
Unzendake	+0.1	6.5	275	1	38	+ 4	2	55	+ 7	—	—
Nagasaki	+0.1	6.8	275	1	38	0	2	56	0	—	—
Mizusawa	0.0	7.2	21	i 1	44	+ 2	i 3	7	+ 3	—	—
Ituhara	-0.1	7.4	286	1	47	+ 3	3	16	+10	—	—
Akita	-0.1	7.5	12	1	52	+ 7	3	16	+ 7	—	—
Morioka	-0.1	7.7	18	1	51	+ 3	3	19	+ 5	—	—
Husan	-0.2	7.9	292	i 1	51k	+ 2	3	21	+ 5	—	—
Taikyū	-0.3	8.4	297	i 1	56k	+ 1	3	33	+ 7	—	—
Aomori	-0.4	8.7	14	2	3a	+ 5	3	43	+12	—	—
Hakodate	-0.6	9.6	12	2	19	+12	4	8	+19	—	—
Keizyo	-0.8	10.4	303	i 2	20	+ 4	i 4	15	+12	—	4.3
Urakawa	-0.8	10.5	20	2	19	+ 2	4	15	+ 9	—	—
Zinsen	-0.8	10.6	302	i 2	21k	+ 3	i 4	18	+10	—	—

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.			
Obihiro	-0.9	11.3	20	2	26	0	4	28	+5	—	—
Vladivostok	-1.0	11.7	338	e 2	39	+8	—	—	—	7.4	—
Asahigawa	-1.0	11.9	15	2	40	+7	4	48	+12	—	—
Heizyo	-1.0	11.9	307	i 2	37	+4	i 4	45	+9	—	—
Nemuro	-1.1	12.4	27	2	49	+10	5	3	+18	—	—
Isigakizima	-1.5	14.6	240	3	5	+2	—	—	—	—	—
Nanking	-1.8	16.2	274	i 3	23	+2	6	9	+8	—	—
Taito	-2.0	17.7	241	3	37	-1	—	—	—	—	—
Kosyun	-2.2	18.5	240	3	46	+1	—	—	—	—	—
Chiufeng	-2.3	19.2	300	i 3	53k	0	i 7	7	+8	—	—
Manila	-3.0	23.6	225	4	33	-3	10	1	?	—	—
Semipalatinsk	-5.2	46.0	311	7	9	-30	—	—	—	—	—
Almata	-5.3	48.3	302	e 8	6	+9	—	—	—	—	—
Frunse	-5.5	50.1	301	e 8	18	+8	—	—	—	—	—
Andijan	-5.7	52.1	299	e 8	31	+7	e 15	26	+16	—	—
Tashkent	-5.8	54.3	300	8	44	+4	e 15	53	+13	e 35.4	—
Sverdlovsk	-6.0	56.7	320	i 9	2	+5	i 16	22	+11	25.1	—
Baku	-6.7	68.4	305	—	—	—	e 18	56	+18	—	—
Moscow	-6.7	69.1	323	e 10	25	+4	i 18	58	+11	e 28.6	44.0
Grozny	-6.8	69.9	309	10	33	+7	19	46	+50	—	—
Pulkovo	-6.8	70.5	329	—	—	—	i 19	14	+10	—	—
Tiflis	-6.8	71.3	308	e 10	40	+5	i 19	23	+9	e 34.6	—
Erevan	-6.9	72.2	306	e 10	36	-5	—	—	—	—	—
Scoresby Sund	-7.0	75.4	353	—	—	—	20	23	+21	—	—
Theodosia	-7.0	75.5	314	e 11	6	+5	e 20	8	+5	—	—
Simferopol	-7.1	76.3	315	e 11	9	+3	e 20	19	+8	—	—
Yalta	-7.1	76.6	314	e 11	9	+1	e 20	21	+6	—	—
Sebastopol	-7.1	76.9	315	e 11	11	+2	e 20	29	+10	—	—
Königsberg	-7.1	77.7	328	—	—	—	e 20	28	0	—	—
Copenhagen	-7.2	80.5	332	—	—	—	i 21	4	+4	44.1	—
Tinemaha	-7.2	80.6	52	e 11	34	+3	—	—	—	—	—
Haiwee	-7.2	81.3	52	i 11	37	+2	—	—	—	—	—
Mount Wilson	-7.3	82.3	53	i 11	42a	+2	—	—	—	—	—
Pasadena	-7.3	82.4	54	i 11	42a	+1	—	—	—	—	—
Riverside	-7.3	82.9	53	i 11	44	0	—	—	—	—	—
Hamburg	E. -7.3	83.0	332	—	—	—	e 21	28	0	—	—
De Bilt	-7.4	86.0	333	—	—	—	e 21	58	-2	43.1	—
Ivigtut	-7.4	86.3	3	—	—	—	22	3	-1	—	—
Stuttgart	-7.4	86.9	329	—	—	—	e 22	7	-3	e 48.1	—
Strasbourg	-7.5	88.9	329	—	—	—	e 22	6?	-25	38.1	—
La Paz	—	151.6	62	19	12	[-32]	—	—	—	—	—

Additional readings:—

Zinsen iPz = +2m.23s., iSz = +4m.22s.

Chiufeng i = +7m.12s.

Tiflis e = +26m.24s.

Pulkovo i = +19m.52s., i = +21m.50s.

Scoresby Sund 22m.58s.

Mount Wilson iZ = +15m.5s.

Pasadena eZ = +13m.10s., eZ = 14m.56s.

Long waves were also recorded at Hong Kong and Paris.

June 25d. Readings also at 0h. (Sebastopol, Theodosia, near Simferopol, and Yalta), 1h. (Florence and Tiflis), 3h. (Bozeman), 5h. (near La Paz), 6h. (Santiago), 10h. (La Paz (2), Tashkent, Sverdlovsk, De Bilt, Stuttgart, Strasbourg, Paris, and near Wellington), 12h. (Santiago (2)), 13h. (Alicante), 14h. (Santiago and near San Javier), 15h. (Mizusawa and near Nagoya), 18h. (Grozny (2), near Erevan (2), Tiflis (2), and near Mizusawa), 19h. and 20h. (Mizusawa).

June 26d. Readings at 1h. (Andijan, Sebastopol, Simferopol, Theodosia, and Yalta), 3h. (Mizusawa), 4h. (Erevan, Grozny, Piatigorsk, Tiflis, and Santiago), 5h. (Ivigtut, Scoresby Sund, and Tiflis (2)), 10h. (near Bagnères), 11h. (near Malabar and near Mizusawa), 16h. (Almeria, near Granada, and Malaga), 17h. (Tiflis), 18h. (Grozny), 20h. (Scoresby Sund and La Paz (2)), 23h. (Mizusawa).

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June 27d. 3h. 18m. 51s. I }
3h. 22m. 31s. II }

Epicentre 60°·0N. 33°·0W.

X.
N.3.

A = +·4193, B = -·2723, C = +·8660; $\delta = -8$;
D = -·545, E = -·839; G = +·726, H = -·472, K = -·500.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Reykjavik	6·6	47	3 2	+88	3 35	+47	—	—
II	6·6	47	2 45	+71	3 19	+31	—	—
I Edinburgh	16·2	91	e 3 41	- 3	—	—	—	—
II	16·2	91	i 3 37	- 7	—	—	7·5	8·6
I Bidston	17·5	99	e 3 56	- 4	—	—	—	—
II	17·5	99	i 3 49	-11	—	—	8·5?	—
II Durham	17·6	93	3 54	- 8	—	—	—	11·2
I Stonyhurst	17·6	97	4 0	- 2	—	—	—	—
II	17·6	97	i 3 55	- 7	—	—	8·5	10·1
I Bergen	18·8	72	4 19	+ 3	—	—	e 10·6	—
II	18·8	72	4 18	+ 2	—	—	—	—
I Oxford	19·4	101	4 21	- 2	—	—	e 10·0	16·6
II	19·4	101	i 4 17	- 6	—	—	—	12·9
I Kew	20·3	100	e 4 29 ^a	- 4	—	—	—	—
II	20·3	100	i 4 26	- 7	—	—	8·5	11·2
I De Bilt	22·4	93	4 58	+ 3	—	—	e 10·6	—
II	22·4	93	4 51	- 4	—	—	e 10·5	14·9
I Uccle	22·7	98	e 5 5	+ 7	—	—	—	—
II	22·7	98	e 4 55	- 3	e 9 1	+ 2	e 10·5	—
I Paris	23·1	103	e 6 2	+60	—	—	—	—
II	23·1	103	e 4 59	- 3	—	—	11·5	12·5
II Hamburg	23·9	86	e 5 8	- 1	e 9 29	+ 8	e 12·5	13·5
II Copenhagen	24·1	80	i 5 10 ^a	- 1	9 27	+ 2	10·5	—
II Upsala	24·7	69	5 18	+ 1	9 40	+ 4	e 12·5	—
I Strasbourg	25·9	97	e 5 32	+ 4	—	—	—	—
II	25·9	97	e 5 29	+ 1	—	—	e 10·5	—
I Stuttgart	26·4	96	e 5 36	+ 3	—	—	—	—
II	26·4	96	e 5 32	- 1	e 9 53	-12	e 12·7	17·5
II Toledo	27·0	125	i 5 40	+ 2	—	—	e 8·8	—
II Prague	28·2	89	e 5 47	- 2	e 10 12	-23	e 13·0	17·5
II Königsberg	28·4	76	e 5 52	+ 1	—	—	—	—
I Ottawa	29·0	259	—	—	e 10 45	- 3	—	—
II	29·0	259	—	—	e 11 29	+41	e 15·5	—
II San Fernando	29·1	132	—	—	e 9 30	-80	13·5	—
II Granada	29·5	127	e 6 5	+ 4	e 10 57	+ 1	—	—
II Pulkovo	30·5	63	e 6 15	+ 6	e 11 5	- 7	15·5	17·8
II Trieste	30·8	96	e 6 12	0	11 10	- 7	e 14·5	16·9
II Philadelphia	32·8	252	e 7 55	PP	e 12 4	+16	e 15·9	—
II Moscow	36·0	65	e 7 3	+ 5	e 12 32	- 4	16·2	20·1
II Florissant	41·2	266	—	—	e 14 37	+43	e 21·0	27·0
II Simferopol	41·5	80	e 7 49	+ 5	—	—	—	—
I Yalta	41·8	80	e 7 50	+ 3	—	—	—	—
II	41·8	80	e 7 39	- 8	e 14 2	- 1	—	—
II Sverdlovsk	45·0	51	i 8 15	+ 2	i 14 49	- 1	20·5	—
II Piatigorsk	46·5	74	e 8 24	- 1	—	—	—	—
II Grozny	48·3	73	e 8 40	+ 2	—	—	—	—
II Tiflis	49·1	75	e 8 45	+ 1	e 15 56	+ 8	e 27·5	32·0
II Ksara	50·8	89	i 9 0 ^a	+ 3	e 16 18	+ 6	—	—
II Baku	52·4	73	e 9 17	+ 8	e 16 48	+14	26·5	32·1
II Tashkent	60·4	58	—	—	e 18 11	-10	e 29·4	37·5

Additional readings:—

Reykjavik I e = +3m.12s.

Königsberg II eN = +7m.35s.

Triest II i = +13m.42s.

Philadelphia eSS = +14m.2s.

Florissant eZ = +14m.42s., eE = +19m.23s.

Tiflis ePP = +8m.48s., e = +10m.38s.

Ksara ePP = +10m.53s., S_eS = +18m.52s.

Tashkent e = +18m.36s., +25m.5s., and +26m.5s.

In many cases the P for the two shocks have been recorded as the P and S for a single shock. Where this has happened the readings have just been segregated into the two lines as they appear to belong.

Long waves were also recorded at Ivigtut, Scoresby Sund, Oak Ridge, Ukiah, Bozeman, Tucson, Pasadena, Barcelona, Jena, and Zagreb.

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June 27d. 17h. 19m. 22s. Epicentre 35°·0N. 135°·5E. (as on 1932 Dec. 7d.). X.

A = -·5843, B = +·5742, C = +·5736; $\delta = +13$;

	Δ	Az.	P.	O-C.	S.	O-C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Kobe	0·5	219	0 8	+ 1	i 0 17	+ 4	0·3
Toyooka	0·8	314	0 11	0	0 21	0	0·4
Sumoto	0·9	212	0 14	+ 1	0 17	- 6	0·5
Nagoya	1·2	82	e 0 17	0	0 31	0	0·6

June 27d. 21h. 13m. 30s. Epicentre 43°·2N. 147°·2E. (as on 1930 Feb. 15d.). R.2.

A = -·6127, B = +·3949, C = +·6845; $\delta = -11$;
D = +·542, E = +·841; G = -·575, H = +·371, K = -·729.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	6·2	230	i 1 28	0	i 2 33	- 5	—	—
Vladivostok	11·1	275	i 2 36	0	i 4 42	+ 1	i 5·6	16·4
Nagoya	11·3	228	e 2 40	+ 1	4 35	-10	—	5·6
Husan	16·2	246	e 3 45	+ 1	—	—	—	—
Keizyo	16·4	257	e 3 45	- 1	e 6 51	+ 3	9·5	—
Zinsen	N. 16·6	257	e 3 37?	-12	e 6 55	+ 3	—	—
Heizyo	16·9	264	e 3 49	- 4	—	—	—	—
Chiufeng	23·3	275	5 3 _a	- 1	9 14	+ 4	e 11·8	14·7
Zi-ka-wei	Z. 23·6	248	i 5 9	+ 3	9 37	+21	—	—
Nanking	25·0	255	i 5 20	0	9 50	+ 9	13·8	16·2
Manila	36·4	226	7 2	+ 1	13 5	+23	18·8	22·1
College	41·4	36	—	—	e 13 58	+ 1	19·5	—
Almata	49·6	297	8 50	+ 2	15 53	- 2	—	—
Frunse	51·3	297	9 2	+ 1	16 17	- 2	—	—
Sverdlovsk	53·3	318	i 9 14	- 2	16 40	- 6	25·5	34·6
Andijan	53·7	296	e 9 20	+ 1	e 16 58	+ 6	—	—
Tchimkent	54·8	298	e 9 31	+ 4	—	—	—	—
Tashkent	55·5	297	i 9 27	- 5	i 17 8	- 8	25·5	34·0
Samarkand	57·9	299	e 9 52	+ 2	e 17 46	- 2	—	—
Moscow	64·7	325	e 10 34	- 3	e 19 9	- 7	36·1	41·6
Pulkovo	64·8	330	e 10 34	- 3	19 10	- 7	34·5	40·9
Scoresby Sund	66·1	356	10 43	- 3	19 30	- 4	28·5	—
Baku	68·1	306	i 10 59	0	19 59	+ 1	36·5	46·3
Grozny	68·6	311	11 5	+ 3	e 20 5,	+ 1	42·9	—
Haiwee	E. 69·3	60	e 11 20	+14	—	—	—	—
Piatigorsk	69·6	313	11 6	- 2	20 10	- 6	—	—
Tiflis	70·3	310	i 11 11 _a	- 2	20 21	- 4	36·5	49·4
Mount Wilson	Z. 70·4	62	e 11 15	+ 2	—	—	—	—
Pasadena	70·4	62	e 11 14	+ 1	—	—	32·9	—
Riverside	71·0	62	e 11 19	+ 2	—	—	—	—
Erevan	71·4	309	e 11 18	- 1	—	—	—	—
Sotchi	71·7	314	e 11 25	+ 4	—	—	—	—
Theodosia	73·0	317	i 11 28	- 1	e 20 52	- 5	—	—
Simferopol	73·7	317	e 11 32	- 1	e 20 58	- 7	—	—
Copenhagen	74·0	336	11 34	- 1	21 4	- 4	34·5	—
Yalta	74·0	317	e 11 32	- 3	e 21 2	- 6	—	—
Sebastopol	74·2	317	e 11 35	- 1	21 4	- 7	—	—
Hamburg	76·5	335	i 11 48 _a	- 1	e 21 30?	- 7	—	49·5
Edinburgh	77·8	345	—	—	e 21 50	- 2	e 44·5	—
Prague	78·1	330	—	—	e 21 43	-12	—	49·5
Göttingen	E. 78·3	335	e 11 58	- 1	—	—	—	—
Jena	78·3	333	i 11 58	- 1	—	—	—	—
De Bilt	79·2	338	12 3 _a	- 1	22 0	- 7	e 36·5	52·1
Bidston	80·1	343	—	—	i 22 10	- 7	e 41·5	—
Uccle	80·6	338	12 11	0	e 22 15	- 7	e 37·5	—

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.
Ksara	80.8	309	i 12 10 _a	- 2	e 23 4	PS	—	—
Stuttgart	80.9	334	12 12 _a	- 1	e 22 26	+ 1	42.5	—
Zagreb	81.0	328	e 12 12	- 1	—	—	—	—
Kew	81.2	341	i 12 14 _a	0	i 22 22	- 6	e 41.5	—
Oxford	81.2	341	—	—	i 22 16	-12	e 45.3	56.9
Strasbourg	81.6	334	12 16 _a	0	e 22 26	- 7	e 37.5	—
Triest	82.0	330	e 12 46	+28	i 22 1	-36	—	50.0
Florissant	82.8	42	e 12 25	+ 3	i 22 40	- 5	e 39.8	46.9
Paris	82.9	338	i 12 24	+ 1	—	—	45.5	—
St. Louis	83.1	41	—	—	i 22 39	- 9	—	—
Ottawa	83.6	28	—	—	e 22 30?	-23	41.5	—
Philadelphia	88.5	32	—	—	e 23 20	[- 3]	e 49.3	—
Toledo	93.0	339	e 13 14	+ 3	e 24 40	+16	—	—
La Paz	N. 139.8	60	e 19 30	[+ 9]	—	—	—	—

Additional readings:—

Tiflis i = +11m.20s., e = +33m.51s.

Mount Wilson iZ = +11m.24s.

Ksara ePP = +15m.12s., eSS = +27m.53s.

Stuttgart eS = +22m.35s.

Florissant ipPZ = +12m.34s., isSE = +22m.59s., eSSE = +28m.2s.

St. Louis iSEN = +22m.59s.

Philadelphia eS = +23m.38s., e = +42m.34s., e = +44m.14s.

Long waves were also recorded at Hong Kong, Belgrade, Granada, San Fernando and Tortosa.

June 27d. Readings also at 0h. (Frunse and Samarkand), 1h. (near Tananarive), 3h. (Basle), 5h. (near Manila), 6h. (Florence), 8h. (Ukiah (2)), 11h. (Oak Ridge, Tiflis, near Chur, near Batavia, and Malabar), 12h. (near Branner), 13h. (Ravensburg, Zurich, and near Chur), 14h. (Granada), 15h. (Ravensburg, near Chur, and Zurich), 19h. (near Balboa Heights), 21h. (near Batavia and Malabar).

June 28d. 8h. 10m. 23s. Epicentre 30°·6N. 141°·8E. (as on 1933 Dec. 21d.). 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	1 26	- 2	—	—	—	—
Sumoto	6.9	304	e 1 39	+ 1	3 37	S _g	—	7.7
Kobe	7.0	308	1 39 _k	0	3 19	S _g *	3.6	5.1
Toyooka	7.7	313	1 46	- 3	3 56	S*	e 4.5	5.8
Mizusawa	8.5	355	1 58	- 2	3 7	-29	—	—
Hukuoka	10.2	290	2 28	+ 4	e 5 45	S _g	—	—
Hukuoka B	10.2	290	2 24	0	e 5 27	S _g	—	—
Husan	11.7	296	2 44	0	7 3	?	—	—
Taihyu	12.2	299	2 53	+ 2	e 6 55	S _g *	—	—
Keizyo	14.1	304	e 3 15	- 2	e 6 49	S*	e 8.0	10.4
Zinsen	N. 14.4	303	e 3 18	- 3	e 5 58	- 3	8.0	—
Vladivostok	14.8	331	i 3 20	- 6	e 5 55	-15	e 6.8	14.0
Heizyo	15.6	307	2 7	?	—	—	—	—
Zi-ka-wei	z. 17.5	277	4 3	+ 3	7 33	+20	—	18.1
Taihoku	18.8	258	4 26	+10	e 8 16	+34	—	—
Nanking	19.7	281	4 28	+ 2	8 52	+52	12.4	14.1
Chiufeng	22.9	302	i 4 56 _a	- 4	9 7	+ 4	11.9	15.6
Manila	24.9	235	5 31 _k	+12	10 29	+50	14.1	16.6
Hong Kong	26.0	258	5 41	+12	10 37	+39	14.5	17.9
Phu-Lien	33.1	260	7 37?	+64	—	—	—	—
Frunse	53.8	303	e 9 17	- 3	—	—	—	—
College	54.3	29	—	—	16 55	- 4	—	—
Andijan	55.8	300	e 9 37	+ 3	e 17 22	+ 2	—	—
Tashkent	58.0	304	i 10 26	+36	i 17 48	- 1	26.6	37.2
Sverdlovsk	60.1	322	i 10 2	- 3	i 18 20	+ 3	30.6	38.8

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.
Baku	72.1	307	i 11 25	+ 2	20 47	+ 1	36.1	47.3
Moscow	72.4	325	e 11 24	- 1	e 20 43	- 7	32.1	46.1
Grozny	73.5	311	e 11 37	+ 5	—	—	44.0	—
Pulkovo	73.6	331	e 12 18	+46	e 20 54	-10	36.6	45.4
Tiflis	75.0	311	11 42	+ 2	i 21 16	- 4	38.6	47.2
Sotchi	77.3	313	e 11 55	+ 1	—	—	—	—
Scoresby Sund	78.3	355	11 57	- 2	21 47	-10	—	—
Simferopol	79.9	317	e 12 8	+ 1	22 4	-11	—	—
Yalta	80.2	316	e 12 9	0	22 6	-12	e 44.6	—
Mount Wilson	z. 80.7	55	e 12 12	0	—	—	—	—
Pasadena	80.7	55	e 12 12	0	—	—	e 35.6	—
Riverside	z. 81.3	55	e 12 15	0	—	—	—	—
Copenhagen	83.5	334	12 25	- 1	22 43	- 9	43.6	—
Ksara	85.0	309	i 12 36	+ 3	e 23 13	+ 5	—	—
Hamburg	86.0	334	—	—	e 23 6	-12	45.6	49.6
Prague	86.6	330	—	—	e 23 7	-16	—	51.6
Belgrade	87.6	322	23 25	S	(23 25)	- 8	46.7	—
Cheb	87.8	330	(e 23 25)	S	e 23 25	-10	46.6	51.6
Ivigtut	87.8	5	—	—	23 25	-10	—	—
Edinburgh	88.6	341	e 12 37?	-14	—	—	e 47.6	—
De Bilt	89.1	335	e 12 54	+ 1	e 23 36	-11	46.6	59.1
Stonyhurst	90.1	340	—	—	e 23 46	-11	45.6	—
Stuttgart	90.1	331	e 12 57	- 1	e 23 45	-12	47.6	59.5
Triest	90.4	327	e 16 3	PP ?	i 23 46	-14	—	49.1
Bidston	90.6	340	—	—	e 23 53	- 9	36.6	—
Strasbourg	90.9	332	e 13 1	- 1	e 23 56	- 8	36.6	—
Kew	91.5	339	e 13 3	- 1	e 23 58	-12	45.6	—
Oxford	91.6	339	—	—	i 23 59	-12	e 47.3	62.4
Paris	92.7	335	e 12 37?	-33	—	—	49.6	60.6
Ottawa	96.7	25	—	—	e 24 1	[- 8]	49.6	—
Philadelphia	101.5	28	—	—	e 24 30	[- 3]	53.6	—
La Paz	N. 149.3	70	19 57	[+16]	—	—	—	—

Additional readings:—

Sumoto SN = +3m.45s.
 Toyooka ePN = +1m.58s., ePE = +2m.0s.
 Keizyo ePKPPKP? = +25m.1s.
 Zi-ka-wei iZ = +4m.33s., +12m.13s., and +14m.5s.
 Nanking iE = +4m.46s., PPN = +5m.36s., PPPN = +5m.58s., PPPPN = +6m.35s., SS = +9m.51s., SSS = +10m.35s.
 Chiufeng iPPEZ = +5m.20s.
 Hong Kong PP = +6m.28s., SS = +12m.7s.
 Tashkent e = +19m.56s., e = +20m.7s., e = +21m.20s., e = +22m.25s.
 Scoresby Sund e = +26m.49s.
 Ksara ePP = +16m.1s., eSKS = +22m.48s., PS = +24m.5s.
 Cheb eS? = +29m.35s.
 Ottawa eE = +32m.19s.

Long waves were also recorded at Honolulu, Tucson, Calcutta, San Fernando, Bergen, Uccle, Durham, Graz, Königsberg, Zagreb, and Granada.

June 28d. 17h. 22m. 28s. Epicentre 30°·6N. 141°·8E. (as at 8h.). X.

	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 38	+10	2 45	+ 7	—	3.5
Mizusawa	E. 8.5	355	e 2 52	+52	e 3 26	-10	—	—
Keizyo	E. 14.1	304	e 3 17	0	—	—	e 9.6	—
Vladivostok	14.8	331	e 3 16	-10	e 5 59	-11	6.7	14.2
Nanking	19.7	281	e 4 34	+ 8	—	—	12.9	—
Chiufeng	22.9	302	e 5 0	0	—	—	—	15.6
Tashkent	58.0	304	i 9 53	+ 3	e 25 14	?	e 28.5	38.7
Sverdlovsk	60.1	322	i 10 7	+ 2	i 20 15	?	31.0	—
Tiflis	75.0	311	e 11 49	+ 9	—	—	40.5	47.1
Ksara	85.0	309	e 12 52	+19	e 24 8	?	—	55.5

Additional readings:—

Nanking iE = +5m.1s.
 Sverdlovsk readings are given for 16h.
 Long waves are also recorded at Hong Kong, Baku, De Bilt, Kew, Paris, Strasbourg, Stuttgart, Copenhagen, Granada, and Scoresby Sund.

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June 28d. Readings also at 0h. (Oacaxa, Puebla, and Tacubaya), 2h. (Santiago), 3h. (near Santiago (2) and San Javier), 6h. (Melbourne, Riverview, near Wellington (2), and near Sitka), 7h. (Philadelphia, Simferopol, Sebastopol, Yalta, Christchurch, and Sydney), 8h. (Scoresby Sund (2), Kobe, Mizusawa, and Nagoya), 11h. (Chiufeng, Nanking, and Vladivostok), 12h. (Sverdlovsk), 13h. (Toledo and Andijan), 14h. (near Mizusawa), 15h. (Tashkent, Vladivostok, Toledo, near Mizusawa, and Nagoya), 16h. (Mizusawa and Sverdlovsk), 17h. (Nagoya), 18h. (Yalta), 20h. (Florissant).

June 29d. 14h. 30m. 15s. Epicentre 36°·2N. 70°·7E. (as on 1935 June 25d.). R.1.

A = +·2667, B = +·7616, C = +·5906; $\delta = -3$;
D = +·944, E = -·331; G = +·195, H = +·558, K = -·807.

Depth of focus 0·030.

	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Samarkand	+0·1	4·5	321	1	5	-1	1	55	-3	—	—
Andijan	0·0	4·7	16	1	5	-2	1	57	-3	—	—
Tashkent	0·0	5·2	349	i1	12	-2	i2	0	-13	i2·1	—
Tchimkent	-0·1	6·2	351	e2	22	S	(e2	22)	-16	—	—
Frunse	-0·2	7·3	20	e1	36	-5	e2	55	-6	—	3·4
Almata	-0·3	8·5	32	i1	55	-1	3	17	-12	—	4·1
Dehra Dun	-0·3	8·5	132	2	5	+9	3	25	-4	—	3·8
Agra	N. -0·5	11·0	143	2	26	-2	4	24	-2	—	—
Semipalatinsk	-0·9	15·8	23	i3	24	-3	e6	17	-6	—	—
Baku	-0·9	16·8	291	i3	42	+2	i6	48	+12	—	7·6
Bombay	-1·0	17·4	173	i3	49	+3	i7	4	+16	—	11·4
Hyderabad	-1·2	20·0	158	4	12	-4	7	42	0	10·2	11·5
Grozny	-1·2	20·4	298	4	21	0	—	—	—	—	—
Calcutta	N. -1·2	20·6	127	4	17	-6	7	56	+2	—	13·9
Tiflis	-1·3	20·8	293	4	22a	-2	i8	4	+8	e11·3	12·1
Frevan	-1·3	20·9	289	e4	45	+20	e8	18	+20	—	—
Sverdlovsk	-1·3	21·7	345	i4	24	-10	i8	7	-7	i12·8	—
Sotchi	-1·6	24·7	298	i6	1	+59	—	—	—	—	—
Kodaikanal	E. -1·7	26·7	165	e6	0	+40	9	58	+17	11·9	13·9
Theodosia	-1·8	28·0	299	e5	29	-2	e10	48	+46	—	—
Ksara	-1·9	28·5	276	i5	26a	-9	10	14	+5	—	—
Yalta	-1·9	28·8	298	i5	34	-3	11	24	+70	—	—
Simferopol	-1·9	29·0	300	e5	36	-3	—	—	—	—	—
Sebastopol	-1·9	29·2	298	e5	41	0	—	—	—	—	—
Moscow	-2·0	29·7	320	i5	40	-4	10	21	-6	11·7	13·6
Colombo	-2·0	30·5	162	5	53	+1	12	5	?	19·6	21·6
Helwan	-2·2	33·4	271	i6	16	0	11	20	-3	—	20·9
Bucharest	-2·2	33·5	298	e6	25k	+8	i11	25	+1	—	—
Czernowitz	E. -2·3	34·7	306	i6	38	+12	i10	39	-62	—	—
Phu-Lien	-2·3	34·9	106	e5	58	-30	11	8	-37	—	—
Pulkovo	-2·3	35·0	325	i6	26	-3	11	42	-4	13·8	15·2
Chiufeng	-2·3	35·6	70	i6	32k	-2	i11	51	-4	—	18·7
Belgrade	-2·4	38·6	299	e6	43k	-17	—	—	—	e15·3	—
Königsberg	-2·4	38·7	315	i7	1	+1	e12	39	-2	e18·2	—
Budapest	E. -2·5	39·3	304	7	5	0	8	19	?	15·8	—
	N. -2·5	39·3	304	7	9	+4	8	24	?	15·8	17·3
Nanking	-2·5	39·6	82	e7	7	0	i12	51	-2	—	—
Hong Kong	-2·5	40·0	98	7	8	-3	12	57	-2	—	22·0
Upsala	-2·6	41·1	322	i7	17	-2	13	4	-10	—	16·7
Vienna	-2·6	41·1	305	e7	9	-10	16	37	?	—	—
Zagreb	-2·6	41·5	301	e7	22a	-1	—	—	—	e16·8	—
Medan	-2·6	41·6	135	7	38	+14	i13	22	+1	—	—
Graz	-2·6	41·7	302	i7	24	0	i10	14	?	16·8	19·1
Zi-ka-wei	Z. -2·6	42·0	82	7	26	-1	—	—	—	—	—
Prague	-2·6	42·2	308	i7	26	-3	—	—	—	—	18·8
Triest	-2·7	43·1	301	i7	45	+10	i13	46	+4	—	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.		O-C.	S.		O-C.	L.	M.
				m.	s.		m.	s.			
Copenhagen	-2.7	43.3	316	7	36a	-1	13	45	0	—	—
Cheb	-2.7	43.5	308	e7	39	0	e10	42	?	16.8	22.5
Jena	-2.7	44.0	309	i7	42	-1	—	—	—	16.8	23.0
Keizyo	-2.8	44.4	70	e7	45	0	e13	55	-5	—	—
Padova	-2.8	44.5	302	e7	49	+3	e13	45	-17	e19.8	—
Hamburg	-2.8	44.8	314	e7	47	-2	—	—	—	—	23.8
Göttingen	-2.8	44.9	310	i7	49	0	—	—	—	—	—
Florence	-2.8	45.2	300	7	52	0	—	—	—	—	—
Kosyun	-2.8	45.4	94	7	25	-28	—	—	—	—	—
Taito	-2.8	45.4	93	8	0	+7	—	—	—	—	—
Stuttgart	-2.8	45.7	307	7	56a	0	e14	25	+6	—	—
Chur	-2.8	45.8	302	e7	55	-2	e18	25	ScS	—	—
Taikyu	-2.9	46.1	73	e8	1	+3	e14	27	+3	—	—
Karlsruhe	-2.9	46.2	307	8	2	+3	18	8	ScS	—	—
Zurich	-2.9	46.4	305	e7	59a	-2	18	11	ScS	—	—
Husan	-2.9	46.7	74	e8	3	0	e14	33	0	—	—
Strasbourg	-2.9	46.7	307	i8	4a	+1	e14	36	+3	29.8	—
Basle	-2.9	47.0	305	e8	5	-1	—	—	—	—	—
Bergen	-2.9	47.2	323	i8	6	-1	14	10	-30	e18.2	23.3
Neuchatel	-3.0	47.5	305	8	9	0	—	—	—	—	—
De Bilt	-3.0	47.8	311	e8	11	0	—	—	—	—	—
Uccle	-3.0	48.5	310	8	16	-1	—	—	—	—	—
Manila	-3.1	49.6	102	i8	28a	+3	i15	18	+6	20.8	26.6
Miyazaki	-3.1	49.7	76	8	27	+2	15	2	-11	—	—
Paris	-3.1	50.1	307	i8	29	0	e15	45	+26	19.8	20.8
Kew	-3.2	51.3	311	i8	37a	0	—	—	—	19.8	30.9
Durham	-3.2	51.4	316	8	36	-2	—	—	—	—	—
Kobe	-3.2	51.5	71	e8	36	-2	e15	43	+6	—	—
Sumoto	-3.2	51.5	70	8	40	+2	—	—	—	—	—
Wakayama	-3.2	51.7	70	8	42	+2	—	—	—	—	—
Osaka	-3.2	51.8	71	8	45	+4	—	—	—	—	—
Oxford	-3.2	51.8	312	i8	43	+2	—	—	—	—	—
Edinburgh	-3.2	52.1	317	i8	45	+2	—	—	—	—	31.1
Stonyhurst	-3.2	52.1	315	i8	45	+2	—	—	—	—	21.8
Barcelona	-3.2	52.3	300	i8	46	+2	—	—	—	—	—
Bidston	-3.2	52.5	314	i8	52	+6	—	—	—	19.8	31.2
Gihu	-3.2	52.5	70	8	47	+1	—	—	—	—	—
Kameyama	-3.2	52.5	71	9	14	+28	—	—	—	—	—
Nagoya	-3.3	52.8	70	e7	37	-70	9	36	?	—	—
Nagano	-3.3	53.1	69	8	51	+1	—	—	—	—	—
Algiers	-3.3	53.2	292	e8	51	0	—	—	—	e23.0	—
Sapporo	-3.3	53.2	59	8	54	+3	—	—	—	—	—
Oiwake	-3.3	53.5	68	8	56	+3	—	—	—	—	—
Batavia	-3.4	54.3	134	9	24	+26	14	59	-74	—	—
Misima	-3.4	54.3	70	9	10	+12	—	—	—	—	—
Tokyo	-3.4	54.7	68	9	19	+18	—	—	—	—	—
Scoresby Sund	-3.5	57.1	337	i9	20k	+2	17	1	+11	—	—
Almeria	-3.5	57.2	295	e9	18	-1	—	—	—	—	—
Toledo	-3.5	57.2	299	i9	22	+3	e16	49	-3	e24.2	—
Granada	-3.5	57.9	296	i9	26	+2	—	—	—	—	—
Malaga	-3.5	58.7	296	9	31	+1	—	—	—	—	—
San Fernando	-3.6	60.2	296	e9	42	+2	e18	54	+83	—	—
Iviglut	-3.8	70.7	334	i10	48a	-3	19	44	+1	—	—
College	-3.9	74.5	16	e14	57	PP?	—	—	—	—	—
Dakar	-4.0	79.9	281	10	48	-57	—	—	—	31.8	—
Sitka	-4.1	84.2	13	12	2	-6	22	8	-9	—	—
Cape Town Univ.	-4.1	85.5	221	—	—	—	i22	12	-19	47.3	56.4
Oak Ridge	-4.3	94.1	333	i11	52	-64	e24	45?	+50	—	—
Philadelphia	-4.4	97.6	334	e13	7	-5	i25	6	+40	37.6	—
Chicago	-4.4	99.5	344	e17	33	PP	e25	13	+30	—	—

Continued on next page.

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	Corr. for Focus	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
Florissant	-4.5	102.9	345	i 13 32	- 4	e 24 53	-19	e 44.2	48.6
Ottawa	-4.5	103.0	337	e 13 45	+ 8	—	—	43.8	—
Mount Wilson	z.	109.1	8	e 18 12	[- 3]	—	—	—	—
Pasadena	z.	109.2	9	e 18 19	[+ 3]	—	—	—	—
Riverside	z.	109.4	7	e 18 14	[- 2]	—	—	—	—
La Jolla	z.	110.5	6	e 18 37	[+18]	—	—	—	—
Tucson	—	111.5	1	e 20 4	?	e 26 7	{-11}	e 37.8	—
San Juan	—	111.9	317	e 18 45	[+21]	—	—	—	—
La Paz	—	138.6	287	e 18 59	[-21]	25 59	SKS	72.3	80.4
Huancayo	—	141.0	300	e 18 26	[-57]	—	—	e 34.8	—

Additional readings :—

Samarkand $i = +1m.10s.$
 Andijan $i = +1m.7s., iP^* = +1m.10s., iP_g = +1m.13s., iPSP = +1m.16s.$
 Tashkent $e = +1m.23s.$
 Tchimkent $iS_g = +3m.30s.$
 Frunse $i = +1m.51s.,$ and $+2m.33s.$
 Almata $i = +3m.27s.$
 Semipalatinsk $i = +4m.17s.$
 Bombay $P^*EN = +4m.49s., S_gEN = +9m.21s.$
 Hyderabad $PP = +5m.18s.$
 Grozny $i = +4m.31s.,$ and $4m.46s.$
 Calcutta $SSN = +8m.40s.$
 Tiflis $i = +4m.25s., e = +5m., +5m.15s., +5m.33s.,$ and $+9m.24s.$
 Erevan $e = +5m.19s., e = +5m.33s.$
 Sverdlovsk $= 160 + 11.4m.$
 Sochi $i = +6m.33s., +6m.43s.,$ and $+6m.49s.$
 Kodaikanal $SS = +10m.48s.$
 Theodosia $i = +6m.20s.$
 Ksara $iPP = +6m.23s., sP = +6m.48s., pPCP = +9m.29s., SS = +11m.41s.,$
 $iPCS = +12m.4s., SS = +12m.32s.$
 Yalta $i = +16m.24s.$
 Simferopol $i = +6m.26s.$
 Sebastopol $i = +6m.41s.$
 Helwan $PPP = +7m.30s.$
 Bucharest $eN = +6m.29s., iPPE = +7m.45s., iE = +8m.27s.$ and $+9m.55s.,$
 $iEN = +11m.41s., iN = +11m.6s., eEN = +12m.27s., iSSE = +14m.29s.,$
 Czernowitz $iPPE = +7m.55s., i = +8m.58s.$
 Phu-Lien $PP = +6m.49s.$
 Chiufeng $iEZ = +7m.22s., PPPEZ = +7m.51s., iEZ = +8m.51s., iN = +16m.31s.$
 Belgrade $e = +7m.57s., e = +9m.16s.$
 Königsberg $eE = +7m.49s., iP_cPNZ = +8m.10s., iE = +8m.18s.$ and $+9m.37s.,$
 $iPPNZ = +9m.40s., iE = +13m.49s., iPS = +15m.31s.$
 Budapest $iE = +9m.43s.$
 Nanking $PP = +8m.25s., SSN = +14m.21s., SSE = +14m.35s.$
 Hong Kong $PP = +8m.1s., P_cP = +10m.3s.$
 Upsala $iPPE = +8m.35s., iPPPE = +9m.4s., iE = +10m.6s., SE = +13m.12s.$
 Vienna $ePP? = +8m.39s., PP = +10m.15s., PPP = +14m.8s., S_cS = +17m.26s.$
 Zagreb $eP = +7m.26s., ePPZ = +8m.9s., ePPP = +8m.39s., eP_cP = +10m.15s.,$
 $eN = +10m.28s., eSS = +15m.24s.$
 Graz $i = +8m.43s.$ and $+10m.22s.$
 Zi-ka-wei $iZ = +8m.18s., +8m.45s., +11m.26s., +14m.29s., +16m.13s.,$ and
 $+19m.1s.$
 Prague $e = +8m.41s., +10m.27s., +15m.3s.,$ and $+17m.3s.$
 Trieste $iPP? = +8m.53s., iEZ = +9m.22s., iPP? = +10m.31s., iS? = +15m.3s.,$
 $isS? = +17m.17s., i = +17m.29s.$
 Copenhagen $eN = +8m.2s., e = +8m.50s., eN = +9m.15s., PP = +9m.25s.,$
 $eEZ = +10m.1s.$ and $+10m.27s., eE = +14m.41s., eN = +15m.21s., SS =$
 $+17m.9s.$
 Cheb $ePPP? = +8m.56s.$
 Jena $eN = +7m.45s., i = +8m.56s., iN = +10m.39s., iE = +10m.42s., eN =$
 $+15m.15s., eE = +15m.18s.$
 Hamburg $iP_cPZ = +9m.6s., iPPZ = +9m.41s., ePPPE = +10m.23s., ePPPPZ =$
 $+10m.56s., eS_cSE = +17m.51s.$
 Göttingen $iP_cP = +9m.2s., iPPEZ = +9m.43s., iPPP = +10m.53s.$
 Florence $i = +9m.15s.$
 Stuttgart $epPZ = +8m.46s., sP = +9m.14s., ePPEZ = +9m.47s., epPP =$
 $+10m.23s., ePPP = +10m.50s., e = +12m.9s.$ and $+14m.13s., esS =$
 $+15m.45s., eSS = +18m.1s.$
 Zurich $e = +9m.16s., e = +11m.4s.$
 Strasbourg $i = +9m.22s., iPP = +10m.1s., iPPP = +11m.13s., i = +11m.30s.,$
 $e = +12m.14s., i = +16m.1s., iSS = +18m.27s., iSSS = +19m.40s., i =$
 $+20m.35s., +23m.2s.,$ and $+27m.4s.$

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Basle e = +9m.25s., e = +11m.26s.
 Bergen ipP = +9m.24s., SS = +16m.19s.
 De Bilt iEZ = +8m.13s., iZ = +9m.31s., e = +11m.15s., eE = +16m.11s., e = +19m.23s.
 Uccle iZ = +8m.20s., +9m.37s. and +10m.13s., iE = +10m.59s., iZ = +11m.25s.
 Manila ePEN = +8m.29s.
 Paris PP = +11m.42s.
 Kew i = +9m.56s., iEZ = +11m.46s., eEN = +17m.17s.
 Durham ? = +19m.48s.
 Kobe eZ = +8m.39s., eE = +9m.21s., eZ = +9m.31s.
 Sumoto eZ = +9m.31s., eN = +9m.34s. and +17m.3s., eZ = +17m.11s.
 Oxford i = +9m.59s. and +14m.58s., e = +23m.35s.
 Edinburgh i = +10m.3s., +11m.58s., +17m.23s., +20m.40s., +21m.17s., +21m.53s.
 Stonyhurst i = +10m.0s., iPP = +12m.0s., i = +17m.15s., +20m.1s., +21m.15s., and +21m.45s.
 Barcelona i = +10m.1s.
 Bidston i = +10m.12s., +12m.5s., e = +17m.22s.
 Algiers i = +10m.9s., i = +10m.45s., e = +17m.59s.
 Scoresby Sund e = +10m.39s., PP = +11m.29s., PPPE = +12m.33s., eE = +13m.43s., +17m.17s. and +18m.23s., eN = +18m.44s., SS = +20m.33s., SSS = +22m.27s.
 Almera PP = +10m.59s., i = +14m.2s.
 Toledo PP = +10m.54s.
 Granada i = +10m.46s.
 Malaga i = +10m.54s., e = +18m.42s.
 San Fernando ePP = +11m.33s., iPS = +19m.14s., SS = +23m.0s.
 Ivigtut +12m.8s., +21m.16s.
 Dakar ePPP = +12m.36s., eSS = +23m.3s.
 Sitka e = +16m.39s., eSS = +27m.49s.
 Cape Town Univ. i = +22m.22s., i = +24m.0s., N = +26m.30s., E = +28m.2s., N = +28m.15s.
 Chicago ePPP = +20m.46s., e = +28m.33s.
 Oak Ridge eZ = +15m.39s., eN = +22m.45s.?
 Philadelphia e = +16m.29s., ePP = +16m.58s., e = +18m.19s., e = +20m.22s., e = +22m.16s., e = +23m.15s., ePS = +26m.1s.
 Florissant ePPZ = +17m.38s., iZ = +19m.6s., iPPPPZ = +21m.18s., isKSEN = +23m.46s., isE = +24m.56s., isSEN = +25m.33s., eSPEN = +26m.10s., isSPE = +26m.40s., eSSE = +31m.56s., eSSSE = +36m.12s.
 Ottawa e = +22m.51s.
 Mount Wilson iZ = +24m.4s.
 Pasadena iZ = +18m.38s., iZ = +19m.43s., iZ = +28m.42s., iZ = +29m.13s.
 Riverside eZ = +19m.48s.
 Tucson ePS = +28m.15s., eSS = +34m.9s.
 La Paz iZ = +21m.49s., iPPN = +22m.35s., iZ = +23m.11s., PS = +34m.11s., SS = +41m.15s.

June 29d. Readings also at 2h. (Grozny and near Nagoya), 3h. (Oaxaca and Tacubaya), 4h. (Andijan, La Paz, and Samarkand), 6h. (Charlottesville), 10h. (La Plata and near Santiago), 20h. (Cape Town and near Christchurch), 21h. (Ksara), 22h. (Sverdlovsk and Tashkent).

June 30d. 10h. 27m. 23s. Epicentre 40°·5N. 122°·0W. (as on 1928 April 15d.). X.

A = -·4030, B = -·6449, C = +·6494; δ = +3;
 D = -·848, E = +·530; G = -·344, H = -·551, K = -·760.

	Δ	Az.	P.	O - C.	S.	O - C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ukiah	1·6	214	—	—	e 0 39	- 2	e 1·9
Ferndale	1·7	272	e 0 48	S	(e 0 48)	+ 4	—
Berkeley	2·6	186	e 0 37	0	i 2 9	+62	—
San Francisco	E. 2·7	188	e 0 41	+ 2	e 1 11	+ 2	—
Branner	3·1	183	e 0 46	+ 2	e 1 15	- 5	—
Lick	3·5	174	e 0 46	-·4	e 1 22	- 8	—
Fresno	N. 4·1	155	e 1 0	+ 2	e 1 53	+ 8	—
Tinemaha	Z. 4·5	138	i 1 12	+ 8	i 2 4	+ 9	—
Haiwee	5·3	143	e 1 26	P*	i 2 30	+15	—
Pasadena	7·0	153	e 1 36	- 3	i 3 21	+22	—
Mount Wilson	Z. 7·0	151	e 1 40	+ 1	i 3 22	+23	—

Additional readings:—

Ukiah e = +1m.17s.

Ferndale eE = +1m.3s. and +1m.19s., eN = +1m.27s.

Branner eEN = +1m.19s.

Long waves were also recorded at Tucson.

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June 30d. 12h. 46m. 57s. Epicentre 40°·5N. 122°·0W. (as at 10h.). R.3.

	Δ	Az.	P.	O-C.	S.	O-C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Ukiah	1·6	214	e 0 29	+ 6	e 0 44	+ 3	1·4
Ferndale	1·7	272	e 0 30	+ 6	e 1 20	?	—
Berkeley	2·6	186	e 0 37	0	e 1 8	+ 1	—
San Francisco	2·7	188	e 0 38	- 1	e 1 11	+ 2	—
Branner	3·1	183	e 0 43	- 1	e 1 18	- 2	—
Lick	3·5	174	e 0 43	- 7	e 1 18	-12	—
Fresno	4·1	155	e 0 55	- 3	e 1 38	- 7	—
Tinemaha	4·5	138	i 1 11	+ 7	i 2 9	+14	—
Haiwee	5·3	143	e 1 27	+12	i 2 35	+20	—
Pasadena	7·0	153	e 1 38	- 1	i 3 18	+19	—
Mount Wilson	z. 7·0	151	e 1 40	+ 1	i 3 22	+23	—
Riverside	z. 7·4	151	e 1 44	- 1	i 1 53	?	—

Additional readings:—

Ukiah e = +38s.
 Ferndale eN = +49s. and +1m.10s.
 Berkeley eNZ = +40s., eEN = +48s.
 Branner eEN = +55s., +1m.25s., and +1m.32s.
 Lick eEN = +48s., +51s., +55s., eE = +1m.25s., eN = +1m.34s.
 Fresno eN = +1m.2s., iN = +1m.42s., eN = +1m.59s.
 Long waves were also recorded at Tucson.

June 30d. 15h. 6m. 44s. Epicentre 51°·1N. 161°·1E. N.1.

A = -·5941, B = +·2034, C = +·7782; $\delta = -8$;
 D = +·324, E = +·946; G = -·736, H = +·252, K = -·628.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Otaia	12·5	259	1 50	-65	—	—	—	—
Nemuro	13·1	240	3 56	+53	7 36	?	—	—
Kusiro	13·9	241	3 0	-14	—	—	—	—
Asahigawa	14·5	247	3 23	+ 1	—	—	—	—
Haboro	14·6	250	3 0	-23	—	—	—	—
Obihiro	14·6	243	3 21	- 2	—	—	—	—
Urakawa	15·4	241	3 27k	- 7	—	—	—	—
Sapporo	15·6	247	3 34k	- 2	6 53	+24	—	—
Muroran	16·3	245	3 45	0	—	—	—	—
Hadkodate	16·8	245	3 53	+ 1	—	—	—	—
Aomori	17·4	242	3 53	- 6	—	—	—	—
Miyako	17·6	237	3 49	-13	7 15	0	—	—
Morioka	18·0	239	4 2	- 5	7 24	- 1	—	—
Mizusawa	18·4	237	i 4 8	- 3	i 7 40	+ 7	—	—
Isinomaki	18·8	236	4 15	- 1	8 15	+33	—	—
Sendai	19·2	230	4 18a	- 3	7 58	+ 8	—	—
Yamagata	19·4	237	4 22k	- 1	8 4	+10	—	—
Hokusima	19·8	236	4 25a	- 2	8 8	+ 6	—	—
Aidu	20·1	238	4 37a	+ 6	8 29	+21	—	—
Onahama	20·2	234	4 34	+ 2	8 20	+10	—	—
Niigata	20·4	239	4 39	+ 5	—	—	—	—
Mito	20·8	233	4 39a	+ 1	8 30	+ 8	—	—
Kakioka	21·1	234	4 40a	- 1	8 32	+ 4	—	—
Tukubasan	21·1	234	4 41a	0	8 34	+ 6	—	—
Tyosi	21·1	231	4 42a	+ 1	8 39	+11	—	—
Vladivostok	21·3	259	i 4 39	- 4	i 8 40	+ 8	—	14·1
Maebasi	21·4	236	4 45a	+ 1	8 45	+11	—	—
Takada	21·4	240	4 57	+13	—	—	—	—
Kumagaya	21·5	237	4 46a	+ 1	8 47	+11	—	—
Tokyo	21·7	234	4 50a	+ 2	8 51	+11	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagano	21.8	239	4 50 ^a	+ 1	8 51	+ 9	—	—
Oiwake	21.8	237	4 50 ^a	+ 1	8 51	+ 9	—	—
Katuura	21.9	232	4 53	+ 3	—	—	—	—
Wazima	21.9	242	4 51	+ 1	8 51	+ 7	—	—
Yokohama	22.0	234	4 52 ^a	+ 1	9 3	+19	—	—
Yokosuka	22.1	234	4 56	+ 4	—	—	—	—
Husiki	22.3	240	4 46	- 8	—	—	—	—
Mera (Tomisaki)	22.3	233	4 55 ^a	+ 1	9 14	+22	—	—
Toyama	22.3	240	4 56	+ 2	9 0	+ 8	—	—
Hunatu	22.4	235	4 54	- 1	9 6	+13	—	—
Kohu	22.4	235	4 55 ^a	0	9 5	+12	—	—
Ito	22.6	234	4 58	+ 1	9 16	+19	—	—
Misima	22.6	234	4 56 ^a	- 1	9 8	+11	—	—
Numadu	22.6	234	5 0	+ 3	—	—	—	—
Kanazawa	22.7	241	4 53 ^a	- 5	8 57	- 2	—	—
Takayama	22.7	237	4 56	- 2	—	—	—	—
Hukui	23.3	237	4 38	-26	—	—	—	—
Omaesaki	23.3	236	5 2 ^a	- 2	9 16	+ 6	—	—
Gihu	23.4	237	5 5 ^a	0	9 21	+ 9	—	—
Hamamatu	23.5	237	5 7 ^a	+ 2	9 18	+ 4	—	—
Nagoya	23.6	237	5 7 ^a	+ 1	9 28	+12	11.8	12.6
Ibukisan	23.7	237	5 0 ^a	- 7	9 21	+ 3	—	—
Hatidyozima	23.8	231	5 9 ^a	+ 1	9 31	+12	—	—
Hikone	23.9	238	5 9	0	9 31	+10	—	—
Kameyama	24.1	237	5 12 ^a	+ 1	9 38	+13	—	—
Tu	24.1	237	5 16	+ 5	9 32	+ 7	—	—
Miyadu	24.2	241	5 12	0	9 39	+12	—	—
Kyoto	24.3	238	5 14 ^a	+ 1	9 32	+ 4	—	—
Toyooka	24.4	241	5 14 ^a	0	9 43	+13	12.1	14.7
Osaka	24.7	238	5 19	+ 2	—	—	—	—
Yagi	24.7	241	5 18	+ 1	9 46	+10	—	—
Kobe	24.9	238	i 5 19 ^a	0	i 9 45	+ 6	12.5	16.1
Hsinking	24.9	267	6 21	+62	—	—	—	—
Wakayama	25.2	238	5 23 ^a	+ 1	10 0	+16	—	—
Okayama	25.5	241	5 26	+ 1	9 58	+ 8	—	—
Sumoto	25.7	238	5 23 ^a	- 3	9 59	+ 6	—	10.1
Tokusima	25.7	238	5 27	+ 1	9 55	+ 2	—	—
Tadotu	25.9	239	5 30 ^a	+ 2	10 0	+ 3	—	—
Hamada	26.4	243	5 33 ^a	0	—	—	—	—
Muroto	26.5	239	5 33	- 1	—	—	—	—
Hirosima	26.6	242	5 41 ^a	+ 6	10 23	+14	—	—
Kure	26.6	242	5 39	+ 4	—	—	—	—
Koti	26.6	240	5 35 ^a	0	10 12	+ 3	—	—
Heizyo	27.4	259	i 5 43	+ 1	10 20	- 2	16.6	18.4
Wazima	27.4	241	5 52	+10	—	—	—	—
Simidu	27.5	240	5 44	+ 1	10 20	- 4	—	—
Keizyo	27.6	255	i 5 44 ^a	0	e 10 20	- 5	—	15.9
Taikyu	27.7	250	5 48 ^a	+ 4	10 33	+ 6	14.7	18.3
Zinsen	27.8	255	i 5 46 ^a	+ 1	i 10 29	+ 1	—	19.4
Ooita	27.9	242	5 30	-16	—	—	—	—
Husan	28.0	249	5 38 ^a	- 9	10 22	-10	—	10.6
Titizima	28.0	219	5 47	0	—	—	—	—
Hukuoka	28.3	244	i 5 49 ^a	- 1	10 33	- 4	13.9	14.9
Hukuoka B	28.3	244	i 5 49	- 1	i 10 49	+12	—	11.1
Ituhara	28.5	248	5 53	+ 1	10 41	+ 1	—	—
Saga	28.6	244	6 27	+34	11 45	+63	—	—
Yingkow	28.6	264	5 34 ^k	-19	10 17	-25	—	—
Kumamoto	28.7	243	5 56 ^a	+ 3	10 58	+15	—	—
Miyazaki	29.0	241	5 58	+ 2	10 48	0	—	—
Unzendake	29.0	243	6 2 ^a	+ 6	—	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m.	m.
College	29.3	42	e 5 59	0	i 10 50	- 3	e 14.8	—
Nagasaki	29.3	243	5 55	- 4	10 46	- 7	—	—
Kagosima	29.8	241	6 5	+ 2	11 5	+ 4	—	—
Dairen	30.0	262	6 8	+ 3	11 1	- 3	—	—
Tomie	30.0	244	6 20	+15	—	—	—	—
Chiufeng	32.8	269	6 29k	- 1	i 11 29	-19	18.5	18.3
Nake	32.8	239	6 27 ^a	- 3	11 43	- 5	—	—
Zi-ka-wei	E. 35.2	252	6 51	0	12 26	+ 2	16.5	24.4
Naha	35.5	239	6 55	+ 2	12 27	- 2	—	—
Nanking	36.2	266	i 7 1	+ 1	i 12 39	0	16.3	21.2
Sitka	36.4	55	i 7 6	+ 5	i 12 42	0	i 18.2	—
Isigakizima	38.9	241	7 20	- 3	13 16	- 4	—	—
Giran	39.9	245	7 30	- 1	—	—	—	—
Taihoku	39.9	245	7 29 ^a	- 2	13 38	+ 3	18.0	21.6
Karenko	40.6	245	7 34	- 3	—	—	—	—
Taityu	41.0	246	7 40	0	13 53	+ 2	—	—
Arisan	41.4	245	7 44	0	13 56	- 1	—	—
Taito	41.9	244	7 47	- 1	14 16	+11	—	—
Kosyun	42.7	243	7 52	- 2	14 7	- 9	—	—
Tainan	43.0	245	7 51	- 6	—	—	—	—
Honolulu T.H.	43.6	117	i 8 6	+ 4	i 14 38	+ 8	26.3	—
Hong Kong	46.2	250	8 21	- 1	15 6	- 1	22.8	30.0
Victoria	46.7	62	i 8 26	0	i 15 23	+ 9	22.5	26.5
Seattle	47.7	62	8 32	- 2	e 15 32	+ 3	e 19.3	—
Semipalatinsk	48.4	303	i 8 37	- 2	15 27	-11	18.5	—
Manila	48.6	236	i 8 41 ^a	0	i 15 40	- 1	23.3	27.3
Palau	49.0	217	8 40	- 4	15 40	- 7	—	—
Ferndale	50.8	71	e 9 2	+ 5	i 16 20	+ 8	e 21.8	—
Phu-Lien	51.9	255	i 9 5	- 1	i 16 28	+ 1	24.8	31.4
Ukiah	52.3	72	i 9 12	+ 3	e 16 32	- 1	e 24.6	—
Saskatoon	53.2	50	i 9 18	+ 3	i 16 46	+ 1	—	—
San Francisco	E. 53.6	73	e 9 19	+ 1	e 16 44	- 6	—	—
Berkeley	53.7	73	e 9 18	- 1	e 16 56	+ 4	24.2	—
Branner	54.0	73	e 9 24	+ 3	e 16 58	+ 2	—	—
Lick	54.4	73	e 9 27	+ 3	e 17 6	+ 5	—	—
Almata	54.6	298	9 28	+ 2	e 17 8	+ 4	21.5	—
Bozeman	55.0	58	i 9 30	+ 1	e 17 13	+ 4	e 23.3	—
Fresno	55.9	72	e 9 36	+ 1	—	—	—	—
Frunse	56.1	298	9 34	- 3	17 23	- 1	22.8	—
Tinemaha	56.6	71	i 9 44 ^a	+ 4	e 17 41	+10	—	—
Haiwee	57.4	71	i 9 49	+ 3	i 17 44	+ 2	—	—
Scoresby Sund	58.4	2	i 9 55k	+ 2	i 17 59	+ 4	—	—
Mount Wilson	58.6	73	i 9 57 ^a	+ 2	e 18 4	+ 7	—	—
Pasadena	58.6	73	i 9 56 ^a	+ 1	i 18 3	+ 6	—	—
Andijan	58.8	298	9 57	+ 1	i 18 5	+ 5	30.5	—
Riverside	59.2	73	i 10 0	+ 1	e 18 2	- 3	—	—
Tchimkent	59.2	301	9 59	0	e 18 2	- 3	33.8	—
Tashkent	60.0	300	i 10 2	- 2	i 18 5	-11	—	—
La Jolla	60.1	74	i 10 6 ^a	+ 1	e 18 19	+ 2	—	—
Calcutta	62.0	272	10 16	- 2	18 36	- 6	e 29.3	39.5
Pulkovo	62.2	335	i 10 19	- 1	18 39	- 6	29.3	36.9
Denver	62.4	60	e 10 20	- 1	i 18 55	+ 8	—	—
Samarkand	62.5	300	10 24	+ 2	18 39	- 9	—	—
Dehra Dun	62.7	286	10 36	+13	18 56	+ 5	31.1	38.3
Moscow	63.4	328	i 10 27	- 1	18 58	- 2	28.8	41.5
Tucson	64.3	70	i 10 36	+ 2	e 19 14	+ 3	e 29.3	—
Reykjavik	64.7	3	10 39	+ 2	e 19 19	+ 3	—	—
Agra	65.0	283	i 10 33	- 6	i 19 12	- 8	—	36.9
Upsala	65.2	342	i 10 39	- 1	i 19 21	- 1	28.3	37.9
Ivigtut	65.3	16	i 10 39	- 2	i 19 23	- 1	31.3	—

Continued on next page.

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	Δ	Az.	P.		O-C.	S.	O-C.	L.	M.	
	°	°	m. s.		s.	m. s.		m.	m.	
Des Moines	66.8	51	i 10	53	+ 2	e 19	35	- 7	e 31.4	—
Bergen	67.1	348	i 10	51	- 1	i 19	5	-41	e 32.6	48.0
Madison	67.8	48	i 10	56	- 1	i 19	51	- 3	32.8	38.3
Apia	69.1	151	i 11	1	- 4	i 20	8	- 2	31.3	—
Königsberg	69.1	337	i 11	4	- 1	i 20	6	- 4	e 30.8	39.6
Loyola (Chicago)	69.5	48	i 11	6	- 2	e 20	12	- 3	—	—
Chicago	69.6	48	i 11	11	+ 3	e 20	15	- 1	e 33.5	—
Copenhagen	70.1	342	i 11	11 ^a	0	i 20	15	- 7	30.3	—
Grozny	70.2	316	11	15	+ 3	20	29	+ 5	36.7	—
Florissant	70.6	52	i 11	13	- 1	i 20	26	- 2	i 31.7	37.8
Baku	70.7	311	i 11	14	- 1	—	—	—	—	—
Piatigorsk	70.8	318	i 11	15	- 1	20	24	- 7	29.0	—
St. Louis	70.8	52	i 11	16	0	i 20	28	- 3	e 30.6	38.0
Ann Arbor	71.0	46	i 11	22	+ 5	i 20	34	+ 1	e 33.9	49.8
Medan	71.3	250	11	15	- 4	20	25	-12	36.3	—
Ottawa	71.5	39	i 11	20 ^a	0	i 20	36	- 3	32.3	—
Toronto	71.7	42	i 11	16	- 5	i 20	32	- 9	33.9	—
Tiflis	71.9	316	i 11	22 ^a	0	i 20	41	- 3	37.3	50.3
Hyderabad	72.0	275	11	19	- 4	20	31	-14	33.8	45.8
Edinburgh	72.2	351	e 11	26	+ 2	i 20	45	- 2	31.3	49.6
Buffalo	72.6	42	i 11	26	0	i 20	42	-10	—	—
Sotchi	72.6	320	e 12	26	+60	21	43	+51	38.3	—
Lemberg	72.7	333	e 11	39	+12	e 21	1	+ 8	29.3	47.1
Hamburg	72.9	343	i 11	26 ^a	- 2	i 20	53	- 3	33.3	39.3
Theodosia	73.1	323	i 11	28	- 1	20	54	- 4	33.3	—
Durham	73.2	350	i 11	28	- 2	i 20	56	- 3	—	50.6
Erevan	73.3	314	11	30	- 1	21	2	+ 2	45.2	—
Czernowitz	73.5	331	e 11	44	+12	21	16	+13	35.3	48.1
Vermont	73.5	37	i 11	33	+ 1	e 20	44	-19	e 36.4	—
Simferopol	73.6	325	11	31	- 1	20	57	- 7	31.3	—
Batavia	73.7	238	i 11	28 ^a	- 5	i 20	59	- 6	36.3	—
Yalta	74.0	323	11	33	- 2	21	2	- 6	33.3	—
Sebastopol	74.1	324	i 11	34	- 1	21	4	- 6	37.3	—
Stonyhurst	74.1	350	11	36	+ 1	i 21	6	- 4	36.3	44.1
Malabar	74.2	234	e 11	34	- 2	e 20	53	-18	—	—
Bombay	74.3	281	i 11	38	+ 2	i 21	9	- 3	35.3	41.6
Göttingen	74.5	342	i 11	36 ^a	- 1	i 21	13	- 1	e 37.3	41.3
Bidston	74.7	351	i 11	37	- 2	i 21	25	+ 8	34.3	48.3
Jena	74.7	340	i 11	37	- 2	i 21	12	- 5	34.3	43.3
Pennsylvania	74.7	43	i 11	37	- 2	e 21	7	-10	e 38.9	46.5
De Bilt	74.8	345	i 11	40 ^a	+ 1	i 21	17	- 1	e 37.3	53.4
Prague	74.9	339	e 11	36	- 4	i 21	17	- 2	31.3	40.3
Hof	75.3	341	i 11	42	0	i 21	16	- 8	34.3	42.8
Cheb	75.4	340	e 11	41	- 2	i 21	21	- 4	33.3	42.6
East Machias	75.4	34	i 11	44	+ 1	i 21	21	- 4	35.8	—
Oak Ridge	75.8	37	i 11	44	- 1	i 21	31	+ 2	e 39.3	—
Oxford	76.1	349	i 11	44 ^a	- 3	i 21	28	- 5	e 36.3	55.1
Budapest	76.2	335	i 11	45	- 2	21	28	- 6	34.8	49.3
Kew	76.2	348	i 11	47	0	i 21	30	- 4	35.3	45.6
Uccle	76.2	346	i 11	47 ^a	0	i 21	31	- 3	32.3	44.2
Vienna	76.2	337	i 11	47 ^a	0	21	34	0	e 36.3	49.3
Fordham	76.3	40	i 11	46	- 2	21	51	+16	—	—
Georgetown	76.6	43	i 11	49	0	i 21	32	- 6	—	—
Philadelphia	76.6	41	i 11	47	- 2	i 21	22	-16	i 37.2	—
Bucharest	76.9	329	e 11	50 ^a	- 1	i 21	36	- 6	37.8	46.3
Karlsruhe	77.2	343	i 11	53	0	i 21	44	- 1	40.2	58.6
Stuttgart	77.3	342	i 11	53 ^a	- 1	i 21	42	- 4	39.3	44.3
Graz	77.5	337	i 11	51	- 4	i 21	46	- 2	35.3	44.0
Strasbourg	77.7	343	i 11	53 ^a	- 3	i 21	45	- 6	e 37.3	43.3
Kodaikanal	E. 78.1	272	i 11	55	- 3	i 21	42	-13	36.7	50.0
Belgrade	78.2	332	i 11	57 ^a	- 1	i 21	52	- 4	44.0	50.0
Paris	78.4	346	i 12	1 ^a	+ 2	i 21	56	- 2	32.3	44.3
Zagreb	78.5	336	i 11	59 ^a	- 1	e 21	54	- 5	e 42.3	44.4
Laibach	78.7	337	e 12	0	- 1	i 21	55	- 7	35.7	38.5
Zurich	78.7	342	e 12	1 ^a	0	e 21	55	- 7	—	—

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	L. m.	M. m.
Basle	78.8	342	e 12 1	0	e 21 59	- 4	—	—
Colombia	78.9	49	e 12 0	- 2	e 21 56	- 8	e 37.4	—
Chur	79.0	341	e 12 3	0	e 22 0	- 5	—	—
Jersey (St. Louis)	79.0	349	12 1	- 2	—	—	—	—
Colombo	79.1	268	11 59	- 4	21 55	-11	39.2	52.8
Triest	79.2	338	i 12 2a	- 2	i 22 2	- 5	i 35.3	41.1
Neuchatel	79.4	342	e 12 5	0	e 22 6	- 3	—	—
Padova	79.9	338	e 12 9	+ 2	e 22 6	- 9	38.3	53.9
Tacubaya	80.9	71	12 11?	- 2	—	—	—	—
Florence	81.6	338	12 16	0	i 22 30	- 3	—	—
Ksara	82.4	316	i 12 20a	0	22 35	- 6	—	—
Marseilles	83.3	343	i 12 17	- 8	i 22 41	- 9	36.3	—
Bagnères	84.4	346	e 12 41	+11	e 23 4	+ 2	e 39.3	47.3
Merida	N. 85.1	62	12 36	+ 2	—	—	—	—
Riverview	85.4	188	i 12 32a	- 3	i 22 53	[- 9]	e 34.8	42.2
Sydney	85.4	188	e 12 26	- 9	i 23 16	+ 4	46.1	61.0
Barcelona	85.7	345	e 12 37	0	i 22 58	[- 6]	e 38.5	46.8
Tortosa	E. 86.5	345	e 12 50	+ 9	e 23 17	- 5	e 39.3	48.2
Helwan	N. 86.5	345	i 12 39	- 2	i 23 2	[- 8]	41.1	60.6
	87.7	318	i 12 43	- 3	24 9	+35	—	59.3
Toledo	88.1	349	i 12 49	+ 1	i 23 18	-20	41.9	53.1
Adelaide	88.3	198	i 12 47	- 2	i 23 48	+ 8	39.6	46.3
Algiers	90.0	343	i 13 0	+ 3	i 23 29	[- 4]	39.3	48.3
Melbourne	90.0	193	i 12 54	- 3	24 9	+13	37.5	45.8
Arapuni	90.1	168	—	—	24 16	+19	43.3	46.3
Granada	90.7	348	i 13 1	0	i 23 59	- 4	—	—
Almeria	90.9	347	e 13 0	- 2	i 23 46	{+ 4}	e 43.1	49.9
New Plymouth	90.9	170	12 56	- 6	23 55	- 9	43.3	—
Malaga	91.3	349	13 0	- 3	i 23 52	{+ 7}	—	—
San Fernando	91.7	350	e 13 4	- 1	i 23 46	{- 3}	48.3	62.8
Perth	92.1	217	e 13 6	- 1	i 23 26	[-19]	40.7	57.1
Wellington	93.2	171	13 7	- 5	24 36	+10	43.3	49.3
Christchurch (N.Z.)	95.2	172	i 13 18a	- 3	24 48	+ 4	44.5	52.6
San Juan	99.2	45	e 13 41	+ 1	e 24 29	[+ 7]	e 44.3	—
Dakar	114.2	358	e 14 44	- 7	—	—	54.3	65.0
Tananarive	119.3	276	20 10	PP	25 40	[- 8]	61.3	65.3
Huancayo	120.1	71	e 18 36	[-10]	e 36 48	SS	e 56.4	—
La Paz	127.9	67	19 4	[+ 1]	i 25 59	[-14]	62.9	68.1
Santiago	138.9	85	(19 19)	[- 1]	(22 19)	PP	—	—
Rio de Janeiro	146.0	42	i 19 34	[- 2]	—	—	i 47.3	—
La Plata	147.7	75	19 40	[+ 2]	—	—	69.7	—
Cape Town Univ.	148.1	288	19 40	[+ 1]	30 1	{-11}	70.3	80.8

Additional readings :—

Mizusawa iSE = +7m.44s.

Toyooka PPNZ = +5m.25s., PPE = +5m.34s., PPPN = +6m.2s., PPPPE = +6m.32s.

Kobe iE = +5m.33s., iN = +5m.37s., iE = +6m.2s., iN = +6m.17s., iSE = +9m.49s., iSZ = +9m.51s.

Sumoto SZ = +10m.4s.

Keizyo ePP = +7m.9s.

Taikyu i = +6m.22s. = PP - 4s.

Zinsen iE = +6m.52s., iN = +7m.2s., iSEZ = +10m.33s.

Chiufeng iP = +6m.32s., IPPN = +7m.42s. = PPP + 0s., iEN = +11m.44s. = S - 5s.

Zi-ka-wei iE = +7m.11s., +7m.26s., +12m.33s., and +16m.12s.

Nanking iZ = +7m.14s.

Sitka iPP = +8m.32s., iSS = +15m.22s. = SSS - 2s.

Taihoku i = +9m.11s. = PP - 6s.

Hong Kong ? = +8m.41s., +10m.15s., +13m.47s., SS = +18m.45s.

Victoria PP = +10m.18s., SSE? = +18m.53s.; T₀ = 15h.6m.40s.

Seattle e = +9m.9s., PP = +10m.58s.

Ferndale e = +16m.42s.

Phu-Lien PP = +11m.6s.

Ukiah PP = +11m.25s., e = +14m.20s., e = +22m.1s.

San Francisco eE = +14m.14s.

Berkeley ePNZ = +9m.21s., ePPZ = +11m.27s., isZ = +17m.2s., eS_cSZ = +18m.51s., eSSZ = +20m.55s., eN = +22m.27s. = SSS - 2s.

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Bozeman ePP = +12m.4s., ePPP = +13m.10s.
 Tinemaha iPKPPKPEZ = +39m.41s.
 Scoresby Sund eNZ = +10m.16s., PP = +12m.16s., PPP = +13m.40s., PcSE = +15m.10s., ScSE = +19m.52s., SSN = +21m.52s., = +24m.16s. = SSS - 6s.
 Pasadena iSSN = +21m.49s., iPKPPKPZ = +39m.7s., iPKPPKPNZ = +39m.37s.
 Riverside iPKPPKPZ = +39m.3s.
 La Jolla ePKPPKPEN = +39m.36s.
 Calcutta SSN = +22m.44s.
 Denver iP = +10m.25s., iP = +10m.33s., iPcPE = +10m.58s., iE = +11m.54s., ePPEN = +12m.56s., ePPN = +13m.14s., ePPPN = +14m.6s., i = +19m.6s., iSS = +19m.14s., ePSE = +19m.27s., eE = +20m.54s.
 T₀ = 15h.6m.48s.
 Tucson eSS = +23m.38s.
 Agra PPE = +12m.59s., PPPE = +14m.21s., PSN = +19m.45s., SSE = +23m.32s., SSSE = +25m.39s.
 Upsala PPN = +13m.8s., PPPN = +14m.50s., SS = +23m.37s., iE = +27m.39s.
 Ivigtut PcP = +11m.39s., PP = +13m.25s., PPP = +14m.54s., eZ = +18m.54s., ScS = +20m.34s., SS = +23m.34s., SSS = +26m.52s.
 Des Moines e = +12m.13s., e = +13m.41s., e = +21m.9s., eSSS = +27m.23s.
 Bergen e = +13m.15s. = PP + 2s., i = +19m.44s., SS = +23m.16s., e = +27m.12s.
 Apia PcP = +11m.26s., PS = +20m.33s., SS = +24m.25s., ScS = +21m.1s., SSS = +27m.42s. : T₀ = 15h.6m.37s.
 Königsberg eZ = +11m.17s., iEN = +11m.20s., iPCPN = +11m.59s., iPPN = +13m.41s., eZ = +16m.59s., iE = +17m.2s., eN = +18m.49s., iE = +24m.27s. = SS - 2s., iSSSE = +28m.37s.
 Chicago iPcP = +11m.18s., ePPP = +15m.17s., eSS = +25m.16s.
 Copenhagen iZ = +11m.24s., PP = +13m.47s., PPP = +15m.31s., iN = +21m.34s., eE_c = +21m.40s. and +24m.16s., SS = +24m.52s., SSSN = +28m.22s., eZ = +39m.8s.
 Florissant ipPEN = +11m.25s., isPEN = +11m.31s., ipPcPEN = +11m.42s., iPcPN = +11m.50s., iPPEN = +13m.59s., iPPPE = +15m.36s., iEN = +19m.29s., isSEN = +20m.50s. = PS + 4s., isPN = +21m.0s., isSPN = +21m.21s., iN = +21m.38s., iSSE = +25m.29s., iSSSE = +28m.39s.
 Piatigorsk i = +19m.0s.
 St. Louis ipPN = +11m.27s., isPEN = +11m.33s., iPPEN = +13m.59s., iPPPEN = +15m.43s., iEN = +19m.30s., isSEN = +20m.52s., iSSPN = +21m.24s.
 Ann Arbor e = +13m.52s. = PP - 5s., ePP = +14m.16s., ePPP = +15m.58s., eSS = +25m.28s., eSSS? = +29m.4s.
 Medan iP = +11m.28s.
 Ottawa PP = +14m.0s., PPP = +15m.42s., PSE = +21m.2s., SS = +25m.24s., SSS = +28m.19s.
 Toronto iPPN = +14m.2s., PSE = +14m.9s., SSE = +25m.19s.; T₀ = 15h.6m.49s.
 Tiflis iP = +11m.37s., PP = +14m.3s., PPP = +15m.37s., e = +29m.20s.
 Hyderabad PP = +13m.55s., SS = +25m.19s.
 Edinburgh i = +11m.53s., +12m.42s., +13m.48s., +14m.4s. = PP + 7s., +15m.46s., +18m.0s., +18m.40s., +21m.2s., +25m.28s., +30m.40s.
 Vermont iP = +14m.22s., iPPP = +15m.58s., e = +19m.50s., iS = +21m.3s., eSS = +25m.27s., iSSS = +29m.15s., e = +32m.25s.
 Buffalo iP = +13m.56s., iPPP = +15m.56s., i = +19m.40s., i = +29m.40s.
 Czernowitz iE = +11m.50s., PPE = +14m.50s., PSE = +21m.40s., SSE = +26m.16s.
 Batavia iZ = +11m.43s.
 Stonyhurst i = +23m.32s., +25m.6s., and +26m.1s.
 Bombay PPEN = +14m.17s., PPPEN = +16m.6s., PSEN = +21m.42s., SSEN = +26m.16s.
 Göttingen iEZ = +11m.46s., iPPEZ = +14m.25s., iPPN = +14m.29s., iPPP = +16m.9s., iPPPP = +17m.10s., ePSZ = +21m.34s., iPSE = +21m.36s., isSEN = +25m.58s., eE = +28m.40s., iSSSEN = +29m.38s.
 Bidston iP = +14m.29s., iSS = +25m.32s., iSSS = +29m.36s.
 Jena iPEN = +11m.43s., iZ = +11m.47s., i = +14m.29s., iE = +16m.13s., iN = +16m.16s., iZ = +16m.16s., iE = +17m.10s., iNZ = +17m.16s., iZ = +19m.51s., iN = +21m.14s., eZ = +21m.16s., eN = +25m.10s., eEN = +25m.16s., eN = +25m.53s. = SS + 0s., eE = +26m.5s., eN = +29m.16s., eE = +29m.28s., eN = 30m.58s.
 Pennsylvania i = +11m.50s., +13m.2s. and +19m.52s., e = +26m.5s.
 De Bilt iPPZ = +14m.35s., iPPZ = +19m.55s.
 Prague iP = +11m.38s., ePP = +14m.40s., ePPP = +16m.16s., ePPPP = +17m.34s., ePS = +21m.46s., eSS = +25m.52s.
 Hamburg ePPN = +14m.27s., ePPPN = +15m.36s., ePPPPN = +17m.20s., eSSE = +25m.29s., eSSSN = +29m.16s.
 Hof eNW = +14m.32s. = PP + 8s., = +16m.16s., and = +26m.10s. = SS + 8s., eNE = +29m.16s. = SSS + 8s., eNW = +29m.16s.
 Cheb ePPP = +16m.12s., eSS = +26m.11s.
 East Machias i = +11m.59s., e = +12m.43s., ePP = +14m.30s., ePPP = +16m.18s., eSS = +26m.14s., eSSS = +29m.55s.

Continued on next page.

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Oak Ridge $iPPZ = +14m.35s.$, $iPPN = +14m.39s.$, $iPPP = +16m.31s.$, $eE = +17m.35s.$, $iZ = +19m.58s.$, $eZ = +21m.47s.$, $iEN = +21m.49s.$, $iZ = +22m.51s.$ and $+24m.7s.$, $iN = +24m.53s.$, $iZ = +25m.34s.$, $eN = +25m.47s.$, $iN = +26m.29s.$, $eE = +26m.45s.$, $iN = +27m.41s.$, $eE = +30m.9s.$, $iZ = +30m.43s.$, $iE = +34m.47s.$
 Budapest $P_cP = +12m.19s.$, $PP = +15m.8s.$, $PPP = +16m.28s.$, $SS = +26m.24s.$, $SSS = +30m.0s.$
 Kew $iZ = +12m.54s.$, $iPPZ = +14m.44s.$, $iPPN = +14m.54s.$, $iPPPNZ = +16m.42s.$, $iSZ = +21m.32s.$, $iSSEN = +26m.18s.$, $iSSSEN = +29m.52s.$
 Uccle $iP_cPZ = +12m.0s.$, $iPPZ = +14m.41s.$, $iPPPZ = +16m.12s.$, $iPPPPZ = +17m.22s.$, $SPZ = +22m.5s.$, $SSN = +26m.27s.$
 Vienna $PP = +15m.9s.$, $S_cS = +22m.7s.$, $SS = +26m.31s.$, $SSS = +30m.4s.$
 Philadelphia $ePP = +14m.38s.$, $iPP = +15m.2s.$, $iPPP = +16m.23s.$, $eSS = +26m.14s.$, $iSSS = +30m.4s.$
 Bucharest $iPPEN = +14m.39s.$, $PPPEN = +16m.9s.$, $iE = +21m.4s.$, $iSEN = +21m.38s.$ and $+21m.42s.$, $PSEN = +22m.15s.$, $SSE = +26m.36s.$, $SSSE = +29m.36s.$
 Stuttgart $iP_cP = +12m.7s.$, $ePP = +14m.52s.$, $ePPP = +16m.34s.$, $eSS = +26m.43s.$
 Graz $iPP = +15m.9s.$, $iSS = +27m.22s.$
 Strasbourg $iP_cP = +12m.12s.$, $iPP = +14m.57s.$, $PPP = +16m.55s.$, $PPPP = +18m.7s.$, $iPS = +22m.12s.$, $iSS = +26m.46s.$
 Kodaikanal $iPPE = +14m.45s.$, $PPPE = +16m.31s.$, $PS = +22m.23s.$, $iSSE = +26m.51s.$, $iSSSE = +29m.55s.$
 Belgrade $i = +14m.49s.$, $i = +27m.6s.$
 Paris $PP = +15m.5s.$, $SS = +26m.55s.$
 Zagreb $e = +12m.3s.$ and $+12m.20s.$, $eP_cP = +12m.31s.$, $e = +12m.48s.$ and $+12m.58s.$, $ePP = +15m.5s.$, $ePPP = +17m.6s.$, $ePPPPZ = +20m.10s.$, $eS_cS = +22m.31s.$, $ePS = +22m.51s.$, $e = +25m.28s.$, $e = +26m.42s.$, $eSS = +26m.56s.$, $eSSS = +30m.42s.$, $eL_q = +35m.3s.$
 Laibach $iP_cP = +12m.16s.$, $iPP = +15m.11s.$
 Columbia $eSS = +27m.38s.$
 Chur $e = +20m.17s.$
 Trieste $i = +12m.19s.$ and $+15m.1s.$, $iPP = +15m.6s.$, $iPS = +22m.43s.$, $i = +23m.16s.$ and $+26m.51s.$, $iSS = +27m.3s.$, $iSSS = +30m.33s.$
 Neuchatel $e = +20m.19s.$
 Ksara $iP = +12m.33s.$, $iP = +12m.40s.$, $iPP = +15m.32s.$, $sS = +22m.56s.$, $SS = +28m.14s.$
 Marseilles $ePPPN = +17m.3s.$, $eSS = +28m.11s.$
 Bagnères $eSS = +28m.46s.$
 Riverview $iE = +23m.26s.$
 Barcelona $PP = +16m.4s.$, $sS = +28m.49s.$
 Helwan $i = +16m.16s.$ = $PP + 9s.$, $+20m.6s.$, $SKS = +23m.8s.$, $i = +29m.13s.$ = $SS + 6s.$
 Toledo $PP = +16m.7s.$, $PPP = +17m.58s.$, $PS = +24m.5s.$
 Adelaide $i = +13m.1s.$, $i = +14m.43s.$, $iPP? = +16m.16s.$, $iPPPP = +19m.31s.$, $iSKS = +23m.27s.$, $iPS = +24m.41s.$, $i = +29m.4s.$, $iSS = +29m.25s.$, $i = +30m.30s.$, $+32m.51s.$, $+33m.32s.$, $+38m.22s.$
 Algiers $iPP = +16m.40s.$, $iSS = +29m.56s.$, $eSSS = +33m.37s.$
 Melbourne $e = +23m.46s.$, $i = +24m.26s.$ and $+29m.36s.$ = $SS - 4s.$
 Arapuni $iSS? = +29m.46s.$, $L_q = +36m.46s.$
 Almeria $PP = +17m.0s.$
 New Plymouth $i = +13m.17s.$, $SKS = +23m.46s.$
 Malaga $i = +13m.4s.$, $e = +16m.8s.$ and $+16m.58s.$, $SKS = +23m.20s.$, $e = +23m.28s.$, $SS? = +30m.2s.$, $SSS = +33m.32s.$, $e = +47m.16s.$
 San Fernando $eP = +13m.8s.$, $PP = +16m.31s.$, $iSKS = +23m.39s.$
 Perth $P_cP = +13m.16s.$, $PP = +16m.21s.$, $PPP = +18m.21s.$, $S = +21m.21s.$, $i = +22m.6s.$, $sS = +28m.16s.$
 Wellington $i = +13m.23s.$, $i = +13m.32s.$, $i = +13m.46s.$, $iPP = +16m.49s.$, $i = +17m.26s.$, $iPPP? = +18m.44s.$, $SKS = +24m.1s.$, $iPS = +25m.36s.$, $iPPS? = +26m.34s.$, $SS = +31m.7s.$, $iSSS = +34m.25s.$, $L_q = +37m.49s.$
 Christchurch $iPP = +17m.6s.$, $SKKS = +24m.32s.$, $PS = +25m.56s.$, $PPS = +26m.32s.$, $iSS = +31m.8s.$, $SSS = +34m.56s.$
 San Juan $iPP = +17m.34s.$, $ePPP = +21m.17s.$, $eSKKS = +24m.46s.$, $eS = +25m.33s.$, $eSS = +32m.42s.$, $eSSS = +36m.39s.$
 Dakar $iPP = +19m.9s.$, $iPPS = +27m.0s.$, $eSS = +35m.4s.$
 Tananarive $PPP = +22m.55s.$, $PS = +29m.49s.$, $PPS = +31m.4s.$, $SS = +36m.26s.$, $E = +49m.34s.$
 Huancayo $e = +15m.36s.$, $ePP = +20m.20s.$, $eSKS = +23m.1s.$, $ePS = +29m.36s.$, $e = +41m.6s.$, $e = +43m.23s.$, $e = +50m.46s.$
 La Paz $iPKP = +21m.6s.$, $iPP = +21m.30s.$, $iSP = +22m.8s.$, $iNE = +22m.30s.$, $iPPZ = +24m.12s.$, $iSKSZ = +26m.4s.$, $iSKKSN = +28m.3s.$, $iSKKSZ = +28m.10s.$, $iSKSPE = +31m.6s.$, $iZ = +32m.4s.$ and $+35m.31s.$, $iSS = +38m.41s.$, $iSSSE = +44m.10s.$, $L_q = +58.9m.$
 Rio de Janeiro $iPE = +19m.36s.$, $iPPN = +22m.47s.$, $iPPE = +22m.51s.$
 Cape Town Univ. $SKP = +23m.14s.$, $PPP = +26m.17s.$, $SKS = +26m.42s.$, $PSKSE = +33m.19s.$, $PSKSN = +33m.27s.$, $PPS = +36m.2s.$, $SSN = +42m.1s.$, $SSE = +42m.8s.$, $SSSN = +47m.58s.$, $SSSE = +48m.3s.$
 Note: Santiago readings increased by 10m.

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June 30d. 19h. 26m. 7s. Epicentre 33°·5N. 60°·5E.

N.2.

A = +·4106, B = +·7258, C = +·5519; $\delta = -3$;
D = +·870, E = -·492; G = +·272, H = +·480, K = +·8339.

	Δ	Az.	P.	O-C.	S.	O-C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Samarkand	8·1	38	1 56	+ 1	—	—	—	4·9
Tashkent	10·5	39	i 2 24	- 4	i 4 20	- 6	5·9	—
Baku	10·9	312	2 30	- 3	5 16	+40	—	—
Tchimkent	11·4	36	e 2 35	- 5	4 57	+ 9	—	—
Andijan	11·9	49	e 2 48	+ 1	e 4 34	-26	—	—
Erevan	14·4	302	e 3 20	- 1	e 8 0	?	—	—
Frunse	14·5	45	e 3 17	- 5	e 6 7	+ 4	—	—
Tiflis	14·9	308	3 22	- 5	e 6 27	+14	7·5	12·0
Grozny	15·1	315	3 29	- 1	—	—	—	—
Dehra Dun	15·2	97	6 43	S	(6 43)	+23	(8·7)	9·9
Almata	16·1	48	3 45	+ 2	i 7 7	+26	9·1	—
Agra	16·4	109	i 3 50	+ 4	7 7	+19	9·3	—
Piatigorsk	17·1	313	3 22	-33	—	—	—	—
Bombay	18·3	142	i 4 11	+ 1	e 7 50	+19	9·9	14·5
Sotchi	19·0	308	e 5 19	+60	—	—	—	—
Ksara	20·4	276	i 4 35	+ 1	i 8 27	+13	—	—
Semipalatinsk	22·3	35	e 4 53	- 1	—	—	—	—
Theodosia	22·5	309	4 50	- 6	9 0	+ 5	—	—
Hyderabad	22·7	132	4 55	- 3	9 10	+11	11·4	15·9
Yalta	23·1	306	e 4 48	-14	e 9 12	+ 5	14·4	—
Simferopol	23·3	307	5 1	- 3	9 11	+ 1	—	—
Sebastopol	23·6	306	5 5	- 1	9 17	+ 1	—	—
Helwan	25·0	269	e 5 24	+ 4	i 9 53	+12	—	17·8
Calcutta	26·8	108	e 5 56	+20	10 46	+34	13·8	18·0
Moscow	27·3	331	i 5 38	- 3	10 34	+14	15·4	20·2
Kodaikanal	E. 28·0	143	e 9 9	PcP	—	—	—	—
Bucharest	28·6	303	e 4 53	-60	e 10 45	+ 3	—	—
Czernowitz	29·7	311	e 5 15	-47	e 10 6	-53	20·9	—
Colombo	32·1	143	8 28	?	17 8	ScS	—	—
Belgrade	32·7	302	e 6 59k	+30	e 11 58	+12	e 19·9	—
Pulkovo	32·9	333	6 31	0	i 11 45	- 4	17·9	21·2
Budapest	34·0	307	e 6 43	+ 3	—	—	22·4	25·4
Königsberg	35·0	320	i 6 54	+ 5	(e 12 20)	- 1	e 25·0	27·9
Vienna	35·9	308	e 6 55	- 2	—	—	e 20·9	—
Zagreb	35·9	304	e 6 56	- 1	—	—	e 17·2	—
Graz	36·4	305	i 6 59	- 2	e 12 48	+ 6	e 21·9	27·1
Paris	37·2	308	e 8 15	PP	e 18 9	?	24·9	30·9
Prague	37·4	311	e 6 35	-35	e 14 11	?	e 20·9	26·4
Triest	37·4	303	i 7 11a	+ 1	e 12 57	0	—	21·9
Upsala	38·4	327	7 20	+ 2	e 13 8	- 4	e 21·9	28·2
Cheb	38·7	311	e 7 21	0	e 13 25	+ 8	e 24·9	26·9
Padova	38·7	303	7 23	+ 2	—	—	—	—
Jena	39·3	311	e 7 26	0	e 13 29	+ 3	e 22·9	26·9
Copenhagen	39·6	319	7 28k	- 1	13 30	0	—	—
Chur	40·4	306	e 7 36	+ 1	—	—	—	—
Göttingen	40·4	313	i 7 39	+ 4	—	—	—	27·9
Hamburg	40·6	316	e 7 36k	- 1	e 13 53	+ 8	—	26·9
Stuttgart	40·6	308	e 7 35	- 2	e 13 53	+ 8	e 24·9	28·8
Zurich	41·0	306	e 7 44	+ 4	—	—	—	—
Karlsruhe	41·2	309	8 45	+63	—	—	e 28·5	—
Strasbourg	41·6	308	e 7 44	- 1	—	—	e 21·9	—
Neuchatel	42·1	305	e 7 43	- 6	—	—	—	—
De Bilt	43·4	314	e 8 0	0	e 14 35	+ 8	e 27·9	33·4
Uccle	43·8	311	e 8 2	- 1	14 41	+ 8	e 24·9	—
Chiufeng	44·3	65	e 8 10	+ 3	14 48	+ 8	—	27·2

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.
Bergen	44.4	325	e 9 37	PP	14 37	- 4	—	31.9
Kew	46.8	311	e 8 27	0	e 15 15	- 1	e 22.9	31.5
Algiers	47.2	291	i 7 38	-52	e 16 4	+43	e 20.3	—
Oxford	47.3	313	8 27	- 4	i 15 29	+ 6	28.7	32.2
Durham	47.5	316	—	—	15 25	- 1	—	33.9
Stonyhurst	48.0	316	8 38	+ 2	15 38	+ 5	27.9	31.9
Hong Kong	48.2	89	—	—	15 41	+ 5	—	30.3
Bidston	48.4	315	e 8 47	+ 8	e 15 35	- 3	—	30.9
Edinburgh	48.4	318	e 8 41	+ 2	15 45	+ 7	—	36.5
Nanking	48.4	75	e 8 47.	+ 8	15 42	+ 4	e 23.8	31.2
Zi-ka-wei	z. 50.8	75	e 8 53	- 4	—	—	31.9	36.4
Toledo	51.1	297	8 57	- 3	e 16 20	+ 4	e 33.1	—
Granada	51.4	294	e 9 2	0	e 16 29	+ 9	—	—
San Fernando	53.6	294	—	—	e 16 54	+ 4	25.9	—
Vladivostok	55.2	58	e 9 30	0	—	—	29.9	35.7
Scoresby Sund	56.2	337	9 39	+ 2	17 31	+ 6	22.1	—
Manila	57.5	93	(17 53)	S	17 53	+10	30.4	—
Ivigut	69.2	331	14 53	PPP	20 8	- 3	33.9	—
Dakar	72.0	276	i 10 59	-24	i 20 23	-22	e 36.6	41.3
Sitka	88.5	9	—	—	e 23 19	[- 4]	e 45.9	—
Florissant	E. 102.8	337	—	—	e 27 18	?	e 45.6	55.7
Tucson	113.3	352	—	—	e 45 53	?	e 49.7	—
La Paz	131.0	278	e 19 21	[+12]	—	—	64.9	79.9

Additional readings :—

Samarkand e = +2m.22s., e = +2m.39s., i = +4m.36s.
Tchinkent e = +3m.11s., e = +3m.53s.
Andijan e = +4m.8s., e = +5m.57s. = S* + 5s.
Frunse e = -17m.51s., e = +8m.20s.
Tiflis e = +3m.53s.
Dehra Dun, Note : S and L are given as P and S.
Piatigorsk e = +10m.8s.
Bombay PPPEN = +4m.39s., SSEN = +8m.39s.
Ksara IPP = +4m.57s., P_cP = +8m.37s., S_cS = +15m.47s.
Semipalatinsk e = +11m.23s., e = +14m.53s.
Helwan SS = +11m.20s.
Calcutta SSN = +12m.4s.
Bucharest eN = +6m.23s., iE = +10m.13s. and +11m.38s., eEN = +12m.37s., iEN = +13m.48s.
Czernowitz e = +12m.3s., e = +13m.17s., e = +16m.12s.
Belgrade ePPP = +8m.7s.
Königsberg eP_cPE = +8m.0s., eN = +8m.4s., ePS = +15m.50s., iN = +17m.42s., iSSE = +18m.53s., iSSSE = +20m.24s., iN = +20m.27s.; S is given as P_cS.
Zagreb ePP? = +8m.25s., e = +10m.3s.
Graz IPP = +8m.28s.
Prague ePP = +8m.35s.
Triest IPP = +8m.30s., i = +9m.12s., +9m.18s., and +10m.2s., S = +12m.59s., i = +15m.55s. = SSS + 6s.
Upsala PPE = +8m.40s.
Cheb ePP = +8m.53s., e = +18m.27s.
Jena eE = +8m.53s. = PP + 1s.
Copenhagen +8m.59s. = PP + 4s., +9m.29s. = PPP - 10s., PS = +13m.39s., SS = +16m.11s.
Hamburg eN = +16m.49s., = SSS - 10s., iN = +24m.38s.
Stuttgart ePP = +19m.12s., eSS = +16m.54s.
Strasbourg ePP = +9m.26s., eSS = +17m.20s.
De Bilt ePPEZ = +9m.44s.
Uccle PPZ = +9m.57s., SSE = +17m.53s.
Chiufeng eSSN = +17m.41s., S_cSE = +18m.10s.
Bergen e = +11m.27s.
Kew eSSE = +19m.34s.
Bidston eSS = +19m.25s.
Edinburgh e = +19m.11s.
Scoresby Sund 22m.5s.
Manila SEN = +25m.3s.
Dakar iPPP = +15m.29s., iPS = +22m.54s.
Sitka e = +23m.36s.
Florissant eSSE = +33m.46s.
Long waves were also recorded at Keizyo, Phu-Lien, Cape Town, Tortosa, and other American stations,

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June 30d. Readings also at 1h. (Christchurch and Taikyu), 2h. (Mount Wilson and Riverside), 3h. (Ksara and Nagoya), 4h. (near Tiflis), 6h. (near Mizusawa), 9h. (Paris, Andijan, Frunse, and near Almata), 10h. (Alicante, Mount Wilson, and Pasadena), 11h. (Mount Wilson, Riverside, Pasadena, Tinemaha, La Plata, near Santiago, and San Javier, near Kobe, Sumoto, and Nagoya), 15h. (Haiwee, La Jolla, Mount Wilson, Pasadena, Riverside, Tinemaha, Batavia, Tiflis, and near Belgrade), 17h. (near Tananarive), 20h. (Pasadena, Haiwee, Mount Wilson (2), near Berkeley and Fresno, near Triest), 22h. (Frunse, Andijan, Samarkand, Oaxaca, and Tacubaya), 23h. (Tiflis, Fresno, and near Berkeley).

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