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The International Seismological Summary.
1930 July, August, September.

FORMERLY THE BULLETIN OF THE BRITISH ASSOCIATION SEISMOLOGY COMMITTEE.

In this quarter there are 156 epicentres, 59 of these are new, and 97 old epicentres. The quality of the material according to the new notation is as follows :—

N.1=14	R.1= 5	X=45
N.2=12	R.2=19	
N.3=31	R.3=30	

There are six cases of abnormal focal depth :—

	Date. d.	h.	m.	s.	Epicentre °	°	Focal Depth. Below Normal.
July	22	19	25	58	44·2N.	147·4E.	+0·020
Aug.	4	5	4	38	8·0S.	68·0W.	+0·080
	10	13	10	54	34·5N.	137·2E.	+0·050
	29	20	2	36	44·2N.	146·7E.	+0·020
Sept.	11	17	20	10	36·5N.	70·5E.	+0·025
	29	4	52	48	31·6N.	130·6E.	+0·030

UNIVERSITY OBSERVATORY,
OXFORD.

1934 October 17.

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1930 JULY, AUGUST, SEPTEMBER.

July 1d. 1h. 9m. 13s. Epicentre 51°·5N. 133°·3W. N.1.

Probable error of the epicentre ±0°·3.

A = −·427, B = −·453, C = +·783; D = −·728, E = +·686; G = −·537, H = −·570, K = −·623.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Sitka		5·7	349	i 1 15	− 6	i 2 20	− 5	i 2·7	—
Victoria		7·1	111	1 47	+ 6	—	—	3·4	4·0
Berkeley		15·7	146	e 4 13	+35	e 7 7	+36	e 8·7	9·0
Lick		16·4	145	—	—	e 7 19	+31	e 8·1	—
Florissant		32·3	96	i 6 30	+ 5	e 11 38	− 2	e 16·4	16·8
St. Louis	E.	32·5	96	e 6 30	+ 3	i 11 38	− 5	i 14·0	16·9
Ann Arbor		34·4	85	e 7 59	+15	e 12 5	− 7	e 17·0	20·7
Honolulu T.H.		35·7	224	—	—	e 13 10	+38	17·5	—
Toronto	E.	36·3	81	e 7 0	0	e 12 33	− 8	17·3	20·8
Ottawa		37·7	76	e 7 2	−10	e 12 55	− 7	e 18·3	—
Georgetown		40·5	85	e 7 39	+ 3	—	—	21·8	—
Fordham	Z.	41·3	82	e 7 44	+ 1	e 14 2	+ 6	20·2	—
Harvard		42·1	77	e 7 49	0	e 13 56	−12	e 20·3	—
Scoresby Sund		48·6	25	8 36	− 5	15 46	+ 5	23·8	—
Dyce		64·2	28	—	—	e 24 5?	?	e 32·6	39·1
Irkutsk		65·5	325	10 47	+ 5	—	—	35·8	42·8
Stonyhurst		66·9	30	—	—	e 24 6	SS	—	39·8
Helsingfors	E.	67·0	11	e 13 57	?	—	—	e 27·8	—
Pulkovo		67·9	9	10 59	+ 1	19 55	− 1	27·8	41·5
Copenhagen		69·1	20	11 4	− 1	20 17	+ 7	32·8	—
Oxford		69·1	30	11 7	+ 2	20 17	+ 7	e 36·3	42·6
Kew		69·7	30	e 11 8	− 1	—	—	30·8	42·2
Hamburg		70·5	23	e 11 16	+ 2	—	—	e 36·8	42·8
De Bilt		70·7	25	11 15	0	—	—	e 34·8	44·0
Ekaterinburg		71·1	353	i 11 18	+ 1	20 35	+ 1	27·8	46·9
Uccle		71·6	27	11 20	0	e 19 47?	−53	e 36·8	—
Gottingen		72·4	24	e 11 30	+ 5	—	—	e 38·8	47·8
Kucino		72·5	5	11 25	− 1	20 52	+ 1	e 33·9	44·6
Paris		72·8	30	e 11 27	− 1	—	—	30·8	42·8
Strasbourg		74·6	26	i 11 38	0	—	—	35·8	—
Stuttgart		74·8	25	e 11 39	0	e 21 2	−16	e 38·8	46·6
Piacenza		78·4	26	11 47	−12	—	—	—	50·3
Toledo		78·5	38	—	—	e 22 26	+27	e 38·0	—
Tortosa	N.	79·3	34	e 12 7	+ 3	—	—	e 36·8	50·4
Florence		79·9	26	e 12 3	− 4	22 27	+12	—	45·8
Granada		81·0	39	i 12 16	+ 3	i 22 34	+ 8	e 38·8	46·1
Almeria		81·7	38	e 12 13	− 4	e 21 11	−83	42·3	48·8
Rome		82·0	25	e 12 29	+11	—	—	—	—
Rocca di Papa		82·2	25	e 11 17	−62	e 22 47	+ 8	e 50·8	59·8
Tashkent		85·2	345	12 41	+ 7	i 23 8	− 2	e 38·8	60·4
Baku		88·1	358	12 54	+ 6	23 37	− 1	39·8	61·4
La Paz		88·4	120	e 10 26	?	—	—	50·8	—
Phu-Lien		90·8	308	20 47?	?	—	—	—	—

Additional readings :—
Lick eN = +7m.29s.
Florissant iE = +14m.22s.
St. Louis iE = +7m.22s. = PP − 7s.
Ann Arbor eE = +13m.35s., e?N = +13m.59s., eN = +14m.23s., e = +16m.11s.
Honolulu T.H. e = +16m.24s.
Toronto eSN = +12m.27s.; T_o = 1h.8m.58s.
Georgetown ePPZ = +9m.11s., iZ = +20m.26s.

Continued on next page.

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Fordham ePP = +9m.16s., SS = +16m.59s.
Harvard e = +9m.23s. =PP +1s. and +16m.59s. =SS +4s. ; T_0 =1h.9m.18s.
Scoresby Sund +10m.35s. =PP +8s. and +19m.29s.
Irkutsk ePP = +13m.11s., ePS = +19m.35s.
Copenhagen +13m.41s. =PP +10s. and +24m.29s. =SS +0s.
Kew eSSSEN = +28m.35s.
Paris e = +15m.47s.? =PP +8s.
Strasbourg PP = +13m.47s.?
Stuttgart iPZ = +11m.42s., ePPNZ = +14m.22s., ePPPNZ = +15m.57s., ePS = +21m.22s., eSSNZ = +26m.7s., eN = +29m.52s.
Rocca di Papa e? = +10m.11s., i = +12m.26s.
Long waves were also recorded at Hong Kong, Ivigtut, and at other European stations.

July 1d. Readings also at 0h. (La Paz), 4h. (Bombay and La Paz), 8h. (Rocca di Papa and Rome), 13h. (Ksara), 14h. (La Paz and Wellington), 15h. (La Paz), 18h. (Rocca di Papa), 20h. (Copenhagen, Rocca di Papa, Rome, Stuttgart, Trenta, and Zagreb), 22h. (near Taihoku).

July 2d. 8h. 18m. 36s. Epicentre 35°·7N. 134°·8E. (as on 1930 March 22d.). R.3.

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

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Toyooka	0·2	175	i 0 1	− 2	i 0 4	− 1	—	0·1
Kobe	1·1	163	i 0 17	+ 1	0 29	+ 1	—	0·5
Osaka	1·2	154	0 17	0	(0 34)	+ 3	0·6	0·6
Sumoto	1·4	177	0 21	+ 1	0 39	+ 3	—	0·7
Nagoya	1·8	107	0 28	+ 2	0 50	+ 4	—	—
Matuyama	2·5	222	e 0 16?	−20	—	—	i 1·5	1·5

No additional readings.

July 2d. 21h. 3m. 44s. Epicentre 25°·8N. 90°·2E. N.1.

Probable error of epicentre ±0°·25.

A = −·003, B = +·900, C = +·435 ; D = +1·000, E = +·003 ;
G = −·002, H = +·435, K = −·900.

		Δ	Az.	P.	O−C.	S.	Q−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Agra	E.	10·9	280	i 1 56	−37	4 1	−35	5·4	—
	N.	10·9	280	2 1	−32	4 1	−35	5·0	—
Dehra Dun		11·6	295	2 46	+ 3	4 46	− 7	6·1	7·3
Hyderabad		13·7	235	3 13	+ 2	—	—	—	—
Phu-Lien		15·9	105	i 3 40	0	i 6 36	0	8·3	10·6
Bombay		17·4	250	4 12	+13	7 27	+16	9·0	11·0
Kodaikanal		19·7	220	e 5 58	+92	—	—	i 9·2	13·9
Almata		20·5	332	4 38	+ 3	—	—	—	—
Andijan		21·0	320	4 45	+ 5	8 42	+16	—	9·4
Colombo		21·3	209	4 48	+ 5	8 54	+22	22·4	24·3
Hong Kong		22·1	94	4 51	− 1	8 53	+ 5	10·7	12·8
Tashkent		23·2	317	i 5 7	+ 4	—	—	—	23·3
Medan		23·6	158	i 4 56	−10	9 11	− 5	—	—
Samarkand		23·8	311	i 5 13	+ 5	e 9 59	SS	—	13·7
Zi-ka-wei		27·9	72	5 45	− 1	11 0	+30	i 15·0	18·6
Taihoku		28·3	85	5 54	+ 4	10 40	+ 3	15·6	18·9
Irkutsk		28·5	18	5 55	+ 3	—	—	—	—
Isigakizima		30·7	86	6 15	+ 4	11 40	+24	—	—
Manila		30·9	105	6 2	−11	i 11 23	+ 5	—	20 9
Zinsen		32·9	61	6 32	+ 1	12 8	+19	—	—
Nagasaki		35·1	69	6 52	+ 2	e 12 21	− 2	e 16·7	20·3
Hukuoka		35·6	67	6 58	+ 4	12 32	+ 2	16·7	23·5
Kagosima		35·7	71	7 2	+ 7	12 34	+ 2	—	—
Batavia		35·8	152	6 57	+ 1	—	—	19·3	—
Baku		36·4	307	i 7 6	+ 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.
Malabar		37·1	152	e 7 33	+26	13 37	+44	19·3	—
Ekaterinburg		37·5	334	i 7 15	+ 4	i 13 0	+ 1	15·3	—
Vladivostok		38·0	50	7 17	+ 2	13 2	− 4	18·9	—
Koti		38·2	67	e 7 16	− 1	—	—	e 18·3	21·9
Muroto		38·7	68	7 24	+ 3	13 16	− 1	—	—
Toyooka	E.Z.	39·3	64	7 26	0	i 13 27	+ 1	e 22·6	25·6
	N.	39·3	64	7 31	+ 5	i 13 30	+ 4	e 19·4	25·3
Kobe		39·5	65	7 29	+ 1	13 36	+ 7	e 19·3	23·5
Sumoto		39·6	66	7 27	− 2	e 16 12	SS	e 19·5	26·2
Osaka		39·8	65	7 31	+ 1	13 44	+11	21·8	27·0
Siomisaki		40·0	68	7 27	− 5	13 13	−23	—	—
Gihu		40·8	65	7 36	− 3	14 0	+12	—	—
Nagoya		41·0	65	7 43	+ 3	14 50	+59	e 20·0	25·4
Hamamatu		41·6	66	7 54	+ 9	14 7	+ 7	—	—
Kumagaya		42·9	63	7 57	+ 1	14 35	+16	—	—
Yokohama		43·2	64	8 9	+11	15 16	+52	—	—
Kakioka		43·6	63	8 2	0	14 27	− 3	—	—
Tyosi		44·2	64	e 8 26	+20	e 15 44	?	e 23·7	—
Mizusawa	E.	44·4	60	8 10	+ 2	14 44	+ 3	20·3	—
	N.	44·4	60	8 15	+ 7	14 40	− 1	20·6	—
Ootomari		46·2	49	8 32	+10	15 18	+11	21·8	25·0
Ksara	E.	47·3	295	8 32	+ 1	15 26	+ 3	—	—
Theodosia		47·6	311	8 36	+ 3	15 45	+18	30·3	32·3
Kucino		48·0	325	8 37	+ 1	15 31	− 2	e 25·3	32·6
Simferopol		48·4	310	i 8 41	+ 2	e 15 56	+18	—	—
Sebastopol		48·8	310	8 45	+ 3	—	—	—	—
Helwan		51·7	290	9 2	− 2	i 16 24	0	—	37·0
Pulkovo		52·9	329	9 16	+ 3	16 40	− 1	24·3	34·6
Lemberg		55·4	315	9 34	+ 2	17 4	−11	—	37·5
Helsingfors		55·6	329	i 9 31	− 2	i 17 16	− 1	e 24·5	—
Konigsberg		57·6	321	i 9 45	− 2	i 17 45	+ 1	e 31·3	38·2
Belgrade		58·1	310	e 10 20	+29	e 18 16	+25	—	39·4
Upsala		59·2	328	i 9 59	0	18 4	− 1	e 28·3	37·8
Vienna		60·5	315	10 7	− 1	18 31	+ 8	e 31·3	41·3
Tananarive		61·0	229	10 22	+11	18 25	− 4	31·4	33·3
Zagreb		61·1	311	e 10 12	0	e 18 30	0	e 34·6	38·8
Graz		61·2	314	i 10 14	+ 1	i 18 43	+11	26·3	40·3
Lund		61·7	324	10 16	0	18 37	− 1	28·3	—
Trenta		62·0	305	i 10 31	+13	i 19 1	+19	—	40·3
Laibach		62·1	313	e 10 21	+ 2	e 18 52	+ 9	e 35·8	—
Potsdam		62·2	319	i 10 20	0	i 19 3	+18	e 29·3	41·3
Copenhagen		62·2	324	10 20	0	18 40	− 5	29·3	—
Perth		62·7	156	e 10 16	− 7	18 51	0	30·4	—
Messina		62·8	303	10 19	− 5	—	—	—	—
Cheb		62·9	319	e 10 25	0	e 18 52	− 2	e 31·3	40·5
Benevento		63·2	307	e 11 7	(+ 1)	—	—	—	—
Naples	E.	63·2	307	e 10 47	+20	e 19 20	+23	46·3	—
Jena		63·2	319	e 10 25	− 2	e 18 53	− 4	e 30·1	40·8
Catania		63·3	302	i 10 28	+ 1	i 18 59	0	e 42·2	43·9
Casamicciola		63·5	307	10 39	+10	—	—	—	—
Venice		63·6	312	i 10 32	+ 3	i 19 13	+11	—	—
Mineo		63·7	301	10 39	+ 9	—	—	—	—
Treviso		63·8	312	i 10 32	+ 1	19 3	− 2	—	—
Hamburg		63·8	321	i 10 31	0	e 19 8	+ 3	e 35·3	42·0
Innsbruck		64·0	315	e 10 33	+ 1	19 16	+ 9	—	41·8
Padova		64·0	312	e 10 35	+ 3	i 19 12	+ 5	—	—
Gottingen		64·1	319	i 10 31	− 2	e 19 8	− 1	e 29·3	42·3
Rocca di Papa		64·2	308	i 10 33	− 1	e 19 5	− 5	e 34·5	44·1
Rome		64·3	308	e 10 32	− 2	i 18 10	−61	e 37·5	45·0
Florence		64·8	309	i 10 33	− 4	19 16	− 1	35·3	42·8
Stuttgart		65·2	316	i 10 39	− 1	i 19 11	−11	e 31·8	36·7
Feldberg		65·3	318	i 10 41	0	e 19 26	+ 2	e 35·5	41·7
Bergen		65·3	329	10 47	+ 6	e 19 57	+33	e 27·3	40·3
Chur		65·4	315	e 10 40	− 1	—	—	—	—
Livorno		65·5	310	9 16?	?	17 44	?	—	—

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.
Karlsruhe		65·6	316	10 44	+ 2	19 24	− 3	e 34·3	—
Piacenza		65·7	312	e 10 46	+ 3	i 19 28	− 1	34·3	46·5
Zurich		65·9	315	e 10 43	− 2	e 19 30	− 1	—	—
Strasbourg		66·1	317	i 10 45	− 1	i 19 38	+ 4	30·3	42·8
De Bilt		67·0	320	i 10 53	+ 1	19 44	− 1	e 31·3	40·5
Neuchatel		67·0	315	e 10 50	− 2	e 19 38	− 7	—	—
Besançon		67·6	315	10 55	− 1	19 59	+ 7	36·3	—
Uccle		67·7	319	i 10 56	0	19 52	− 1	30·3	43·2
Marseilles		69·1	311	e 11 12	+ 7	e 20 29	+19	31·3	—
Paris		69·4	318	i 11 6	− 1	i 20 16	+ 2	28·3	37·3
Dyce		69·7	326	11 23	+14	20 13	− 5	33·6	41·3
Puy deDôme		70·0	316	i 10 41	−30	—	—	26·3	—
Durham		70·1	323	11 18	+ 7	20 21	− 1	31·3	38·3
Kew		70·4	320	i 11 14	+ 1	i 20 23	− 3	36·3	42·0
Edinburgh		70·7	325	11 22	+ 7	19 26	−64	26·3	47·4
Oxford		70·9	320	11 16	0	i 20 30	− 2	e 31·9	47·6
Stonyhurst		70·9	322	11 26	+10	e 20 34	+ 2	36·3	49·0
Bidston		71·4	321	e 11 16	− 3	i 20 41	+ 3	e 33·3	45·9
Barcelona		71·9	310	11 25	+ 3	21 25	+41	—	—
Bagnères		72·6	312	11 34	+ 8	20 58	+ 6	35·3	—
Algiers		72·7	305	i 11 26	− 1	20 47	− 6	36·3	47·3
Scoresby Sund		72·8	342	11 29	+ 1	20 55	+ 1	—	—
Tortosa		73·2	310	i 11 29	− 1	20 54	− 5	e 32·3	49·6
Alicante		74·8	309	e 11 39	0	i 21 25	+ 7	e 36·5	52·4
Adelaide		76·1	141	11 46?	− 1	i 21 29	− 4	33·8	40·0
Almeria		76·7	308	11 53	+ 3	i 21 30	− 9	42·8	49·6
Toledo		76·8	310	e 11 57	+ 7	21 40	− 1	e 26·2	44·4
Granada		77·5	308	i 11 55	0	i 21 39	− 9	41·3	54·1
Malaga		78·3	308	11 59	0	21 49	− 8	26·8	52·4
Johannesburg		79·3	235	12 16	+12	22 16	+ 8	41·3	—
San Fernando		79·8	308	12 20	+13	22 16	+ 2	40·3	54·8
Melbourne		81·7	140	12 16	− 1	22 32	− 2	37·9	45·9
Riverview		83·1	134	e 12 22	− 2	e 22 38	−10	e 36·3	50·4
Sydney	E.	83·1	134	e 12 22	− 2	i 22 58	+10	53·3	61·3
Ivigtut		86·0	342	12 42	+ 4	e 22 58	−20	38·3	—
Sitka		88·7	24	i 12 51	0	23 16	[− 8]	i 43·6	—
Cape Town		90·5	233	—	—	23 28	[− 8]	46·6	49·5
Dakar		98·9	291	e 18 4	?	e 24 19	[− 1]	28·3	56·3
Honolulu T.H.		99·0	61	—	—	24 41	[+20]	41·3	—
Victoria		100·0	23	13 56	+12	24 7	[−19]	38·1	62·1
Wellington		102·9	130	—	—	24 30	[−10]	45·8	51·3
Ottawa		107·7	350	e 14 19	− 1	24 54	[− 9]	e 45·3	—
Berkeley		109·4	27	e 18 57	PP	e 28 25	PS	e 52·5	—
Harvard		109·7	346	e 14 24	− 6	e 25 16?	[+ 4]	e 45·3	—
Toronto	N.	109·9	353	e 14 37	+ 6	i 28 44	PS	46·3	—
Lick		110·1	27	e 18 45	PP	21 44	PPP	e 61·3	65·7
Ann Arbor		111·7	355	e 19 10	PP	—	—	e 50·6	69·8
Fordham		111·8	349	e 17 32	[−51]	i 29 2	PS	e 50·3	—
Chicago		112·5	359	—	—	25 10	[−14]	43·0	—
Denver	N.	112·9	13	—	—	e 31 6	?	—	61·3
Georgetown	Z.	114·2	350	e 14 51	0	—	—	55·3	—
Charlottesville		115·3	351	—	—	e 27 11	{+27}	e 47·3	—
Florissant		115·4	1	e 14 53	− 4	—	—	e 52·3	64·3
St. Louis		115·6	1	e 14 59	+ 1	e 25 24	[−12]	e 48·9	63·4
Tucson		118·6	20	—	—	26 0	[+14]	—	—
Port au Prince		132·5	338	e 19 49	[+38]	e 23 4	PKS	—	—
Tacubaya		133·9	13	19 5	[− 8]	—	—	68·8	—
Rio de Janeiro	E.	137·6	265	e 19 25	[+ 6]	e 31 54	SKSP	e 56·6	74·3
	N.	137·6	265	e 19 24	[+ 5]	e 31 50	SKSP	e 56·4	78·3
La Plata		151·1	244	19 50	[+ 7]	—	—	62·3	—
Sucre		156·4	282	20 14	{−14}	—	—	—	—
La Paz		157·8	290	i 20 1	[+10]	26 51	?	73·0	91·7

For Notes see next page.

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NOTES TO JULY 2d. 21h. 3m. 44s.

Additional readings :—
Calcutta ($\triangle = 3°.7$), PN = 21h. 0m.26s.
Andijan PPP = +5m.8s.
Hong Kong PP = +5m.6s.
Medan i = +5m.34s. = PP + 3s.
Zi-ka-wei PPE = +6m.43s., iE = +11m.14s., SSN = +13m.1s., SSSN? = +13m.45s., SSSSN? = +14m.21s.
Manila iSEN = +10m.53s.
Nagasaki PPE = +8m.21s., PPPE = +8m.32s., eSSN = +14m.35s.
Hukuoka ePP = +8m.14s., eSS = +15m.4s.
Batavia i = +7m.11s., +7m.26s., +8m.43s., and +8m.59s.
Malabar i = +9m.25s.
Koti eEZ = +7m.28s., P_cPE = +8m.44s., P_cSEN = +13m.3s., eE = +16m.1s., SSE = +18m.4s.
Toyooka ePPN = +7m.38s., ePPE = +7m.40s.
Kobe i = +7m.42s., PPE = +9m.3s.
Ksara PPPE = +10m.40s., PPPPE = +11m.59s.
Lemberg eSE = +17m.22s.
Helsingfors iP_cP = +10m.43s., ePP = +11m.53s., iPPP = +12m.51s., iP_cS = +14m.33s., iPS = +17m.35s., iS_cS = +19m.16s., eSKS = +19m.34s., iSS = +21m.22s., eSSS = +23m.5s.
Konigsberg iE = +10m.0s., iEN = +10m.6s., iSE = +17m.52s., iN = +17m.56s., eE = +18m.10s.
Belgrade e = +10m.29s., i = +11m.48s.
Upsala PPE = +12m.24s., PPPE = +13m.43s., iPSN = +18m.22s.
Vienna PP = +12m.49s., SS = +22m.44s., SSS = +25m.50s.
Tananarive ePP = +11m.16s., PPE +12m.57s., SN = +18m.28s., iPSE = +18m.44s., PPPSE = +19m.37s., PPPSN = +19m.40s., eSS = +20m.36s., SSE = +23m.9s., SSN = +23m.12s., SSSE = +25m.4s., SSSSE = +26m.10s., SSSSN = +26m.15s.
Zagreb i = +10m.30s. and +10m.39s., iNW = +11m.5s. = P_cP + 7s., iNE = +11m.46s., iNW = +12m.26s. = PP + 6s. and +12m.51s., eNE = +13m.34s., = PPP − 7s., iNW = +14m.11s. = PPPP + 3s. +14m.57s. and +16m.32s., iNE = +18m.47s. = PS + 10s. and +19m.31s., eNW = +19m.43s., iNE = +20m.14s. = S_cS + 14s., eNW = +21m.30s., eNE = +21m.37s.
Lund +10m.26s., +10m.31s., +22m.46s. = SS + 11s., e = +18m.51s. = PS + 6s.
Laibach e = +10m.36s. and +13m.6s.
Potsdam iE = +10m.33s., +12m.27s. = PP − 2s. and +13m.6s., eN = +13m.40s. = PPP − 12s., eE = +14m.31s. = PPPP + 9s. and +15m.22s., iE = +16m.11s. +16m.49s., and +17m.0s., iN = +17m.45s., iE = +18m.25s. and +18m.41s., iN = +18m.47s., iE = +18m.54s. = PS + 2s., iPSE = +19m.30s.
Copenhagen +12m.54s. and +22m.34s. = SS − 9s.
Cheb ePP = +12m.53s., eSS = +23m.11s.
Jena eZ = +10m.33s., iP = +10m.36s., ePPN = +12m.51s., ePPEZ = +13m.1s., ePPPN = +14m.40s., ePPPE = +14m.43s., iS = +19m.8s., eN = +19m.16s., eSS = +23m.10s.
Innsbruck i = +11m.55s.
Gottingen ePZ = +10m.40s., iPEZ = +10m.43s., ePPEZ = +13m.9s., ePPPE = +14m.46s., iPSN = +19m.35s., eSSSE = +23m.28s.
Rocca di Papa iS = +19m.18s.
Florence PPP = +13m.18s., PPPP = +14m.36s., PS = +19m.31s., SS = +24m.3s.
Stuttgart iP = +10m.54s. and +11m.7s. = P_cP − 7s., iZ = +12m.27s., iEZ = +12m.59s. = PP + 3s., iPPZ = +13m.21s., iPPPEZ = +14m.28s. and +15m.2s., = PPPP + 1s., iS = +19m.22s., iSSEN = +24m.4s.
Feldberg iE = +10m.44s., +10m.58s., eN = +13m.22s., iN = +31m.51s.
Bergen PP? = +13m.16s.
Piacenza P = +10m.58s.
Strasbourg PP = +13m.30s., PPP = +15m.8s., PPPP = +15m.37s., iPS = +20m.5s.
De Bilt iPPZ = +13m.35s.
Uccle i = +11m.11s. = P_cP − 13s. and +12m.38s., PP = +13m.28s., PPP = +15m.40s.
Marseilles ePS = +21m.29s.
Durham PPPP = +16m.40s., PS = +20m.56s., SS = +25m.16s., SSS = +27m.43s.
Kew i = +11m.24s., PP = +14m.4s., PPP = +15m.34s., SS = +25m.22s., SSS = +28m.34s.
Oxford iPP? = +14m.6s.
Stonyhurst PPPP = +16m.53s.
Bidston i = +11m.34s.
Scoresby Sund +14m.16s. = PP + 14s., +16m.12s., and +17m.6s., iN = +21m.10s. = PS − 5s., SS = +25m.22s., SSS = +29m.16s.
Adelaide iSS = +26m.52s.
Toledo i = +12m.5s. and +12m.12s., iS = +21m.52s. = PS − 16s.
Granada i = +12m.9s., PS = +21m.57s.
Melbourne SS = +27m.58s.

Continued on next page.

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Riverview i = +12m.38s., PPP = +17m.39s.; T_0 = 21h.3m.46s.
Ivigtut i = +12m.57s., e = +22m.58s., eN = +23m.28s.; also without phase +16m.10s. and +29m.22s.
Sitka iPP = +16m.21s., SS = +29m.50s., SSS = +35m.6s.
Honolulu T.H., PP = +18m.4s., SS = +31m.46s.
Wellington PP = +17m.48s.; T_0 = 21h.3m.28s.
Ottawa PP = +18m.58s., PS = +28m.24s., SS = +34m.28s., SSSN = +39m.42s.
Berkeley eE = +24m.33s., eN = +28m.33s., = PS + 11s., eE = +28m.53s. and +37m.25s.
Harvard e = +19m.1s. = PP + 6s., eN = +20m.40s., i = +28m.44s. = PS + 19s., eN = +29m.54s., +34m.16s.? = SS + 1s. and +41m.46s. = SSSS + 15s.
Toronto eN = +19m.3s. = PP + 7s.
Lick e = +19m.4s. = PP + 6s., eE = +19m.14s., e = +19m.18s., eE = +19m.29s., e = +21m.38s., = PPP + 27s., and +28m.46s. = PS + 18s.
Ann Arbor e?N = +18m.40s., eE = +19m.28s., and +27m.16s., eN = +28m.40s. = PS − 5s., eE = +29m.22s., eN = +33m.34s., eE = +37m.28s., iN? = +40m.22s., eE = +41m.16s.
Fordham ePPPP = +25m.46s. = SKS + 25s., eSS = +35m.32s.
Chicago PP = +19m.7s., PPP = +21m.50s., i = +27m.8s., iPS = +28m.48s., SS = +35m.3s.
Georgetown ePKPZ = +18m.38s., iPPZ = +19m.39s., iZ = +29m.29s. = PS + 21s.
Charlottesville ePP = +19m.52s., ePS = +29m.40s.
Florissant eZ = +19m.16s., iPPZ = +20m.9s., iZ = +22m.16s., iE = +27m.39s., iPSN = +29m.38s., iN = +30m.49s., eSSEN = +35m.48s., eE = +39m.46s.
St. Louis ePKPE = +18m.21s., iPPE = +19m.36s., eE = +27m.39s., ePS = +29m.38s., eE = +35m.45s. = SS + 11s.
Tucson PP = +19m.6s., e = +20m.6s. = PP + 7s., PPP = +22m.22s., ePS = +29m.48s., eSS = +36m.56s., eSSS = +41m.40s.
La Paz iPP = +23m.53s., PPS = +37m.9s., iE = +53m.22s.

July 2d. Readings also at: 1h. (near Batavia and Malabar), 2h. (near Lick), 5h. (Tyosi), 14h. (near Nagoya), 20h. (Wellington), 21h. (Catania, Rocca di Papa, Rome, Treviso, and near Matuyama).

July 3d. 0h. 19m. 5s. Epicentre 25°·8N. 90°·2E. (as on 2d.). R.2.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Agra	E.	10·9	280	1 53	−40	3 48	−48	5·1	5·7
	N.	10·9	280	1 52	−41	3 54	−42	5·2	5·7
Dehra Dun		11·6	295	2 45	+ 2	4 35	−18	6·1	6·9
Hyderabad		13·7	235	5 30	S	(5 30)	−14	(7·2)	—
Phu-Lien		15·9	105	e 3 38	− 2	e 6 32	− 4	8·4	—
Bombay		17·4	250	e 4 2	+ 3	7 15	+ 4	—	—
Almata		20·5	332	e 4 33	− 2	8 21	+ 5	—	—
Andijan		21·0	320	4 43	+ 3	8 36	+10	—	—
Hong Kong		22·1	94	4 15	−37	8 51	+ 3	11·4	12·6
Tashkent		23·2	317	i 5 3	0	i 9 7	− 1	e 12·4	14·9
Samarkand		23·8	311	i 5 8	0	—	—	—	—
Irkutsk		28·5	18	e 5 53	+ 1	9 55	−45	16·9	17·4
Baku		36·4	307	e 7 4	+ 3	—	—	—	—
Ekaterinburg		37·5	334	i 7 12	+ 1	i 12 57	− 2	18·9	27·4
Vladivostok		38·0	50	e 8 42	PP	e 12 57	− 9	—	—
Kucino		48·0	325	e 8 32	− 4	15 26	− 7	e 21·0	29·3
Pulkovo		52·9	329	9 13	0	16 37	− 4	23·9	30·3
Helsingfors		55·6	329	i 9 30	− 3	e 17 10	− 7	e 26·5	—
Copenhagen		62·2	324	10 27	+ 7	18 40	− 5	32·9	—
Hamburg		63·8	321	e 10 28	− 3	—	—	35·9	—
Gottingen	Z.	64·1	319	e 10 25	− 8	—	—	—	—
Rocca di Papa		64·2	308	e 10 28	− 6	—	—	e 27·0	39·6
Rome		64·3	308	e 10 58	+24	—	—	—	—
De Bilt		67·0	320	10 49	− 3	—	—	e 36·9	39·4
Kew		70·4	320	e 11 10	− 3	—	—	e 29·9	—
Scoresby Sund		72·8	342	—	—	20 49	− 5	—	—

Additional notes:—
Hyderabad gives S as P and L as S.
Long waves were also recorded at Kodaikanal and Florissant.

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July 3d. 6h. 1m. 21s. Epicentre 25°·8N. 90°·2E. (as at 0h.). X.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	E.	3·7	207	0 46	− 7	(1 36)	+ 1	1·6	—
	N.	3·7	207	0 54	+ 1	(1 41)	+ 6	1·7	—
Andijan		21·0	320	e 4 44	+ 4	—	—	—	—
Tashkent		23·2	317	—	—	e 9 15	+ 7	i 14·8	16·8
Samarkand		23·8	311	e 5 6	− 2	—	—	—	—
Ekaterinburg		37·5	334	e 7 9	− 2	—	—	15·6	—

Additional reading :—
Tashkent i = +14m.20s.
Long waves were also recorded at Irkutsk.

July 3d. Readings also at 0h. (Rocca di Papa and near Tyosi), 2h. (Andijan), 3h. (Baku and Ekaterinburg), 5h. (La Paz, Calcutta, and Kodaikanal), 7h. (Medan), 8h. (near Manila), 9h. (Apia, Christchurch, Wellington, and Riverview), 10h. (near Tacubaya), 11h. (Samarkand, Bombay (2), and near Calcutta), 12h. (Ekaterinburg and Tashkent), 14h. (Kew), 17h. (Riverview, Sydney, Christchurch, Wellington, and Tyosi (2)), 18h. (Rio de Janeiro, Sucre, La Paz, and La Plata), 19h. (Florissant, Ksara, and near Tacubaya), 20h. (La Paz), 21h. (Bombay, Tyosi, St. Louis, and near Florissant), 22h. (Bombay), 23h. (near Tacubaya).

July 4d. 13h. 38m. 22s. Epicentre 33°·7N. 135°·2E. (as on 1930 May 10d.). R.3.

A = −·590, B = +·586, C = +·555.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sumoto	0·7	338	0 11	+ 1	0 21	+ 3	—	0·4
Kobe	1·0	359	e 0 13	− 1	i 0 26	0	—	0·4
Osaka	1·0	12	0 13	− 1	(0 25)	− 1	0·4	0·4
Nagoya	2·0	45	0 30	+ 1	0 55	+ 4	—	—

No additional readings.

July 4d. 16h. 33m. 43s. Epicentre 36°·0N. 141°·0E. (as on 1922 Nov. 8d.). X.

A = −·629, B = +·509, C = +·588 ; D = +·629, E = +·777 ;
G = −·457, H = +·370, K = −·809.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tyosi	0·3	204	0 20	+16	—	—	0·5	—
Tukuba	0·7	282	0 5	− 5	—	—	—	—
Tokyo	1·1	253	0 12	− 4	—	—	—	—
Mizusawa	3·1	1	0 35	− 9	1 8	−12	—	—
Nagoya	3·4	256	0 53	+ 4	1 43	+16	—	—
Osaka	4·7	256	1 10	+ 3	(2 14)	+14	2·2	2·7
Kobe	5·0	256	e 1 18	+ 7	—	—	—	—
Sumoto	5·3	252	e 2 17	S	(e 2 17)	+ 2	—	2·5

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July 4d. 18h. 54m. 44s. (I) } Epicentre 25°·8N. 90°·2E. X.
21h. 34m. 0s. (II) } X.
(as at 3d.).

		Δ	Az	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
I Calcutta	E.	3·7	207	1 1	+ 8	—	—	2·0	—
I	N.	3·7	207	1 3	+10	—	—	2·1	—
II	E.	3·7	207	0 55	+ 2	2 1	+26	—	—
II	N.	3·7	207	0 53	0	2 5	+30	—	—
I Bombay		17·4	250	e 4 0	+ 1	e 7 16	+ 5	8·8	9·3
II		17·4	250	e 4 14	+15	e 7 25	+14	9·1	9·2
I Andijan		21·0	320	e 4 32	− 8	—	—	—	—
II		21·0	320	e 4 35	− 5	—	—	—	—
II Tashkent		23·2	317	—	—	i 9 7	− 1	e 12·5	14·1
II Ekaterinburg		37·5	334	e 7 1	−10	—	—	18·0	—
II Pulkovo		52·9	329	i 9 0?	−13	i 19 0?	(− 4)	—	—

Long waves were also recorded for shock I at Ekaterinburg and Tashkent; for shock II at Irkutsk.

July 4d. 21h. 6m. 48s. Epicentre 44°·6N. 7°·7E. (as on 1927 Dec. 12d.). R.2.

A = +·706, B = +·095, C = +·702; D = +·134, E = −·991;
G = +·696, H = +·094, K = −·712.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Piacenza		1·5	72	—	—	e 0 40	+ 1	(1·0)	2·4
Marseilles		2·1	232	e 0 51	S	(e 0 51)	− 3	—	—
Neuchatel		2·5	347	e 0 25	−11	e 0 47	−17	—	—
Chur		2·6	30	e 0 42	+ 5	i 1 17	S*	—	—
Florence		2·7	108	—	—	e 1 7	− 2	e 2·1	2·9
Zurich		2·9	13	e 0 42	+ 1	—	—	—	—
Besançon		2·9	336	e 0 31	−10	i 0 57	−17	—	—
Padova		3·1	73	e 1 47	S_g	e 2 21	?	—	—
Venice		3·4	75	e 1 47	S_g	—	—	—	—
Ravensburg		3·5	22	e 0 57	+ 7	i 1 47	S_g	—	—
Puy de Dôme		3·5	294	e 0 44	− 6	—	—	—	—
Strasbourg		4·0	1	e 1 1	+ 4	e 1 40	− 2	—	—
Stuttgart		4·3	13	e 1 17	P*	i 2 5	S*	i 2·3	—
Karlsruhe		4·5	6	1 56	S	(1 56)	+ 1	—	—
Paris		5·5	322	e 0 55	−23	—	—	2·2	2·2
Feldberg	N.	5·6	5	e 1 19	− 1	e 2 14	− 9	—	2·7
Zagreb		6·0	75	—	—	e 2 45	+12	e 3·0	—
Uccle		6·6	341	e 2 6	P_g	e 2 56	+ 8	—	—
Jena	E.	6·8	21	—	—	e 3 12	S_g	e 3·5	3·6
Vienna	Z.	7·0	56	e 3 9	S*	—	—	—	—
Gottingen	N.	7·1	12	e 1 48	+ 7	—	—	—	—
Granada		11·3	233	e 3 12?	P*	—	—	—	7·2
Helsingfors	E.	18·7	27	e 6 6	?	—	—	—	—

Additional readings and note:—
Placenza gives S as e and L as S.
Neuchatel eP_g = +28s.
Chur iP_g = +46s.
Ravensburg e = +1m.24s.
Puy de Dôme e = 21h.6m.15s. and 21h.7m.2s.
Strasbourg e = +1m.46s., i = +1m.53s., +2m.1s., and +2m.6s.
Stuttgart iEN = +2m.18s., iNZ = +2m.26s.
Zagreb eNE = +3m.12s.
Long waves were also recorded at Ekaterinburg, Pulkovo, Copenhagen, Hamburg, De Bilt, and Kew.

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July 4d. Readings also at 0h.(Andijan, Baku, Ekaterinburg, Tashkent, Tananarive, near Manila and near Tacubaya (2)), 1h. (De Bilt, Ekaterinburg, Granada, and Scoresby Sund,) 5h. (Catania, Copenhagen, Rocca di Papa, Rome, Stuttgart, Trenta, Zagreb, and De Bilt), 7h. (near Zagreb), 9h. (near Batavia), 14h. (Almeria and near Granada), 15h. (La Paz), 16h. (near Manila), 17h. (near Mizusawa), 18h. (Ekaterinburg and Tashkent), 21h. (Zurich, near Chur, and Neuchatel), 22h. (Copenhagen and near Santiago), 23h. (Florissant, near La Paz, near Mizusawa (2), and near Sumoto).

July 5d. 8h. 57m. 6s. Epicentre 37°·3N. 141°·7E. (as on June 18d.). R.3.

A = − ·624, B = + ·493, C = + ·606.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tyosi	1·7	204	e 0 21	− 3	(e 0 39)	− 5	e 0·6	—
Mizusawa	1·9	346	0 29	+ 1	0 56	+ 7	—	—
Nagoya	4·4	242	1 4	+ 1	1 51	− 2	—	—
Osaka	5·6	243	1 22	+ 2	(2 34)	+11	2·6	3·1
Sumoto	6·3	243	e 2 40	S	(e 2 40)	− 1	—	—
Irkutsk	30·0	312	—	—	e 11 54?	+50	—	—
Ekaterinburg	54·9	319	—	—	(15 54?)	?	15·9	—

Long waves were also recorded at Kobe.

July 5d. 17h. 56m. 46s. Epicentre 5°·7S. 151°·8E. (as on 1930 Jan. 18d.). R.3.

A = − ·877, B = + ·470, C = − ·099 ; D = + ·473, E = + ·881 ;
G = + ·088, H = − ·047, K = − ·995.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview		28·2	181	e 5 53	+ 4	10 38	+ 3	e 13·9	16·1
Sydney		28·2	181	e 7 2	+73	i 11 8	+33	15·5	17·2
Adelaide		31·7	200	e 7 32	+72	e 13 35	?	17·5	21·0
Melbourne		32·7	189	e 5 26	−63	11 43	− 3	17·4?	20·5
Manila	z.	36·7	305	i 6 57	− 7	i 13 29	+42	—	—
Wellington		41·1	153	e 7 34	− 7	14 12	+19	22·2	—
Sumoto		42·0	340	e 7 59	+10	—	—	—	—
Osaka		43·2	341	7 38	−20	(14 26)	+ 2	14·4	15·2
Nagoya		43·2	343	e 8 10	+12	—	—	—	—
Kobe		43·3	340	8 3	+ 4	14 47	+22	—	—
Batavia		44·7	268	e 8 33	+23	—	—	—	—
Hong Kong		46·3	309	8 19	− 4	14 42	−27	—	19·7
Phu-Lien		51·7	304	8 14?	−50	—	—	—	—
Vladivostok		52·0	341	e 8 18?	−48	e 16 1?	−27	e 21·0	—
Medan		53·9	278	e 9 45	+24	i 17 9	+15	—	—
Irkutsk		70·6	332	11 14	0	e 20 13	−15	e 34·2	38·4
Andijan		85·8	312	e 12 49	+12	—	—	—	—
Tashkent		88·2	314	i 12 47	− 2	i 23 16	[− 5]	e 41·2	47·7
Ekaterinburg		95·4	327	e 13 24	+ 2	e 24 16	[+13]	40·2	54·4
Kucino		108·0	327	e 18 40	[+29]	e 25 9	[+ 5]	e 32·5	34·4
Pulkovo		110·3	333	e 18 48	[+29]	25 30	[+15]	41·2	—
Helsingfors		112·5	335	e 17 16	?	e 28 46	PS	e 42·0	—
Scoresby Sund		115·1	358	19 14?	PP	29 14?	PS	57·2	—
Florissant		115·1	49	e 19 34	PP	e 27 19	{+36}	e 56·2	—
St. Louis	R.	115·2	49	e 20 13	PP	e 27 23	{+40}	—	56·2
Copenhagen		120·5	335	20 9	PP	—	—	57·2	—
Hamburg		123·0	333	e 20 14?	PP	—	—	e 63·2	—
Edinburgh		126·0	341	—	—	e 26 14?	[+ 6]	—	—
De Bilt		126·1	335	e 20 59	PP	e 23 41	PPP	e 63·2	75·3
Stuttgart		126·6	330	21 0	PP	—	—	e 61·2	72·2

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.
Uccle	127·4	335	e 21 8	PP	—	—	e 50·2	—
Strasbourg	127·4	330	e 21 14?	PP	—	—	e 49·2	—
Florence	128·6	324	e 21 29	PP	e 33 14?	?	—	73·2
Piacenza	128·7	325	e 21 14	PP	—	—	—	74·2
Kew	128·7	337	e 21 18	PP	—	—	e 59·2	—
Oxford	128·8	338	e 21 18	PP	—	—	e 63·2	74·2
Rocca di Papa	128·8	321	—	—	e 30 2	?	e 38·3	51·7
Paris	129·6	333	e 21 14?	PP	—	—	66·2	81·2
La Paz	134·7	121	e 19 40	[+26]	22 22	PP	23·2	23·8
Granada	141·3	328	e 22 36	PP	—	—	e 70·2	83·2

Additional readings :—
Riverview PP = +6m.38s., i = +10m.54s. ; T_o = 17h.56m.22s.
Adelaide eSS = +16m.17s.
Hong Kong +10m.43s.
Kucino ePS = +28m.17s.
Pulkovo PS = +28m.30s.
Helsingfors eN = +19m.33s. = PP + 18s.
Stuttgart ePPPZ = +23m.41s., ePS = +31m.6s., ePPS = +32m.34s.
Long waves were also recorded at Harvard, Gottingen, Konigsberg, and Lund.

July 5d. 23h. 11m. 52s. Epicentre 37°·6N. 4°·6W. N.1.

Probable error of epicentre ±0°·3.

A = +·790, B = −·064, C = +·610 ; D = −·080, E = −·997 ;
G = +·608, H = −·049, K = −·792.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Granada	0·9	118	i 0 13	0	i 0 25	+ 2	0·5	—
Malaga	0·9	170	i 0 10	− 3	0 25	+ 2	—	—
San Fernando	1·7	228	0 26	+ 2	0 42	− 2	—	1·6
Almeria	1·9	114	0 28	0	i 0 56	+ 7	—	1·3
Toledo	2·3	11	i 0 31	− 2	1 5	+ 6	i 1·6	—
Alicante	3·3	76	0 47	0	1 39	+15	—	2·5
Tortosa	5·1	50	1 10	− 3	2 22	+12	—	2·5
Algiers	6·2	95	e 1 34	+ 6	2 32	− 6	—	3·6
Barcelona	6·5	51	2 22	S	(2 22)	−24	3·4	3·9
Bagnères	6·6	34	i 2 29	S	(i 2 29)	−19	i 3·4	—
Besançon	12·4	36	—	—	e 5 5	− 8	(6·6)	—
Paris	12·4	23	—	—	e 5 8?	− 5	6·1	7·1
Neuchatel	12·7	38	e 2 54	− 4	e 5 8	−12	—	—
Piacenza	13·0	51	—	—	e 5 32	+ 5	(6·8)	9·7
Florence	13·5	58	3 8	− 1	6 3	+24	—	7·1
Rome	13·8	67	e 3 28	+15	—	—	e 7·0	—
Zurich	13·8	41	e 3 9	− 4	—	—	—	—
Rocca di Papa	13·9	67	e 3 11	− 3	—	—	e 6·4	8·7
Chur	14·0	43	e 3 8	− 7	e 7 22	?	—	—
Kew	14·2	11	—	—	e 6 10	+14	—	7·9
Oxford	14·4	8	—	—	i 6 23	+22	e 7·7	9·2
Uccle	14·7	23	—	—	e 6 17	+ 9	e 8·1	—
Karlsruhe	14·8	35	e 6 13	S	(e 6 13)	+ 3	e 8·1	10·0
Stuttgart	15·0	38	e 3 35	+ 7	e 6 34	+19	i 7·7	9·9
Catania	15·6	84	e 4 11	+35	—	—	—	17·1
Feldberg	15·7	32	e 3 34	− 4	e 6 36	+ 5	—	9·7
Bidston	15·9	3	e 6 53	S	(e 6 53)	+17	e 9·1	—
De Bilt	16·0	22	—	—	e 6 53	+15	e 8·6	9·4
Gottingen	17·3	32	e 3 57	− 1	—	—	e 8·6	—
Zagreb	17·4	55	e 3 56	− 3	e 7 21	+10	e 9·0	—
Edinburgh	18·3	3	—	—	e 7 38	+ 7	—	10·9
Hamburg	18·9	28	e 4 20	+ 3	e 7 56	+12	e 9·2	12·6
Copenhagen	21·4	27	—	—	e 8 44	+10	12·1	—
Konigsberg E.	24·3	36	e 4 50	−23	—	—	e 17·1	—
Pulkovo	31·3	34	e 6 26	+ 9	e 11 20	− 4	13·1	20·6
Kucino	33·6	44	—	—	e 13 42	SS	e 16·4	22·7
Ekaterinburg	46·2	44	8 25	+ 3	—	—	22·1	—

For Notes see next page.

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NOTES TO JULY 5d. 23h. 11m. 52s.

Additional readings and notes :—
Granada i = +16s., +18s., and +19s.
Almeria iP_g = +30s., PP = +33s., +38s., and +42s., PPS = +51s., PPPS = +53s., SS = +1m.0s., SSS = +1m.10s.
Toledo P_g = +37s., PP = +39s., i = +53s., PPS = +59s., PS = +1m.4s.
Alicante P_g = +59s., PP = +1m.29s.
Tortosa PN = +1m.33s.
Algiers PPS = +2m.42s., PSS = +3m.19s.
Besançon and Piacenza give S as e and L as S.
Rocca di Papa i = +3m.38s.
Uccle e = +5m.57s. and +6m.55s.
Karlsruhe S = +7m.43s.
Stuttgart eSS = +6m.58s.
Bidston eS? = +8m.38s.
Gottingen eNZ = +9m.44s.
Zagreb e = +7m.40s.
Ekaterinburg e = +18m.39s. = S_cS +19s.
Long waves were also recorded at Baku, Irkutsk, Tashkent, Scoresby Sund, and several European stations.

July 5d. Readings also at 1h. (Bombay (2), Tashkent, and near Calcutta (2)), 2h. (Ekaterinburg (2), Irkutsk, Tashkent, Bombay, near Calcutta, and near Hyderabad), 4h. (Wellington), 5h. (Wellington and near Christchurch), 6h. (near Taihoku), 7h. (Scoresby Sund, near Tyosi (2), and Mizusawa), 8h. (Bombay and near Calcutta), 10h. (Florissant), 11h. (Simferopol, near Sebastopol, Theodosia, and Yalta), 17h. (Wellington), 18h. (Bombay and near Calcutta), 19h. (near Sumoto), 20h. (Feldberg and near Malabar), 21h. (Cheb), 22h. (Florissant and St. Louis).

July 6d. Readings at 0h. (Besançon, Strasbourg, Chur, near Neuchatel, Zurich, and near Manila), 1h. (near Malabar and Mizusawa), 4h. (Samarkand), 7h. (Samarkand), 9h. (Kobe and near Sumoto), 10h. (Hong Kong and near Manila), 11h. (Phu-Lien and near Taihoku (2)), 12h. (near Sumoto), 14h. (Ekaterinburg and Tashkent), 15h. (near Sumoto), 16h. (Ekaterinburg, Phu-Lien, and Tashkent), 17h. (near Kobe, Sumoto, and Toyooka), 20h. (near Sumoto), 21h. (Stonyhurst and Strasbourg), 23h. (near Manila).

July 7d. 13h. 33m. 11s. Epicentre 13°·9N. 91°·2W. (as on 1929 July 30d.). R.2.

A = −·020, B = −·971, C = +·240 ; D = −1·000, E = +·021 ;
G = −·005, H = −·240, K = −·971.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Oaxaca	6·2	302	(1 52)	+24	(3 22)	+44	(3·8)	(5·0)
Vera Cruz	7·1	319	(1 49)	+ 8	(3 29)	+28	—	(5·4)
Merida	7·2	12	(1 22)	−20	(2 54)	−10	(2·9)	(5·1)
Puebla	8·5	309	1 44	−16	3 30?	− 6	3·7	4·1
Tacubaya	9·5	307	(1 49)	−25	(4 12)	+11	(4·7)	(6·6)
Port au Prince N.W.	18·7	73	e 4 13	− 2	e 9 31	?	e 12·2	—
St. Louis	24·8	2	e 5 19	+ 1	i 9 40	+ 3	e 12·1	14·4
Florissant	25·0	2	i 5 17	− 3	i 9 40	− 1	—	13·3
Tucson	25·7	319	5 29	+ 3	9 51	− 2	—	—
Charlottesville	26·6	23	e 4 49	−46	e 8 55	−14	e 10·4	—
Georgetown	28·0	24	e 5 14	−33	e 10 42	+10	i 14·7	—
Chicago	28·1	6	—	—	i 10 29	− 5	e 12·2	—
Ann Arbor	29·2	11	e 5 55	− 3	e 10 49	− 2	e 14·3	16·3
Fordham	30·9	26	e 6 21	+ 8	i 11 17	− 1	i 15·0	—
Toronto N.	31·4	17	e 6 4?	−13	i 11 9?	−17	i 14·1?	—
Harvard	33·4	28	—	—	e 11 5	−52	15·8	—
Ottawa	34·1	20	e 6 49?	+ 8	e 11 49?	−19	—	—
La Paz	38·0	143	i 7 19	+ 4	i 13 7	+ 1	17·3	23·8
Victoria E.	43·5	330	8 13?	+12	14 42	+14	23·0	28·4
Sitka	54·6	333	i 17 14	S	(i 17 14)	+10	i 31·4	—

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.
Rio de Janeiro	E.	59·7	129	—	—	e 18 1	−11	e 28·0	—
Scoresby Sund		70·1	20	—	—	20 13	− 9	32·8	—
Malaga		79·2	54	—	—	e 21 42	−25	—	—
Granada		79·8	54	e 12 41	+34	i 22 33	+19	e 33·3	38·8
Almeria		80·8	54	—	—	e 22 13	−11	36·4	43·9
Paris		82·0	42	e 12 49?	+31	—	—	37·8	41·8
Strasbourg		85·4	41	e 13 49?	+74	e 23 49?	+37	34·8	—
Hamburg		85·4	36	—	—	e 28 49?	SS	e 41·8	51·8
Copenhagen		86·0	34	—	—	23 7	−11	38·8	—
Stuttgart		86·3	40	e 15 43	PP	e 23 19	− 1	e 42·3	45·3
Upsala		87·2	29	—	—	e 23 14	−15	—	—
Cheb		88·5	39	e 18 49?	?	—	—	e 40·8	50·8
Helsingfors	E.	90·3	27	—	—	e 24 2	+ 3	e 36·8	—
Rome		90·7	47	—	—	e 34 16	?	—	—
Rocca di Papa		90·8	47	—	—	e 23 27	[−10]	e 46·3	52·8
Zagreb		91·6	43	—	—	e 36 4	SSSS	e 45·4	—
Pulkovo		92·7	25	e 14 3	+53	24 11	−10	36·8	54·1
Trenta		94·3	48	—	—	e 33 19	SSS	—	—
Kucino		98·3	26	—	—	e 24 41	{+ 1}	e 45·2	51·2
Ekaterinburg		105·5	15	e 18 38	[+35]	—	—	39·8	58·1
Irkutsk		112·5	350	e 18 49?	[+23]	e 29 49?	?	49·8	63·4
Baku		114·8	31	—	—	e 29 35	?	e 50·3	83·7
Tashkent		121·9	16	—	—	e 26 49?	[+53]	e 52·8	69·5

Additional readings and notes :—
Oaxaca readings have been *increased* by 6m.
Vera Cruz readings have been *increased* by 3m.
Merida readings have been *diminished* by 8m.
Tacubaya readings have been *increased* by 1m.
St. Louis ePN = +3m.47s., iN = +8m.4s., iSN = +8m.12s., iN = +8m.20s., and +9m.49s.
Florissant PNZ = +3m.47s., iSN = +8m.18s., eSN = +9m.48s.
Georgetown eN = +5m.57s. and +8m.30s., eZ = +11m.1s., iN = +12m.30s.
Chicago e = +4m.54s. and +8m.50s. = P_cP − 14s., iS = +10m.54s.
Ann Arbor e?N = +6m.55s., ePE = +8m.25s., eN = +9m.13s. = P_cP + 5s., eE = +11m.43s. and +12m.19s. = SS − 6s.
Fordham ePP = +7m.8s.
La Paz iPZ? = +6m.49s.
Sitka eS = +23m.55s.
Rio de Janeiro eN = +18m.9s.
Stuttgart eN = +25m.52s., e = +29m.19s., eN = +40m.29s.
Rome e = +35m.40s.
Rocca di Papa e = +34m.33s., i = +35m.37s.
Kucino e = +26m.23s. = PS + 4s., and +31m.33s. = SS − 5s.
Tashkent e = +32m.49s. ?
Long waves were also recorded at Ivigtut, Vladivostok, Phu-Lien, Hong Kong, Kodaikanal, Lick, Honolulu T.H., La Plata, Wellington, and other European stations.

July 7d. 20h. 42m. 52s. Epicentre 13°·9N. 91°·2W. (as at 13h.). X.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Merida		7·2	12	(1 10)	−32	(2 21)	−43	(2·4)	(3·5)
Tacubaya		9·5	307	2 17	+ 3	4 25	+24	4·8	5·6
St. Louis	N.	24·8	2	1 5 18	0	e 9 45	+ 8	—	—
Florissant		25·0	2	e 5 18	− 2	e 9 42	+ 1	e 13·7	—
Tucson		25·7	319	—	—	e 10 18	+25	e 14·3	—
Ann Arbor		29·2	11	—	—	e 9 38	−73	e 16·5	—

Additional reading and note :—
Merida readings have been *diminished* by 10m.
Tucson ePP = +6m.15s.
Ann Arbor eN = +13m.8s., eE = +13m.38s., eN = +15m.38s.
Long waves were also recorded at Scoresby Sund, Harvard, Kew, De Bilt, and the Russian stations.

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July 7d. Readings also at 0h. (Baku and near Mizusawa), 2h. (Tucson, Florissant, St. Louis, Merida, Oaxaca, Puebla, Vera Cruz, Tacubaya, and La Paz), 5h. (near Sucre and La Paz), 6h. (near Andijan), 9h. (Ekaterinburg, near Almata, Andijan, and Tashkent), 12h. (La Paz, Sucre, Tucson, and La Plata), 13h. (Balboa Heights, Scoresby Sund, Andijan, Matuyama, and near Sumoto), 16h. (near Granada), 19h. (Baku, Ekaterinburg, Kobe, Nagasaki, near Sumoto, and near Ksara), 20h. (Baku, Ekaterinburg (2), Tashkent, Granada, Tucson, and La Paz, Hong Kong, Phu-Lien, Vladivostok, Irkutsk, Zagreb, Rocca di Papa, Copenhagen, Cheb, Stuttgart, Kew, De Bilt, Uccle, Paris, and Strasbourg), 21h. (Bombay and Calcutta), 22h. (La Paz), 23h. (Andijan, Tashkent, Ekaterinburg, Bombay, near Calcutta, near Taihoku, and near Sucre and La Paz).

July 8d. 4h. 32m. 24s. (I) } Epicentre 25°·8N. 90°·2E. R.3.
9h. 43m. 0s. (II) } (as on 4d.). R.3.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
I Calcutta	E.	3·7	207	(1 8)	+15	(1 48)	+13	(2·2)	—
I	N.	3·7	207	(0 56)	+ 3	—	—	(1·9)	—
II	N.	3·7	207	(0 55)	+ 2	—	—	(1·9)	—
I Agra	E.	10·9	280	(2 25)	− 8	(e 4 5)	−31	e 4·1	—
II		10·9	280	2 8	−25	4 31	− 5	5·2	—
I Hyderabad		13·7	235	5 41	S	(5 41)	− 3	7·2	7·4
II		13·7	235	5 35	S	(5 35)	− 9	(6·8)	8·3
II Phu-Lien		15·9	105	3 0?	−40	—	—	—	—
I Bombay		17·4	250	7 10	S	(7 10)	− 1	9·2	9·3
II		17·4	250	7 10	S	(7 10)	− 1	9·2	9·5
I Almata		20·5	332	e 6 36	?	—	—	—	—
II		20·5	332	e 6 30	?	—	—	—	—
I Andijan		21·0	320	e 4 47	+ 7	e 8 35	+ 9	—	—
II		21·0	320	4 44	+ 4	e 8 35	+ 9	—	—
II Hong Kong		22·1	94	8 50	S	(8 50)	+ 2	—	12·4
I Tashkent		23·2	317	4 54	− 9	i 9 6	− 2	12·9	14·6
II		23·2	317	i 5 1	− 2	i 9 18	+10	e 12·5	15·6
I Irkutsk		28·5	18	e 5 57	+ 5	e 10 27	−13	15·1	17·3
II		28·5	18	e 5 47	− 5	10 38	− 2	15·0	17·4
I Ekaterinburg		37·5	334	7 15	+ 4	13 8	+ 9	17·6	—
II		37·5	334	i 7 11	0	—	—	17·0	—
II Vladivostok		38·0	50	e 7 9	− 6	e 13 3	− 3	23·3	—
I Pulkovo		52·9	329	e 9 16	+ 3	16 46	+ 5	22·6	—
II		52·9	329	9 9	− 4	16 37	− 4	25·0	27·9
I Helsingfors		55·6	329	e 9 21	−12	e 18 24	+67	—	—

Additional readings and notes :—
Calcutta readings for Shocks I and II have been *diminished* by 4m.
Agra I P is given as S and S as L, II SE = +4m.3s.
Hyderabad I S = +6m.59s., II S is given as P and L as S.
Bombay I S = +8m.40s., II S = +8m.40s.
Ekaterinburg II e = +7m.18s. and +11m.58s.
Vladivostok II e = +8m.39s.
Long waves were also recorded for Shock I at Phu-Lien and Vladivostok, for Shock II at Baku, Kucino, Copenhagen, Kew, Strasbourg, and Scoresby Sund.

July 8d. 17h. 15m. 42s. Epicentre 28°·7N. 51°·9E. (as on 1930 Feb. 15d.). R.3.

A = +·541, B = +·690, C = +·480 ; D = +·787, E = −·617 ;
G = +·296, H = +·378, K = −·877.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Baku		11·8	353	e 2 44	− 2	e 5 2	+ 4	6·1	8·5
Ksara	E.	14·6	295	e 3 38	+15	7 52	+107	10·8	—
Tashkent		18·9	44	i 4 15	− 2	i 7 50	+ 6	10·6	13·7
Andijan		20·6	49	e 4 36	0	—	—	—	—
Almata		24·8	47	e 7 18?	+120	—	—	—	—
Ekaterinburg		28·8	8	5 51	− 3	10 42	− 3	15·3	19·0
Pulkovo		34·3	341	e 7 53	PP	12 1	−10	14·3	22·4
Irkutsk		45·0	43	e 8 9	− 4	—	—	28·3	28·9

Irkutsk gives also e = +14m.18s.? and +21m.18s. ?
Long waves were also recorded at Copenhagen, Scoresby Sund, De Bilt, Stuttgart, and Granada.

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July 8d. Readings also at 1h. (La Paz), 5h. (Scoresby Sund), 12h. (near Toyooka), 14h. (Zagreb and near La Paz), 15h. (Hong Kong), 18h. (Irkutsk, Tashkent, and Phu-Lien), 19h. (Ekaterinburg and near Sucre and La Paz (2)), 21h. (La Paz (2)), 22h. (Hong Kong and Taihoku).

July 9d. 4h. 35m. 49s. Epicentre 37°·0N. 44°·0E. (as on 1930 May 21d.). R.3.

$A = +\cdot574$, $B = +\cdot555$, $C = +\cdot602$; $D = +\cdot695$, $E = -\cdot719$; $G = +\cdot433$, $H = +\cdot418$, $K = -\cdot799$.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	5·7	51	e 1 25	+ 4	e 2 17	− 8	3·0	—
Ksara	7·8	247	2 43	+59	4 58	+112	5·6	—
Kucino	19·2	350	—	—	e 7 11?	−39	e 11·2	—
Tashkent	20·0	67	4 28	− 2	i 8 8	+ 2	e 12·2	15·7
Andijan	22·3	71	e 5 1	+ 7	—	—	—	—
Zagreb	22·6	302	e 5 11?	+14	—	—	—	—
Ekaterinburg	22·7	24	i 4 58	0	8 53	− 6	11·2	—
Pulkovo	24·4	343	5 18	+ 4	9 34	+ 4	12·2	14·8

Long waves were also recorded at Irkutsk, Scoresby Sund, Copenhagen, De Bilt, Stuttgart.

July 9d. Readings also at 0h. (Hong Kong), 1h. (Sumoto, near Matuyama and Toyooka), 2h. (near Almata, Andijan, and Tashkent), 4h. (near Granada), 6h. (Baku, Ekaterinburg, near Ksara, and Sucre, La Paz (2)), 7h. (near Zagreb), 8h. (La Paz and Sumoto), 12h. (Tashkent, Baku, Ekaterinburg, Sucre, and La Paz), 15h. (Ekaterinburg, Irkutsk, Tashkent, Vladivostok, Phu-Lien, Medan, Bombay, Florissant, and near Mizusawa), 16h. (Ekaterinburg, Irkutsk, Vladivostok, near Merida, and near Tyosi), 18h. (Wellington), 19h. (Andijan), 21h. (Ekaterinburg and Irkutsk).

July 10d. 12h. 34m. 30s. Epicentre 33°·6N. 138°·4E. (as on 1930 May 16d.). R.3.

$A = -\cdot623$, $B = +\cdot553$, $C = +\cdot553$; $D = +\cdot664$, $E = +\cdot748$; $G = -\cdot414$, $H = +\cdot367$, $K = -\cdot833$.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya		2·0	323	0 30	+ 1	0 49	− 2	—	0·9
Osaka		2·7	293	0 31	− 8	(e 0 56)	−13	e 0·9	1·7
Kobe		2·9	292	e 0 42	+ 1	1 12	− 2	—	1·6
Sumoto		3·0	284	0 38	− 5	1 34	+17	—	1·8
Tyosi		3·0	43	e 0 49	+ 6	e 1 18	+ 1	e 1·3	—
Toyooka	E.	3·5	305	i 0 51	+ 1	i 1 29	− 1	—	1·7
	N.	3·5	305	i 0 56	+ 6	i 1 32	+ 2	—	1·8
	Z.	3·5	305	e 0 42	− 8	1 28	− 2	—	1·8
Matuyama		4·7	275	e 0 55	−12	—	—	i 2·8	2·8
Mizusawa		6·0	18	e 1 25	0	2 36	+ 3	—	—

Additional readings:—
Nagoya iP = +16s.
Kobe SZ = +1m.16s., S_gE = +1m.27s.
Toyooka iE = +1m.2s., iEN = +1m.26s.
Long waves were also recorded at Irkutsk, Tashkent, and Ekaterinburg.

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July 10d. 13h. 0m. 44s. Epicentre 41°·3N. 14°·4E. (as given by Laibach). N.3.

A = +·728, B = +·187, C = +·660; D = +·249, E = −·969;
G = +·639, H = +·164, K = −·751.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Venice		4·4	341	i 1 14	+11	i 1 39	−14	2·5	3·3
Padova		4·5	337	e 1 14	+10	e 1 39	−16	—	—
Zagreb		4·7	14	i 1 4	− 3	i 1 21	−39	—	1·4
Treviso		4·7	340	i 1 14	+ 7	1 37	−23	—	1·7
Laibach		4·8	1	i 0 54	−14	(1 50)	−13	—	1·8
Piacenza		5·1	319	—	—	e 2 12	+ 2	(2·5)	—
Graz		5·8	8	i 1 14	− 8	i 1 39	−49	—	1·8
Innsbruck		6·4	342	e 1 52	+21	—	—	—	—
Chur		6·6	329	e 1 42	+ 8	e 2 47	− 1	—	—
Vienna		7·1	11	1 33	− 8	(i 2 31)	−30	i 2·5	2·9
Ravensburg		7·4	334	e 2 6	+21	i 2 59	−10	—	—
Zurich		7·4	328	e 1 52	+ 7	—	—	—	—
Stuttgart		8·3	336	e 2 36	+38	i 3 26	− 5	—	—
Strasbourg		8·7	329	e 2 16?	+13	—	—	e 19·3	—
Jena	E.	9·8	350	e 3 4	+46	—	—	e 3·9	4·0
Feldberg		9·8	337	e 3 4	+46	—	—	—	4·3
Copenhagen		14·5	356	—	—	5 16?	?	—	—

Additional readings and notes:—
Zagreb iPP = +1m.12s. and +1m.17s.
Laibach iPP +1m.7s.
Piacenza gives S as e and L as S.
Stuttgart i = +3m.30s.
Jena eE = +3m.16s.
Long waves were also recorded at Mostar, Rocca di Papa, and Rome.

July 10d. Readings also at 3h. (near Scoresby Sund, Matuyama, near Chur, and near Sucre and La Paz), 4h. (near Koti, near Sumoto, and near Matuyama), 6h. (Matuyama), 7h. (Taihoku), 10h. (near Taihoku), 11h. (Ekaterinburg, Irkutsh, Kobe, near Tyosi, Nagoya, Toyooka, and Osaka), 12h. (Koti), 13h. (Vladivostok), 14h. (Rocca di Papa, Rome, and Zagreb), 15h. (Nagoya, near Mizusawa, and near Tyosi), 17h. (Kew, Uccle, Strasbourg, Stuttgart, near Medan, and near La Paz), 18h. (near Sucre (2) and La Paz (4)), 19h. (La Paz), 20h. (Baku, De Bilt, Uccle, Zagreb, Strasbourg, Stuttgart, Copenhagen, Pulkovo, and Rocca di Papa), 21h. (Bombay and near Tyosi), 22h. (Rocca di Papa and Guadalajara).

July 11d. 7h. 6m. 34s. Epicentre 25°·0N. 93°·5E. N.2.

A = −·055, B = +·905, C = +·423; D = +·998, E = +·061;
G = −·026, H = +·422, K = −·906.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta		5·3	243	1 7	− 8	—	—	1·8	—
Phu-Lien		12·8	107	e 2 52	− 7	—	—	6·4	—
Agra	E.	14·0	282	2 47	−28	5 22	−29	6·7	—
	N.	14·0	282	2 55	−20	5 23	−28	6·6	—
Hyderabad		15·9	245	6 11	S	(6 11)	−25	—	—
Hong Kong		19·1	94	4 15	− 5	7 45	− 3	—	12·2
Bombay		20·1	257	4 29	− 2	7 52	−16	9·4	11·1
Kodaikanal		21·2	229	8 44	S	(8 44)	+14	—	—
Medan		22·0	166	5 14	+23	i 8 33	−13	—	—
Colombo		22·3	218	3 45	−69	(8 40)	−12	8·7	9·2
Almata		22·7	328	e 5 5	+ 7	9 11	+12	—	—
Andijan		23·6	317	e 4 38	−28	—	—	—	—
Tashkent		25·8	315	e 5 27	0	i 8 43	P_cP	e 13·4	16·3
Irkutsk		28·5	14	e 5 54	+ 2	e 10 43	+ 3	15·4	—
Vladivostok		36·2	49	—	—	e 14 13	?	—	—

Continued on next page.

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	Δ °	Az. °	P. m. s.	O−C. s.	S. m. s.	O−C. s.	L. m.	M. m.
Baku	39·3	305	e 7 28	+ 2	e 13 32	+ 6	18·6	—
Ekaterinburg	39·6	333	i 7 33	+ 4	13 34	+ 4	19·4	23·0
Kucino	50·4	324	—	—	16 3	− 3	e 22·6	29·3
Pulkovo	55·2	329	9 32	+ 2	17 10	− 2	25·4	34·7
Helsingfors	57·9	329	—	—	e 17 34	−14	—	—
Copenhagen	64·6	322	—	—	19 12	− 3	—	—
Hamburg	66·4	320	—	—	e 19 26?	−11	—	—
Stuttgart	67·9	316	e 11 11	+13	e 19 50	− 6	e 36·4	—
Scoresby Sund	74·4	342	—	—	21 15	+ 2	—	—

Additional readings :—
Copenhagen +23m.32s. =SS +12s.
Stuttgart eSSEN = +24m.11s.
Long waves were also recorded at Kew, De Bilt, Paris, and Strasbourg.

July 11d. Readings also at 1h. (near Sumoto), 4h. (Tyosi and near Mizusawa), 5h. (near Taihoku (2)), 11h. (Rocca di Papa, Trenta, near Sumoto, and near Reykjavik), 12h. (La Paz and near Lick), 13h. (Samarkand, near Hokoto, and near Sucre and La Paz), 15h. (Kew), 17h. (Baku, Ekaterinburg, Bombay, Ksara, and Andijan), 20h. (Samarkand and near Sucre and La Paz), 21h. (Tyosi).

July 12d. Readings at 0h. (near Denver), 1h. (Perth), 2h. (Samarkand), 6h. (Andijan and Bombay), 8h. (Samarkand), 10h. (Bombay), 11h. (Baku, Ekaterinburg, Irkutsk, and Bombay), 12h. (Adelaide, Andijan, and near Calcutta), 13h. (La Paz and Bombay), 14h. (Adelaide, near Batavia, and Malabar), 15h. (Bombay, Hong Kong, Phu-Lien, Kobe, Sumoto, and near Samarkand (2)), 16h. (3) and 17h. (near Samarkand), 18h. (near Andijan (2)), 22h. (near Sucre and La Paz), 23h. (Samarkand, Bombay, aad near Calcutta).

July 13d. 0h. 59m. 24s. Epicentre 47°·5N. 112°·0W. N.2.

A = −·253, B = −·626, C = +·737 ; D = −·927, E = +·375 ;
G = −·276, H = −·684, K = −·676.

		Δ °	Az. °	P. m. s.	O−C. s.	S. m. s.	O−C. s.	L. m.	M. m.
Victoria		7·6	282	2 6	+18	—	—	3·7	5·3
Berkeley		12·2	222	e 3 6	+15	e 5 34	+26	i 7·0	—
Lick		12·4	218	e 2 53	− 1	e 5 7	− 6	i 6·1	—
Tucson		15·2	176	3 23	− 8	6 19	− 1	7·5	—
Sitka		17·0	313	e 3 25	−29	i 7 12	+10	i 8·8	—
Florissant		18·0	111	i 4 3	− 4	e 7 8	−17	e 7·4	8·9
St. Louis	N.	18·1	111	e 4 4	− 4	i 7 19	− 8	i 9·2	9·9
Chicago		18·2	99	—	—	e 7 25	− 4	i 9·1	—
Ann Arbor		20·6	94	e 4 42	+ 6	e 8 24	+ 6	i 10·9	11·2
Toronto	E.	23·0	87	e 5 2	+ 1	9 15	+10	11·7	13·7
Ottawa		24·8	81	—	—	9 48	+11	14·7	—
Georgetown		26·6	96	e 10 6	S	(e 10 6)	− 3	15·1	—
Fordham		27·8	89	e 10 54	S	(e 10 54)	+26	i 14·6	—
Harvard		29·0	85	—	—	e 11 2	+14	e 14·6	—
Scoresby Sund		46·0	28	—	—	15 36?	+32	22·6	—

Additional readings :—
Berkeley i = +5m.58s.
Lick eE = +2m.55s., e = +2m.57s. and +3m.6s., eSE = +6m.3s.
Tucson S? = +6m.9s., eL(S) = +7m.2s.
Florissant iPEZ = +4m.7s.
St. Louis eN = +7m.0s.
Chicago e? = +7m.11s.
Ann Arbor e?N = +7m.54s., eE = +8m.36s., eN = +9m.48s., e = +10m.24s., i = +10m.48s.
Ottawa PPPE = +5m.24s., SSS = +12m.36s.
Georgetown PZ = +10m.14s., iN = +13m.11s., iSZ = +13m.43s., iSN = +13m.46s.
Fordham iS = +13m.40s., iSS = +13m.56s.
Scoresby Sund = +19m.12s.
Long waves were also recorded at Charlottesville and the European stations.

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July 13d. 1h. 12m. 18s. Epicentre 58°·0S. 67°·5W. N.3.

A = +·203, B = −·490, C = −·848 ; D = −·924, E = −·383 ;
G = −·325, H = +·783, K = −·530.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata		24·0	20	5 0	−10	9 4	−19	10·8	—
Santiago		24·6	354	4 50	−26	9 6	−28	12·3	—
Sucre		39·0	3	7 12	−12	—	—	—	—
Rio de Janeiro		39·2	35	e 7 21	− 4	i 13 12	−12	e 18·2	—
La Paz		41·5	359	e 7 45	+ 1	i 13 56	− 3	19·3	25·8
Cape Town		59·7	107	e 18 12	S	(e 18 12)	0	(26·3)	—
Wellington		68·0	226	e 14 42?	PPP	e 19 42?	−15	e 31·7	—
Melbourne		80·5	205	—	—	22 22	+ 1	e 35·4	46·3
Riverview		82·7	211	—	—	e 22 42	− 2	e 39·2	43·7
Adelaide		84·6	201	—	—	e 30 55	?	44·4?	55·6
Georgetown		97·2	354	e 23 36	SKS	(e 23 36)	[−36]	40·7	—
St. Louis	N.	98·5	340	—	—	e 23 58	[−20]	—	52·0
Ann Arbor	N.	101·2	347	—	—	e 27 12	PS	e 53·9	—
Malaga		108·3	47	e 19 22	PP	e 29 16	?	—	—
Granada		109·0	48	i 18 46	PP	e 29 19	?	e 49·7	54·5
Almeria		109·3	49	e 18 50	PP	29 10	?	53·1	62·2
Toledo		111·2	45	e 19 2	PP	e 28 31	PS	—	—
Florence		120·8	54	e 21 12	?	28 42	?	—	62·7
Piacenza		121·1	52	e 16 14	?	—	—	—	80·8
Paris		121·2	44	e 19 42?	PP	—	—	61·7	81·7
Strasbourg		123·1	49	i 20 19	PP	i 29 37	?	63·7	—
Uccle		123·6	44	e 19 42?	?	—	—	e 50·7	—
Stuttgart		123·8	49	19 42?	?	e 25 57	[− 5]	e 57·7	80·4
Copenhagen		130·4	45	22 32	PKS	—	—	59·7	—
Bombay		131·4	125	e 21 42	PP	—	—	e 61·7	—
Baku		137·3	85	e 19 20	[+ 2]	e 22 47	PKS	—	77·4
Helsingfors		138·3	47	e 20 17	?	e 22 47	PKS	e 52·5	—
Kucino		141·3	60	e 21 42?	?	—	—	e 66·7	74·9
Tashkent		148·2	100	i 19 37	[− 2]	—	—	e 62·7	84·1
Andijan		149·4	105	e 19 38	[− 3]	—	—	—	—
Ekaterinburg		152·7	70	i 19 51	[+ 6]	—	—	66·7	86·3
Irkutsk		172·6	137	e 19 58	[− 7]	—	—	84·7	97·3

Additional readings and note :—
Rio de Janeiro PPN = +8m.37s., PPE = +8m.42s., SSE = +15m.54s.
La Paz SSN = +17m.11s.
Cape Town gives S as P and L as S.
Adelaide e = +38m.56s.
Georgetown iPPN = +26m.3s. =PS −12s., eSN = +31m.30s. =SS +7s.
Ann Arbor e?N = +33m.18s.
Malaga eSS = +36m.22s.
Granada i = +21m.10s. =PPP +6s.
Stuttgart eEN = +27m.37s. =SKKS −5s., e = +28m.42s.?
Baku e = +34m.50s.
Helsingfors e = +29m.40s.
Tashkent i = +19m.41s. and +19m.43s.
Irkutsk e = +25m.19s. =PP +0s., +31m.8s., +35m.42s.? =SKSP −14s. and +45m.42s.?
Long waves were also recorded at Hyderabad, Hong Kong, Chicago, Florissant, Tucson, Scoresby Sund, and many other European stations.

July 13d. 14h. 0m. 12s. Epicentre 25°·8N. 90°·2E. (as on 8d.). R.2.

A = −·003, B = +·900, C = +·435 ; D = +1·000, E = +·003 ;
G = −·002, H = +·435, K = −·900.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	E.	3·7	207	0 44	− 9	1 30	− 5	1·9	—
	N.	3·7	207	1 11	+18	2 1	+26	2·3	—
Agra	E.	10·9	280	e 1 35	−58	4 20	−16	e 5·8	—
	N.	10·9	280	e 1 40	−53	4 25	−11	5·6	—
Dehra Dun		11·6	295	(2 58)	+15	(4 48)	− 5	(6·3)	(6·8)

Continued on next page.

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	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Bombay	17·4	250	7 2	S	(7 2)	− 9	9·1	9·6
Almata	20·5	332	e 4 35	0	—	—	—	—
Andijan	21·0	320	4 40	0	8 33	+ 7	—	—
Hong Kong	22·1	94	8 53	S	(8 53)	+ 5	(11·8)	14·1
Tashkent	23·2	317	i 5 3	0	i 9 11	+ 3	e 11·8	14·0
Samarkand	23·8	311	e 5 9	+ 1	—	—	—	—
Irkutsk	28·5	18	e 5 48?	− 4	e 10 55	+15	15·8	17·4
Baku	36·4	307	i 7 2	+ 1	12 45	+ 3	22·8	—
Ekaterinburg	37·5	334	i 7 14	+ 3	12 50	− 9	17·8	24·2
Theodosia	47·6	311	e 8 33	0	—	—	—	—
Kucino	48·0	325	e 9 18	+42	i 16 36	+63	e 26·0	32·1
Simferopol	48·4	310	e 8 38	− 1	—	—	—	—
Yalta	48·4	310	e 8 39	0	—	—	—	—
Pulkovo	52·9	329	9 12	− 1	16 38	− 3	20·8	31·8
Copenhagen	62·2	324	—	—	19 0	+15	35·8	—
Chur	65·4	315	i 10 47	+ 6	—	—	—	—
Neuchatel	67·0	315	i 10 49	− 3	—	—	—	—
Scoresby Sund	72·8	342	—	—	21 6	+12	41·8	—

Additional readings and notes :—
Dehra Dun readings have been *increased* by 2m.
Bombay S = +8m.35s.
Hong Kong gives S as P and L as S.
Kucino e = +9m.36s.
Long waves were also recorded at Hyderabad, Kodaikanal, and other European stations.

July 13h. 19h. 27m. 22s. Epicentre 38°·1N. 98°·4E. N.1.

Probable error of epicentre ±0°·25.

A = −·115, B = +·778, C = +·617 ; D = +·989, E = +·146 ;
G = −·090, H = +·610, K = −·787.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk		14·7	14	3 25	0	6 9	+ 1	7·7	—
Almata		17·0	294	3 54	0	e 7 2	0	—	—
Calcutta	E.	17·8	212	4 4	0	7 10	−10	9·0	9·8
	N.	17·8	212	4 8	+ 4	7 12	− 8	8·4	—
Dehra Dun		18·5	251	2 18	−115	5 28	−128	8·0	9·6
Phu-Lien		18·7	155	4 14	− 1	7 49	+ 9	10·2	10·9
Zi-ka-wei		20·1	103	4 30	− 1	8 20	+12	10·9	11·7
Agra	E.	20·2	243	i 4 16	−16	i 8 16	+ 6	i 11·4	12·9
	N.	20·2	243	i 4 19	−13	i 8 10	0	i 11·3	12·6
Andijan		20·2	286	4 34	+ 2	9 12	+62	11·1	—
Hong Kong		20·8	135	4 38	0	8 28	+ 6	e 10·6	11·6
Zinsen		22·2	83	4 57	+ 4	9 1	+11	—	—
Keizo		22·5	82	5 3	+ 7	9 0	+ 5	—	—
Tashkent		22·5	287	i 4 55	− 1	i 9 3	+ 8	11·5	12·6
Taihoku	Z.	23·5	117	—	—	e 9 42	+28	13·9	—
Samarkand		24·4	283	5 17	+ 3	e 9 43	+13	—	14·2
Vladivostok		25·8	68	i 5 33	+ 6	i 10 2	+ 7	13·4	18·6
Nagasaki		26·0	92	—	—	e 10 12	+14	e 13·7	15·6
Hukuoka		26·2	90	e 2 58	?	—	—	14·0	14·9
Hyderabad		27·0	226	5 43	+ 5	10 23	+ 8	13·9	17·0
Hamada		27·1	86	5 43	+ 4	11 21	+64	—	—
Toyooka	N.	29·1	84	e 6 17	+20	—	—	16·2	—
Bombay		29·4	236	5 59	− 1	11 2	+ 7	15·5	17·4
Sumoto		29·5	86	6 5	+ 4	—	—	e 16·5	16·9
Kobe		29·6	85	6 3	+ 2	—	—	e 16·4	17·3
Osaka		29·9	85	6 12	+ 8	11 13	+70	16·9	17·8
Nagoya		30·8	83	6 17	+ 5	16 42	(− 7)	—	—
Manila		30·8	134	i 6 28	+16	i 11 21	+ 4	—	19·5
Ekaterinburg		31·0	320	i 6 19	+ 5	11 22	+ 2	14·6	22·2
Kumagaga		32·4	80	7 43	+77	13 43	+122	—	—

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		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mizusawa	E.	33·1	75	6 32	− 1	12 14	+22	—	—
Kodaikanal		33·7	221	13 56	SS	—	—	18·4	18·9
Medan		34·5	180	—	—	i 12 3	−11	(e 19·4)	—
Colombo		35·4	215	12 27	S	(12 27)	0	20·4	24·8
Baku		37·2	290	i 7 10	+ 2	i 13 4	+10	18·6	23·5
Kucino		43·2	315	8 1	+ 3	14 26	+ 2	e 22·3	27·8
Batavia		45·0	169	i 9 10	+57	i 16 2	?	22·6	24·6
Theodosia		46·4	301	e 8 25	+ 1	15 17	+ 7	22·6	—
Pulkovo		47·1	321	8 32	+ 3	15 22	+ 2	22·6	27·6
Simferopol		47·3	300	8 32	+ 1	15 28	+ 5	—	—
Yalta		47·4	300	e 8 33	+ 1	15 30	+ 6	e 26·7	—
Sebastopol		47·8	300	—	—	e 15 28	− 2	—	—
Helsingfors		49·7	321	e 8 41	− 8	e 15 47	−10	e 24·2	—
Ksara		49·8	285	8 49	− 1	16 1	+ 3	29·3	—
Lemberg		52·5	309	—	—	e 16 44	+ 9	—	31·7
Konigsberg		53·1	316	e 9 16	+ 1	e 16 45	+ 2	e 28·6	—
Upsala		53·4	322	e 9 16	− 1	i 16 48	+ 1	e 28·6	30·3
Budapest		56·4	308	8 10	−89	16 7	−81	27·6	—
Lund		56·8	319	9 43	+ 1	17 37	+ 3	—	—
Copenhagen		57·2	319	i 9 46	+ 1	17 46	+ 7	26·6	—
Vienna		57·8	310	i 9 49	0	17 54	+ 7	e 28·6	32·2
Potsdam		58·1	315	e 9 54	+ 3	e 18 14?	+23	i 30·1	31·8
Graz		58·8	309	e 9 53	− 3	e 17 31	−29	i 32·0	39·7
Bergen		58·9	325	—	—	e 17 42	−19	30·6	33·6
Zagreb		59·0	307	e 9 48	− 9	e 18 8	+ 5	e 31·0	32·2
Cheb		59·4	312	e 10 3	+ 3	e 18 15	+ 7	e 31·6	32·6
Hamburg		59·4	318	e 10 1	+ 1	e 18 14	+ 6	e 29·7	35·3
Jena		59·6	314	e 10 2	0	e 18 14	+ 3	e 27·6	33·1
Gottingen		60·2	315	e 10 5	− 1	e 18 41	+22	e 32·4	34·6
Innsbruck		61·2	310	e 10 20	+ 7	—	—	31·6	—
Treviso		61·5	308	e 10 16	+ 1	i 18 38	+ 2	37·6	—
Feldberg	N.	61·6	315	i 10 17	+ 1	i 18 44	+ 7	—	52·7
Stuttgart		61·9	313	i 10 16	− 2	i 18 43	+ 2	i 32·6	34·3
Karlsruhe		62·2	313	e 10 17	− 3	19 12	+27	e 33·6	34·2
Chur		62·6	310	e 10 21	− 1	e 18 41	− 9	—	—
De Bilt		62·6	318	10 23	+ 1	18 55	+ 5	e 30·6	34·9
Strasbourg		62·8	313	e 10 21	− 3	18 53	+ 1	28·6	38·9
Zurich		62·9	310	i 10 23	− 2	e 18 55	+ 1	—	—
Florence		62·9	306	10 33	+ 8	18 53	− 1	—	36·0
Rocca di Papa		62·9	303	i 10 22	− 3	i 18 54	0	e 33·7	38·6
Rome		63·0	303	e 10 23	− 2	—	—	—	—
Catania		63·3	299	e 10 26	− 1	e 19 27	+28	e 43·5	—
Piacenza		63·3	309	10 30	+ 3	19 26	+27	25·6	34·8
Scoresby Sund		63·3	341	10 27	0	19 0	+ 1	32·6	—
Uccle		63·7	317	e 10 29	− 1	i 19 7	+ 3	30·6	35·3
Dyce		63·8	324	10 32	+ 1	i 19 8	+ 3	31·9	40·5
Neuchatel		64·1	311	i 10 31	− 2	—	—	—	—
Besançon		64·5	311	e 10 37	+ 2	—	—	33·6	—
Durham		64·8	321	9 54	−43	19 19	+ 2	35·0	36·0
Edinburgh		65·0	323	e 10 41	+ 2	19 28	+ 8	—	37·4
Paris		65·7	315	e 10 42	− 1	e 19 34	+ 5	35·6	39·6
Stonyhurst		65·7	320	10 40	− 3	19 32	+ 3	34·6	41·7
Kew		65·9	319	e 10 43	− 2	19 31	0	30·6	42·0
Oxford		66·3	319	10 47	0	e 19 34	− 2	e 34·5	46·9
Puy de Dôme		67·0	312	e 10 38?	−14	—	—	34·6	—
Barcelona		69·8	308	—	—	e 20 16	− 3	e 26·8	40·4
Tortosa	N.	71·2	309	11 2	−16	20 39	+ 4	34·6	41·3
Algiers		71·9	303	11 14	− 8	20 43	− 1	37·6	45·6
Alicante		73·3	307	—	—	e 21 27	PS	e 42·6	—
Sitka		74·6	27	e 9 29	−129	—	—	e 26·4	—
Toledo		74·6	310	11 37	− 1	e 21 15	0	e 34·2	45·6
Almeria		75·3	307	e 11 37	− 5	21 20	− 4	39·0	44·4

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		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Granada		75·9	308	i 11 5	−40	i 20 57	−33	39·0	48·1
Malaga		76·7	308	e 11 55	+ 5	e 22 1	PS	e 24·6	43·6
San Fernando		78·0	309	21 15	S	(21 15)	−39	41·9	50·4
Adelaide		82·0	147	—	—	e 22 27	−10	37·1?	49·6
Victoria	E.	85·9	26	23 20	S	(23 20)	+ 3	39·5	46·8
Toronto	N.	98·2	358	—	—	e 24 8	[− 9]	46·5	—
Florissant		102·6	7	—	—	e 25 42	− 7	e 52·1	—
St. Louis	N.	102·9	7	—	—	e 25 47	− 5	—	56·9
La Paz		155·4	328	e 20 41	[+53]	—	—	80·6	91·6

Additional readings and note :—
Toyooka ePE = +6m.26s.
Medan i = +19m.56s. ; S is given as i and L as S.
Colombo S = +15m.12s.
Helsingfors eP_cPE = +10m.6s., iPPEZ = +10m.40s., ePPPEN = +11m.22s., eP_cSE = +13m.53s., PSEN = +15m.55s., iS_cSEN = +18m.23s., iSSN = +19m.21s., iSSSE = +20m.40s., eN = +23m.10s.
Ksara PPN = +10m.40s. ; T_o = 19h.27m.2s.
Konigsberg ePSE = +17m.13s., eSSE = +20m.35s., eEN = +20m.56s.
Upsala SSE = +21m.5s.
Copenhagen +12m.56s. = PPP − 3s., and +21m.32s. = SS + 9s.
Vienna PP = +12m.1s., PPP = +13m.8s., P_cS = +14m.11s.
Potsdam eEN = +13m.24s., eE = +19m.4s., +24m.44s. and +27m.54s.
Bergen i = +18m.25s.
Zagreb e = +9m.59s., i = +10m.10s., e = +10m.23s., ePPNW = +12m.4s., ePPNE = +12m.14s., ePPP = +13m.21s., ePPPPNE = +14m.35s., eNW = +15m.0s., eNE = +15m.13s., ePS = +18m.32s., eSSSNW = +24m.26s., eSSSSNE = +27m.26s.
Jena eE = +18m.16s. and +18m.24s., eN = +18m.30s.
Gottingen ePPPEZ = +13m.38s., eSSE = +22m.26s.
Feldberg eN = +14m.5s. = PPPP − 9s.
Stuttgart iZ = +11m.13s., iPP = +12m.35s. and +12m.53s., iPPP = +14m.5s., iEN = +19m.54s. = S_cS − 11s., iSS = +22m.48s. and +23m.23s., iSSSZ = +25m.33s.
Strasbourg PP = +13m.15s., PPP = +14m.12s., SS = +23m.5s., SSS = +25m.22s.
Rocca di Papa eS = +18m.42s.
Rome e = +12m.50s. = PP + 13s.
Scoresby Sund +23m.20s. = SS + 20s. and +26m.8s. = SSSS − 9s.
Uccle PPP = +14m.28s., SS = +23m.14s.
Durham +26m.45s., +27m.1s., and +33m.4s.
Kew iP = +10m.45s., PP = +14m.44s. = PPP + 13s., SS = +23m.56s., SSS = +26m.32s.
Oxford e = +14m.47s. = PPP + 12s., i = +26m.49s.
Sitka ePP = +12m.53s., PS = +21m.20s.
San Fernando SE = +30m.25s.
Victoria PN = +23m.8s. = SKS + 2s., SEN = +28m.58s. = SS + 18s.
Toronto eN = +38m.44s.
Long waves were also recorded at Ootomari, Koti, Tyosi, Tananarive, Wellington, Bagnères, Belgrade, Rio de Janeiro, and several American stations.

July 13d. Readings also at 3h. (near Tacubaya), 4h. (La Paz), 5h. (near Samarkand), 7h. (Ekaterinburg, Tashkent, and near Andijan), 8h. (Adelaide, Riverview, and Strasbourg), 9h. (Baku, Ekaterinburg, Tashkent, Granada, and Harvard) 13h. (De Bilt, Kew, Granada, Sucre, and La Paz), 14h. (Copenhagen, Scoresby Sund, Uccle, Paris, and Strasbourg), 18h. (Perth), 20h. (near Andijan and Samarkand (2)), 21h. (Colombo), 23h. (Bombay).

July 14d. 10h. 24m. 12s. Epicentre 36°·2N. 142°·2E. (as on 1929 June 26d.). X.

A = −·638, B = +·495, C = +·591.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tyosi	1·1	245	e 0 8	− 8	(0 17)	−11	0·3	—
Mizusawa	3·0	344	0 42	− 1	1 19	+ 2	—	—
Nagoya	4·4	258	e 1 4	+ 1	—	—	—	—
Osaka	5·7	256	1 29	+ 8	—	—	2·8	3·0
Kobe	5·9	257	e 1 28	+ 4	e 2 32	+ 1	—	4·1
Sumoto	6·2	255	e 2 28	S	(e 2 28)	−10	—	3·1

Mizusawa gives also PN = +48s.

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July 14d. 20h. 41m. 54s. Epicentre 38°·0N. 68°·0E. N.3.
(as given by the Central Asian Stations).

A = +·295, B = +·731, C = +·616; D = +·927, E = −·375;
G = +·231, H = +·571, K = −·788.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Samarkand	1·8	335	0 34	+ 8	—	—	1·0	1·6
Tashkent	3·4	17	0 41	− 8	(1 28)	+ 1	1·5	2·0
Andijan	4·4	49	0 59	− 4	(e 2 3)	+10	e 2·0	—
Baku	14·2	285	e 4 24	+66	—	—	8·9	—
Ekaterinburg	19·4	348	e 4 30	+ 7	e 8 3	+ 9	10·1	11·4
Kucino	26·8	321	—	—	e 10 42	+30	e 14·2	15·5
Pulkovo	32·3	345	e 6 23	− 2	e 11 41	+ 1	14·1	21·3
Copenhagen	40·6	314	—	—	13 42	− 3	24·1	—

Additional readings:—
Baku e = +8m.22s.
Kucino e = +11m.6s.
Long waves were also recorded at Irkutsk, Scoresby Sund, and several European stations.

July 14d. 22h. 40m. 44s. Epicentre **14°·0N. 89°·0W.** R.1.
(as on 1926 Mar. 24d.).

Probable error of epicentre ±0°·45.

A = +·017, B = −·970, C = +·242; D = −1·000, E = −·017;
G = +·004, H = −·242, K = −·970.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Merida		7·0	356	(1 55)	+16	(3 10)	+11	(3·3)	(4·1)
Oaxaca		8·1	294	(2 1)	+ 6	(3 16)	−10	(3·4)	(4·2)
Vera Cruz		8·6	308	(2 12)	+10	(3 38)	− 1	(3·9)	(5·8)
Puebla		10·2	301	2 40	+16	4 10	− 8	4·3	5·3
Balboa Heights		10·5	117	2 40	+12	5 6	+40	5·8	—
Tacubaya		11·2	300	2 16	−21	(4 36)	− 7	4·6	5·3
Manzanillo		15·5	291	(3 48)	+13	—	—	(7·0)	(8·1)
Port au Prince		16·6	72	i 4 25	+36	i 7 44	+52	i 9·7	10·5
Mazatlan		18·9	302	(4 6)	−11	(7 34)	−10	(8·3)	(9·9)
Chihuahua		21·6	315	(4 49)	+ 3	(8 38)	0	(9·6)	(13·3)
St. Louis		24·6	358	e 5 14	− 2	i 9 18	−16	e 14·1	15·4
Florissant		24·9	357	e 5 12	− 7	i 9 34	− 5	i 12·3	14·9
Charlottesville		25·8	19	e 5 28	+ 1	i 10 0	+ 5	12·3	—
Georgetown		27·0	21	i 5 38	0	i 10 52	+37	13·3	—
Tucson		27·1	316	5 28	−11	10 8	− 9	13·4	—
Chicago	E.	27·8	2	—	—	i 10 23	− 5	i 14·4	—
Ann Arbor		28·7	8	e 5 52	− 1	i 10 34	− 9	i 13·1	16·5
Denver		29·3	334	e 5 4	−55	e 9 46	−67	e 14·8	18·9
Fordham		29·9	23	i 6 4	0	i 11 11	+ 8	i 14·9	—
Toronto		30·8	14	i 6 8	− 4	i 11 11	− 6	i 14·2	19·1
Harvard		32·3	26	i 6 29	+ 4	i 11 47	+ 7	13·3	—
Ottawa		33·3	18	i 6 31	− 3	i 11 59	+ 4	i 15·7	—
La Paz		36·8	145	i 7 6	+ 1	i 12 57	+ 9	17·3	24·0
Lick		37·2	315	e 6 58	−10	e 12 39	−15	e 18·8	23·8
Berkeley		38·0	315	e 7 28	+13	e 12 49	−17	e 16·5	18·8
Sucre		40·5	144	i 7 35	− 1	—	—	—	—
Saskatoon		40·6	345	e 7 26	−11	e 13 32	−13	—	—
Victoria	E.	44·5	329	8 2	− 7	14 32	−11	23·1	28·4
	N.	44·5	329	8 5	− 4	14 35	− 8	—	—
Sitka		55·4	332	e 9 23	− 9	i 17 10	− 5	i 31·2	—
La Plata		57·1	150	9 39	− 5	17 40	+ 2	27·0	—
Rio de Janeiro	E.	58·1	130	10 36	(−10)	17 38	−13	25·3	36·5
	N.	58·1	130	10 8	+17	e 17 30	−21	25·8	35·5
Azores P.D.		60·5	53	—	—	17 28	−55	—	31·3
Honolulu T.H.		65·5	286	—	—	i 19 16	−10	26·9	—

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		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Scoresby Sund		69·2	20	11 2	− 4	20 12	+ 1	—	—
San Fernando		76·0	56	11 33	−13	21 33	+ 1	32·1	47·1
Edinburgh		76·1	36	e 11 49	+ 2	21 37	+ 4	35·3	47·4
Dyce		76·6	34	12 27	+38	21 33	− 5	26·2	42·0
Stonyhurst		76·7	38	11 53	+ 3	21 42	+ 3	36·0	46·5
Durham		77·1	35	12 6	+13	21 46	+ 2	—	—
Toledo		77·3	52	e 11 53	− 1	e 21 46	0	e 32·2	46·6
Malaga		77·4	55	e 12 0	+ 6	21 50	+ 3	28·4	46·2
Bidston		77·6	38	—	—	i 21 36	−13	e 32·3	38·4
Oxford	E.	77·6	40	11 56	+ 1	21 42	− 7	e 35·3	45·7
	N.	77·6	40	e 12 5	+10	i 21 47	− 2	i 32·9	39·3
Granada		78·0	55	i 11 59	+ 2	i 22 3	+ 9	e 32·6	38·9
Kew		78·3	40	e 11 58	− 1	e 21 54	− 3	36·9	46·0
Almeria		79·0	55	e 12 5	+ 2	22 8	+ 3	32·9	38·5
Bergen		80·0	30	—	—	i 22 16	0	35·3	—
Alicante		80·1	51	e 12 16	+ 8	e 22 24	+ 7	e 33·2	44·4
Paris		80·5	42	i 12 11	+ 1	e 22 15	− 6	34·3	41·3
Tortosa	N.	80·6	50	12 28	+17	22 13	− 9	e 33·3	43·5
Uccle		81·3	40	12 15	0	22 22	− 8	36·3	43·7
De Bilt		81·5	39	12 17	+ 1	22 27	− 5	e 38·3	42·3
Barcelona		81·6	49	—	—	e 21 44	−49	e 34·8	44·6
Besançon		83·1	44	e 17 44	PPP	—	—	39·3	—
Algiers		83·3	54	e 12 29	+ 4	22 49	− 1	34·3	46·3
Neuchatel		83·8	43	e 12 26	− 1	e 22 52	− 3	—	—
Feldberg		83·9	40	e 12 28	0	e 22 46	−10	e 42·8	56·3
Strasbourg		83·9	42	i 12 29	+ 1	22 47	− 9	39·3	49·8
Hamburg		84·0	36	e 12 28	0	e 22 53	− 5	e 34·7	54·3
Karlsruhe		84·2	40	e 13 16?	?	—	—	e 37·3	—
Gottingen	Z.	84·6	38	e 12 33	+ 2	—	—	e 40·4	—
Copenhagen		84·7	34	12 30	− 2	23 0	[+ 3]	—	—
Stuttgart		84·8	40	e 12 31	− 1	i 23 0	− 6	e 39·3	45·8
Zurich		84·8	44	e 12 36	+ 4	e 22 55	−11	—	—
Lund		85·2	34	12 34	0	23 7	− 3	37·3	—
Chur		85·5	44	e 12 37	+ 1	e 23 3	−10	—	—
Jena		85·7	39	e 12 46	+ 9	e 23 16	+ 1	e 35·3	44·3
Upsala		86·0	29	e 12 37	− 1	e 23 9	− 9	e 35·5	47·2
Potsdam	E.	86·1	37	e 12 10	−29	i 23 16	− 2	e 40·7	53·4
	N.	86·1	37	e 12 58	+19	i 23 16	− 2	e 36·7	48·8
Piacenza		86·1	44	e 12 34	− 5	23 12	− 6	31·3	50·3
Cheb		86·4	39	e 12 47	+ 7	e 23 20	− 1	e 40·3	46·3
Apia		86·5	257	—	—	e 23 19	− 3	40·3	—
Innsbruck		86·6	42	e 12 58	+17	—	—	40·5	—
Treviso		87·6	44	i 12 43	− 3	e 23 16	[− 1]	e 44·3	54·8
Florence		87·6	45	12 47	+ 1	23 46	+13	36·8	43·3
Rome		89·0	47	e 14 36	?	—	—	e 46·8	—
Rocca di Papa		89·2	47	e 12 51	− 3	e 23 46	− 2	e 43·3	49·8
Helsingfors		89·2	27	e 12 52	− 2	e 23 53	+ 5	e 34·1	—
Graz		89·3	41	—	—	e 23 36	−13	33·3	47·0
Konigsberg		89·4	33	e 16 1	PP	i 23 50	0	e 38·8	46·4
Vienna		89·5	40	e 13 6	+11	23 46	− 5	e 37·3	48·3
Zagreb		90·1	42	e 13 0	+ 2	e 23 44	−13	e 39·0	43·8
Budapest		91·4	40	(12 53)	−11	(23 24)	[−17]	(43·3)	(48·8)
Pulkovo		91·6	26	e 13 5	0	24 3	− 8	35·3	56·1
Catania		92·3	50	e 15 19	?	e 23 57	[+11]	e 43·8	54·1
Kucino		97·3	27	14 1	+30	24 56	− 7	40·9	44·0
Wellington		103·8	230	—	—	24 36	[− 8]	48·3	49·3
Ekaterinburg		104·8	17	14 35	+29	i 26 3	− 6	41·3	57·7
Ksara		109·0	45	e 19 2	PP	—	—	57·3	—
Irkutsk		112·7	351	(19 9)	PP	—	—	49·3	—
Baku		113·6	32	e 19 26	PP	—	—	46·3	—
Tashkent		121·2	19	i 20 18	PP	e 31 40	?	52·3	65·8
Samarkand		121·9	21	e 20 24	PP	—	—	55·3	—
Riverview		122·4	240	e 20 16	PP	—	—	e 56·3	65·3

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	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	122·6	16	e 20 23	PP	—	—	—	—
Melbourne	126·8	233	—	—	e 26 16?	[+ 6]	58·7	61·5
Adelaide	132·4	235	e 19 26	[+15]	e 32 46	?	61·2?	86·7
Hong Kong	137·1	327	24 25	PPP	e 30 23	?	e 62·3	79·7
Hyderabad	146·2	20	19 13	[−23]	—	—	70·3	85·3
Kodaikanal	152·3	30	51 22	SSS	—	—	81·4	104·0
Medan	160·8	336	—	—	1 30 37	?	74·3	—

Additional readings and notes :—
Merida readings have been *diminished* by 14m.
Oaxaca readings have been *increased* by 5m.
Vera Cruz readings have been *increased* by 6m.
Manzanillo readings have been *increased* by 5m.
Mazatlan readings have been *increased* by 2m.
Chihuahua readings have been *diminished* by 3m.
St. Louis iN = +5m.17s., iSN = +9m.33s., iE = +9m.38s.
Florissant iPZ = +5m.16s., iSN = +9m.39s. and +9m.47s.
Charlottesville ePP = +7m.6s.
Chicago ePP = +6m.3s., e = +8m.39s., i = +12m.31s.
Ann Arbor ePP = +6m.28s., eN = +7m.16s., e = +8m.46s., iSS = +11m.52s.
Fordham iP_cP = +8m.36s., iP_cS = +12m.27s., iSS = +13m.5s.
Toronto iN = +10m.35s. ; T_o = 22h.40m.13s.
Harvard ePPP = +7m.31s., i = +10m.39s. ; T_o = 22h.40m.31s.
Ottawa iPPP = +7m.34s., SS = +13m.36s., SSSE = +14m.0s. T_o = 22h.40m.21s.
La Paz PPE = +8m.37s., SSSE = +15m.47s.
Lick eN = +11m.49s. and +12m.45s.
Berkeley eE = +8m.34s., eN = +8m.36s., +12m.52s., and +13m.46s., eSSSE = +15m.30s.
Saskatoon PPPN = +9m.5s., SSSN = +16m.34s. ; T_o = 22h.40m.27s.
Sitka ePP = +12m.16s., iSS = +21m.8s.
Rio de Janeiro PPN = +12m.35s., PPP = +13m.34s., SSE = +21m.38s., SSN = +21m.55s.
Honolulu T.H. ePPP = +14m.51s., e = +21m.6s.
Scoresby Sund +21m.5s. = S_cS +6s., and +24m.28s. = SS −2s.
Durham PP = +15m.11s., SS = +26m.39s., SSS = +30m.14s.
Oxford iN = +24m.21s., +25m.40s., +26m.22s. = SS −15s., and +27m.0s.
Granada PP = +15m.0s., i = +16m.3s., PPP = +16m.35s., i = +21m.31s., PS = +22m.42s., i = +24m.52s.
Kew PPE = +14m.46s., SSEN = +26m.58s.
Almeria PP = +15m.4s.
Paris PP? = +15m.24s.
Uccle PP = +15m.7s., PPP = +17m.4s.
De Bilt eN = +34m.44s.
Algiers PP = +15m.47s.
Neuchatel ePP = +15m.39s.
Feldberg e?E = +17m.33s., eN = +21m.34s., eE = +24m.3s.
Strasbourg PP = +15m.50s., PPP = +17m.52s., PPPP = +18m.54s., PS = +23m.48s., SS = +28m.33s.
Hamburg iSN = +22m.58s.
Copenhagen PP = +15m.34s., +27m.16s.
Stuttgart ePPE = +15m.39s., iPSE = +23m.56s., iPPS = +24m.14s., iN = +27m.29s., iSS = +28m.46s., e = +29m.56s., iSSS = +31m.56s.
Lund +15m.52s. = PP +5s.
Jena eE = +23m.6s. = SKS +2s., and +29m.4s.
Cheb eSS = +29m.4s.
Apia e = +27m.29s. and +37m.0s.
Florence PP = +16m.30s., PPPP = +20m.16s.?, PS = +24m.46s.
Rocca di Papa iS = +25m.3s.
Helsingfors PP = +16m.35s., PPPE = +18m.53s., iSKKSN = +23m.42s., PSE = +24m.42s., PPSE = +25m.13s., SSE = +29m.46s., SSSEN = +34m.1s.
Konigsberg iE = +24m.6s., eE = +24m.59s. = PS +15s.
Vienna PP = +16m.58s., SKS = +23m.40s., PS = +24m.37s., SS = +29m.57s., SSS = +33m.45s.
Budapest readings have been *increased* by 5m.
Pulkovo PP = +16m.43s., SKS = +23m.27s.
Kucino PP = +17m.34s., SKS = +24m.25s.
Wellington e = +33m.16s.? = SS +22s.
Ekaterinburg PP = +18m.29s., PS = +27m.44s.
Ksara PPPP? = +28m.27s. = PS +9s.
Irkutsk PS = +28m.41s., SS = +34m.58s.
Baku PS = +29m.15s., SS = +35m.28s., SSS = +39m.22s.
Riverview eN = +41m.31s. = SSS +7s., +47m.6s., and +51m.45s., eE = +53m.18s.
Adelaide i = +22m.33s. = PKS −11s., +36m.16s. and +41m.1s.
Long waves were also recorded at Perth, Sydney, Batavia, Phu-Lien, Zi-ka-wei, Koti, Sumoto, Dehra Dun, Almata, Reykjavik, Tananarive, Vladivostok, the Crimean and European stations.

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July 14d. Readings also at 0h. (Baku and Ekaterinburg), 1h. (near Batavia), 4h. (Wellington and near Christchurch), 8h. (Medan and near Taihoku), 11h. (near Tyosi), 12h. (near Lick), 14h. (Sebastopol), 21h. (Andijan and near Samarkand).

July 15d. Readings at 0h. (Andijan, Samarkand, and near Sucre and La Paz), 3h. (Catania), 4h. (Tyosi), 6h. (Ekaterinburg and Scoresby Sund), 7h. (Tashkent and Vladivostok), 8h. (near Andijan), 9h. (Kew, Stuttgart, Scoresby Sund, Ekaterinburg, Florissant, Harvard, and near Merida), 10h. (Tashkent, Trenta, La Paz, and near Balboa Heights), 11h. (Bombay), 12h. (Bombay and St. Louis), 13h. (Taranto and Tyosi), 14h. (Suva and Wellington), 15h. (Suva, Kew, and Stuttgart), 16h. (Samarkand), 18h. (near Andijan and Samarkand), 19h. (near Andijan), 20h. (near Samarkand), 22h. (near La Paz, near Oaxaca and near Mizusawa), 23h. (Ekaterinburg, Tashkent, near Lick (2), and near Tacubaya).

July 16d. 16h. 28m. 0s. Epicentre 35°·0N. 135°·5E. N.3.

A = − ·584, B = + ·574, C = + ·574.

	Δ	Az.	P.	O − C.	S.	O − C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Osaka	0·4	173	0 4	− 2	(0 12)	+ 2	0·2	0·2
Kobe	0·5	219	0 6	− 1	0 15	+ 2	—	0·3
Toyooka	0·8	314	0 11	0	0 21	0	—	0·4
Sumoto	0·9	212	0 14	+ 1	0 27	+ 4	—	0·5
Nagoya	1·2	82	0 15	− 2	0 28	− 3	—	—

No additional readings.

July 16d. Readings also at 0h. (near Manila), 1h. (Hong Kong, Ekaterinburg, Tashkent, Andijan, and near Samarkand), 2h. (La Paz), 3h. (Baku, Ekaterinburg, Pulkovo, Tashkent, Copenhagen, De Bilt, and Scoresby Sund), 5h. (La Paz and Samarkand), 6h. (Taihoku and near Tyosi), 10h. (St. Louis), 15h. (Ekaterinburg, Irkutsk, Tashkent, and Phu-Lien), 16h. (Messina, Catania, and near Trenta).

July 17d. 14h. 34m. 44s. Epicentre 8°·0N. 94°·0E. (as on 1927 May 17d.). R.3.

A = − ·069, B = + ·988, C = + ·139; D = + ·998, E = + ·070;
G = − ·010, H = + ·139, K = − ·990.

	Δ	Az.	P.	O − C.	S.	O − C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Medan	6·4	132	i 1 0	−31	i 1 51	−52	—	—
Colombo	14·1	266	3 46	+29	—	—	—	8·8
Calcutta	15·5	340	6 35	S	(6 35)	+ 8	—	—
Phu-Lien	17·7	42	e 4 12	+ 9	—	—	—	—
Hyderabad	17·9	303	4 14	+ 9	7 17	− 5	—	—
Batavia	19·1	138	—	—	i 7 1	−47	—	—
Bombay	23·3	300	5 17	+13	(9 32)	+22	9·5	11·8
Hong Kong	24·1	51	5 19	+ 8	9 47	+22	—	15·9
Andijan	38·0	332	e 7 21	+ 6	13 19	+13	—	—
Almata	38·3	340	7 32	+14	13 32	+21	—	—
Samarkand	39·8	327	e 7 36	+ 6	—	—	—	—
Tashkent	39·9	331	i 7 36	+ 5	i 13 47	+12	e 20·3	27·6
Irkutsk	45·1	9	8 16	+ 2	15 0	+ 8	25·3	—
Baku	50·4	319	i 8 59	+ 5	16 20	+14	25·3	31·2
Ekaterinburg	55·3	340	i 9 39	+ 8	i 17 29	+16	27·3	33·9
Theodosia	62·4	319	e 10 22	+ 1	—	—	—	—
Yalta	63·1	318	e 10 25	− 1	—	—	—	—
Simferopol	63·3	318	e 10 26	− 1	—	—	—	—
Kucino	64·8	330	e 10 34	− 3	19 17	0	e 33·4	40·1
Pulkovo	70·1	332	11 10	− 1	20 33	+11	26·3	45·2

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	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Helsingfors	72·7	331	e 11 14	−13	e 21 6	+13	—	—
Zagreb	76·0	316	e 11 42	− 4	—	—	—	—
Rocca di Papa	78·2	312	e 11 54	− 4	—	—	e 19·2	21·1
Rome	78·4	312	e 11 46	−13	—	—	—	—
Copenhagen	78·7	327	11 57	− 4	21 55	− 7	43·3	—
Florence	79·2	314	12 6	+ 2	e 17 16	?	—	—
Hamburg	80·1	325	e 14 4	?	e 22 4	−13	30·3	—
Chur	80·4	317	e 12 5	− 5	e 22 8	−12	—	—
Stuttgart	80·6	320	i 12 6	− 5	i 22 15	− 7	—	—
De Bilt	83·0	323	12 21	− 2	e 22 40	− 7	e 42·3	—
Scoresby Sund	90·2	344	—	—	e 25 16?	PS	49·3	—
La Paz	160·6	242	e 19 53	[− 2]	—	—	—	—

Additional readings :—
Medan i = +2m.7s. and +2m.12s.
Bombay S = +8m.15s.
Stuttgart iEZ = +12m.29s., eE = +22m.46s. =PS −10s.
Scoresby Sund +30m.16s. ?
Long waves were also recorded at Kodaikanal.

July 17d. 18h. 30m. 16s. Epicentre 15°·6N. 97°·8W. (as on 1928 July 10d.). X.

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

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Oaxaca	1·7	35	(0 56)	+32	—	—	1·4	1·6
Puebla	3·4	354	(1 16)	+27	—	—	(1·9)	(2·1)
Vera Cruz	3·9	24	(1 8)	+12	—	—	(2·1)	(2·4)
Tacubaya	4·0	341	0 49	− 8	(1 41)	− 1	1·7	1·8
Guadalajara	7·4	314	(1 46?)	+ 1	1 46?	P	1·8	1·9
Tucson	20·4	327	4 31	− 3	e 8 10	− 4	10·2	—
St. Louis	24·0	15	i 5 13	+ 3	e 9 26	+ 3	—	—
Florissant	24·1	15	e 5 14	+ 3	i 9 38	+13	—	—
Victoria	38·9	333	13 27	S	(13 27)	+ 7	20·5	21·6
Scoresby Sund	70·6	20	—	—	28 26	?	41·7	—
De Bilt	85·4	37	—	—	e 23 44?	PS	—	—
Copenhagen	88·0	32	—	—	(23 44?)	+ 7	23·7	—

Notes :—
Oaxaca readings have been *increased* by 2m.
Puebla readings have been *increased* by 1m.
Vera Cruz readings have been *diminished* by 1m.
Long waves were also recorded at Sitka, Chicago, and Ann Arbor.

July 17d. Readings also at 1h. (near Taihoku), 2h. (La Paz), 3h. (La Paz and near Sumoto), 4h. (Andijan, Samarkand, Calcutta, Bombay, and La Paz), 5h. (Calcutta), 6h. and 7h. (Taihoku), 9h. (La Paz), 11h. (Tyosi), 14h. (La Paz), 19h. (Samarkand and near Andijan), 20h. (Ekaterinburg, Irkutsk, Tashkent, Hong Kong, Phu-Lien, and near Tyosi), 21h. (De Bilt), 22h. (near Andijan and Samarkand), 23h. (Catania).

July 18d. Readings at 2h. (Alicante and Bagnères), 3h. (near Mizusawa), 4h. (Andijan and near Samarkand), 9h. (near Hukuoka, Matuyama, Nagasaki, and near Manila), 10h. (Sumoto, near Hukuoka (2), Matuyama, Nagasaki, and near Tyosi), 14h. (near Tyosi), 16h. (Stuttgart, Hohenheim, and near Zurich), 20h. (Ekaterinburg, Tashkent, Medan, Sucre, and La Paz (2)), 23h. (La Paz).

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July 19d. 9h. 5m. 38s. Epicentre 37°·5N. 0°·5W. N.3.

A = +·793, B = −·007, C = +·609; D = −·009, E = −1·000;
G = +·609, H = −·005, K = −·793.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Alicante	0·7	1	0 12	+ 2	0 16	− 2	—	—
Almeria	1·6	247	e 0 20	− 3	i 0 47	+ 6	—	—
Granada	2·5	263	i 0 39	+ 3	i 1 2	− 2	—	1·1
Malaga	3·2	256	e 1 23	S	(e 1 23)	+ 1	—	—
Toledo	3·6	312	e 1 17	S	(e 1 17)	−15	(e 2·3)	—

Additional readings and note:—
Almeria PP = +25s., PPP = +40s., SS = +51s., SSS = +1m.10s., and +1m.20s.
Toledo readings are given as P_g and S_g.

July 19d. 15h. 20m. 48s. Epicentre 6°·0S. 113°·0E. (as on 1926 Nov. 19d.). R.3.

A = −·389, B = +·915, C = −·105; D = +·921, E = +·391;
G = +·041, H = −·096, K = −·995.

	Δ	Az.	P.	O−C.	S.	O−C.	L.
	°	°	m. s.	s.	m. s.	s.	m.
Malabar	5·5	257	i 1 20	+ 2	2 56	+36	—
Batavia	6·2	267	i 1 28	0	i 2 32	− 6	i 3·5
Amboina	15·3	82	i 2 48	+16	—	—	—
Medan	17·3	304	i 4 40	+42	7 59	+50	—
Manila	22·1	21	i 5 2	+10	i 9 21	SS	11·9
Phu-Lien	27·6	347	5 12?	−32	—	—	—
Irkutsk	58·8	354	e 10 6	+10	e 17 48	−12	e 35·2
Andijan	59·8	325	e 10 3	0	—	—	—
Samarkand	62·3	322	e 10 5	−15	—	—	—
Baku	74·1	316	—	—	e 20 51	−19	e 34·2
Ekaterinburg	75·8	334	e 11 30	−15	i 21 14	−15	30·2
Pulkovo	91·6	330	—	—	e 23 6	−65	—
Copenhagen	101·0	326	21 12? PPPP		—	—	—

No additional readings.

July 19d. 18h. 33m. 30s. Epicentre 32°·9S. 68°·3W. (as on 1926 May 5d.). X.

A = +·310, B = −·780, C = −·543; D = −·929, E = −·370;
G = −·201, H = +·505, K = −·840.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago		2·0	255	0 34	+ 5	1 0	+ 9	1·1	—
La Plata		8·9	105	2 5	− 1	4 1	+15	4·4	—
La Paz		16·4	0	e 3 45	− 1	6 45	− 3	7·0	9·0
Rio de Janeiro	E.	24·3	72	—	—	e 9 30	+ 2	—	—
Florissant	E.	74·6	342	—	—	e 21 6	− 9	—	—

Florissant gives also eEN = +22m.30s., eE = +22m.37s. and +22m.44s., iE = +22m.50s.

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July 19d. 23h. 18m. 54s. Epicentre 42°·3N. 145°·0E. N.2.

$A = -\cdot606$, $B = +\cdot424$, $C = +\cdot673$; $D = +\cdot574$, $E = +\cdot819$; $G = -\cdot551$, $H = +\cdot386$, $K = -\cdot740$.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Kusiro		0·8	327	0 5	− 6	0 15	− 6	—	—
Nemuro		1·1	23	0 11	− 5	0 23	− 5	—	—
Urakawa		1·7	265	0 28	+ 4	0 58	+14	—	—
Sapporo		2·8	286	0 41	+ 1	1 14	+ 2	—	—
Morioka		3·9	230	0 57	+ 1	1 42	+ 2	—	—
Mizusawa	E.	4·3	224	1 2	+ 1	1 49	− 1	—	—
	N.	4·3	224	1 6	+ 5	1 52	+ 2	—	—
Ootomari		4·7	339	1 15	+ 8	(1 57)	− 3	2·0	—
Sendai		5·2	219	1 12	− 2	2 10	− 3	—	—
Hukusima		5·8	219	1 19	− 3	2 23	− 5	—	—
Tyosi		7·3	207	e 3 0	S	(e 3 0)	− 6	—	—
Nagano		7·7	225	1 49	0	3 23	+ 7	—	—
Nagoya		9·5	224	e 2 39	+25	—	—	—	—
Irkutsk		28·9	305	e 5 50	− 5	e 10 40	− 7	15·1	18·3
Ekaterinburg		52·9	318	i 8 13	−60	e 16 41	0	25·1	32·5
Pulkovo		64·8	330	10 35	− 2	19 31	+14	30·1	41·6
Helsingfors		66·4	332	e 10 39	− 9	e 19 47	+10	—	—
De Bilt		79·4	336	e 16 53	PPP	—	—	e 39·1	—

Additional readings :—
Helsingfors $P_cPZ = +11m.18s.$
Long waves were also recorded at Baku, Copenhagen, Scoresby Sund, Kew, Paris, Uccle, and Strasbourg.

July 19d. Readings also at 0h. (Ekaterinburg and Tashkent), 2h. (near Sumoto), 3h. (Andijan and Samarkand), 5h. (La Paz, Andijan, and near Samarkand), 10h. (Andijan, Samarkand, and Port au Prince), 11h. (Mineo), 13h. (La Paz and near Toyooka), 14h. (near Calcutta), 16h. (Samarkand and Taihoku), 17h. (Andijan and near Samarkand), 21h. (Baku, Ekaterinburg, Ksara (2), and near Sumoto).

July 20d. 5h. 50m. 33s. Epicentre 41°·5N. 142°·7E. (as on 1929 Jan. 2d.). R.3.

$A = -\cdot596$, $B = +\cdot454$, $C = +\cdot663$; $D = +\cdot606$, $E = +\cdot795$; $G = -\cdot527$, $H = +\cdot402$, $K = -\cdot749$.

		Δ	Az.	P.	O−C.	S.	O−C.	L.
		°	°	m. s.	s.	m. s.	s.	m.
Urakawa		0·7	5	0 1	− 9	0 12	− 6	—
Obihiro		1·5	15	0 22	+ 1	0 40	+ 1	—
Aomari		1·6	245	0 19	− 4	0 38	− 3	—
Kusiro		1·9	49	0 22	− 6	—	—	—
Morioka		2·2	213	0 30	− 1	0 58	+ 1	—
Mizusawa	E.	2·7	208	0 42	+ 3	1 13	+ 4	—
	N.	2·7	208	0 45	+ 6	1 16	+ 7	—
Akita		2·7	227	0 50	+11	1 13	+ 4	—
Hukusima		4·2	206	0 59	− 1	1 45	− 3	—
Kakioka		5·7	201	1 19	− 2	2 23	− 2	—
Kumagaya		6·0	207	1 28	+ 3	2 34	+ 1	—
Tyosi		6·0	194	e 2 29	S	(e 2 29)	− 4	e 2·9
Nagoya		7·8	217	e 2 7	+16	—	—	—
Ekaterinburg		52·3	317	e 9 1	− 8	—	—	26·4

No additional readings.

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July 20d. 11h. 6m. 20s. (I)
11h. 21m. 15s. (II)
12h. 54m. 52s. (III)
} Epicentre 14°·5N. 99°·0W. N.3. X. X.

A = −·151, B = −·956, C = +·250 ; D = −·988, E = +·156 ;
G = −·039, H = −·247, K = −·968.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
I Oaxaca	3·3	41	(1 4)	+17	(1 37)	+12	(1·6)	(1·8)
II	3·3	41	(1 3)	+16	(1 34)	+ 9	(1·6)	(1·6)
III	3·3	41	(1 3)	+16	(1 34)	+ 9	(1·6)	(1·7)
I Puebla	4·6	9	(1 10?)	+ 4	(1 50)	− 8	(1·8)	(2·0)
II	4·6	9	(0 52)	−14	(1 36)	−22	(1·6)	(1·7)
III	4·6	9	(1 32)	S	(1 32)	−26	(2·2)	(2·4)
I Tacubaya	4·9	357	0 58	−12	(1 43)	−22	1·7	1·9
II	4·9	357	0 58	−12	(1 43)	−22	1·7	2·0
III	4·9	357	0 54	−16	(1 43?)	−22	1·7?	2·0
I Vera Cruz	5·4	30	1 11	− 6	(2 2)	−16	2·0	2·2
II	5·4	30	1 5	−12	(1 59)	−19	2·0	2·1
III	5·4	30	1 4	−13	(1 56)	−22	1·9	2·0
I Tucson	20·8	331	4 44	+ 6	e 8 18	− 4	10·3	—
III	20·8	331	e 4 42	+ 4	—	—	e 10·5	—
I St. Louis	25·3	16	e 5 23	0	e 9 47	+ 1	—	—
II	25·3	16	i 5 23	0	e 9 43	− 3	—	—
III	25·3	16	i 5 23	0	e 9 48	+ 2	—	—
I Florissant	25·5	16	i 4 25	−60	i 8 47	−63	—	—
III	25·5	16	i 4 22	−63	e 8 44	−66	—	—
I Georgetown	31·1	34	e 6 18	+ 3	i 11 20	− 1	17·7	—
I Victoria	39·4	334	9 12	PPP	13 37	+10	20·7	21·8

Additional readings and notes :—
Oaxaca readings have been *increased* by 1m.
Puebla readings have been *increased* by 1m.
Georgetown (I) iZ = +13m.1s.
Long waves were also recorded as follows : for shocks (I) Chicago, Harvard, Sitka, Baku, and Ekaterinburg ; (II) Tucson ; (III) Baku, Ekaterinburg, Irkutsk, Tashkent, and Sitka.

July 20d. Readings also at 2h. (Hukuoka), 3h. (Taihoku), 6h. (La Paz and near Amboina), 9h. (near Sumoto), 10h. (Andijan, Samarkand, Baku, Vladivostok, Irkutsk, Zi-ka-wei, Manila, Phu-Lien, Ekaterinburg (2), Granada, near Taihoku, Hong Kong, and near Hokoto (2)), 11h. (Baku, Copenhagen, Kucino, Pulkovo, Kew, Stuttgart, De Bilt, Uccle, Paris, Scoresby Sund, Strasbourg, Tucson, near Victoria, near Sucre, and La Paz, near Vera Cruz, Oaxaca, Puebla, and Tacubaya), 12h. (near Sucre and La Paz), 13h. (Tucson, Scoresby Sund, Andijan, Samarkand, Kodaikanal, near Bombay, Calcutta, near Puebla, Vera Cruz, Oaxaca, and Tacubaya), 14h. (Hong Kong, Phu-Lien, Taihoku, near Hokoto, Ekaterinburg, Bombay, Irkutsk, and near Victoria), 15h. (Tashkent, Pulkovo, Copenhagen, and Stuttgart), 18h. (Pulkovo, Irkutsk, Tashkent, Ekaterinburg, Samarkand, near Almata, Andijan, and near Tyosi), 19h. (Bombay and near Calcutta), 20h. (Ksara).

July 21d. 14h. 6m. 2s. Epicentre 7°·5N. 116°·0E. N.3.

A = −·435, B = +·891, C = +·131 ; D = +·899, E = +·438 ;
G = −·057, H = +·117, K = −·991.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	8·6	35	i 2 35	+33	i 4 38	+59	i 5·8	8·6
Hong Kong	14·9	354	—	—	6 18	+ 5	7·3	—
Phu-Lien	16·1	327	3 58?	+15	—	—	—	—
Batavia	16·5	214	i 3 53	+ 5	i 5 55	−55	—	—
Medan	17·7	258	i 5 50	−13	—	—	—	—

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.
Vladivostok		38·2	20	—	—	e 12 26	−43	i 16·0	—
Andijan		51·0	318	e 9 6	+ 7	—	—	—	—
Tashkent		53·4	319	i 9 16	− 1	i 17 1	+14	—	24·5
Samarkand		54·3	316	e 9 36	+13	—	—	—	—
Ekaterinburg		65·3	330	i 10 39	− 2	i 19 14	−10	27·0	—
Baku		67·0	313	i 10 53	+ 1	i 19 49	+ 4	—	—
Ksara	E.	77·6	305	11 49	− 6	21 22	−27	—	—
Pulkovo		81·4	329	—	—	i 21 33	−58	—	—
Copenhagen		91·3	328	—	—	22 31	?	—	—

Additional readings :—
Manila PPPPE? = +2m.39s.
Vladivostok e = +15m.21s. =SS −17s.
Pulkovo i = +21m.52s.

July 21d. Readings also at 4h. (La Paz, Sucre, and near Sumoto), 7h. (Ekaterinburg, Vladivostok, near Lick, Ootomari, and near Mizusawa), 8h. (Irkutsk, Tashkent, Stuttgart, and Pulkovo), 9h. (Nagasaki), 11h. (near Sumoto and Nagasaki), 13h. (Taihoku), 14h. (Sumoto), 16h. (Taihoku), 17h. (near Batavia and Malabar), 18h. (Baku, Ekaterinburg, Tashkent, Andijan, Samarkand, and Ksara), 19h. (Alicante and Andijan), 21h. (Cheb and near La Paz), 23h. (La Paz and near Ksara).

July 22d. 8h. 59m. 42s. Epicentre 7°·2N. 123°·0E. (as on 1928 Dec. 28d.). X.

A = −·540, B = +·832, C = +·125 ; D = +·839, E = +·545 ;
G = −·068, H = +·105, K = −·992.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Manila		7·7	345	i 2 8	+19	—	—	—	—
Phu-Lien		20·9	312	4 18?	−21	—	—	—	—
Batavia	E.	21·0	230	4 52	+12	—	—	—	—
Irkutsk		47·6	346	i 8 19	−14	—	—	—	—
Tashkent		58·4	315	—	—	e 17 53	− 2	e 30·3	41·9
Samarkand		59·5	313	i 17 58	S	(i 17 58)	−11	—	—
Ekaterinburg		69·1	329	i 10 56	− 9	i 19 56	−14	28·3	—
Pulkovo		85·2	330	—	—	i 22 24	−46	—	—

Irkutsk e = +10m.16s. =P$_c$P +8s.
Tashkent gives also e = +18m.48s.

July 22d. 19h. 25m. 58s. Epicentre 44°·2N. 147°·4E. N.1.

A = −·604, B = +·386, C = +·697 ; D = +·539, E = +·842 ;
G = −·587, H = +·376, K = −·717.

A depth of focus 0·020 has been assumed.

	Corr. for Focus	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	°	m. s.	s.	m. s.	s.	m.	m.
Nemuro	+0·5	1·6	237	0 26	− 4	0 47	− 7	—	—
Kusiro	+0·3	2·5	241	0 39	− 1	1 8	− 4	—	—
Ootomari	+0·1	4·1	308	0 55	− 5	(1 37)	−11	1·6	1·9
Sapporo	+0·1	4·5	257	1 7	+ 1	2 0	+ 2	—	—
Sikka	0·0	5·8	331	1 55	+33	(1 55)	−33	3·1	4·0
Moricka	0·0	6·5	229	1 30	− 2	2 29	−17	—	—
Mizusawa	−0·1	6·9	225	1 36	− 1	2 51	− 2	—	—
Sendai	−0·1	7·7	222	1 47	−1	3 11	− 3	—	—
Hukusima	−0·1	8·3	222	1 56	0	3 26	− 3	—	—
Kakioka	−0·2	9·7	217	2 13	− 1	3 56	− 5	—	—

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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.
Tyosi		−0·2	9·8	213	e 2 15	− 1	(e 4 3)	0	e 4·1	4·2
Nagano		−0·2	10·3	226	2 25	+ 3	4 14	− 2	—	—
Wazima		−0·2	10·5	233	2 31	+ 6	4 29	+ 8	—	—
Numadu		−0·2	11·2	219	2 35	0	4 39	+ 1	—	—
Nagoya		−0·3	12·1	225	2 48	+ 2	4 58	0	—	5·4
Hikone		−0·3	12·4	228	2 54	+ 4	5 11	+ 6	—	—
Toyooka		−0·4	12·9	232	i 2 59	+ 4	5 19	+ 4	e 7·2	—
Osaka		−0·4	13·2	228	2 59	0	(5 55)	+33	+5·9	6·5
Kobe		−0·4	13·4	229	3 6	+ 4	5 55	+28	—	7·7
Sumoto		−0·4	13·8	229	3 10	+ 3	5 36	− 1	e 8·9	9·5
Siomisaki		−0·5	14·0	224	3 9	0	5 43	+ 4	—	—
Hamada		−0·5	15·0	236	3 25	+ 3	6 11	+ 8	—	—
Koti		−0·5	15·1	230	e 3 25	+ 2	6 33	+28	8·8	—
Hukuoka		−0·6	16·9	237	3 52	+ 7	7 7	+22	—	—
Nagasaki		−0·7	17·8	236	4 1	+ 6	7 26	+22	—	—
Zi-ka-wei	N.	−1·0	24·2	247	e 5 2	− 1	9 16	+ 8	—	—
Taihoku	E.	−1·3	28·4	236	e 5 41	+ 2	(10 37)	+20	10·6	—
Irkutsk		−1·4	29·4	301	i 5 46	− 1	10 27	− 5	15·0	19·1
Hong Kong		−1·6	35·0	241	6 42	+ 7	12 5	+ 8	16·0	19·1
Manila		−1·6	37·2	226	i 7 31	+37	i 13 29	+59	—	—
Phu-Lien		−1·7	41·0	249	e 7 33	+ 7	e 13 34	+ 8	17·0	—
Sitka		−2·0	47·8	45	i 8 22	+ 3	i 15 11	+ 9	18·7	—
Almata		−2·1	49·2	296	8 37	+ 8	15 35	+15	—	—
Honolulu T.H.		−2·1	50·3	98	—	—	i 15 42	+ 6	19·5	—
Ekaterinburg		−2·2	52·7	318	e 8 59	+ 4	i 16 15	+ 7	22·0	34·8
Andijan		−2·2	53·4	295	9 6	+ 6	16 31	+13	27·4	—
Tashkent		−2·3	55·2	298	i 9 16	+ 3	i 16 51	+10	24·9	31·5
Agra	N.	−2·3	57·1	278	e 11 31	PP	16 46	−20	20·9	—
Samarkand		−2·3	57·5	297	i 9 36	+ 6	i 17 23	+11	—	—
Victoria		−2·4	58·2	51	9 33	− 1	17 22	+ 2	24·9	34·1
Medan		−2·4	59·0	241	e 9 57	+17	i 17 48	+17	—	—
Batavia		−2·4	62·2	229	e 9 40	−23	i 18 24	+11	—	—
Hyderabad		−2·5	63·0	271	10 44	+36	19 10	+47	32·2	37·3
Kucino		−2·5	63·8	324	10 14	0	18 42	+ 9	27·6	39·6
Pulkovo		−2·5	64·1	330	i 10 16	0	18 40	+ 3	24·0	34·1
Scoresby Sund		−2·5	65·1	357	i 10 22	0	18 57	+ 7	28·0	—
Helsingfors		−2·5	65·6	332	i 10 17	− 9	i 18 47	− 9	e 24·7	—
Lick		−2·5	65·6	61	e 10 26	0	—	—	—	—
Bombay		−2·5	66·0	274	10 37	+ 8	18 43	−18	31·6	35·5
Baku		−2·6	67·7	306	i 10 43	+ 4	i 19 31	+10	33·0	39·2
Upsala		−2·6	68·2	336	i 10 42	0	e 19 26	− 1	e 34·0	39·7
Colombo		−2·6	69·2	261	10 52	+ 3	19 47	+ 7	30·9	37·0
Konigsberg		−2·6	71·2	331	i 10 57	− 5	i 20 1	− 3	e 34·0	—
Theodosia		−2·6	72·3	318	i 11 10	+ 1	20 19	+ 1	30·0	—
Lund		−2·6	72·9	335	11 11	− 2	20 25	0	—	—
Simferopol		−2·6	73·0	318	11 14	+ 1	20 31	+ 5	—	—
Copenhagen		−2·6	73·1	335	e 11 12	− 2	20 27	0	34·0	—
Yalta		−2·6	73·3	318	11 15	0	20 34	+ 4	—	—
Sebastopol		−2·6	73·5	318	e 12 45	+89	—	—	—	—
Ivigtut		−2·6	73·8	8	i 11 16	− 2	20 42	+ 7	34·0	—
Dyce		−2·6	75·5	345	11 25	− 3	20 48	− 6	e 36·0	44·0
Tucson		−2·6	75·6	59	e 11 28	− 1	e 20 59	+ 2	e 31·5	—
Hamburg		−2·6	75·7	336	i 11 26	− 3	e 21 0	+ 2	e 37·0	42·0
Potsdam		−2·6	75·8	334	i 11 28	− 2	i 20 55	− 4	e 38·0	43·0
Edinburgh		−2·6	76·9	345	11 35	− 1	21 9	− 3	43·0	—
Gottingen		−2·6	77·4	336	e 11 35	− 4	e 21 17	− 1	e 38·0	—
Jena		−2·7	77·5	333	e 11 36	− 3	e 21 14	− 4	e 35·0	43·5
Cheb		−2·7	77·6	333	e 11 42	+ 2	e 21 19	0	e 37·0	43·5
Budapest		−2·7	77·7	329	i 11 42	+ 2	21 24	+ 4	31·0	52·0
Vienna		−2·7	78·0	330	i 11 42	0	21 25	+ 1	e 37·0	50·0
Riverview		−2·7	78·1	176	e 11 43	0	21 19	− 6	e 36·3	41·7
De Bilt		−2·7	78·4	338	11 43	− 1	21 28	0	e 35·0	41·8
Stonyhurst		−2·7	78·6	343	11 47	+ 2	21 30	0	—	45·0
Feldberg	N.	−2·7	79·1	337	i 11 44	− 4	e 14 44	PP	—	45·2
Graz		−2·7	79·4	330	i 11 51	+ 1	i 21 39	0	34·0	45·0

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.
Adelaide		−2·7	79·5	187	e 12 9?	+19	i 21 44	+ 3	33·1	40·6
Uccle		−2·7	79·7	338	i 11 49	− 3	e 21 32	−11	36·0	—
Karlsruhe		−2·7	80·1	334	11 55	+ 1	—	—	—	—
Stuttgart		−2·7	80·1	334	i 11 52	− 2	i 21 42	− 5	e 40·0	45·4
Ksara		−2·7	80·2	310	11 55	0	21 48	0	38·0	—
Zagreb		−2·7	80·2	328	e 11 2?	−53	e 21 2?	−46	—	—
Kew		−2·7	80·3	341	e 11 52	− 3	i 21 49	0	35·0	45·2
Oxford		−2·7	80·3	342	i 11 49	− 6	i 21 50	+ 1	e 41·0	43·5
Innsbruck		−2·7	80·7	333	11 57	0	—	—	—	—
Strasbourg		−2·7	80·8	335	e 11 56	− 2	i 21 53	− 2	39·0	—
Chicago		−2·7	80·9	39	e 11 53	− 5	e 21 47	− 9	—	—
Zurich		−2·7	81·6	334	e 12 0	− 2	e 22 2	− 2	—	—
Chur		−2·7	81·7	334	e 12 1	− 2	e 22 2	− 3	—	—
Treviso		−2·7	81·8	330	i 12 2	− 1	22 12	+ 6	—	—
Florissant		−2·7	82·0	42	i 12 1	− 3	i 22 2	− 6	—	—
Melbourne		−2·7	82·0	182	—	—	e 22 10	+ 2	39·0	—
Paris		−2·7	82·0	339	i 12 1	− 3	i 22 5	− 3	28·0	44·0
Padova		−2·7	82·1	330	e 12 1	− 4	i 22 5	− 4	—	—
Ann Arbor		−2·7	82·1	35	i 12 2	− 3	i 22 14	+ 5	e 39·2	—
St. Louis		−2·7	82·2	42	e 12 2	− 3	e 22 4	− 6	e 36·4	—
Neuchatel		−2·7	82·3	335	e 12 3	− 3	e 22 6	− 5	—	—
Besançon		−2·7	82·5	335	i 12 7	0	22 10	− 4	42·0	—
Ottawa		−2·7	82·6	29	e 12 2	− 5	e 22 5	−10	e 37·0	—
Toronto	N.	−2·7	82·7	32	i 12 7	− 1	i 22 12	− 4	38·6	—
Piacenza		−2·7	83·2	332	12 10	0	22 36	+15	—	45·2
Florence		−2·7	83·7	330	i 12 12	− 1	22 32	+ 6	40·0	46·0
Rocca di Papa		−2·7	85·0	328	i 12 18	− 2	e 22 32	− 8	e 45·1	48·6
Rome		−2·7	85·0	328	e 12 15	− 5	22 32	− 8	—	—
Naples	N.	−2·7	85·1	326	e 12 27	+ 7	e 22 42	+ 1	—	—
Trenta		−2·7	85·6	325	e 12 22	− 1	e 22 22	−24	—	—
Helwan		−2·7	85·8	310	12 22	− 2	22 44	− 4	—	—
Harvard		−2·7	86·8	27	e 12 40	+11	i 22 50	− 9	39·0	—
Fordham		−2·7	87·2	30	i 12 26	− 5	i 22 45	−18	e 39·3	—
Catania		−2·8	87·6	325	12 57	+25	22 57	− 9	e 55·0	—
Georgetown		−2·8	87·7	34	i 12 32	− 1	i 23 2	− 5	e 39·5	—
Charlottesville		−2·8	87·9	35	e 12 33	− 1	i 23 2	− 7	—	—
Bagnères		−2·8	88·0	337	e 12 23	−11	—	—	42·0	—
Wellington		−2·8	89·0	160	—	—	22 47	−32	42·5	47·0
Tortosa	N.	−2·8	90·0	336	12 39	− 5	23 4	−25	42·0	51·1
Toledo		−2·8	92·1	339	e 12 47	− 7	e 23 43	− 6	—	—
Alicante		−2·8	92·6	336	e 12 48	− 8	e 23 18	−36	e 36·2	—
Algiers		−2·8	92·8	333	12 53	− 4	23 48	− 8	46·0	50·0
Almeria		−2·8	94·4	337	13 4	− 1	24 3	− 8	47·4	49·6
Granada		−2·8	94·4	338	i 13 2	− 3	i 24 10	− 1	e 48·5	54·8
Malaga		−2·8	95·2	338	e 13 3	− 6	e 24 7	−11	31·4	—
La Paz		—	139·2	59	e 19 16	[− 4]	—	—	—	—
Rio de Janeiro	E.	—	157·0	25	e 19 2	[−48]	—	—	—	—

Additional readings and notes :—
Koti iP = +3m.31s., e = +4m.6s.
Zi-ka-wei SSN = +10m.10s.
Victoria SN = +17m.26s. ; T_0 = 19h.25m.36s.
Scoresby Sund eNZ = +11m.2s. = P_cP −11s., eE = +14m.50s., eN = +15m.8s., +19m.50s., +20m.18s. = S_cS −9s., +21m.2s., and +24m.35s., eE = +27m.14s.
Helsingfors iPPPE = +14m.16s., iN = +19m.13s.
Lick eN = +10m.29s., eE = +10m.38s., and +10m.54s., e = +11m.0s. = P_cP −15s., eN = +11m.3s., and +11m.7s.
Konigsberg ePSN = +20m.49s., eE = +21m.46s., iSSEN = +25m.21s.
Lund +16m.8s. = PPPP +3s., +21m.8s. = PS −8s., and +22m.2s.
Copenhagen +16m.8s. = PPPP +0s., +21m.8s., and e = +22m.2s.
Potsdam iE = +16m.41s. = PPPP +0s., iN = +22m.22s.
Gottingen iN = +11m.41s.
Jena eE = +22m.2s., eN = +22m.36s.
Cheb e = +15m.23s.
Vienna P_cP = +11m.57s., PP = +15m.28s., PS = +22m.21s.
Riverview iP_cPNZ = +12m.11s.

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De Bilt iZ = +12m.25s.
Uccle e = +18m.31s.
Stuttgart iP = +12m.27s., iEZ = +13m.34s., iZ = +13m.46s., iPP = +14m.55s., and +15m.38s., ePPP = +16m.38s., iSN = +21m.47s., iPSN = +22m.32s., iPS = +23m.26s., iEZ = +26m.24s., eSS = +27m.22s., iN = +27m.58s.
Zagreb e = +12m.2s. ?
Kew iP_cP = +12m.25s.
Florissant iN = +15m.11s. =PP +13s., and +22m.53s.
Ann Arbor iPPN = +15m.14s., iPS = +23m.2s., eSSN = +28m.32s.
St. Louis iPE = +12m.47s., iPP = +15m.12s., eSN = +22m.49s.
Ottawa iE = +23m.6s. =PS −16s.; T_o =19h.25m.55s.
Harvard iPS = +24m.0s.
Fordham iPP = +15m.55s., iSSS = +32m.19s.
Georgetown eN = +22m.43s.; T_o =19h.26m.2s.
Charlottesville eSS = +29m.2s.
Wellington +30m.38s. and +38m.19s.
Toledo iP = +12m.52s.
Almeria PS = +23m.24s.
Granada i= +16m.54s.=PP +16s., +21m.15s., +25m.46s.=PS+3s., and +26m.19s.
La Paz e = +21m.51s.
Long waves were also recorded at Belgrade and Kodaikanal.

July 22d. Readings also at 1h. (Bombay), 2h. (Apia), 3h. (La Paz), 4h. (near Irkutsk) 5h. (Graz and near Lick), 7h. (La Paz), 8h. (La Paz and Rio de Janeiro), 9h. (near Neuchatel and Zurich), 11h. (Stuttgart, Paris, Strasbourg, Uccle, Kew, Catania, Florence, Rocca di Papa, Rome, Tunis, Granada, and near Algiers), 12h. (Copenhagen and Hamburg), 13h. (Samarkand), 16h. (near Tacubaya), 17h. (near Tyosi), 19h. (La Paz), 22h. (Cape Town).

July 23d. 0h. 8m. 43s. Epicentre 41°·1N. 15°·4E. N.1.

Probable error of epicentre ±0°·26.

(De Bilt gives 41°3′31″N. 15°25′15″E.).

A = +·726, B = +·200, C = +·657; D = +·266, E = −·964; G = +·634, H = +·175, K = −·754.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Benevento	0·8	272	−0 20	−31	—	—	—	−0·2
Naples	0·9	253	i 0 15	+ 2	—	—	—	—
Bari	1·1	88	0 4	−12	0 53	+25	1·5	—
Casamicciola	1·2	253	−0 2	−19	—	—	—	—
Taranto	1·6	114	0 22	− 1	—	—	—	—
Trenta	2·0	159	0 27	− 2	—	—	—	—
Rocca di Papa	2·1	288	i 0 32	+ 2	—	—	—	—
Rome	2·3	290	0 37	+ 4	—	—	i 1·3	—
Messina	2·9	178	0 40	− 1	—	—	—	—
Catania	3·6	184	0 53	+ 2	1 34	+ 2	1·8	2·4
Mineo	3·9	188	0 36	−20	—	—	—	—
Florence	4·1	313	i 0 3	−55	—	—	—	—
Livorno	4·5	306	0 37	−27	1 42	−13	—	—
Zagreb	4·7	5	e 1 9	+ 2	i 2 34	S_g	—	2·9
Venice	4·9	333	i 1 15	+ 5	i 2 54	S_g	—	—
Laibach	5·0	353	e 1 8	− 3	e 2 19	+11	e 2·5	3·0
Padova	5·0	331	e 1 13	+ 2	i 1 41	−27	—	—
Treviso	5·1	333	i 1 17	+ 4	2 53	S_g	—	4·0
Belgrade	5·2	43	1 11	− 3	i 2 18	+ 5	—	5·3
Piacenza	5·7	316	1 25	+ 4	i 2 53	+28	i 3·3	4·3
Carloforte	5·8	252	i 1 14	− 8	i 2 21	− 7	—	5·1
Graz	6·0	1	i 1 26	+ 1	i 2 44	+11	—	3·4
Innsbruck	6·8	337	1 40	+ 3	—	—	i 3·6	5·6
Budapest	6·9	21	i 1 29	− 9	3 47	+51	4·8	5·3
Chur	7·2	325	i 1 41	− 1	i 3 6	+ 2	—	—
Vienna	7·2	6	1 40	− 2	—	—	i 3·8	—
Marseilles	7·7	290	i 2 0	+11	3 38	+22	5·3	—
Ravensburg	7·9	330	e 1 57	+ 5	i 3 21	0	i 3·9	4·9
Zurich	7·9	324	i 1 52	0	e 3 34	+13	—	—
Neuchatel	8·4	316	e 1 57	− 2	e 3 50	+16	—	—

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		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Stuttgart		8·8	332	i 2 4	− 1	i 3 42	− 2	i 4·2	7·0
Besançon		9·1	315	e 2 13	+ 4	4 21	+30	4·8	5·3
Cheb		9·2	348	e 1 59	−11	e 4 6	+12	e 4·8	6·0
Strasbourg		9·2	327	e 1 53	−17	3 59	+ 5	5·3	6·9
Karlsruhe		9·3	330	2 18	+ 7	4 41	L	5·0	—
Barcelona		10·0	277	e 2 19	− 2	(4 22)	+ 9	4·4	6·1
Jena	E.	10·1	346	i 2 23	+ 1	i 4 21	+ 5	i 4·9	7·8
	N.	10·1	346	e 2 17	− 5	i 4 31	+15	i 4·8	7·9
Puy de Dôme		10·1	303	i 2 21	− 1	4 19	+ 3	5·3	6·3
Feldberg	E.	10·3	334	e 2 39	+14	i 4 18	− 3	—	7·9
	N.	10·3	334	e 2 23	− 2	—	—	i 6·4	7·5
Algiers		10·5	250	e 2 25	− 3	4 30	+ 4	5·0	7·0
Lemberg	E.	10·6	32	e 2 29	0	e 4 41	+13	e 6·1	10·0
	N.	10·6	32	e 2 33	+ 4	e 4 47	+19	e 5·9	8·1
Gottingen		11·1	342	e 2 38	+ 2	e 4 28	−13	e 6·0	—
Tortosa		11·2	274	2 38	+ 1	4 55	+12	5·7	6·3
Bagnères		11·3	285	e 2 39	0	e 4 47	+ 2	5·3	8·3
Potsdam		11·4	353	e 2 47	+ 7	i 4 45	− 3	i 5·8	6·5
Paris		11·9	315	e 2 49	+ 2	e 5 49	+49	6·3	7·3
Uccle		12·3	326	e 2 53	+ 1	i 5 32	+22	6·3	8·1
Alicante		12·5	263	i 3 3	+ 8	i 5 30	+15	e 6·7	13·9
De Bilt		13·0	331	3 6	+ 4	e 5 38	+11	6·5	8·2
Hamburg		13·0	346	e 3 1	− 1	e 5 24	− 3	e 5·9	7·7
Sebastopol		13·7	69	e 3 15	+ 4	—	—	—	—
Konigsberg		14·1	12	i 3 20	+ 3	e 6 4	+11	—	—
Simferopol		14·2	68	e 3 21	+ 3	—	—	e 8·3	—
Yalta		14·2	70	e 3 17	− 1	e 6 22	+26	12·3	—
Almeria		14·4	259	i 3 25	+ 4	i 6 17	+16	6·9	8·1
Lund		14·6	355	3 21	− 2	6 21	+16	—	—
Copenhagen		14·7	354	3 23	− 2	6 20	+12	—	—
Toledo		14·8	272	3 25	− 1	e 6 20	+10	i 6·8	11·9
Kew		14·9	319	e 3 28	+ 1	i 6 24	+11	8·1	10·7
Theodosia		15·1	68	3 28	− 2	6 39	+22	9·3	11·6
Granada		15·2	261	i 3 35	+ 4	i 6 36	+16	7·3	9·5
Oxford		15·6	319	i 3 37	+ 1	i 6 52	+23	8·2	11·3
Malaga		16·0	261	e 3 43	+ 2	6 55	+17	8·8	11·1
Helwan		17·1	126	3 49	− 6	i 7 19	+15	—	—
San Fernando		17·4	262	3 47	−12	7 11	0	8·6	9·4
Stonyhurst		17·5	323	i 4 6	+ 6	i 7 27	+14	8·9	14·3
Durham		17·7	326	4 7	+ 4	7 23	+ 6	8·4	10·4
Ksara		17·8	107	4 5	+ 1	7 32	+12	9·8	—
Upsala		18·8	3	e 4 15	− 1	i 7 47	+ 5	e 9·4	13·3
Edinburgh		19·1	327	e 4 21	+ 1	i 8 18	+30	—	15·0
Dyce		19·6	331	i 4 25	0	i 8 2	+ 4	e 10·4	15·2
Helsingfors		19·9	14	e 4 20	− 9	i 8 4	0	e 10·9	—
Bergen		20·3	346	4 37	+ 4	8 15	+ 3	9·8	15·1
Kucino		20·8	38	i 4 40	+ 2	8 30	+ 8	10·1	15·1
Pulkovo		20·8	22	i 4 39	+ 1	i 8 21	− 1	10·8	16·5
Baku		26·0	80	e 5 30	+ 1	i 10 4	+ 6	11·3	22·8
Azores P.D.		31·6	278	—	—	11 17	−12	—	24·9
Ekaterinburg		32·8	45	e 6 33	+ 3	i 11 52	+ 4	15·3	20·4
Scoresby Sund		34·9	340	6 53	+ 5	12 29	+ 9	—	—
Samarkand		38·7	75	7 22	+ 1	e 13 24	+ 7	—	—
Dakar		38·8	239	e 8 56	PP	e 13 30	+12	15·2	30·7
Tashkent		39·9	72	i 7 29	− 2	i 13 30	− 5	20·3	30·6
Andijan		42·2	72	e 7 54	+ 4	—	—	—	—
Ivigtut		42·5	320	—	—	14 14	+ 1	—	—
Almata		44·6	65	8 17	+ 7	—	—	—	—
Bombay		53·4	97	8 47	−30	16 51	+ 4	29·5	36·5
Irkutsk		58·0	46	9 54	+ 4	e 17 41	− 8	28·3	37·9
Hyderabad		58·5	95	9 58	+ 4	18 1	+ 5	28·7	33·5
Harvard		61·5	305	e 10 24	+ 9	e 18 42	+ 6	e 29·3	—
Kodaikanal		62·3	101	23 23	?	—	—	—	—
Ottawa		62·8	310	—	—	e 19 0	+ 8	e 28·3	—

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		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Fordham		64·0	304	e 10 26	− 6	e 19 6	− 1	31·0	—
Toronto	N.	65·9	310	e 10 51	+ 6	19 32	+ 1	31·3	—
Colombo		66·3	103	10 22	−25	19 49	PS	35·1	43·8
Tananarive		67·0	147	—	—	20 15	+30	—	40·2
Georgetown		67·2	304	e 10 52	− 1	i 19 45	− 2	e 31·0	—
Charlottesville		68·6	304	—	—	e 20 9	+ 5	e 33·3	—
Ann Arbor		69·2	310	e 10 59	− 7	e 19 59	−12	e 31·8	42·1
Chicago		71·8	311	—	—	20 35	− 8	42·6	—
Florissant		75·3	310	e 11 42	0	e 21 18	− 6	e 34·3	44·8
Phu-Lien		77·3	74	11 17?	−37	—	—	—	—
Sitka		78·8	345	—	—	i 21 57	− 6	e 35·9	—
Hong Kong		81·8	69	12 21	+ 4	22 25	−10	—	52·1
Victoria		83·3	335	12 17	− 8	23 14	PS	38·8	49·9
Rio de Janeiro	E.	83·9	234	e 11 45	−43	e 21 17	?	e 38·6	—
	N.	83·9	234	e 11 44	−44	e 21 32	?	e 38·8	—
Akita		84·8	40	12 38	+ 6	22 59	− 7	—	—
Koti		86·1	48	e 11 37	−62	e 23 27	+ 9	e 51·1	—
Osaka		86·4	46	e 22 50	SKS	(e 22 50)	[−19]	47·0	52·0
Batavia		95·1	95	13 48	+27	24 49	+ 6	—	—
Sucre		95·1	250	e 13 50	+29	—	—	—	—
La Paz		96·1	255	e 13 37	+11	e 25 3	+11	45·8	60·0
Honolulu T.H.		117·3	353	i 14 47	−19	—	—	e 61·3	—

Additional readings and note :—
Zagreb eP* = +1m.13s., eP_g = +1m.27s., iPPP = +1m.34s., iPS = +1m.46s. and +2m.4s., iPPSS = +2m.13s., iSS = +2m.39s.
Laibach PP = +1m.30s., e = +1m.37s., +1m.44s., +1m.56s., and +2m.8s.
Belgrade iP* = +1m.23s., eP_g = +1m.29s., iPPS = +1m.56s., iPS = +2m.14s. and +3m.34s., iS_g = +3m.44s.
Graz iP = +1m.31s.
Innsbruck P* = +1m.59s., P_g = +2m.11s.
Vienna P* = +1m.45s. and +1m.59s., P_g? = +2m.24s., PS = +2m.59s., SS = +4m.0s.
Marseilles SS = +4m.26s., SSS = +4m.34s.
Ravensburg i = +2m.5s., iE = +2m.25s., i = +2m.38s., and +3m.43s.
Stuttgart i = +2m.23s., +2m.57s., +4m.4s., iS_g = +4m.39s.
Strasbourg PPP = +2m.49s., SSS = +5m.12s.
Jena iE = +2m.46s.
Feldberg iN = +2m.32s., iE = +3m.34s., iN = +3m.36s.
Algiers iP = +2m.30s.
Gottingen e = +5m.10s.
Potsdam eE = +3m.24s. and +4m.5s., iN = +4m.51s., i = +4m.59s., iN = +5m.10s., i = +5m.32s.
Uccle i = +3m.51s. and +5m.51s.
Hamburg ePN = +3m.3s., ePE = +3m.5s., eSE = +5m.41s.
Konigsberg iN = +3m.25s., iPPN = +3m.37s., eE = +5m.54s., eSSE = +6m.37s.
Copenhagen SN = +6m.32s.
Toledo iS = +6m.32s., i = +6m.49s.
Kew i = +3m.33s., iZ = +6m.17s., iEZ = +7m.24s.
Granada iP = +3m.44s., i = +4m.51s., +6m.43s., and +6m.58s.
Malaga iPZ = +3m.46s.
Durham PP = +4m.20s., PPP = +4m.24s., PPPP = +4m.29s., SS = +7m.51s.
Upsala iN = +4m.23s. = PP − 2s.
Edinburgh i = +4m.27s. = PP − 2s., +7m.59s. = S +11s., and +8m.34s.
Helsingfors iP = +4m.25s., PP = +4m.42s., iPPPNZ = +4m.54s., SSEZ = +8m.34s., iSSSEN = +8m.48s., P_cSE = +12m.16s.
Bergen PP? = +5m.17s. ?
Scoresby Sund PP = +8m.11s., +9m.53s. = P_cP +28s., +10m.23s. and +12m.5s., SS = +14m.35s.
Harvard eE = +23m.17s.? and +25m.17s. ?
Fordham ePN = +10m.37s.
Tananarive S_cS = +20m.51s., SS = +25m.37s.
Georgetown ePN = +10m.54s. and +10m.58s., iPZ = +11m.1s.
Charlottesville ePPP = +15m.53s., eSS = +25m.17s.
Ann Arbor e?E = +20m.29s., eN = +20m.47s.
Chicago e = +20m.58s. = PS − 3s. and +32m.15s.
Florissant eE = +14m.17s. = PP + 7s., eS?N = +21m.51s. = PS + 3s.
Koti S is given as ePSE.
Osaka S = +33m.6s.
Batavia PP = +17m.37s., SKS = +24m.4s., i = +25m.48s. = PS − 3s.
La Paz PPE = +17m.39s., eSE = +25m.8s., SSE = +31m.29s., iSSSE = +35m.15s.
Long waves were also recorded at Reykjavik, La Plata, Tucson, Taihoku, Sumoto, Toyooka, Nagasaki, Kobe, and Wellington.

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July 23d. 5h. 30m. 38s. Epicentre 41°·1N. 15°·4E. (as at 0h.) **X.**

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Benevento		0·8	272	−0 5	−16	0 1	−20	—	0·2
Casamicciola		1·2	253	−0 16	−33	—	—	—	0·3
Taranto		1·6	114	0 57	+34	1 22	+41	—	—
Trenta		2·0	159	e 1 2	S_g	—	—	—	—
Rocca di Papa		2·1	288	e 0 16	−14	—	—	—	1·4
Messina		2·9	178	0 52	P*	—	—	—	—
Catania		3·6	184	e 1 6	P_g	—	—	—	1·8
Florence		4·1	313	e 0 57	− 1	—	—	—	2·3
Zagreb		4·7	5	e 1 14	+ 7	e 2 2	+ 2	e 2·3	—
Belgrade		5·2	43	e 0 49	−25	—	—	—	—
Piacenza		5·7	316	e 1 52	P_g	—	—	—	5·7
Upsala	N.	18·8	3	e 1 18	?	—	—	—	—
Pulkovo		20·8	22	4 28	−10	8 16	− 6	10·4	—

Additional readings :—
Belgrade e = +1m.35s. =P* and +1m.44s. =P_g.
Long waves were also recorded at Ekaterinburg, Kucino, and other European stations.

July 23d. 13h. 53m. 20s. Epicentre 41°·1N. 15°·4E. (as at 5h.). **R.2.**

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Benevento		0·8	272	−i 0 6	−17	—	—	—	0·3
Naples	N.	0·9	253	e 1 12	+59	e 1 16	+53	—	—
Casamicciola		1·2	253	−0 2	−19	—	—	—	0·6
Taranto		1·6	114	0 15	− 8	—	—	—	0·6
Trenta		2·0	159	i 0 25	− 4	i 0 55	+ 4	—	—
Rocca di Papa		2·1	288	e 0 29	− 1	—	—	1·2	1·5
Rome		2·3	290	e 0 35	+ 2	—	—	i 1·3	1·9
Catania		3·6	184	e 1 34	S	(e 1 34)	+ 2	(1·7)	2·7
Florence		4·1	313	−e 0 10	?	—	—	—	2·2
Zagreb		4·7	5	e 1 23	P*	i 2 8	+ 8	—	3·0
Laibach		5·0	353	e 1 46	P_g	e 2 53	S_g	—	—
Padova		5·0	331	e 1 46	P_g	e 3 16	?	—	—
Treviso		5·1	333	e 1 20	+ 7	2 30	S*	—	—
Piacenza		5·7	316	e 1 48	+27	—	—	—	4·3
Graz		6·0	1	i 1 35	+10	·i 2 58	S*	—	4·0
Innsbruck		6·8	337	1 40?	+ 3	—	—	—	—
Budapest		6·9	21	2 45	S	(2 45)	−11	4·7	—
Vienna		7·2	6	e 1 58	+16	—	—	—	4·7
Chur		7·2	325	1 44	+ 2	—	—	—	—
Zurich		7·9	324	e 1 53	+ 1	—	—	—	—
Neuchatel		8·4	316	1 57	− 2	e 3 32	− 2	—	—
Stuttgart		8·8	332	—	—	e 3 50	+ 6	—	—
Strasbourg		9·2	327	—	—	e 4 17	+23	6·7	—
Jena		10·1	346	—	—	e 4 10	− 6	e 5·2	6·1
Uccle		12·3	326	e 2 46	− 6	—	—	e 6·7	—
Pulkovo		20·8	22	4 37	− 1	8 26	+ 4	10·7	13·9
Kucino		20·8	38	—	—	e 8 34	+12	e 13·0	14·6
Ekaterinburg		32·8	45	(7 40?)	+70	—	—	7·7	—

Additional readings and notes :—
Catania gives S as P and L as S.
Zagreb eP_g = +1m.29s., iPPPSNE = +1m.53s., iPPPPSNW = +1m.59s., iPSNE = +2m.1s., eSSNE = +2m.13s., iSSSNE = +2m.26s.
Laibach e = +2m.21s., +2m.34s. =S*, and +2m.45s. =S_g.
Budapest S = +3m.45s.
Strasbourg e = +5m.33s.
Tashkent (Δ =39°·9), e =13h.51m.24s.
Long waves were also recorded at Irkutsk and several other European stations.

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July 23d. 18h. 53m. 16s. Epicentre 34°·4N. 105°·8E. N.3.

A = −·225, B = +·794, C = +·565; D = −·+962, E = +·272;
G = −·154, H = +·544, K = − 825.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien		13·6	177	5 44?	S	(5 44?)	+ 3	7·7	—
Hong Kong		14·1	146	6 21	S	(6 21)	+28	8·4	9·6
Irkutsk		17·9	357	e 4 5	0	7 25	+ 3	9·1	10·7
Almata		24·0	300	e 6 17	+67	—	—	—	—
Osaka		24·4	81	(e 5 9)	− 5	e 5 9	P	12·6	15·9
Andijan		27·1	294	e 5 32	− 7	—	—	—	—
Tashkent		29·4	294	—	—	i 11 11	+16	e 15·2	18·0
Ekaterinburg		38·2	322	i 7 13	− 4	e 13 3	− 6	17·7	22·1
Baku		44·1	297	—	—	e 18 6	(− 1)	—	24·0
Pulkovo		53·7	324	9 18	− 1	16 46	− 6	22·7	32·0
Helsingfors	N.	56·3	324	e 9 18	−20	—	—	e 30·3	—

Additional readings :—
Hong Kong S = +7m.50s.
Ekaterinburg e = +15m.37s. =SS − 1s.
Long waves were also recorded at Taihoku, Zi-ka-wei, Bombay, Kucino, Scoresby Sund, and the European stations.

July 23d. Readings also at 0h. (near Casamicciola (5), Naples (2), and Rome), 1h. (Casamicciola (4), Rocca di Papa (3), Florissant, near Oaxaca, Vera Cruz, Puebla, and Tacubaya), 2h. (Casamicciola (4), Rocca di Papa (3), Benevento, Florence, Piacenza, Vienna, Zagreb, and Tucson), 3h. (Casamicciola (6), Rocca di Papa (3), and Paris), 4h. (Casamicciola (2), Rocca di Papa (2), and near Malabar), 7h. (Benevento), 8h. (Casamicciola and Rocca di Papa (2)), 9h. (Casamicciola, Rocca di Papa, Rome, Naples, Florence, Trenta, Stuttgart, Zagreb, and Taihoku), 10h. (near Sumoto), 11h. (near Andijan), 12h. (Casamicciola, Naples, and Wellington), 13h. (Cheb, Hong Kong, Phu-Lien, and near Manila), 14h. (Tashkent), 15h. (Casamicciola and Rio de Janeiro), 17h. (Tucson, Florissant, La Paz, Paris, Strasbourg, Almata, Andijan, Irkutsk, Tashkent, and near Tacubaya, Vera Cruz), 18h. (Kew, Scoresby Sund, Copenhagen, Ekaterinburg, and Pulkovo), 19h. (Taihoku), 21h. (Scoresby Sund and near Calcutta (2)), 23h. (Casamicciola, Taranto, Trenta, Benevento (2), Ekaterinburg, and Tashkent).

July 24d. 8h. 18m. 24s. Epicentre 41°·1N. 15°·4E. (as on 23d.). X.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Benevento	0·8	272	−e 0 6	−17	—	—	—	—
Naples	0·9	253	e 0 17	+ 4	e 0 21	− 2	—	—
Casamicciola	1·2	253	−0 9	−26	—	—	—	1·4
Taranto	1·6	114	1 16	?	—	—	—	—
Trenta	2·0	159	e 0 36	+ 7	1 6	S_g	—	—
Rocca di Papa	2·1	288	i 0 36	+ 6	—	—	i 1·1	1·4
Rome	2·3	290	e 0 43	+10	—	—	i 1·3	2·2
Florence	4·1	313	e 1 21	P*	—	—	—	2·5
Zagreb	4·7	5	1 28	P*	1 2 31	S*	—	2·8
Piacenza	5·7	316	2 4	P_g	—	—	—	—

Additional readings :—
Zagreb eNE = +1m.46s., e = +2m.10s., eNW = +2m.26s. = S_g.
Long waves were also recorded at De Bilt, Kew, Stuttgart, and Copenhagen.

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July 24d. 12h. 3m. 37s. Epicentre 41°·1N. 15°·4E. (as at 8h.). X.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Benevento	0·8	272	−i 1 29	−100	—	—	—	—
Naples	0·9	253	e 0 8	− 5	e 0 11	−12	—	—
Taranto	1·6	114	0 28	+ 5	—	—	—	—
Trento	2·0	159	e 0 23	− 6	0 53	+ 2	—	—
Rocca di Papa	2·1	288	i 0 28	− 2	—	—	—	1·1
Rome	2·3	290	e 0 37	+ 4	i 0 52	− 7	—	1·3
Zagreb	4·7	5	1 16	+ 9	e 2 0	0	—	—
Piacenza	5·7	316	—	—	e 2 23	− 2	—	—

Additional readings :—
Zagreb eNE = +2m.5s., eNW = +2m.13s.
Long waves were also recorded at Bombay and several other European stations.

July 24d. Readings also at 4h. (near Andijan (2), and near Tyosi), 5h. (Ekaterinburg, Irkutsk, Tashkent, near Batavia, Malabar, and near Sucre and La Paz), 7h. (near Tacubaya), 10h. (near Tyosi), 12h. (Strasbourg), 13h. (Casamicciola, Rocca di Papa, Naples, Strasbourg, and Venice), 14h. (Ekaterinburg, Irkutsk, Tashkent, and near Mizusawa), 15h. (Copenhagen, Scoresby Sund, and Naples), 17h. (near Hukuoka), 18h. (Casamicciola and Naples), 20h. (Sebastopol, Simferopol (2), Theodosia (2), Kucino, Pulkovo, Budapest, Strasbourg, Cheb, Zagreb, Stuttgart, Ekaterinburg, Florence), 21h. (De Bilt, Uccle, Hamburg, and Copenhagen), 22h. (near Sumoto).

July 25d. 9h. 9m. 32s. Epicentre 42°·5S. 172°·0E. (as on 1929 March 9d.). X.

A = −·730, B = +·103, C = −·676 ; D = +·139, E = +·990 ;
G = +·669, H = −·094, K = −·737.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Christchurch	1·1	156	0 14	− 2	0 36	+ 8	—	—
Wellington	2·4	60	0 37	+ 3	1 2	0	—	1·2
Riverview	18·5	291	e 4 15	+ 2	e 7 47	+11	e 8·7	10·8
Sydney	18·5	291	(e 3 58)	−15	—	—	e 8·9	11·3
Melbourne	21·1	274	—	—	i 8 57	SS	—	13·8
Adelaide	26·9	275	e 5 54	+17	e 11 2	SS	13·1	13·7

Additional readings and note :—
Riverview i = +4m.25s. and +8m.12s.
Sydney P has been *increased* by 3m.

July 25d. 15h. 51m. 28s. Epicentre 41°·1N. 15°·4E. (as on 24d.). X.

A = +·726, B = +·200, C = +·657.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Benevento		0·8	272	i 0 13	+ 2	—	—	—	—
Naples	N.	0·9	253	e 0 19	P$_g$	—	—	—	—
Casamicciola		1·2	253	0 17	0	—	—	—	—
Taranto		1·6	114	0 7	−16	—	—	—	—
Trenta		2·0	159	e 0 27	− 2	0 52	+ 1	—	—
Rocca di Papa		2·1	288	i 0 25	− 5	—	—	—	1·3
Florence		4·1	313	−e 0 32	?	3 17	?	—	7·8
Zagreb		4·7	5	—	—	e 2 2	+ 2	—	—
Treviso		5·1	333	—	—	1 48	−22	—	—

Rocca di Papa gives also e? = 15h.50m.51s.

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July 25d. 19h. 46m. 33s. Epicentre 34°·1N. 32°·2E. (as on 1930 May 9d.). R.2.

A = +·701, B = +·441, C = +·561 ; D = +·533, E = −·846 ;
G = +·474, H = +·299, K = −·828.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara		3·1	95	0 39	− 5	1 4	−16	—	—
Helwan		4·3	190	1 12	+11	2 12	+22	—	—
Yalta		10·5	8	e 2 24	− 4	—	—	—	—
Sebastopol		10·6	5	e 2 27?	− 2	—	—	—	—
Simferopol		10·9	7	e 2 30	− 3	—	—	—	—
Theodosia		11·2	11	e 2 33	− 4	—	—	—	—
Trenta		13·7	296	—	—	e 5 27	−17	—	—
Baku		15·4	61	e 3 31	− 3	6 21	− 3	8·6	10·6
Budapest		16·6	328	e 3 27?	−22	—	—	10·0	—
Zagreb		17·0	318	e 3 57	+ 3	e 7 15	SS	—	—
Rocca di Papa		17·1	302	i 3 2	−53	i 4 11	PP	—	13·6
Graz		18·0	321	e 4 10	+ 3	—	—	—	—
Florence		18·8	307	e 4 21	+ 5	—	—	—	7·4
Treviso		19·1	313	i 3 24	−56	8 17	+29	—	—
Piacenza		20·4	309	4 37	+ 3	8 41	+27	—	15·2
Chur		21·3	313	e 4 46	+ 3	e 8 49	+17	—	—
Kucino		22·0	9	e 4 48	− 3	e 8 46	0	e 10·2	15·2
Zurich		22·1	314	e 4 54	+ 2	—	—	—	—
Stuttgart		22·5	318	e 4 57?	+ 1	e 9 2	+ 7	—	14·2
Neuchatel		23·0	312	e 4 1	−60	e 9 11	+ 6	—	—
Strasbourg		23·2	316	5 6	+ 3	9 18	+10	13·4	—
Feldberg	N.	23·6	320	i 5 10	+ 4	i 9 28	+12	—	14·6
Hamburg		25·0	328	e 5 18	− 2	—	—	—	17·4
Copenhagen		25·5	334	5 27	+ 2	9 57	+ 7	14·4	—
Pulkovo		25·7	358	5 32	+ 6	9 52	− 1	13·4	17·6
Uccle		26·2	318	—	—	e 9 57	− 5	e 13·4	—
Helsingfors		26·5	352	e 5 31	− 3	e 9 59	− 8	e 13·8	—
Granada		29·1	286	—	—	e 11 27?	+37	—	18·0
Ekaterinburg		29·8	32	i 6 0	− 3	e 10 53	− 8	14·4	—
Tashkent		30·0	65	—	—	e 10 18	−46	e 17·4	20·0
Scoresby Sund		46·3	339	8 27?	+ 4	—	—	25·4	—

Additional readings :—
Zagreb e = +4m.16s., +4m.59s.
Feldberg eN = +4m.31s.
Ekaterinburg 1 = +11m.15s.
Tashkent e = +14m.21s.
Long waves were also recorded at Paris, De Bilt, Kew, Lund, and Irkutsk.

July 25d. 21h. 34m. 12s. Epicentre 18°·5N. 104°·5W. (as on 1928 April 27d.). X.

A = −·237, B = −·918, C = +·317 ; D = −·968, E = +·250 ;
G = −·079, H = −·307, K = −·948.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Denver	N.	21·2	359	e 5 49	+67	—	—	—	—
Florissant		23·7	28	i 5 11	+ 4	i 9 24	+ 6	—	12·3
Lick	E.	24·1	325	e 5 4	− 7	—	—	—	—
Berkeley	E.	24·9	325	e 5 12	− 7	—	—	—	—
Chicago		27·3	28	—	—	e 10 5	−15	i 13·3	—
Charlottesville		29·9	44	—	—	e 13 30	?	e 16·0	—
Georgetown	E.	31·3	45	e 11 59	S	(e 11 59)	+35	18·6	—
Toronto	N.	32·8	35	—	—	e 11 48	0	e 16·3	—
Victoria		33·6	339	5 0	?	(11 2)	−58	11·0	13·9
Harvard		37·0	42	—	—	e 13 18?	+27	—	—
Sitka		44·9	338	—	—	e 16 0	+71	i 19·6	—
Honolulu T.H.		50·0	282	—	—	e 18 48	(+ 4)	20·6	—
Feldberg	N.	89·5	36	—	—	e 27 59	?	—	—
Ekaterinburg		103·6	8	—	—	e 24 23	[−20]	43·8	—

For Notes see next page.

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NOTES TO JULY 25d. 21h. 34m. 11s.

Additional readings :—
Florissant ePE = +5m.14s.
Lick e = +5m.10s., eE = +5m.24s. and +5m.33s., eN = +5m.48s., +5m.51s., and +6m.17s., eE = +7m.50s., and +8m.22s., eN = +8m.10s., iN = +8m.13s.
Berkeley eN = +5m.30s.
Georgetown eEZ = +16m.18s., eSE = +17m.2s.
Toronto eN = +14m.33s.
Long waves were also recorded at Ann Arbor, Scoresby Sund, and several European and Russian stations.

July 25d. Readings also at 0h. (Andijan), 2h. (Benevento), 5h. (near Mizusawa), 6h. (Benevento, Rocca di Papa, Vladivostok, and near Sumoto), 7h. (Baku, Ekaterinburg, Irkutsk, and Tashkent), 8h. (Benevento, Rocca di Papa, and Taranto (2)), 9h. (Taihoku), 10h. (Granada and Wellington), 13h. (Benevento (2), Rocca di Papa, Taranto, and Wellington (2)), 15h. (Ekaterinburg, Irkutsk, and Tashkent), 16h. (Apia and Riverview), 17h. (Ksara, Benevento, Casamicciola, Naples, Rocca di Papa, Taranto, Trenta, and Zagreb), 19h. (Ksara), 22h. (La Paz and Scoresby Sund), 23h. (near La Paz).

July 26d. Readings at 0h. (Benevento, Naples, Samarkand, and near Andijan), 3h. (near Tyosi), 4h. (near Manila), 5h. (Wellington), 7h. (near Tacubaya), 9h. (near Ksara), 11h. (Gottingen, Graz, Benevento, Casamicciola, Taranto, and Naples), 13h. (Adelaide, Riverview, Wellington, and Granada), 14h. (Benevento and near Andijan), 15h. (Benevento, near Oaxaca, Tacubaya, and near Tyosi), 16h. (Benevento, Naples, and near Amboina), 17h. (Taihoku, Riverview, near Oaxaca, and Tacubaya), 18h. (Harvard and Scoresby Sund), 23h. (Andijan and Samarkand).

July 27d. 15h. 1m. 30s. Epicentre 15°·5N. 92°·5W. (as on 1929 Dec. 20d.). R.3.

A = −·042, B = −·963, C = +·267 ; D = −·999, E = +·044 ;
G = −·012, H = −·267, K = −·964.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tacubaya		7·5	302	1 51	+ 5	3 38?	+27	—	4·6
Florissant		23·4	4	e 5 0	− 5	—	—	—	—
Tucson		23·7	318	e 5 6	− 1	e 9 42	SS	e 12·9	—
Georgetown		27·1	27	e 5 50	+11	i 10 27	+10	14·5	—
Ann Arbor	N.	27·9	14	—	—	e 9 36	−54	e 13·4	—
Harvard		32·6	30	e 6 41	+13	e 12 11	+26	e 18·5	—
Ottawa		33·1	23	—	—	e 12 0	+ 8	e 17·5	—
La Paz		40·0	144	e 7 40	+ 8	—	—	18·5	—
Victoria		41·5	330	7 41	− 3	14 6	+ 7	25·2	31·6
Scoresby Sund		69·0	20	—	—	19 30?	−39	34·5	—
Granada		79·9	55	i 12 0	− 7	e 23 9	PS	e 39·5	—
De Bilt		82·4	39	e 12 14	− 6	—	—	e 49·5	—
Copenhagen		85·3	33	—	—	22 54	[− 7]	46·5	—
Pulkovo		91·8	25	e 16 36	PP	i 23 34	[− 9]	48·5	—
Ekaterinburg		104·3	15	—	—	e 27 36	PS	54·5	—
Irkutsk		110·7	350	e 18 30?	[+10]	—	—	e 73·5	—

Additional readings :—
Ann Arbor i?E = +12m.30s.
Harvard e = +8m.2s.
Victoria SE = +14m.21s.
Pulkovo e = +25m.20s. = PS +7s.
Ekaterinburg e = +34m.42s.
Long waves were also recorded at Port au Prince, Paris, Strasbourg, Uccle, Baku, and Tashkent.

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July 27d. 18h. 58m. 44s. Epicentre 13°·9N. 91°·2W. (as on July 7d.). R.2.

A = −·020, B = −·971, C = +·240; D = −1·000, E = +·021; G = −·005, H = −·240, K = −·971.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Vera Cruz		7·1	319	(1 17)	−24	(3 5)	+ 4	(3·2)	(5·6)
Merida		7·2	12	(2 7)	+25	(3 41)	+37	(3·9)	(5·4)
Tacubaya		9·5	307	2 6	− 8	3 52	− 9	4·0	4·7
Balboa Heights		12·4	112	e 3 16?	+22	—	—	—	—
Port au Prince		18·7	73	e 4 46	+31	e 8 17	+37	e 12·9	—
Florissant		25·0	2	i 5 18	− 2	i 9 51	+10	—	—
Tucson		25·7	319	5 22	− 4	9 49	− 4	13·2	—
Charlottesville		26·6	23	e 5 56	+21	e 10 16	+ 7	e 15·8	—
Georgetown		28·0	24	i 5 51	+ 4	e 10 42	+10	16·3	—
Ann Arbor		29·2	11	e 9 28	(+20)	e 11 28	+37	e 18·0	—
Fordham		30·9	26	e 6 18	+ 5	i 11 33	+15	15·6	—
Toronto		31·4	17	6 19	+ 2	11 27	+ 1	e 14·7	—
Ottawa		34·1	20	e 6 39	− 2	e 12 14	+ 6	e 16·3	—
La Paz		38·0	143	e 7 14	− 1	i 13 20	+14	18·3	25·3
Victoria	E.	43·5	330	7 59	− 2	14 35	+ 7	23·8	32·0
Sitka		54·6	333	i 9 22	− 4	i 17 8	+ 4	e 27·3	—
Ivigtut		56·5	24	—	—	20 28	?	31·3	—
Rio de Janeiro		59·7	129	e 18 16	S	(e 18 16)	+ 4	e 30·0	—
Scoresby Sund		70·1	20	—	—	20 25	+ 3	37·3	—
Oxford		79·1	40	12 2	− 1	22 28	PS	e 43·3	50·8
Kew		79·7	40	e 12 14	+ 8	e 22 27	+15	38·3	—
Granada		79·8	54	i 12 11	+ 4	23 36	PS	37·8	40·0
Paris		82·0	42	e 12 21	+ 3	e 22 45	+ 8	39·3	51·3
Uccle		82·7	40	e 12 26	+ 4	e 22 46	+ 2	e 39·3	—
De Bilt		82·9	38	12 25	+ 2	e 22 50	+ 4	e 40·3	56·3
Hamburg		85·4	36	e 12 42	+ 7	e 23 9	− 3	e 48·8	50·3
Strasbourg		85·4	41	e 12 39	+ 4	e 23 9	− 3	e 31·3	—
Copenhagen		86·0	34	12 40	+ 2	23 13	− 5	43·3	—
Stuttgart		86·3	40	i 12 41	+ 1	e 23 14	− 6	e 41·3	50·8
Lund		86·5	34	13 16?	+35	—	—	—	—
Piacenza		87·7	44	e 12 46	0	23 24	−10	—	63·3
Cheb		87·9	39	—	—	e 23 30	− 6	e 46·3	53·3
Florence		89·2	45	e 12 16?	−38	e 21 16?	?	44·3	91·3
Helsingfors		90·3	27	e 16 19	PP	e 23 25	[− 9]	e 41·1	—
Pulkovo		92·7	25	13 8	− 2	23 48	[0]	41·3	52·6
Kucino		98·3	26	—	—	e 24 19	[+ 2]	e 47·1	54·5
Ekaterinburg		105·5	15	—	—	e 24 56	[+ 4]	49·3	64·7
Irkutsk		112·5	350	e 19 19	PP	e 26 27	{+ 2}	69·3	73·6
Baku		114·8	31	e 12 24	?	e 25 39	[+ 6]	e 56·3	68·7
Tashkent		121·9	16	i 20 27	PP	i 26 1	[+ 5]	e 59·3	82·5

Additional readings and note :—
Vera Cruz readings have been *increased* by 12m.
Merida readings have been *diminished* by 2m.
Florissant iPPNZ = +6m.1s., iSN = +9m.55s., iSSN = +11m.10s.
Tucson eSS = +11m.10s.
Ann Arbor e?E = +9m.46s., eN = +10m.10s., eE = +12m.40s. and +15m.28s., e = +16m.40s. = S_0S +1s.
Fordham ePP = +7m.18s., ePPPP = +7m.55s.
Ottawa iE = +15m.0s.; T_g = 18h.58m.20s.
Copenhagen +15m.58s. = PP +5s.
Stuttgart ePSEN = +24s.20s.
Pulkovo PP = +16m.56s., PS = +25m.40s.
Kucino e = +26m.44s. = PS +17s.
Ekaterinburg e = +27m.51s. = PS +8s.
Baku e = +29m.27s. = PS +13s.
Tashkent e = +27m.31s. = SKKS +2s., +30m.23s. = PS +4s., and +36m.58s. = SS +1s.
Long waves were also recorded at Berkeley, La Plata, and Edinburgh.

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July 27d. Readings also at 2h. (Adelaide and Riverview), 3h. (Benevento, Baku, Ksara, and Tashkent), 4h. (Bombay), 5h. (Benevento and Bombay), 7h. (near Baku), 8h. (Florissant, Harvard, and La Paz), 9h. (Scoresby Sund and Wellington), 12h. (Harvard, Florissant (2), La Paz, Port au Prince, near Merida, and Tacubaya), 13h. (Ekaterinburg, Granada, Scoresby Sund (2), Baku, and near Merida), 14h. (Harvard, Tucson, and Vera Cruz), 15h. (Benevento, near Oaxaca, Vera Cruz, and Tacubaya), 16h. (Naples, Rocca di Papa, and Casamicciola), 17h. (Benevento and Mizusawa), 19h. (Kobe and near Sumoto), 20h. (La Plata and near Port au Prince), 21h. (Sucre and La Paz).

July 28d. Readings at 1h. (Benevento), 4h. (Baku and Tashkent), 9h. (Florissant), 12h. (Samarkand), 14h. (Rocca di Papa and near Ksara), 15h. (near Ksara), 17h. (Copenhagen), 18h. (Melbourne, Riverview, Wellington, La Paz, Vladivostok, Andijan, Ekaterinburg, Baku, Tashkent, Pulkovo, Copenhagen, De Bilt, and Granada), 20h. (Copiapo, La Plata, La Paz, and near Santiago), 21h. (Naples).

July 29d. 6h. 24m. 6s. Epicentre 12°·7N. 86°·7W. N.2.

A = +·056, B = −·974, C = +·220 ; D = −·998, E = −·058 ;
G = +·013, H = −·219, K = −·976.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Heights		7·9	116	e 2 54?	+62	—	—	—	—
Merida		8·7	342	(2 27)	+24	(4 6)	+25	(4·2)	(5·5)
Vera Cruz		11·2	307	2 11	−26	4 14	−29	4·4	6·9
Tacubaya		13·7	301	3 12	+ 1	5 58?	+14	6·1	—
Port au Prince		15·0	65	i 3 57	+29	i 6 9	− 6	e 9·2	9·5
Charlottesville		26·4	15	5 50	+17	—	—	—	—
Georgetown		27·6	16	i 5 47	+ 3	i 10 29	+ 4	13·3	—
Chicago		29·1	359	—	—	e 10 38	−12	e 13·9	—
Tucson		29·5	305	e 5 54	− 7	e 11 3	+ 7	e 16·5	—
Ann Arbor		29·7	4	e 6 0	− 2	e 10 54	− 5	e 17·7	—
Fordham		30·3	20	e 6 9	+ 1	i 11 10	+ 1	e 14·8	—
Toronto	N.	31·6	10	6 19	0	i 11 22	− 7	15·4	18·1
Ottawa		34·0	15	e 6 39	− 1	e 12 1	− 5	e 15·9	—
La Paz		34·5	147	e 6 47	+ 2	e 12 7	− 7	15·5	17·7
Sucre		38·1	146	e 7 7	− 9	—	—	—	—
Lick	E.	39·7	316	e 7 25	− 4	—	—	—	—
Victoria		46·8	328	8 36	+ 9	15 4	−12	25·4	30·8
La Plata		54·9	150	9 25	− 3	17 1	− 7	—	—
Rio de Janeiro	E.	55·6	130	e 13 36	?	—	—	—	—
Ivigtut		55·9	22	12 54?	?	—	—	23·9	—
Granada		76·9	55	i 11 49	− 2	21 36	− 6	e 35·9	38·5
Almeria		77·9	55	e 12 7	+10	—	—	e 35·6	39·6
Kew		77·9	39	—	—	e 22 6	+13	36·9	—
Paris		80·0	42	e 11 2	−66	—	—	37·9	41·9
De Bilt		81·1	39	e 12 14	0	—	—	e 38·9	39·6
Stuttgart		83·0	41	—	—	e 22 54?	+ 7	e 39·9	—
Copenhagen		84·6	34	12 48	+17	22 42	[−14]	35·9	—
Piacenza		85·5	44	e 17 54	PP	—	—	—	42·9
Pulkovo		91·9	26	12 58	− 8	—	—	38·9	53·6
Ekaterinburg		105·4	18	—	—	24 41	[−11]	49·9	58·3
Irkutsk		114·3	353	e 18 54?	[+23]	e 28 54?	PS	e 55·9	64·0
Tashkent		121·6	21	20 17	PP	—	—	e 57·9	67·5

Additional readings and notes :—
Merida readings have been *diminished* by 3m.
Chicago e = +9m.44s., and +11m.34s.
Tucson eSS = +13m.32s.
Ann Arbor eE = +10m.30s. and +12m.0s., eN = +12m.30s., eE = +13m.6s., i = +14m.18s.
Fordham ePP = +7m.2s., SSSZ = +13m.30s.
Toronto iN = +6m.36s. ; T_0 = 6h.23m.46s.

Continued on next page.

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Ottawa eN = +14m.42s. ; T_0 =6h.23m.58s.
Lick iE = +7m.37s.
Granada iP = +12m.13s., PS = +22m.39s.
Copenhagen +15m.48s. =PP+6s.
Pulkovo PP = +16m.46s., PS = +25m.16s., SS = +30m.24s.
Ekaterinburg PP = +18m.28s., PS = +27m.54s.
Tashkent PS = +30m.31s., PPS = +32m.0s.
Long waves were also recorded at Baku and other European stations.

July 29d. Readings also at 0h. (Florissant), 9h. (Casamicciola, near Andijan, and near Mizusawa), 17h. (Benevento, Naples, Rocca di Papa, Zagreb, Reykjavik, and near Florissant), 22h. (Taihoku).

July 30d. 6h. 41m. 36s. Epicentre 37°·0N. 137°·0E. (as on 1928 Feb. 7d.). X.

A = −·584, B = +·545, C = +·602.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya	1·8	182	0 34	+ 8	1 7	+21	—	—
Toyooka	2·2	230	e 0 23	− 8	e 0 54	− 3	—	0·9
Osaka	2·6	208	e 0 29	− 8	(1 15)	+ 8	1·2	1·5
Kobe	2·8	212	e 0 50	+10	1 17	+ 5	(1·3)	1·3
Sumoto	3·2	213	e 0 45	− 1	e 1 28	+ 6	—	1·6

No additional readings.

July 30d. Readings also at 0h. (Samarkand and near Tashkent), 2h. (Hong Kong and Manila), 3h. (near Tacubaya), 9h. (Batavia and Malabar), 12h. (Baku, Ekaterinburg, Tashkent, Irkutsk, Graz, and near Zagreb), 13h. (Venice), 14h. (Taihoku and near Ksara), 15h. (near Santiago), 17h. (Taihoku), 18h. (Port au Prince, La Paz, and near Balboa Heights), 22h. (Benevento, Casamicciola, Naples, Rocca di Papa, and Florissant), 23h. (near Manila).

July 31d. 0h. 7m. 30s. Epicentre 37°·6N. 72°·6E. (as on 1929 March 13d.). R.3.

A = +·237, B = +·756, C = +·610 ; D = +·954, E = −·299 ;
G = +·182, H = +·582, K = −·792.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	3·2	357	0 40	− 6	(i 1 5)	−17	i 1·1	1·9
Samarkand	4·8	297	1 37	P_g	—	—	2·9	3·4
Almata	6·6	29	1 29	− 5	(i 2 38)	−10	i 2·6	2·7
Baku	17·8	286	—	—	e 7 49	+29	—	—
Ekaterinburg	20·8	341	i 4 38	0	i 8 22	0	i 10·3	11·9
Kucino	29·4	319	—	—	e 11 24	+29	e 15·8	—
Pulkovo	34·7	323	e 6 51	+ 5	e 12 29	+12	16·5	20·7

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

July 31d. 5h. 24m. 25s. Epicentre 41°·1N. 15°·4E. (as on 25d.). X.

A = +·726, B = +·200, C = +·657.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Benevento	0·8	272	−i 0 15	−26	—	—	—	0·1
Naples	0·9	253	e 0 20	+ 7	—	—	—	—
Casamicciola	1·2	253	0 13	− 4	—	—	—	—
Trenta	2·0	159	—	—	e 0 55	+ 4	—	—
Rocca di Papa	2·1	288	i 0 14	−16	i 0 55	+ 1	—	1·2
Zagreb	4·7	5	e 0 49	−18	e 2 5	+ 5	—	2·3
Piacenza	5·7	316	—	—	e 2 35	+10	—	5·8

Additional readings :—
Rocca di Papa i = +23s.
Zagreb eNE = +59s.
Long waves were also recorded at Budapest, Copenhagen, De Bilt, and Stuttgart.

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July 31d. Readings also at 0h. (La Paz), 1h. (Graz), 3h. (La Paz and near Santiago (3)), 4h. (Rocca di Papa), 5h. (Taranto, near La Paz, and near Sumoto), 6h. (Benevento, Casamicciola, Naples, and Rocca di Papa), 12h. (Ekaterinburg, Pulkovo, and La Paz), 19h. (near Sumoto), 20h. (near Toyooka), 21h. (Ekaterinburg and Irkutsk), 22h. (Baku and Florence).

Aug. 1d. Readings at 0h. (Ekaterinburg, Pulkovo, Irkutsk, Kucino, Tashkent, Baku, Florence, Copenhagen, Granada, Stuttgart, De Bilt, Uccle, Kew, Phu-Lien, La Paz, Nagasaki, Zi-ka-wei, Hong Kong, and near Tacubaya), 1h. (Graz), 4h. (near Santiago), 5h. (near Tacubaya), 6h. (La Paz), 7h. (Honolulu T.H., Andijan, Florissant, Georgetown, Tucson, La Paz, Tacubaya, and Ekaterinburg), 8h. (De Bilt, Strasbourg, Paris, Baku, Tashkent, Pulkovo, Irkutsk, and Vladivostok), 11h. (Alicante and Zagreb), 21h. (Riverview, Sydney, Ekaterinburg, Tashkent, Florissant, and La Paz), 22h. (Baku, De Bilt, Strasbourg, and Granada).

Aug. 2d. 16h. 6m. 9s. Epicentre 58°·0S. 135°·0W. N.3.

A = −·375, B = −·375, C = −·848 ; D = −·707, E = +·707 ; G = +·600, H = +·600, K = −·530.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Christchurch		35·0	273	e 6 43	− 6	i 12 37	+16	—	17·0
Wellington		35·4	277	e 7 51?	+58	12 41	+14	15·4	16·8
Santiago		48·8	87	—	—	(19 51?)	?	19·8	—
Suva		52·4	300	e 11 51?	?	14 51?	?	21·8	—
Riverview		53·5	266	e 9 18	0	e 17 14	+25	e 24·2	29·4
Sydney		53·5	266	—	—	i 16 57	+ 8	26·8	30·9
Melbourne		53·7	258	—	—	i 17 23	+31	26·9	29·2
La Plata		54·4	100	9 28	+ 4	17 4	+ 3	23·2	—
Adelaide		59·1	255	e 12 39	PP	i 18 36	+32	29·4	33·6
Sucre		63·3	84	9 26	−61	—	—	—	—
La Paz	E.	63·9	79	10 30	− 1	i 18 58	− 8	29·8	38·3
Rio de Janeiro	E.	71·7	103	e 11 21	0	e 20 41	0	e 33·8	35·2
Honolulu T.H.		81·5	339	—	—	e 22 31	− 1	33·8	—
Cape Town		85·5	159	i 23 45	S	(i 23 45)	+32	41·8	50·0
Tucson		92·2	20	12 59	− 9	e 23 38	[− 8]	e 37·4	—
Victoria		106·8	8	25 35	SKKS	(25 35)	{− 9}	42·8	51·5
Manila		109·8	267	i 18 17	[0]	i 24 11	[−61]	i 29·4	32·1
Toronto	N.	111·6	39	—	—	e 24 59	[−21]	48·4	—
Ottawa		114·4	41	e 25 13	SKS	(e 25 13)	[−18]	48·8	—
Sitka		115·0	0	—	—	(e 28 31)	?	i 51·2	—
Hong Kong		119·8	265	30 8	PS	36 51	SS	—	64·4
Vladivostok		126·9	295	—	—	e 26 3	[− 7]	66·2	—
Bombay		135·9	220	—	—	e 51 34	?	—	78·0
Granada		142·4	99	e 22 34	PP	—	—	e 57·8	71·2
Almeria		142·8	101	e 23 38	PKS	—	—	—	71·4
Algiers		145·4	107	(19 40)	[+ 5]	—	—	59·8	107 8
Irkutsk		146·8	285	e 19 39	[+ 2]	—	—	61·8	86 2
Tortosa	N.	147·2	109	19 43	[+ 6]	—	—	e 57·8	108·9
Scoresby Sund		150·3	38	19 40	[− 2]	—	—	71·8	—
Oxford		153·2	83	e 20 33	[+47]	—	—	e 75·6	80·4
Kew		153·6	84	e 16 51?	?	—	—	e 72·8	—
Paris		153·6	92	e 19 56	[+ 9]	—	—	73·8	78·8
Rocca di Papa		154·0	114	e 19 55	[+ 8]	—	—	—	—
Florence		154·8	110	19 33	[−15]	24 3	PP	78·8	85·8
Piacenza		154·9	105	19 7	[−41]	—	—	—	82·8

Continued on next page.

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		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara		155·1	162	e 20 7	[+19]	e 24 10	PP	—	—
Uccle		155·7	89	e 19 52	[+ 3]	e 23 21	PP	e 71·8	—
Strasbourg		156·2	97	(e 19 44)	[− 5]	(e 30 53)	{− 4}	(77·8)	—
Venice		156·6	108	19 2	[−48]	—	—	—	—
De Bilt		156·8	87	e 19 51	[+ 1]	—	—	e 77·8	101·2
Stuttgart		157·0	98	e 19 54	[+ 4]	—	—	e 69·8	80·8
Tashkent		157·3	233	20 53	{+21}	—	—	e 63·8	102·4
Feldberg	N.	157·5	94	e 19 51	[0]	i 26 15	?	e 70·6	—
Zagreb		158·6	112	e 20 31	{ − 7}	e 24 6	PP	—	—
Cheb		159·5	99	—	—	e 30 51?	{−25}	e 77·8	84·8
Hamburg		160·1	88	e 20 45	{ 0}	—	—	e 78·8	87·8
Budapest		161·3	113	e 20 51?	{ + 1}	e 24 31	PP	e 86·4	—
Baku		162·1	189	20 8	[+12]	—	—	71·8	90·8
Copenhagen		162·2	83	20 3	[+ 7]	—	—	71·8	—
Lund		162 6	84	—	—	24 27	PP	83·8	—
Ekaterinburg		171·5	269	20 13	[+ 8]	31 16	{−63}	69·8	96·4
Pulkovo		172·2	71	20 1	[− 4]	e 31 53	{−30}	69·8	93·8
Kucino		175·5	116	20 16	[+ 9]	e 32 24	{−16}	e 64·0	88·6

Additional readings and notes :—
Riverview iZ = +9m.32s., i = +17m.32s.
Melbourne i = +23m.31s. and +26m.9s.
Adelaide, e = +22m.23s. and +25m.56s.
La Paz iE = +11m.9s. =P_cP +0s., PPPE = +14m.30s., PSE = +19m.56s., iE = +25m.24s. =SSS −13s.
Cape Town S = +29m.36s.
Tucson e = +16m.43s. =PP +0s. and +17m.56s.
Manila PPZ = +19m.41s., PPPPE = +20m.17s.
Toronto iN = +34m.14s. =SS −26s.
Ottawa eS = +34m.32s. =SS −46s.
Sitka ePS = +34m.7s.
Vladivostok e = +37m.56s. =SS −5s.
Granada i = +22m.37s. =PP +1s., +24m.30s., +25m.12s. =PPP = −25s., and +40m.50s. =SS −21s.
Almeria e = +24m.29s.
Algiers gives PKP as PP.
Strasbourg eSKP = +23m.36s., ePP = +23m.55s., PSKP = +34m.35s.
De Bilt iZ = +23m.55s. =PP −4s., eE = +30m.47s. =SKKS −14s.
Stuttgart eE =iZ = +20m.22s., PKP_3 −9, +23m.59s. =PKS +25s., +24m.31s. = PP +31s., eE = +30m.47s. =SKKS −15s., eZ =iN = +43m.57s. =SS −2s., eZ = +44m.56s., eN = +49m.51s.? =SSS +12s., eE = +55m.21s.
Tashkent e = +27m.52s. =PPP +23s., +31m.0s. =SKKS −4s., and +44m.15s. = SS +13s.
Feldberg iN = +20m.36s. =PKP_3 +3s.
Baku e = +24m.50s. =PP +23s., +28m.50s. =PPP +45s., +37m.54s., and +45m.30s.
Copenhagen eEZ = +24m.21s. =PP −6s., and +24m.45s., eE = +31m.15s. = SKKS −15s., and +34m.45s. =SKSP −12s.
Ekaterinburg PP = +25m.10s., SKSP = +35m.35s., SS = +46m.12s.
Pulkovo e = +25m.1s. =PP −16s. and +30m.5s., i = +36m.3s. =SKSP +9s., e = +39m.15s. and +46m.1s. =SS −36s.
Kucino e = +36m.3s. =SKSP −8s., SS = +46m.39s.
Long waves were also recorded at Perth, Colombo, Tananarive, Chicago, Florissant, Ivigtut, Gottingen, Stonyhurst, Toledo, and Alicante.

Aug. 2d. Readings also at 2h. (La Paz), 3h. (Baku, Ekaterinburg, Pulkovo, Samarkand, Tashkent, Simferopol, Theodosia, Yalta, Copenhagen, Vienna, De Bilt, Tucson, and La Paz), 4h. (Samarkand), 11h. (Andijan and Samarkand), 14h. (Andijan), 15h. (Almata, Irkutsk, Ekaterinburg, and Vladivostok), 16h. (Strasbourg), 17h. (near La Paz and near Toyooka), 18h. (La Paz and near Tacubaya), 19h. (Ekaterinburg), 20h. (Tashkent), 21h. (near Tacubaya), 22h. (Adelaide, Melbourne, Riverview, Ekaterinburg, Pulkovo, Wellington, Christchurch, and Florissant), 23h. (Baku, Tashkent, Copenhagen, and De Bilt).

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Aug. 3d. 22h. 5m. 51s. Epicentre 37°·3N. 44°·8E. (as on 1930 May 8d.). R.2.

A = +·564, B = +·561, C = +·606; D = +·705, E = −·710; G = +·430, H = +·427, K = −·795.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Baku		5·0	51	1 17	+ 6	i 2 22	+14	—	4·8
Ksara	E.	8·1	247	2 10	+15	4 10	+44	—	—
Theodosia		10·5	320	e 2 26	− 2	—	—	—	—
Yalta		10·8	315	e 2 32	0	—	—	—	—
Simferopol		11·1	317	e 2 35	− 1	—	—	—	—
Sebastopol		11·2	314	e 2 36	− 1	—	—	—	—
Samarkand		17·5	75	e 4 9?	+ 9	—	—	—	—
Kucino		19·0	348	e 4 18	− 1	7 44	− 2	10·0	—
Tashkent		19·3	71	i 4 27	+ 5	i 8 11	+19	i 11·8	17·4
Budapest		21·4	306	e 4 49	+ 5	—	—	12·2	—
Andijan		21·6	72	e 5 3	+17	—	—	—	—
Ekaterinburg		22·2	24	i 4 52	− 1	i 8 48	− 2	11·2	13·2
Pulkovo		24·3	342	i 5 11	− 2	9 25	− 3	12·2	14·8
Almata		25·0	66	e 5 33	+13	—	—	—	—
Rocca di Papa		25·0	290	e 5 27	+ 7	—	—	e 14·2	16·6
Florence		26·1	295	5 38	+ 8	—	—	—	14·2
Helsingfors		26·1	337	e 5 24	− 6	e 9 46	−14	—	—
Cheb		26·4	309	—	—	i 10 4	− 1	e 16·2	18·2
Piacenza		27·3	298	e 6 41	+60	—	—	—	19·2
Chur		27·6	302	e 5 44	0	—	—	—	—
Lund		28·1	321	6 9?	+21	—	—	—	—
Stuttgart		28·2	305	—	—	e 10 57	+22	—	17·4
Zurich		28·3	302	e 5 50	0	—	—	—	—
Copenhagen		28·5	321	5 50	− 2	—	—	24·2	—
Hamburg		28·9	315	—	—	e 11 9?	+22	—	—

Rocca di Papa gives iP = +5m.51s. =PP +1s.
Long waves were also recorded at European stations.

Aug. 3d. Readings also at 0h. (Baku, Ekaterinburg, Tashkent, and near Sumoto), 1h. (Ekaterinburg, Pulkovo, Tashkent, Calcutta, Bombay, and Florissant), 2h. (Copenhagen and Tucson), 4h. (Stonyhurst, Sitka, and Tucson), 5h. (Ksara), 7h. (near Rocca di Papa), 9h. (Andijan and Samarkand), 11h. (Ksara, Zagreb, near Benevento, Casamicciola, Naples, Rocca di Papa (2), and Taranto), 12h. (Zagreb, Benevento, Casamicciola, Naples, Rocca di Papa, Taranto, and Trenta), 13h. (Wellington and near Ksara), 14h. (Ekaterinburg and Vladivostok), 15h. (Tashkent), 19h. (near Rocca di Papa), 21h. (near Lick), 22h. (near Ksara, near Sumoto, and near Tacubaya), 23h. (Florissant, La Paz, and near Sumoto).

Aug. 4d. 5h. 4m. 38s. Epicentre **8°·0S. 68°·0W.** N.1.

A = +·371, B = −·918, C = −·139; D = −·927, E = −·375; G = −·052, H = +·129, K = −·990.

A *depth* of focus 0·080 has been assumed.

		Corr. for Focus	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	°	m. s.	s.	m. s.	s.	m.	m.
La Paz	E.	−0·3	8·5	181	i 1 56	0	i 3 30	+ 1	i 3·9	5·1
Sucre		−1·2	11·3	167	2 25	+ 3	—	—	—	—
Port au Prince		−4·3	26·9	351	e 5 6	+ 9	i 9 1	+ 4	—	9·9
Rio de Janeiro		−4·6	28·1	125	e 4 34	−31	e 9 12	− 2	e 12·1	—
La Plata		−4·6	28·4	163	4 56	−12	—	—	—	—
Tacubaya		−6·1	41·2	313	6 48	− 2	12 12	−11	—	—
Georgetown		−6·9	47·6	351	i 7 41	+ 3	i 13 54	+ 7	20·4	—
Fordham		−7·1	49·1	355	i 7 56	+ 7	i 14 20	+14	e 20·7	—
St. Louis	E.	−7·3	51·0	338	e 8 0	− 2	i 14 28	− 3	—	—
Florissant		−7·3	51·2	338	i 8 1	− 3	i 14 31	− 3	—	—

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.
Ann Arbor		−7·4	52·3	347	e 8 10	− 2	i 14 52	+ 3	—	—
Toronto	N.	−7·4	52·6	350	i 8 18	+ 4	i 14 51	− 3	—	—
Tucson		−7·7	57·3	318	8 42	− 6	15 48	− 7	—	—
Lick		−8·3	67·5	317	9 49	−10	e 17 55	−10	—	—
Berkeley	E.	−8·4	68·2	317	9 49	−14	e 18 1	−12	—	—
Ivigtut		−8·5	70·9	10	i 10 20	− 1	i 18 52	+ 5	—	—
Victoria		−8·8	74·3	325	e 10 27?	−15	(19 12)	−14	19·2	23·0
Malaga		−8·8	74·3	47	10 45	+ 3	19 43	+17	25·4	—
Granada		−8·8	75·1	47	10 55	+ 8	i 19 57	+21	e 23·4	24·4
Toledo		−8·8	75·8	45	10 55	+ 3	i 20 2	+17	e 32·3	—
Almeria		−8·9	75·9	47	10 56	+ 4	i 20 0	+15	—	—
Alicante		−9·0	77·8	47	e 13 25	PP	i 20 25	+18	e 26·4	—
Tortosa	E.	−9·2	79·4	45	e 11 7	− 5	20 35	+11	—	—
	N.	−9·2	79·4	45	e 11 14	+ 2	20 40	+16	—	—
Algiers		−9·2	80·0	50	11 17	+ 1	20 39	+ 8	34·4	39·4
Oxford		−9·3	82·4	35	i 11 27	− 2	i 20 47	−11	—	—
Stonyhurst		−9·3	82·6	33	13 44	PP	20 49	−11	—	—
Kew		−9·3	82·8	35	e 11 29	− 3	e 20 51	−12	23·4	—
Edinburgh		−9·3	83·1	30	e 13 44	PP	i 20 50	−16	—	—
Durham		−9·3	83·3	31	—	—	i 21 5	− 3	—	—
Paris		−9·3	83·5	39	i 13 49	PP	e 21 15	+ 4	22·4	27·4
Scoresby Sund		−9·4	84·4	14	11 33	− 7	21 15	− 5	—	—
Besançon		−9·4	85·2	41	e 13 58	PP	e 21 7	−22	—	—
Uccle		−9·4	85·3	37	e 11 40	− 5	i 21 7	−23	—	—
Neuchatel		−9·4	85·8	41	e 11 43	− 5	e 21 8	−28	—	—
De Bilt		−9·5	86·2	36	i 11 46	− 4	e 21 38	− 1	—	—
Strasbourg		−9·5	86·7	40	e 11 48	− 5	21 18	−27	30·4	—
Zurich		−9·5	86·9	42	e 11 49	− 5	e 21 44	− 3	—	—
Piacenza		−9·5	87·0	43	e 14 2	PP	21 19	−29	—	—
Chur		−9·5	87·4	42	e 11 51	− 6	e 21 22	−31	—	—
Feldberg	N.	−9·6	87·6	38	i 11 53	− 4	i 21 47	− 7	—	27·3
Stuttgart		−9·6	87·7	40	e 11 53	− 5	i 21 20	−35	—	—
Florence		−9·6	87·9	46	e 11 50	− 9	21 52	− 5	26·4	39·4
Rocca di Papa		−9·6	88·4	48	e 11 57	− 4	21 27	−36	e 28·0	—
Innsbruck		−9·7	89·0	41	12 22?	+18	—	—	—	—
Catania		−9·7	89·4	51	—	—	21 34	?	e 75·1	—
Naples	N.	−9·7	89·4	49	e 13 22	?	e 20 22	?	—	—
Jena	E.	−9·7	89·7	38	—	—	e 21 22	?	—	—
Cheb		−9·7	90·1	39	e 14 22?	?	i 21 37	?	—	—
Copenhagen		−9·7	91·2	34	12 9	− 7	22 22	−10	e 34·8	—
Lund		−9·7	91·7	34	14 28	?	21 45	?	—	—
Vienna	Z.	−9·7	92·3	41	e 12 15	− 6	—	—	—	—
Budapest		−9·8	94·5	42	e 14 22?	?	i 21 53	?	—	—
Upsala		−9·8	94·7	30	—	—	e 21 54	?	—	—
Helsingfors	N.	−9·9	98·4	30	—	—	i 23 13	−29	—	—
Pulkovo		−9·9	101·3	30	12 56	− 8	23 44	−25	—	—
Kucino		−9·9	105·6	34	—	—	e 23 46	−62	—	—
Baku		—	116·3	46	e 19 20	PP	e 23 37	?	e 43·4	—
Ekaterinburg		—	117·1	29	e 17 38	[−60]	e 25 0	[−41]	—	—
Samarkand		—	128·9	43	e 18 2	[−63]	—	—	—	—
Tashkent		—	129·7	40	i 20 30	PP	—	—	e 38·4	49·6
Andijan		—	132·1	40	e 18 15	[−55]	—	—	—	—
Almata		—	133·3	35	e 18 10	[−62]	—	—	—	—
Irkutsk		—	135·3	5	e 18 22?	[−53]	—	—	—	—
Vladivostok		—	140·8	336	i 18 14	[−69]	—	—	24·4	—
Nagoya		—	144·5	323	e 18 25	[−68]	—	—	—	—
Osaka		—	145·7	324	18 25	[−70]	—	—	—	—
Kobe		—	145·9	324	i 18 22?	[−74]	—	—	—	—
Sumoto		—	146·3	324	18 27	[−69]	—	—	—	—
Koti		—	147·6	323	e 18 32	[−66]	—	—	—	—
Phu-Lien		—	166·2	22	—	—	29 22?	?	—	—
Manila		—	169·0	308	i 18 54	[−69]	i 23 58	?	—	—

For Notes see next page.

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NOTES TO AUG. 4d. 5h. 4m. 38s.

Additional readings :—
La Paz iE = +2m.3s.
Georgetown eE = +10m.39s., iN = +10m.42s., iZ = +10m.44s., eN = +12m.21s., eZ = +12m.24s.
St. Louis iPE = +8m.7s., iE = +8m.13s., +8m.19s., and +16m.46s. = SS −40s.
Florissant iZ = +9m.7s., e = +10m.2s., iZ = +11m.3s.
Ann Arbor e?E = +8m.16s., eN = +10m.28s., e?E = +12m.58s., eN = +18m.22s., e?E = +35m.4s., eN = +35m.16s., eE = +36m.52s.
Toronto iN = +11m.19s.
Tucson e = +10m.46s. = PP +10s., and +19m.27s. = SS +12.
Lick eE = +9m.59s., eN = +10m.2s., eE = +10m.10s., eN = +10m.31s., and +17m.53s.
Berkeley eN = +9m.53s. and +17m.57s.
Ivigtut +23m.22s. ?
Granada iP = +13m.1s. = PP −5s., PP = +14m.7s. = PPP −28s.
Toledo PP = +13m.4s.
Almeria PP = +13m.7s., i = +20m.54s.
Algiers PP = +13m.32s.
Stonyhurst SS = +21m.2s.
Kew eZ = +13m.44s. = PP −25s., iEN = +21m.4s., eNZ = +22m.11s.
Edinburgh i = +21m.6s.
Durham +25m.2s. = SS −41s.
Scoresby Sund +13m.47s.
Uccle iPP = +13m.56s., PPP = +15m.1s.
De Bilt iZ = +14m.1s. = PP −35s., eZ = +15m.4s., and +18m.28s., eE = +21m.13s.
Zurich e = +14m.5s. = PP −37s.
Feldberg iN = +12m.30s. and +21m.25s.
Stuttgart iE = +14m.8s. = PP −40s., i = +21m.49s., iE = +23m.6s. = [S] −12s., iSS = +25m.44s.
Florence PP = +14m.17s.
Rocca di Papa i = +14m.14s. = PP −40s.
Copenhagen pPEZ = +14m.25s., eEZ = +19m.6s., S = +21m.40s., eEZ = +23m.40s., sSE = +26m.4s., eEN = +26m.28s., eN = +29m.5s. and +30m.58s., eE = +32m.34s.
Lund +22m.26s. and +26m.34s.
Upsala e = +22m.47s.
Helsingfors iE = +22m.7s.
Pulkovo SKS = +23m.10s., SS = +30m.28s.
Kucino e = +15m.39s., +19m.48s., +20m.58s., and +31m.53s.
Baku e = +31m.46s.
Ekaterinburg e = +19m.2s., i = +21m.9s., e = +22m.17s., i = +27m.59s.
Tashkent i = +21m.33s. and +23m.53s.
Irkutsk e = +21m.22s. ? and +24m.22s. ?
Vladivostok e = +20m.45s. and +21m.29s., i = +21m.58s.
Manila iE = +25m.23s.

Aug. 4d. 12h. 20m. 30s. Epicentre 40°·5N. 43°·8E. N.3.

A = +·549, B = +·526, C = +·649 ; D = +·692, E = −·722 ;
G = +·469, H = +·450, K = −·760.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Baku	4·7	90	e 1 20	P*	—	—	2·8	—
Theodosia	7·6	308	e 1 52	+ 4	—	—	—	—
Yalta	8·1	303	e 1 54	− 1	—	—	—	—
Simferopol	8·4	305	e 2 2	+ 3	—	—	—	—
Sebastopol	8·6	302	—	—	e 3 29	−10	—	—
Ksara	9·1	226	—	—	5 20	S_g	6·6	—
Tashkent	19·2	79	4 24	+ 3	i 7 36	−14	e 10·3	11·5
Ekaterinburg	19·7	28	i 4 18	− 8	8 2	+ 2	10·5	—
Pulkovo	21·0	341	4 41	+ 1	8 27	+ 1	10·5	12·7
Copenhagen	25·5	317	—	—	(9 30?)	−20	9·5	—

Ekaterinburg gives also i = +4m.27s.

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Aug. 4d. 15h. 2m. 33s. Epicentre 42°·4N. 11°·1E. (as on 1921 July 5d.). X.

A = +·725, B = +·142, C = +·674.

	Δ		P.	O−C.	S.	O−C.	L.	M.
	°		m. s.	s.	m. s.	s.	m.	m.
Rocca di Papa	1·3		0 16	− 2	0 35	+ 2	—	0·9
Florence	1·4	e	0 29	P*	—	—	i 0·8	1·2
Padova	3·1	e	0 59	P_g	1 23	+ 3	—	—
Chur	4·6	e	1 2	− 4	e 1 54	− 4	—	—
Zagreb	4·9		0 54	−16	i 1 32	−33	—	—
Zurich	5·3	e	1 14	− 1	—	—	—	—

Additional readings :—
Zagreb iNW = +1m.44s.
Long waves were also recorded at Piacenza and Stuttgart.

Aug. 4d. Readings also at 5h. (La Plata and Neuchatel), 8h. (Almata, near Andijan, and Samarkand), 10h. (Florissant, Tucson, La Paz, near Guadalajara, Manzanillo, Tacubaya, and near Rocca di Papa), 14h. (Ksara), 15h. (Rio de Janeiro, Wellington, Ekaterinburg, Feldberg, Vienna, and Taranto), 16h. (Baku, Kucino, Copenhagen, Kew, Granada, Taranto, near Kobe, and Sumoto), 18h. (near Mizusawa).

Aug. 5d. 0h. 11m. 0s. Epicentre 38°·5N. 128°·5W. (as on 1915 May 6d.). R.3.

A = −·487, B = −·612, C = +·623 ; D = −·783, E = +·623 ;
G = −·388, H = −·487, K = −·783.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Berkeley		4·9	95	i 1 16	+ 6	i 2 8	+ 3	—	—
Victoria	E.	10·6	19	—	—	(4 1)	−27	4·0	7·2
Tucson		15·7	108	3 49	+11	e 6 48	+17	e 8·3	—
Sitka		19·1	349	e 4 23	+ 3	—	—	i 9·0	—
Florissant		29·6	77	e 6 2	+ 1	e 10 59	+ 1	e 14·5	16·4
St. Louis		29·9	76	e 6 3	− 1	e 11 0	− 3	14·8	15·7
Chicago		31·1	71	—	—	e 11 50	+29	e 16·1	—
Ann Arbor	N.	33·9	69	—	—	e 14 48	?	e 17·7	—

Additional readings :—
Berkeley iN = +1m.27s., iE = +1m.51s., eN = +2m.49s., iE = +3m.11s.
Victoria PEN 0h.7m.19s.
St. Louis eN = +6m.9s., +13m.44s., and +14m.11s.
Chicago e = +14m.13s. and +18m.30s.
Long waves were also recorded at Honolulu T.H., Baku, and European stations.

Aug. 5d. 0h. 22m. 55s. Epicentre 41°·1N. 15°·4E. (as on July 31d.). X.

A = +·726, B = +·200, C = +·657 ; D = +·266, E = −·964 ;
G = +·634, H = +·175, K = −·754.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Benevento		0·8	272	−i 0 2	−13	—	—	—	0·3
Naples	N.	0·9	253	e 0 10	− 3	e 0 13	−10	—	—
Bari		1·1	88	0 20	+ 4	0 45	+17	—	0·8
Casamicciola		1·2	253	−0 5	−22	0 4	−27	—	0·5
Taranto		1·6	114	1 22	+59	1 40	+59	—	1·7
Trenta		2·0	159	e 0 25	− 4	0 50	− 1	—	—
Rocca di Papa		2·1	288	e 0 33	+ 3	1 16	+22	—	1·6
Florence		4·1	313	—	—	e 2 5	S*	—	3·1
Zagreb		4·7	5	e 1 26	P*	e 2 12	S*	—	2·9
Piacenza		5·7	316	—	—	3 5	S_g	—	6·1
Budapest		6·9	21	—	—	e 3 45	S_g	—	—
Vienna	Z.	7·2	6	e 3 6	S	(e 3 6)	+ 2	—	—
Feldberg	N.	10·3	334	e 0 41	?	—	—	e 6·1	—
Ekaterinburg		32·8	45	—	—	e 11 8	−40	23·1	—

Additional readings :—
Rocca di Papa eP = +36s. = P*.
Long waves were also recorded at other European stations.

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Aug. 5d. 23h. 23m. 0s. Epicentre 34°·0N. 27°·0E. N.3.

A = +·739, B = +·376, C = +·559; D = +·454, E = −·891; G = +·498, H = +·254, K = −·829.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara		7·4	89	e 1 54	+ 9	3 12	+ 3	3·3	—
Trenta		10·0	305	e 2 10	−11	4 10	− 3	—	—
Taranto		10·1	313	3 30	?	—	—	—	4·1
Catania		10·2	294	e 3 28	?	—	—	—	4·7
Mineo		10·5	292	1 42	−46	—	—	—	—
Sebastopol		11·8	23	e 2 39	− 7	—	—	—	—
Yalta		11·9	26	e 2 43	− 4	—	—	—	—
Belgrade		11·9	337	e 2 45	− 2	e 5 48	+48	—	8·1
Simferopol		12·2	24	e 2 48	− 3	—	—	—	—
Theodosia		12·8	28	e 3 0	+ 1	—	—	—	—
Rocca di Papa		13·6	309	e 3 46	+36	5 31	−10	—	6·4
Zagreb		14·5	328	3 29	+ 7	e 6 17	+14	—	6·8
Florence		15·6	314	—	—	e 6 30	+ 1	—	8·0
Vienna	Z.	16·3	334	e 3 46	+ 1	—	—	—	—
Piacenza		17·3	315	e 4 0	+ 2	8 8	+59	—	14·0
Chur		18·4	319	e 4 12	+ 1	e 7 46	+13	—	—
Zurich		19·2	320	e 4 21	0	—	—	—	—
Baku		19·3	64	e 4 28	+ 6	e 7 59	+ 7	10·5	12·0
Cheb		19·3	331	e 4 0?	−22	—	—	—	11·0
Stuttgart		19·8	323	e 4 45	+18	—	—	—	12·8
Neuchatel		19·9	316	e 4 27	− 2	e 8 2	− 2	—	—
Strasbourg		20·4	321	e 4 33	− 1	e 8 22	+ 8	10·0	—
Feldberg	N.	21·1	325	i 4 39	− 2	e 8 24	− 4	—	11·7
Kucino		23·0	16	e 6 11	+70	e 10 0	+55	e 11·5	15·3
Paris		23·4	317	e 5 0?	− 5	—	—	13·0	—
Uccle		23·5	322	e 5 5	0	—	—	—	—
Copenhagen		23·9	339	—	—	9 15	− 6	13·0	—
De Bilt		24·2	326	—	—	e 10 0	SS	e 12·0	15·7
Granada		24·9	286	—	—	e 10 48	SS	—	15·5
Pulkovo		25·9	4	5 26	− 2	9 44	−13	13·0	14·8
Kew		26·3	320	—	—	e 10 0?	− 3	—	—
Ekaterinburg		32·3	35	e 6 34	+ 9	—	—	15·0	—

Additional readings :—
Belgrade e = +6m.38s.
Zagreb eE = +5m.46s.
Feldberg eN = +3m.54s., iN = +4m.44s.
Long waves were also recorded at Gottingen, Lund, Scoresby Sund, and Hamburg.

Aug. 5d. Readings also at 0h. (Pulkovo and near La Paz), 1h. (Strasbourg, Almata, and near Andijan), 3h. (Nagasaki), 4h. (Taihoku), 5h. (near Taranto), 8h. (near Algiers), 10h. (Bombay), 11h. (Florissant and Tucson), 13h. (near Sumoto), 17h. (La Paz (2)), 20h. (Chur, Neuchatel, Zurich, and near Manila).

Aug. 6d. 7h. 28m. 30s. Epicentre 25°·5N. 98°·0E. (as on 1930 June 5d.). X.

A = −·126, B = +·894, C = +·431; D = +·990, E = +·139; G = −·060, H = +·426, K = −·903.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien		9·2	119	—	—	3 30?	−24	—	—
Hong Kong		15·1	99	—	—	6 5	− 8	8·1	9·1
Zi-ka-wei	Z.	21·3	69	e 4 34	− 9	—	—	i 12·5	15·3
Manila	E.	24·1	112	e 3 41	−90	—	—	—	—
Bombay		24·2	259	9 57	S	(9 57)	+30	(13·1)	19·5
Almata		24·7	321	e 5 18	+ 1	—	—	—	—
Irkutsk		27·2	8	e 5 40	0	e 10 26	+ 8	14·5	16·2
Ekaterinburg		41·1	330	e 7 40	− 1	13 54	+ 1	20·5	—

For Notes see next page.

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NOTES TO AUG. 6d. 7h. 28m. 30s.

Additional readings and note :—
Hong Kong e = +7m.38s.
Bombay gives S as P and L as S.
Ekaterinburg e = +16m.55s.
Long waves were also recorded at Calcutta, Taihoku, Vladivostok, Baku, Pulkovo, Copenhagen, and Cheb.

Aug. 6d. Readings also at 0h. (Budapest), 2h. (Matuyama), 3h. (Alicante, near Almeria, Granada, Malaga, and near Taihoku), 4h. (Baku, Ekaterinburg, Ksara, and near Tyosi), 5h. (Toledo), 6h. (near Toyooka), 7h. (near Medan), 11h. (Tyosi), 13h. (Sumoto), 15h. (Nagoya), 18h. (near Tyosi), 20h. (near La Paz), 21h. (Nagoya, near Osaka, Kobe, and Sumoto), 22h. (Tyosi and near Rocca di Papa), 23h. (Nagoya and near Tyosi).

Aug. 7d. 23h. 47m. 41s. Epicentre 23°·2N. 120°·6E. (as on 1929 Oct. 22d.). R.2.

A = −·468, B = +·791, C = +·394 ; D = +·861, E = +·509 ;
G = −·201, H = +·339, K = −·919.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Hokoto		1·0	289	0 9	− 5	0 29	+ 3	—	—
Taihoku	E.	2·0	25	0 26	− 3	0 36	−15	0·9	1·3
Hong Kong		6·0	262	1 28	+ 3	2 58	+25	3·4	4·4
Zi-ka-wei	N.	8·0	5	e 2 17	+24	i 5 29	?	—	—
Manila		8·6	178	i 2 3	+ 1	i 3 42	+ 3	—	—
Phu-Lien		13·2	262	e 3 8	+ 3	—	—	8·6	8·8
Irkutsk		31·6	342	e 6 20	+ 1	e 11 24	− 5	17·3	20·3
Tashkent		46·3	308	i 8 21	− 2	i 15 14	+ 5	e 25·7	32·0
Baku		60·9	307	e 10 10	− 1	e 18 38	+10	33·8	—
Pulkovo		70·3	329	e 11 13	0	e 20 24	− 1	36·3	45·6
Feldberg	N.	85·4	324	—	—	e 28 16	SS	—	48·3
Rocca di Papa		87·1	315	—	—	e 25 6	?	e 41·6	55·5

Additional readings :—
Baku e = +23m.21s.
Rocca di Papa e = +29m.10s. =SS +12s.
Long waves were recorded at Scoresby Sund and many European stations.

Aug. 7d. Readings also at 0h. (La Paz, Ekaterinburg, Irkutsk, Tashkent, Hong Kong, Phu-Lien, Zi-ka-wei, near Manila, and Taihoku), 2h. (La Paz and Wellington), 4h. (Lick), 5h. (Honolulu T.H., Wellington, and near Santiago), 6h. (Baku, Florissant, Ekaterinburg, Tashkent, and near Manila), 7h. (near Tyosi), 8h. (La Paz), 9h. (Wellington), 10h. (near Lick), 11h. (near Taihoku), 12h. (near Rocca di Papa), 15h. (Taranto), 18h. (Benevento, Piacenza, Taranto, Trenta, and Rocca di Papa), 19h. (La Paz).

Aug. 8d. Readings at 0h. (near Taihoku), 2h. (La Paz), 3h. (Alicante, Granada, Tortosa, De Bilt, Edinburgh, Feldberg, Stuttgart, and Ekaterinburg), 6h. (Scoresby Sund), 7h. (Kobe, near Toyooka, and near Lick), 9h. (near Matuyama), 10h. (near Tashkent), 11h. (near Baku), 13h. (near Medan), 16h. (Andijan), 17h. (Barcelona, Toledo, near Almeria, Alicante, Granada, Tortosa, near Sumoto, and near Almeria), 22h. (Tucson), 23h. (Helsingfors and Irkutsk).

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Aug. 9d. 18h. 9m. 23s. Epicentre 33°·6N. 6°·2W. N.1.

Probable error of epicentre ±0°·25.

A = +·828, B = −·090, C = +·553; D = −·108, E = −·994; G = +·550, H = −·060, K = −·833.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
San Fernando		2·9	0	1 0	+19	1 32	+18	2·0	2·6
Malaga		3·5	24	0 43	− 7	1 33	+ 3	—	—
Granada		4·2	29	i 1 1	+ 1	i 1 42	− 6	—	2·4
Toledo		6·5	15	e 1 18	−14	e 2 29	−17	—	—
Alicante		6·6	42	e 1 33	− 1	e 2 50	+ 2	e 3·6	5·5
Algiers		8·2	64	e 1 58	+ 2	4 11	+42	4·8	5·3
Tortosa	N.	9·0	35	2 4	− 3	4 12	+23	4·8	5·9
Barcelona		10·3	37	e 2 17	− 8	e 4 50	+29	e 5·5	7·7
Paris		16·6	21	e 3 47	− 2	—	—	9·6	10·6
Neuchatel		16·7	32	e 3 40	−10	e 10 56	?	—	—
Florence		17·0	48	−0 23	?	2 37	?	—	6·6
Strasbourg		18·2	31	e 4 6	− 3	e 7 25	− 4	e 10·6	—
Kew		18·4	12	e 4 13	+ 2	—	—	9·6	—
Oxford		18·5	10	i 4 9	− 4	i 7 36	0	10·1	13·2
Karlsruhe		18·9	31	4 19	+ 2	—	—	e 12·3	—
Uccle		18·9	21	i 4 17	0	e 7 45	+ 1	e 9·6	—
Stuttgart		19·0	32	e 4 18	− 1	e 7 45	− 1	e 10·1	11·3
Innsbruck		19·1	39	e 4 19	− 1	—	—	—	—
Feldberg	N.	19·8	29	i 4 27	0	—	—	e 9·2	13·8
De Bilt		20·2	21	i 4 35	+ 3	e 8 13	+ 3	e 9·6	11·8
Stonyhurst		20·5	6	—	—	e 8 18	+ 2	—	12·6
Durham		21·4	7	4 47	+ 3	8 40	+ 6	e 11·9	14·3
Edinburgh		22·4	4	—	—	e 8 37?	−16	—	—
Vienna	Z.	22·4	42	4 53	− 2	—	—	—	—
Hamburg	N.	23·1	25	e 5 8	+ 6	e 13 5	L	(e 13·1)	25·9
Copenhagen		25·6	25	5 24	− 1	9 49	− 2	13·6	—
Lund		25·9	25	5 31	+ 3	—	—	13·6	—
Helsingfors	N.	33·4	28	e 7 25	PP	—	—	—	—
Pulkovo		35·4	31	e 7 20	+27	e 14 4	SS	16·6	24·1
Baku		44·6	64	—	—	e 17 51	SS	25·1	—
Ekaterinburg		50·1	40	i 8 56	+ 4	e 15 58	− 4	24·6	—
Tashkent		58·5	59	—	—	e 17 37?	−19	e 32·6	42·2
Florissant		65·6	304	—	—	e 22 2	?	—	38·1

Additional readings:—
Granada i = +1m.23s.
Toledo P_g = +1m.44s., S_g = +2m.59s.
De Bilt eN = +8m.22s. = SS − 9s.
Long waves were also recorded at Irkutsk, Scoresby Sund, Cheb, Gottingen, and Puy de Dôme.

Aug. 9d. 21h. 54m. 30s. Epicentre 33°·6N. 6°·2W. (as at 18h.). X.

A = +·828, B = −·090, C = +·553; D = −·108, E = −·994; G = +·550, H = −·060, K = −·833.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
San Fernando		2·9	0	(1 0)	+19	(1 35)	+21	(2·0)	(2·2)
Malaga		3·5	24	1 3	P*	1 54	S_g	—	—
Granada		4·2	29	i 0 56	− 4	i 1 34	−14	—	2·2
Almeria		4·5	42	e 0 55	− 9	i 1 40	−15	—	3·2
Toledo		6·5	15	e 1 33	+ 1	3 6	+20	—	—
Alicante		6·6	42	e 2 44	S	(e 2 44)	− 4	(e 3·6)	—
Algiers		8·2	64	(e 2 10)	+14	(3 15)	−14	(4·2)	—
Tortosa	N.	9·0	35	e 3 35	S	(e 3 35)	−14	—	5·8

Additional readings and notes:—
San Fernando readings have been *diminished* by 3m.
Granada iZ = +1m.2s., i = +1m.10s., +1m.23s. = P_g, and +1m.28s.
Almeria P_g = +1m.0s., SS = +1m.46s., SSS = +1m.57s.
Toledo eS? = +3m.16s.
Alicante gives S as P and L as eS.
Algiers readings have been *diminished* by 2m.
Long waves were also record at the European stations.

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Aug. 9d. 22h. 41m. 9s. Epicentre 39°·2N. 73°·6E. **N.3.**
(as given by Central Asia stations).

$A = +\cdot219$, $B = +\cdot743$, $C = +\cdot632$; $D = +\cdot959$, $E = -\cdot282$;
$G = +\cdot178$, $H = +\cdot606$, $K = -\cdot775$.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan	1·8	328	i 0 29	+ 3	—	—	i 0·9	2·6
Tashkent	3·9	304	i 0 53	− 3	—	—	i 1·9	2·4
Almata	4·8	30	1 10	+ 2	—	—	i 2·4	2·6
Samarkand	5·1	277	1 16	+ 3	—	—	i 2·6	4·2
Baku	18·2	282	e 4 11	+ 2	e 7 36	+ 7	9·8	—
Ekaterinburg	19·5	338	4 20	− 4	7 59	+ 3	i 10·2	12·6
Bombay	20·3	182	4 34	+ 1	8 34	+22	11·0	13·1
Hyderabad	22·2	168	5 23	+30	9 23	+33	12·6	14·0
Pulkovo	33·9	322	e 6 38	− 1	e 12 2	− 2	13·8	20·4
Helsingfors	36·5	321	e 7 25	+23	—	—	e 14·8	—
Copenhagen	42·9	313	—	—	17 9	SS	22·8	—
Strasbourg	46·9	304	—	—	e 17 51?	SS	e 28·8	—

Additional readings :—
Almata i = +1m.21s. =P*.
Samarkand i = +1m.32s. =P*.
Long waves were recorded at other European stations.

Aug. 9d. Readings also at 0h. (Pulkovo, Ekaterinburg, Tashkent, and Strasbourg), 3h. (near Mizusawa), 5h. (Medan), 7h. (near Tananarive), 9h. (Ekaterinburg, Tashkent, and Phu-Lien), 10h. (Granada), 14h. (Wellington), 15h. (De Bilt, Feldberg, and Ksara), 16h. (Florissant), 18h. (near Andijan), 19h. (Baku, Ekaterinburg, Tashkent, Irkutsk, Vladivostok, La Paz (2), Rio de Janeiro, and Florissant), 20h. (Scoresby Sund, Florissant, Granada, Florence, Strasbourg, Stuttgart, De Bilt, Uccle, Feldberg, Paris, Kew, Cheb, Copenhagen, Pulkovo, Ekaterinburg, and Baku), 21h. (Baku and Tashkent), 23h. (Melbourne, La Paz (2), and near Andijan (2)).

Aug. 10d. 13h. 10m. 54s. Epicentre 34°·5N. 137°·2E. (as on 1929 June 2d.). **X.**

$A = -\cdot605$, $B = +\cdot560$, $C = +\cdot566$.

The depth of focus 0·050 used on 1929 June 2d. is retained.

		Corr. for Focus	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya		+1·8	0·7	345	e 1 0	+24	(e 1 0)	− 4	—	—
Osaka		+1·6	1·4	276	0 44	+ 1	(1 8)	− 9	1·1	2·2
Kobe		+1·4	1·7	276	i 0 44	0	i 1 23	+ 3	—	1·4
Sumoto		+1·4	1·9	266	0 46	− 1	1 25	0	—	1·4
Tyosi		+0·9	3·3	67	e 1 4	+ 4	(1 51)	+3	1·9	—
Mizusawa	E.	+0·2	5·6	33	(1 38)	+16	1 38	P	—	—

No additional readings.

Aug. 10d. Readings also at 0h. (Baku, Tashkent, Irkutsk, Andijan (2), Kew, De Bilt, Uccle, Paris, Strasbourg, Stuttgart, Florence, Tortosa, Adelaide, Wellington, Granada, Scoresby Sund, and Florissant), 1h. (Ekaterinburg, Copenhagen, Feldberg, Stonyhurst, Tortosa, Almeria, and near Granada), 2h. (Baku, Ekaterinburg, Tashkent, De Bilt, and near Mizusawa), 3h. (near Lick), 6h. (Tashkent and near Calcutta), 7h. (Irkutsk), 8h. (Ekaterinburg, Tashkent, Taranto, near Andijan (2), Almata, and Samarkand), 11h. (Samarkand), 12h. (Almata, Tashkent (2), Samarkand, and Andijan), 15h. (near Almata and Andijan), 17h. (Taihoku), 18h. (Samarkand), 21h. (Tacubaya), 22h. (Bombay and near Calcutta).

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Aug. 11d. Readings at 0h. (La Paz and Sucre), 1h. (La Paz (2), Andijan (3), and Samarkand (3)), 5h. (Almata, Ekaterinburg, Tashkent, near Andijan, and Samarkand), 6h. (Samarkand and near Andijan), 8h. (Christchurch and near Wellington), 10h. (La Paz), 12h. (Tyosi), 13h. (near Lick), 16h. (Ekaterinburg, Tashkent, and near Medan), 19h. (Lick), 20h. (Baku, Ekaterinburg, Samarkand, Tashkent, and near Lick (2)), 21h. (Alicante), 23h. (near Manila and near La Paz).

Aug. 12d. Readings at 0h. (Bombay, La Paz, and Naples), 5h. (Ekaterinburg, Tashkent, Samarkand, and near Andijan), 6h. (Almeria and near Malaga), 7h. (Melbourne and Wellington), 12h. (La Plata and near Santiago), 17h. (Florissant), 20h. (Andijan), 21h. (near La Paz), 22h. (Florissant).

Aug. 13d. 3h. 19m. 47s. Epicentre 33°·6N. 6°·2W. (as on 9d.). X.

$A = +\cdot828$, $B = -\cdot090$, $C = +\cdot553$; $D = -\cdot108$, $E = -\cdot994$; $G = +\cdot550$, $H = -\cdot060$, $K = -\cdot833$.

	Δ	Az.	P.	O−C.	S.	O−C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Malaga	3·5	24	0 59	+ 9	1 43	+13	—
Granada	4·2	29	i 0 58	− 2	i 1 44	− 4	1·9
Almeria	4·5	42	0 58	− 6	1 39	−16	3·7
Toledo	6·5	15	e 1 28	− 4	e 3 1	−15	—
Alicante	6·6	42	e 1 39	+ 5	—	—	—

Additional readings :—
Granada i = +1m.1s., +1m.17s., and +1m.36s.
Almeria i = +1m.56s.
Long waves were recorded at De Bilt and Uccle.

Aug. 13d. 21h. 27m. 11s. Epicentre 53°·5N. 158°·5E. (as on 1929 Oct. 5d.). X.

$A = -\cdot553$, $B = +\cdot218$, $C = +\cdot804$; $D = +\cdot367$, $E = +\cdot930$; $G = -\cdot748$, $H = +\cdot295$, $K = -\cdot595$.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk	31·9	290	e 6 29	+ 7	e 11 36	+ 2	15·8	—
Ekaterinburg	51·0	317	i 8 58	− 1	e 16 18	+ 3	24·8	32·4
Andijan	56·2	295	e 9 40	+ 3	—	—	—	—
Tashkent	57·5	299	i 9 38	− 9	i 18 50	+67	e 29·8	35·9
Pulkovo	59·4	333	9 58	− 2	e 18 0	− 8	32·8	38·9
Samarkand	59·9	298	10 7	+ 3	—	—	—	—
Copenhagen	67·3	340	—	—	19 43	− 5	38·8	—
Theodosia	70·1	322	e 12 10	.+59	—	—	—	—

Long waves were also recorded at Florissant, Scoresby Sund, Baku, and several European stations.

Aug. 13d. Readings also at 0h. (Ekaterinburg, Samarkand, and near Andijan), 1h. (Florissant), 2h. (Tashkent, Ksara, Ekaterinburg, and Samarkand), 3h. (Strasbourg and Irkutsk), 4h. (Wellington, Irkutsk, and Manila), 5h. (Ekaterinburg, Copenhagen, De Bilt, Strasbourg, Ootomari, and Florissant), 6h. (Rocca di Papa, Taranto, Granada (2), Paris, Copenhagen, and Ootomari), 7h. (near Manila), 8h. (Ekaterinburg and Tashkent), 9h. (Paris), 10h. (Wellington), 11h. (La Paz), 12h. (Tyosi and near Manila), 16h. (Ekaterinburd, Konigsberg, and Zagreb), 17h. (Tashkent and St. Louis), 19h. (Bombay, Ekaterinburg, Irkutsk, and Florissant).

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Aug. 14d. Readings at 4h. and 5h. (Tucson), 7h. (near Zagreb), 13h. (Naples and Samarkand), 17h. (near Manila), 19h. (near Andijan and near Osaka), 20h. (Andijan), 23h. (Bombay, Tashkent, Samarkand, near Almata (2), and Andijan (3)).

Aug. 15d. 13h. 34m. 54s. Epicentre 41°·1N. 15°·4E. (as on 5d.). X.

	△	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Benevento	0·8	272	e 0 16	+ 5	0 26	+ 5	—	0·6
Taranto	1·6	114	0 19	− 4	0 36	− 5	—	0·7
Trenta	2·0	159	e 0 31	+ 2	—	—	—	—
Rocca di Papa	2·1	288	0 52	S	(0 52)	− 2	(1·2)	1·6

Rocca di Papa gives S as P and L as S.

Aug. 15d. Readings also at 1h. (near Batavia and Malabar), 2h. (Kobe, Toyooka, Sumoto, Tokyo, near Nagoya, Osaka, and Tyosi), 3h. (Mizusawa), 5h. (Kobe, near Osaka, and Sumoto), 10h. (Vienna), 12h. (near Tacubaya), 13h. (Baku, Ekaterinburg, Manila, Andijan, Samarkand, and near Taranto), 15h. (Bombay), 16h. (near La Paz), 18h. (Ekaterinburg, Irkutsk, Tashkent, Sumoto, Wellington, and La Paz), 19h. (Samarkand), 20h. (near Laibach and near Tananarive), 22h. (near Tyosi), 23h. (Andijan, Tashkent, Ekaterinburg, Phu-Lien, near Medan, near Batavia, Malabar, and near Sumoto).

Aug. 16d. 20h. 44m. 12s. Epicentre 45°·6N. 16°·4E. (as on 1918 Jan. 29d.). R.2.

A = +·671, B = +·198, C = +·715 ; D = +·282, E = −·959 ;
G = +·685, H = +·202, K = −·700.

	△	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Zagreb	0·3	300	i 0 2	− 2	i 0 9	+ 1	—	0·4
Graz	1·6	338	i 0 20	− 3	i 0 53	S_g	—	1·2
Vienna	2·6	0	0 39	+ 2	i 1 22	S*	i 1·6	2·1
Venice	2·9	268	e 0 42	+ 1	1 9	− 5	—	4·0
Treviso	3·0	271	i 0 47	+ 4	i 1 11	− 6	—	1·3
Padova	3·2	266	e 0 29	−17	e 1 7	−15	—	—
Florence	4·1	246	e 0 42	−16	—	—	—	1·5
Rocca di Papa	4·7	212	1 7	0	1 31?	−29	—	2·2
Piacenza	4·8	266	e 1 24	P*	—	—	—	3·9
Ravensburg	5·2	298	—	—	e 2 13	0	—	—
Stuttgart	5·8	306	—	—	e 2 28	0	—	—
Jena	6·2	331	—	—	e 2 42	+ 4	e 3·3	3·7
Strasbourg	6·6	300	—	—	e 2 38	−10	e 3·2	—
Gottingen	7·3	327	e 1 36	− 8	i 3 15	+ 9	—	4·1
Besançon	7·3	285	—	—	e 2 48?	−18	—	—

Additional readings :—
Zagreb eP = +4s., iP* = +6s., iS*NW = +11s., iPP = +13s., iS = +18s., iPPP = +21s., iPPS = +22s.
Rocca di Papa P = +1m.18s.
Ravensburg iE = +2m.32s.
Stuttgart i = +3m.0s.
Gottingen iP_gN = +2m.13s., iN = +3m.4s.
Long waves are recorded at Budapest and Karlsruhe.

Aug. 16d. Readings also at 0h. (Bombay and near Ksara), 1h. (Paris and near La Paz and Sucre), 2h. (Samarkand), 3h. (near Tyosi), 5h. (near Andijan), 6h. (Matuyama), 9h. (near La Paz and Sucre), 10h. (Andijan), 13h. (near Gottingen and near Tacubaya), 15h. (Bombay and La Paz), 16h. (Ekaterinburg, Hong Kong, Tashkent, Vienna, near Manila, and near Tyosi), 21h. (near Tananarive), 23h. (Bombay).

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Aug. 17d. 9h. 28m. 30s. Epicentre 35°·2N. 140°·7E. N.2.

A = −·632, B = +·518, C = +·576; D = +·633, E = +·774;
G = −·446, H = +·365, K = −·817.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tyosi		0·6	12	e 0 17	+ 8	0 29	+14	0·5	0·7
Mera		0·7	248	0 15	+ 5	0 23	+ 5	—	—
Tokyo		0·9	302	0 15	+ 2	0 22	− 1	—	—
Yokohama		0·9	285	0 14	+ 1	0 21	− 2	—	—
Tukuba		1·1	336	0 18	+ 2	0 33	+ 5	—	—
Kumagaya		1·4	312	0 22	+ 2	0 37	+ 1	—	—
Misima		1·5	267	0 20	− 1	0 31	− 8	—	—
Hatidyozima		2·2	199	0 36	+ 5	1 2	+ 5	—	—
Nagano		2·5	306	0 36	0	1 6	+ 2	—	—
Hamamatu		2·5	259	0 32	− 4	1 0	− 4	—	—
Hukusima		2·6	355	0 42	+ 5	1 15	+ 8	—	—
Nagoya		3·0	270	0 43	0	1 17	0	—	1·5
Wazima		3·8	306	0 55	+ 1	1 26	−11	—	—
Mizusawa		4·0	5	1 2	+ 5	1 49	+ 7	—	—
Kyoto		4·0	270	0 58	+ 1	1 53	+11	—	—
Osaka		4·2	264	0 59	− 1	—	—	1·9	2·5
Kobe		4·5	265	1 4	0	1 51	− 4	2·1	2·4
Akita		4·6	353	1 13	+ 7	2 19	S*	—	—
Sumoto		4·8	261	1 9	+ 1	2 7	+ 4	—	2·5
Toyooka		4·8	276	1 9	+ 1	2 14	+11	—	2·4
Koti		6·1	256	1 29	+ 2	2 41	+ 5	3·0	—
Matuyama		6·6	261	1 41	+ 7	2 41	− 7	i 3·7	3·8
Miyazaki		8·3	249	2 2	+ 4	3 40	+ 9	—	—
Hukuoka		8·6	262	2 17	+15	4 13	S*	—	5·0
Nagasaki		9·3	258	2 13	+ 2	—	—	—	—
Zi-ka-wei	z.	16·5	261	3 50	+ 2	6 56	+ 6	—	—
Irkutsk		30·9	316	e 6 9	− 4	e 11 13	− 5	15·5	—
Phu-Lien		33·1	255	6 30?	− 3	—	—	—	—
Andijan		52·7	299	e 9 15	+ 3	e 16 37	− 1	—	—
Tashkent		54·8	300	9 30	+ 3	i 16 59	− 7	e 24·3	33·5
Ekaterinburg		55·9	321	i 9 33	− 2	i 17 15	− 6	29·5	36·0
Pulkovo		69·3	330	e 11 5	− 1	—	—	34·5	—
Scoresby Sund		73·6	355	—	—	21 6	+ 2	—	—
Copenhagen		79·0	334	—	—	21 58	− 7	43·5	—
De Bilt		84·5	335	—	—	e 22 53	[− 2]	e 43·5	49·5
Strasbourg		86·3	331	—	—	(e 23 30?)	+10	e 23·5	—
Florence		88·6	326	23 30	S	(23 30)	[+ 6]	—	45·5
Florissant		92·2	39	—	—	e 23 30	[−16]	—	—

Additional readings:—
Tyosi P_gEN = +24s.
Kobe SN = +2m.3s.
Toyooka iPZ = +1m.14s., iPN = +1m.20s., iPE = +1m.21s.
Zi-ka-wei PPZ = +4m.4s.
Long waves were also recorded at Hong Kong and several European stations.

Aug. 17d. 12h. 29m. 32s. Epicentre 27°·5N. 55°·0E. (as on 1930 May 13d.). R.1.

Probable error of epicentre ±0°·28.

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

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Samarkand		15·7	36	e 3 30	− 8	—	—	—	—
Ksara	N.	17·6	297	4 0	− 2	7 16	+ 1	11·1	—
Tashkent		18·1	37	14 1	− 7	i 7 30	+ 3	i 10·0	11·0
Bombay		18·5	114	4 11	− 2	8 1	+25	10·3	18·0
Andijan		19·5	43	4 26	+ 2	e 8 50	+54	12·5	—

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.
Agra	E.	20·5	85	e 4 52	+17	—	—	—	—
Helwan		20·9	282	4 42	+ 3	8 33	+ 9	—	12·5
Theodosia		23·5	323	5 4	− 1	9 16	+ 2	—	—
Hyderabad		23·8	110	5 10	+ 2	9 33	+14	13·6	19·8
Yalta		23·8	321	5 5	− 3	9 21	+ 2	—	—
Simferopol		24·1	322	5 9	− 2	9 29	+ 4	—	—
Sebastopol		24·2	321	e 5 15	+ 3	e 9 28	+ 1	—	—
Kodaikanal		27·3	125	7 40	?	—	—	—	—
Ekaterinburg		29·6	6	i 5 55	− 6	10 50	− 8	14·5	19·0
Colombo		31·3	128	11 18	S	(11 18)	− 6	—	21·1
Budapest		34·3	316	6 43	0	14 20	SS	e 20·5	23·5
Zagreb		35·8	311	e 6 56	0	e 12 24	− 9	e 19·0	—
Pulkovo		36·4	340	6 58	− 3	e 12 35	− 7	18·5	23·1
Konigsberg		37·0	327	—	—	e 16 28?	(−56)	e 24·5	—
Rocca di Papa		37·2	304	e 4 54	?	i 12 52	− 2	e 24·7	27·3
Helsingfors		38·5	336	e 7 2	−17	e 12 50	−24	e 22·1	—
Florence		38·6	306	7 20	0	13 8	− 7	—	25·5
Cheb		39·4	317	—	—	e 13 26	− 1	e 25·5	28·5
Potsdam		39·8	320	e 7 28?	− 2	e 13 28?	− 5	—	26·5
Piacenza		39·9	310	e 7 44	+13	13 36	+ 1	16·8	29·7
Stuttgart		41·0	314	e 7 38	− 2	e 13 46	− 5	e 23·0	28·6
Upsala		41·1	333	e 7 36	− 5	e 13 42	−11	e 22·5	33·3
Zurich		41·1	311	e 7 36	− 5	i 13 45	− 8	—	—
Gottingen		41·3	318	e 7 39	− 4	e 13 52	− 4	e 23·5	—
Copenhagen		41·5	326	7 40	− 4	13 56	− 3	—	—
Feldberg	N.	41·8	316	i 7 46	− 1	e 14 4	+ 1	—	29·3
Strasbourg		41·9	313	e 7 44	− 4	e 13 53	−12	e 21·5	—
Hamburg		42·0	321	e 7 50	+ 1	—	—	e 21·5	33·0
Neuchatel		42·1	312	e 7 44	− 5	—	—	—	—
Irkutsk		44·0	41	e 8 3	− 2	14 29	− 7	23·5	28·0
De Bilt		44·3	318	8 10	+ 3	14 41	+ 1	22·5	30·9
Algiers		44·4	296	e 8 5	− 3	14 37	− 4	28·5	29·2
Uccle		44·7	316	e 8 5	− 5	14 44	− 2	e 24·5	—
Tortosa	N.	46·2	302	e 7 25	−57	14 6	−61	—	31·3
Tananarive		47·0	190	—	—	19 33	SSSS	—	e 25·6
Alicante		47·1	299	e 8 36	+ 7	e 15 16	− 4	e 22·3	—
Phu-Lien		47·2	87	—	—	14 28?	−53	—	—
Kew		47·5	318	i 8 34	+ 2	e 15 23	− 3	26·5	—
Oxford		48·2	316	—	—	i 15 27	− 9	e 26·9	37·5
Almeria		48·7	296	8 41	0	15 37	− 6	e 28·4	32·1
Granada		49·7	296	i 8 54	+ 5	i 15 57	0	e 27·5	34·4
Toledo		49·8	300	e 8 42	− 8	15 57	− 1	e 21·8	—
Malaga		50·4	296	9 2	+ 8	16 2	− 4	21·5	—
Hong Kong		53·4	82	16 46	S	(16 46)	− 1	—	30·5
Scoresby Sund		59·9	339	10 28?	(−25)	18 16	+ 1	36·5	—
Vladivostok		62·5	52	—	—	e 24 8	?	25·8	—
Florissant		106·2	333	—	—	e 18 28	PP	e 27·8	—

Additional readings :—
Rocca di Papa e? = +3m.52s.
Helsingfors iPPPEN = +8m.44s., ePcPEN = +8m.59s., iSSSEN = +15m.54s.
Florence i = +9m.11s. = PcP − 26s.
Cheb e = +19m.12s.
Stuttgart ePPEZ = +9m.14s.
Upsala PPE = +9m.12s.
Copenhagen +9m.29s., and +17m.16s.
Feldberg iN = +8m.56s., eN = +11m.44s., and +17m.22s.
De Bilt PPZ = +10m.0s.
Kew eSSN = +18m.23s.
Granada PP = +11m.3s.
Long waves were also recorded at Paris, Stonyhurst, and La Paz.

Aug. 17d. Readings also at 1h. (Bombay), 3h. (Bombay and near Kodaikanal), 6h. (Ekaterinburg, Irkutsk, Tashkent, and Taranto), 9h. (Ekaterinburg, Tashkent, Medan, Phu-Lien, Vladivostok, and near Tyosi), 11h., 12h., and 16h. (Tyosi), 17h. (Irkutsk, Tashkent, and Tyosi), 18h. (Lick, near Sumoto, and near Toyooka), 19h. (near Andijan and near Tyosi), 22h. (Dehra Dun, Samarkand, near Almata, and Andijan), 23h. (near Medan).

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Aug. 18d. 9h. 53m. 45s. Epicentre **55°·0S. 27°·5W.** R.1.

(as on 1930 March 30d.).

Probable error of epicentre ±0°·8.

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

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
La Plata		29·0	301	6 2	+ 6	10 47	− 1	13·6	—
Rio de Janeiro		34·2	335	i 6 41	− 1	i 12 7	− 2	i 15·9	19·5
Santiago		36·8	289	7 27	+22	12 59	+11	15·6	—
Cape Town		38·0	75	i 7 13	− 2	e 13 24	+18	—	17·6
Sucre		45·9	306	8 24	+ 4	—	—	—	—
Johannesburg		49·3	78	6 45	?	—	—	13·9	22·2
La Paz	E.	49·5	305	i 8 55	+ 8	i 15 58	+ 4	23·4	29·9
Tananarive		66·1	89	10 45	− 1	i 19 35	+ 1	31·9	34·5
Dakar		70·2	10	e 11 8	− 4	e 20 13	−11	31·9	—
Christchurch		80·0	193	e 12 18	+10	—	—	—	51·6
Wellington		81·9	196	12 10	− 8	22 33	− 3	35·2	40·3
Port au Prince		82·8	318	e 12 50	+28	e 22 34	−11	43·9	—
Melbourne		87·0	173	12 52	+ 9	23 25	− 2	40·2	48·9
Perth		87·6	149	23 0	SKS	(23 0)	[−17]	—	—
Adelaide		89·3	169	i 12 47	− 7	i 23 46	− 3	e 40·3	49·0
Riverview		91·3	179	e 12 57	− 6	e 23 35	[− 5]	e 43·6	52·6
San Fernando		93·3	15	13 15	+ 2	23 45	[− 7]	43·3	45·9
Malaga		93·8	18	13 11	− 4	23 51	[− 3]	32·1	50·2
Almeria		94·4	20	i 13 15	− 3	i 23 48	[−10]	42·4	48·9
Granada		94·4	19	i 13 10	− 8	24 10	{ 0}	i 43·8	49·8
Algiers		95·4	24	e 13 26	+ 4	24 42	− 4	42·2	49·2
Alicante		96·2	21	e 13 1	−25	e 23 39	[−28]	e 43·8	49·6
Toledo		96·9	17	e 13 27	− 2	e 24 2	[− 8]	e 30·6	51·3
Helwan		98·6	49	e 13 35	− 2	24 7	[−12]	—	56·4
Tortosa	N.	98·7	20	e 13 28	−10	24 10	[− 9]	41·4	51·6
Catania		99·4	33	e 15 3	?	24 13	[−10]	e 49·3	57·8
Barcelona		99·7	22	e 16 18	?	—	—	e 41·7	52·9
Naples	N.	102·2	30	e 18 15	PP	—	—	48·2	—
Rocca di Papa		102·6	29	e 13 50	− 5	27 8	PS	e 49·1	57·4
Charlottesville		102·7	322	e 14 15	+19	e 23 45	[−54]	e 47·6	—
Georgetown		103·0	322	i 14 5	+ 8	i 24 23	[−17]	—	—
Fordham		103·7	325	e 13 11	−50	e 24 55	[+11]	e 47·2	—
Ksara	E.	104·0	49	18 4	PP	29 46	?	50·2	—
Florence		104·1	27	14 1	− 1	27 45	PS	48·9	52·2
Piacenza		104·9	26	e 14 3	− 3	24 31	[−18]	43·2	58·8
Colombo		105·6	100	10 19	?	26 0	{+25}	43·4	44·2
Padova		105·8	27	e 18 21	PP	e 24 32	[−22]	—	—
Besançon		106·0	23	—	—	e 24 42	[−13]	44·2	54·2
Neuchatel		106·0	22	e 18 18	[+13]	e 24 42	[−13]	—	—
Venice		106·0	27	e 15 50	?	23 48	?	—	—
Treviso		106·1	28	16 3	?	24 43	[−12]	49·2	57·2
Chur		106·5	23	e 18 33	PP	e 28 15	PS	—	—
Zurich		106·7	24	e 18 38	PP	e 28 34	PS	—	—
Paris		106·8	20	e 14 14	− 1	(27 15?)	PS	27·2	51·2
Kodaikanal		106·9	94	27 45	PS	—	—	51·6	62·2
Zagreb		107·3	30	e 17 31	[−38]	e 27 58	PS	44·6	—
Innsbruck		107·4	25	e 18 27	PP	28 3	PS	—	56·8
Strasbourg		107·7	23	14 16	− 4	24 52	[−11]	49·2	57·2
Belgrade		107·7	34	e 19 50	PP	e 28 52	PS	—	49·5
St. Louis		107·8	313	e 14 23	+ 3	i 24 53	[−10]	47·1	60·4
Florissant		108·0	313	e 14 25	+ 4	i 24 45	[−19]	e 49·2	—
Toronto		108·0	323	e 14 33	+12	i 24 51	[−13]	50·6?	—
Batavia		108·1	131	i 18 37	[+25]	i 25 14	[+10]	64·2	—
Karlsruhe		108·2	23	e 18 57	PP	28 47	PS	e 56·2	—
Stuttgart		108·2	23	e 14 18	− 4	i 24 55	[−10]	51·2	57·8

Continued on next page.

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		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Ottawa		108·3	327	e 14 39	+16	i 28 23	PS	e 44·2	—
Ann Arbor		108·4	319	e 17 57	[−16]	e 25 9	[+ 3]	52·9	57·1
Kew		108·8	17	e 14 24	− 1	e 26 38	{+40}	44·2	54·1
Oxford		108·9	16	e 14 27	+ 1	i 25 13	[+ 5]	e 41·2	55·5
Uccle		109·1	20	14 25	− 2	i 24 56	[−13]	e 44·2	58·3
Feldberg	N.	109·4	23	e 14 22	− 6	e 24 59	[−12]	e 46·2	57·2
Chicago		109·4	316	e 17 43	[−33]	e 24 51	[−20]	e 45·1	—
Vienna		109·6	29	e 18 16	[0]	28 28	PS	e 44·2	59·2
Budapest		109·7	31	18 57	[+40]	25 59	[+47]	45·2	59·2
Cheb		110·2	27	e 19 4	PP	e 28 34	PS	e 45·2	58·2
De Bilt		110·5	21	e 14 31	− 2	e 25 6	[−10]	e 46·2	55·3
Jena		110·8	25	e 19 15	PP	e 28 15	PS	e 45·2	56·2
Stonyhurst		110·8	15	e 18 45	PP	i 25 20	[+ 3]	—	59·2
Gottingen		111·0	23	—	—	e 28 21	PS	e 52·2	59·6
Bombay		111·2	87	18 23	[+ 2]	26 58	?	41·2	59·6
Durham		111·8	14	19 11	PP	29 2	PS	52·6	59·7
Sebastopol		112·2	41	e 19 11	PP	—	—	—	—
Yalta		112·3	41	e 19 11	PS	—	—	—	—
Potsdam		112·5	25	e 18 21	− 4	i 28 57	PS	e 51·3	59·8
Edinburgh		112·6	13	e 19 18	PP	i 29 13	PS	48·2	63·9
Simferopol		112·7	41	e 18 47?	+21	—	—	—	—
Hamburg		112·9	22	e 19 15	PP	i 29 52	?	e 47·1	55·2
Medan		112·9	120	e 18 50	[+23]	i 25 50	[+24]	55·2	—
Theodosia		113·2	41	e 19 23	PP	29 5	PS	64·2	—
Hyderabad		113·3	90	19 5	PP	28 32	PS	48·1	59·6
Dyce		114·1	13	e 14 57	+ 6	i 25 9	[−21]	e 47·2	55·3
Copenhagen		115·4	23	14 55	− 2	25 23	[−12]	47·2	—
Konigsberg		116·7	29	i 19 46	PP	i 29 32	PS	e 49·2	63·2
Upsala		120·3	25	e 20 5	PP	e 25 32	[−19]	e 49·2	59·8
Helsingfors		122·4	28	e 18 40	[−11]	25 39	[−19]	e 52·2	—
Kucino		122·9	37	—	—	25 50	[− 9]	e 49·7	67·5
Pulkovo		123·6	30	15 32	− 5	25 50	[−11]	56·2	66·0
Samarkand		123·8	66	e 18 54	[0]	—	—	56·2	—
Scoresby Sund		125·5	2	21 3	PP	30 39	SKSP	54·2	—
Tashkent		126·2	66	e 15 36	−14	i 27 39	{−18}	54·2	76·1
Andijan		127·6	70	e 18 59	[− 3]	—	—	57·2	—
Honolulu T.H.		130·0	249	e 20 15	?	i 31 35	PS	60·2	—
Victoria		130·6	299	19 35	[+27]	31 21	PS	56·3	64·2
Phu-Lien		131·6	115	19 15?	[+ 5]	—	—	—	—
Almata		131·8	70	e 19 15	[+ 5]	—	—	—	—
Ekaterinburg		132·5	46	i 19 8	[− 3]	i 26 13	[−13]	—	—
Manila		132·8	137	i 22 6	PP	—	—	—	—
Hong Kong		136·7	123	16 50	?	34 3	?	e 54·2	71·6
Sitka		141·5	305	i 19 20	[− 3]	—	—	e 62·5	—
Taihoku	E.	142·4	130	—	—	e 36 15?	?	—	—
Zi-ka-wei	Z.	147·6	125	19 31	[− 7]	i 34 3	?	—	79·1
Irkutsk		151·9	75	e 19 40	[− 4]	26 57	PPP	76·2	91·1
Koti		154·8	140	e 19 34	[−14]	—	—	—	—
Osaka		156·5	143	18 59	?	23 55	PP	—	—
Sapporo		166·1	144	19 57	[− 3]	—	—	—	—

Additional readings :—
La Paz PPE = +10m.53s., PPPE = +11m.18s., iPSE = +16m.20s.
Tananarive P_cP = +11m.30s., PPE = +13m.11s., E = +13m.38s., PPPN = +14m.44s., PPPE = +14m.56s., PSN = +19m.54s., PSE = +19m.56s., PPPSN = +20m.5s., iSKSN = +20m.46s., S_cSE = +21m.6s., N = +23m.44s. E = +23m.59s., SSE = +24m.38s., SSN = +26m.44s., SSSE = +27m.8s., SSSSN = +28m.59s.
Wellington PP = +15m.31s.
Melbourne PPP = +18m.20s., i = +23m.5s., PS = +24m.15s., SS = +29m.17s.
Adelaide iPP = +16m.17s., iS = +23m.13s. =SKS −15s., i = +24m.6s., SS = +29m.8s.
Riverview PP = +16m.33s., SKKS = +23m.53s., +25m.37s., eE = +37m.31s.
Granada PP = +16m.46s., PPP = +18m.21s., SPS = +23m.45s., SS = +29m.38s., SSS = +33m.19s.

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Algiers PS = +23m.53s.
Rocca di Papa iPP = +18m.6s.
Charlottesville ePP = +17m.57s., eSS = +32m.55s.
Georgetown eE = +13m.9s., eZ = +13m.57s. and +17m.22s., iZ = +18m.7s., iPP = +18m.24s., ePPPE = +20m.33s., ePPPZ = +20m.39s.
Fordham iPP = +17m.21s., iSS = +31m.58s.
Ksara PPPE? = +24m.33s.
Piacenza P = +18m.29s. =PP +10s.
Chur e = +33m.15s. =SS −16s.
Paris e = +18m.33s. =PP −1s.
Zagreb e = +18m.41s. =PP +3s., eNW = +24m.49s. =SKS −12s. and +25m.42s., e = +28m.49s. and +33m.50s.
Strasbourg PKP = +17m.52s., PP = +18m.39s., iPS = +27m.50s., PPS = +28m.30s., P_cSS_cP = +28m.50s., PSSS = +37m.55s. =SSS −11s.
Belgrade e = +19m.57s.
St. Louis eN = +14m.38s. and +14m.53s., iN = +18m.26s. and +19m.1s., iEN = +21m.13s., and +21m.18s., iPSN = +28m.8s., iN = +28m.59s., iE = +29m.8s., iSSN = +34m.8s.
Florissant iPZ = +14m.29s., ePKPZ = +17m.11s., iPPZ = +18m.46s., iZ = +20m.55s., iPSEZ = +28m.1s., iZ = +29m.11s., iSSEN = +34m.5s., iSSSE = +39m.10s.
Toronto iPP = +18m.51s., iPS = +28m.16s., iSS = +34m.5s.
Batavia i = +20m.6s. and +24m.48s., iE = +25m.24s., i = +26m.20s.
Stuttgart ePPZ = +18m.13s. =PKP +1s., iNZ = +18m.48s. =PP +4s., and +19m.41s., iPPPZ = +21m.3s., i = +25m.43s., iSZ = +26m.25s., iSEN = +26m.39s., i = +28m.3s. =PS −7s., iPPSNZ = +28m.25s., iSS = +33m.25s., iE = +33m.51s. =SS −3s., iN = +34m.11s., iSSS = +38m.5s.
Ottawa i = +19m.3s., +34m.23s., and +38m.15s.
Ann Arbor e = +19m.9s., eE = +21m.21s., eN = +24m.57s. and +29m.15s., eE = +34m.15s.
Kew ePPZ = +18m.57s., iSKSN = +24m.53s., ePPS = +28m.35s., SSN = +34m.45s.
Oxford e = +18m.33s., i = +22m.58s., +24m.33s., +25m.52s. =SKKS −7s., and +28m.23s. =PS −6s.
Uccle ePP = +18m.54s., i = +28m.21s. =PS +2s., SS = +34m.21s.
Feldberg iN = +18m.53s. =PP +0s., eN = +28m.23s. =PS +1s., e?N = +30m.38s.
Chicago ePP = +18m.57s., ePPP = +21m.5s., e = +26m.25s., ePS = +28m.9s., eSS = +33m.57s.
Vienna PP = +21m.22s., PS = +29m.7s., PSS = +33m.58s. =SS −15s., SSS = +37m.23s.
De Bilt ePPZ = +19m.2s., eEN = +26m.51s., e = +28m.37s. =PS +5s.
Jena eZ = +28m.45s. =PS +10s.
Stonyhurst i = +26m.40s., PPS = +28m.50s.
Gottingen ePPNZ = +19m.3s., ePPPNZ = +21m.9s., eSSE = +34m.39s., eSSSE = +38m.39s.
Potsdam iN = +19m.21s. =PP +6s.
Hamburg iN = +29m.2s. =PS +8s.
Medan i = +34m.14s.
Dyce iPP = +19m.37s., i = +26m.17s. =SKKS −19s. and +29m.21s. =PS +14s.
Copenhagen PKP = +18m.51s., PP = +19m.37s., eE = +24m.35s., SKKS = +26m.40s., SE = +27m.51s., PS = +29m.25s., SS = +35m.9s., SSS = +39m.27s.
Konigsberg i = +20m.10s.
Upsala eN = +30m.4s. and +41m.15s.
Helsingfors eZ = +14m.49s., ePP = +19m.52s., PPPEN = +22m.50s., SKKS = +26m.42s., PKKP = +28m.56s., SKSPEN = +30m.20s., SKKSEN = +36m.56s., iSSS = +41m.10s.
Kucino PP = +20m.23s., SKSP = +30m.30s., SS = +37m.27s.
Pulkovo PKP = +19m.7s., SS = +37m.15s.
Tashkent iPKP = +19m.16s., iPP = +20m.55s., SS = +38m.15s.
Ekaterinburg eP = +16m.7s., PP = +21m.29s., PPS = +33m.7s.
Manila iEN = +23m.52s.
HongKong PP = +22m.19s., SS = +39m.58s.
Sitka iPP = +22m.49s., iSS = +41m.6s., eSSS = +45m.28s., e = +54m.10s.
Zi-ka-wei iZ = +19m.42s., +20m.7s., and +20m.49s.
Irkutsk PKS = +23m.15s., PS = +33m.40s., SS = +42m.15s.
Long waves were recorded at Sydney.

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Aug. 18d. 19h. 42m. 11s. Epicentre 36°·5N. 141°·5E. (as on 1929 April 16d.). R.3.

A = −·629, B = +·500, C = +·595 ; D = +·623, E = +·783 :
G = −·466, H = +·370, K = −·804.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mito		0·8	262	0 6	− 5	0 17	− 4	—	—
Tyosi		0·9	214	0 13	0	(0 25)	+ 2	0·4	0·6
Kakioka		1·1	256	0 11	− 5	0 25	− 3	—	—
Hukusima		1·5	325	0 18	− 3	0 35	− 4	—	—
Tokyo		1·7	240	0 22	− 2	0 43	− 1	—	1·1
Mera		2·1	220	0 32	+ 2	0 58	+ 4	—	—
Misima		2·3	236	0 35	+ 2	0 49	−10	—	—
Mizusawa		2·6	354	0 34	− 3	1 4	− 3	—	—
Morioka		3·2	356	0 39	− 7	1 17	− 5	—	—
Hamamatu		3·6	242	0 51	0	1 43	S*	—	—
Nagoya		4·0	252	1 0	+ 3	1 53	+11	—	2·2
Osaka		5·3	252	1 24	+ 9	—	—	2·6	3·3
Kobe	E.	5·5	253	—	—	e 2 1	−19	—	—
Toyooka		5·5	262	1 18	0	e 2 28	+ 8	—	2·7
Sumoto		5·8	250	—	—	e 2 28	0	(e 2·9)	3·2
Tashkent		54·8	299	—	—	e 14 49?	?	—	34·6

Additional readings and notes :—
Tyosi P_g = +18s.
Mizusawa SN = +1m.7s.
Sumoto gives S as e and L as S.
Koti (Δ = 7°·2) gives eE = 19h.41m.31s.
Long waves were also recorded at Irkutsk and Ekaterinburg.

Aug. 18d. Readings also at 0h. (Hong Kong, Manila, Vladivostok, Tashkent, and Ekaterinburg), 1h. (Irkutsk, Kucino, De Bilt, Uccle, Feldberg, Granada, and La Paz (2)), 2h. (Copiapo, Phu-Lien, Hong Kong, Taihoku, and Zi-ka-wei), 4h. (Ekaterinburg and La Paz), 5h. (Feldberg and Tashkent), 7h. (Ekaterinburg, Tashkent, and Scoresby Sund), 8h. (Wellington), 10h. (La Paz), 11h. (Samarkand, La Plata, La Paz, Sucre, Manila, near Algiers, and near Batavia), 12h. (Hamburg), 13h. (near Lick), 15h. (Chur), 21h. (Ekaterinburg, Tashkent, and Ksara), 22h. (Ekaterinburg and Irkutsk), 23h. (Wellington).

Aug. 19d. 12h. 40m. 22s. Epicentre 35°·0N. 139°·5E. (as on 1930 May 12d.). R.2.

A = −·623, B = +·532, C = +·574 ; D = +·649, E = +·760 ;
G = −·436, H = +·372, K = −·819.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tokyo		0·7	16	0 9	− 1	0 22	+ 4	—	2·4
Tukuba		1·3	25	0 17	− 1	—	—	—	—
Tyosi		1·3	56	e 0 16	− 2	(0 34)	+ 1	0·6	—
Nagoya		2·1	274	0 31	+ 1	0 57	+ 3	—	1·0
Osaka		3·4	266	0 47	− 2	(1 34)	+ 7	1·6	2·0
Kobe	E.	3·6	266	e 0 51	0	1 32	0	—	1·8
	N.	3·6	266	e 0 58	+ 7	1 36	+ 4	—	1·9
Sumoto		3·8	261	—	—	e 1 29	− 8	(e 1·8)	2·0
Toyooka		3·8	279	2 6	+72	2 51	+74	—	2·9
Mizusawa	E.	4·3	17	0 51	−10	2 7	+17	—	—
Koti		5·2	255	—	—	e 2 18	+ 5	(2·7)	—

Additional readings and notes :—
Sumoto gives S as e and L as S.
Toyooka SE = +2m.55s.
Koti gives S as e and L as S.

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Aug. 19d. 17h. 41m. 36s. Epicentre 35°·6N. 140°·8E. R.3.

(Given by Nagoya and in Geophy. Mag., Tokyo, Vol. IV, No. 4, and as on 1930 May 20d.).

A = −·630, B = +·514, C = +·582 : D = +·632, E = +·775 : G = −·451, H = +·368, K = −·813.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Tyosi	0·2	17	0 1	− 2	—	—	0·1	0·1
Tukuba	0·8	316	0 11	0	—	—	—	—
Kakioka	0·8	322	0 12	+ 1	0 23	+ 2	—	—
Tokyo	0·9	276	0 18	P*	0 31	S*	—	0·7
Mera	1·0	229	0 21	P_g	0 37	S_g	—	—
Yokohama	1·0	260	0 19	P*	0 34	S_g	—	—
Kumagaya	1·3	296	0 23	P*	0 45	S_g	—	—
Misima	1·5	252	0 27	+ 6	0 35	− 4	—	—
Nagano	2·4	297	0 38	+ 4	1 5	+ 3	—	—
Hatidyozima	2·6	199	0 40	+ 3	—	—	—	—
Sendai	2·6	1	0 36	− 1	1 7	0	—	—
Nagoya	3·2	262	0 52	+ 6	1 42	+20	—	1·9
Gihu	3·3	267	0 52	+ 5	1 46	S_g	—	—
Mizusawa	3·5	4	0 54	+ 4	1 31	+ 1	—	—
Kyoto	4·1	264	1 15	P*	2 25	S_g	—	—
Akita	4·2	352	1 2	+ 2	2 0	S*	—	—
Osaka	4·4	259	1 20	P*	—	—	2·4	3·0
Kobe	4·7	260	1 24	P*	2 29	S*	—	2·7
Toyooka	4·8	271	e 1 23	P*	2 33	S*	2·6	2·8
Sumoto	5·0	257	1 26	P*	2 41	S*	—	3·2
Koti	6·3	256	—	—	3 22	S*	3·5	—
Tashkent	54·7	299	—	—	e 17 13	+ 8	e 27·4	33·7
Ekaterinburg	55·7	319	9 31	− 3	17 16	− 3	26·4	—

Additional readings :—
Toyooka gives also i = +1m.28s.
Long waves were also recorded at Vladivostok, Irkutsk, Pulkovo, and several European stations.

Aug. 19d. Readings also at 0h. (near Tyosi), 1h. (Granada, Ekaterinburg, Tashkent, Adelaide, Melbourne, near Christchurch, and Wellington), 2h. (Granada), 4h. (Ekaterinburg, Samarkand, Tashkent, and near Almata), 5h. (Ekaterinburg, Tashkent, Copenhagen, Kew, De Bilt, Feldberg, Granada, Ivigtut, Florissant, and Sitka), 6h. (Bombay, Port au Prince, and Scoresby Sund), 9h. (near Lick), 11h. (Copiapo and near Santiago (2)), 13h. (Nagoya), 14h. (Kew and near Manila), 16h. (Wellington (2) and near Sumoto), 18h. and 19h. (near Tyosi), 21h. (Florissant and near Tyosi).

Aug. 20d. 20h. 54m. 12s. Epicentre **24°·5N. 122°·2E.** N.1.

Probable error ±0°·5 (epicentre given by Nagoya).

A = −·485, B = +·770, C = +·415 ; D = +·846, E = +·533 : G = −·221, H = +·351, K = −·910.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Karenko	0·7	227	0 3	− 7	0 13	− 5	—	—
Taihoku	0·8	311	0 4	− 7	0 12	− 9	—	0·3
Isigakizima	1·8	95	0 28	+ 2	0 51	+ 5	—	—
Taito	2·0	209	0 9	−20	0 27	−24	—	—
Hokoto	2·7	248	0 43	+ 4	1 13	+ 4	—	—
Naha	5·2	69	1 11	− 3	2 29	S*	—	—
Zi-ka-wei	6·7	354	1 23	−12	3 23	S*	(3·4)	5·4
Hong Kong	7·7	255	i 1 40	− 9	i 3 28	+12	4·0	5·1
Manila	10·0	187	i 2 17	− 4	i 4 14	+ 1	5·1	9·0
Nagasaki	10·6	37	2 31	+ 2	4 51	+23	5·6	6·5

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.
Hukuoka		11·6	37	i 2 44	+ 1	5 18	+25	e 5·9	7·0
Matuyama		13·1	42	e 3 29	+26	7 14	?	10·1	11·7
Koti		13·4	45	2 58	− 9	(e 5 48)	+11	e 5·8	10·7
Zinsen		13·5	15	3 12	+ 3	5 56	+17	—	—
Sumoto		14·8	45	e 3 19	− 7	6 59	+49	9·3	9·7
Phu-Lien		14·9	259	3 18	− 9	e 6 36	+23	7·8	9·6
Kobe		15·1	45	e 3 34	+ 4	7 1	+44	e 7·5	10·1
Osaka		15·4	46	3 13	−21	(6 16)	− 8	6·3	12·0
Toyooka		15·5	42	3 31	− 4	—	—	e 7·1	11·8
Nagoya		16·6	47	e 4 5	+16	e 8 29	L	10·3	—
Titizima		18·2	78	4 5	− 4	7 40	+13	—	—
Nagano		18·3	45	4 16	+ 6	—	—	—	—
Tyosi	E.	19·6	51	e 4 57	+32	—	—	e 13·5	—
Vladivostok		20·2	21	4 24	− 8	8 27	+17	e 9·9	14·8
Akita		21·4	40	5 9	PP	8 52	+18	—	—
Mizusawa	E.	21·6	43	4 49	+ 3	9 13	+35	13·8	—
	N.	21·6	43	4 48	+ 2	9 22	+44	14·3	—
Medan		30·8	232	6 30	+18	—	—	i 15·7	—
Irkutsk		30·9	340	e 6 8	− 5	11 18	0	15·8	19·7
Calcutta	E.	31·0	275	e 9 15	(+ 2)	—	—	18·0	19·9
	N.	31·0	275	e 9 25	(+12)	—	—	17·8	19·8
Batavia		34·2	210	6 37	− 5	i 12 38	+29	16·8	—
Dehra Dun		39·4	290	13 18	S	(13 18)	− 9	20·3	21·8
Agra	E.	39·6	286	e 7 17	−12	e 13 17	−13	22·3	25·4
	N.	39·6	286	e 6 35	−54	e 13 19	−11	21·0	22·8
Almata		41·3	310	e 7 54	+11	—	—	22·3	—
Hyderabad		41·3	273	7 22	−21	13 30	−26	20·1	26·1
Colombo		44·2	257	8 7	+ 1	14 37	− 2	26·8	28·2
Andijan		44·3	306	e 8 9	+ 2	e 15 32	+52	22·8	—
Kodaikanal		44·8	263	e 14 0	S	(e 14 0)	−47	i 26·0	30·2
Bombay		46·0	275	8 24	+ 3	15 8	+ 4	23·5	27·0
Tashkent		46·7	308	8 25	− 1	15 10	− 4	18·8	27·5
Ekaterinburg		54·2	325	e 9 10	−13	i 16 48	−10	21·8	34·4
Adelaide		61·5	165	e 10 9	− 6	i 18 21	−15	28·2	37·1
Riverview		64·5	153	e 10 24	−11	e 19 12	− 2	e 31·5	39·9
Sydney		64·5	153	e 18 36	S	(e 18 36)	−38	33·8	34·8
Melbourne		65·9	161	—	—	19 23	− 8	32·0	34·3
Pulkovo		69·9	330	11 7	− 3	20 10	−10	32·8	41·5
Theodosia		70·8	314	11 15	− 1	e 21 48	+77	e 38·8	—
Simferopol		71·7	314	10 48?	−33	—	—	—	—
Yalta		71·8	314	e 11 19	− 3	—	—	40·8	—
Sebastopol		72·1	314	e 11 20	− 3	—	—	—	—
Helsingfors		72·4	330	e 11 15	−10	e 20 33	−17	e 34·7	—
Honolulu T.H.		72·7	74	—	—	e 20 48	− 5	34·8	—
Ksara	N.	73·8	300	e 11 32	− 1	21 5	− 1	35·8	—
Upsala		75·9	331	e 11 36	− 9	e 21 15	−15	e 35·8	42·2
Sitka		76·0	34	—	—	e 21 14	−18	e 39·2	—
Konigsberg		76·5	326	—	—	e 21 44	+ 7	e 36·8	42·4
Copenhagen		80·2	329	12 6	− 3	22 9	− 9	36·8	—
Budapest		80·4	320	12 3	− 7	e 22 18	− 2	31·8	46·3
Potsdam		81·6	325	e 12 12	− 4	e 22 18	−15	e 40·0	45·3
Vienna		81·7	322	12 13	− 4	22 40	+ 6	e 39·8	44·8
Scoresby Sund		81·7	350	12 48?	+31	22 33	− 1	39·8	—
Wellington		81·9	143	12 22	+ 4	22 13	−23	34·8	—
Hamburg		82·6	328	e 12 25	+ 4	e 22 0	−43	e 39·8	45·4
Graz		82·8	321	e 12 24	+ 2	e 22 34	−11	40·8	46·7
Zagreb		83·1	319	e 12 24	0	e 22 34	−14	e 40·8	44·5
Cheb		83·1	324	e 22 41	S	(e 22 41)	− 7	e 42·8	47·8
Gottingen		83·6	326	e 12 18	− 8	e 22 44	− 9	e 39·3	46·8
Tananarive		84·7	247	—	—	e 22 46	−19	e 35·6	49·3
Innsbruck		85·1	322	12 48?	+14	—	—	—	45·8

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		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Feldberg		85·2	326	—	—	i 23 4	− 6	e 42·7	47·7
Treviso		85·5	320	11 39	−57	e 21 8	?	41·8	58·5
Stuttgart		85·6	324	e 12 34	− 2	e 23 3	−11	e 42·8	48·9
De Bilt		85·8	328	12 39	+ 2	e 23 15	− 1	e 37·8	47·5
Padova		85·8	320	e 10 42	−115	e 22 3	?	—	—
Dyce		86·0	335	e 12 36	− 2	i 23 6	[0]	e 33·4	47·8
Chur		86·5	322	e 12 36	− 5	—	—	e 44·5	—
Strasbourg		86·5	325	e 12 48?	+ 7	e 22 48?	[−22]	e 35·8	48·3
Victoria		86·6	38	13 16	+35	23 23	0	42·1	53·3
Uccle		87·0	327	e 12 48?	+ 5	e 23 16	[+ 3]	e 37·8	48·3
Florence		87·0	319	12 40	− 3	23 18	[+ 5]	35·3	40·8
Rocca di Papa		87·2	317	e 12 23	−21	—	—	e 45·7	57·4
Edinburgh		87·3	334	—	—	i 24 13	PS	41·8	48·5
Placenza		87·3	320	e 12 18	−27	23 8	−22	30·8	50·0
Durham		87·4	332	23 26	S	(23 26)	− 5	e 39·8	50·6
Catania		87·7	312	e 15 52	PP	24 25	PS	e 46·3	54·0
Neuchatel		87·8	323	e 12 49	+ 2	—	—	—	46·8
Stonyhurst		88·2	331	e 12 36	−13	23 23	[+ 2]	41·8	50·8
Kew		88·8	330	e 12 54	+ 2	23 41	− 4	40·8	48·7
Paris		89·1	326	e 12 48?	− 5	e 25 0	?	43·8	47·8
Oxford		89·2	330	—	—	i 23 32	[+ 4]	e 39·6	49·4
Ivigtut		94·0	355	—	—	23 48?	[− 7]	47·8	—
Almeria		99·4	320	—	—	e 24 13	[−10]	49·8	56·1
Granada		100·0	320	e 14 37	?	e 25 57	+31	e 47·8	57·6
Chicago		108·2	24	—	—	e 29 24	?	e 51·8	—
Toronto		108·4	16	e 18 27	[+14]	e 28 18	PS	68·0	—
Ann Arbor	N.	109·0	20	—	—	e 23 36	?	e 51·0	—
Florissant		109·7	26	e 18 51	[+34]	e 28 8	PS	e 49·8	63·3
St. Louis		109·9	26	—	—	e 24 59	[−14]	49·7	56·3
La Paz		167·4	53	20 12	[+11]	—	—	79·8	103 8

Additional readings :—
Zi-ka-wei iN = +2m.2s., +2m.18s. = P_g, and +3m.41s. = S_g, iE = +3m.55s.
Medan i = +13m.33s. and +19m.51s.
Batavia P = +6m.40s.
Dehra Dun S = +16m.28s. = SS +26s.
Adelaide i = +18m.48s. = PS +5s.
Riverview PS = +19m.44s., eSSS = +26m.26s.
Helsingfors PPN = +14m.21s., PPPE = +15m.53s., PSE = +21m.5s., eSSE = +25m.17s., eSSN = +25m.21s., SSSE = +28m.43s.
Honolulu T.H. e = +30m.48s.
Upsala SSS = +30m.8s.
Sitka eSSS = +30m.3s., e = +30m.52s.
Potsdam iZ = +12m.19s., iN = +22m.33s.
Vienna iN = +13m.43s.
Scoresby Sund +18m.18s. and +24m.6s., SS = +29m.48s.
Wellington e = +27m.48s. ? = SS +7s.
Hamburg eZ = +12m.34s.
Zagreb ePS = +24m.11s.
Cheb eS = +32m.28s.
Tananarive eN = +23m.19s., eE = +23m.52s. = PS +4s., and +27m.4s.
Feldberg e?N = +10m.12s., iN = +16m.0s. = PP +12s.
Stuttgart ePPEZ = +15m.55s., eSSS = +32m.53s., eZ = +34m.48s., eEN +35m.18s.
De Bilt ePPZ = +15m.44s.
Victoria SE = +23m.1s. = SKS −10s.
Uccle ePP = +16m.6s., eSS = +29m.2s.
Kew SS = +29m.28s.
Granada i = +15m.36s. and +18m.9s.
Ann Arbor eN = +28m.12s., e?E = +28m.48s., eN = +42m.18s.
Florissant eNZ = +21m.38s., eN = +38m.58s., eEN = +43m.48s.
St. Louis eN = +26m.23s. = SKKS +17s., +28m.33s. = PS +6s., and +34m.53s.
Long waves were also recorded at Charlottesville, La Plata, Rio de Janeiro, and other European stations.

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Aug. 20d. Readings also at 0h. (Feldberg, Granada, and Stuttgart), 3h. (near Tyosi), 4h. (Batavia, Christchurch, and Wellington), 5h. (Bombay), 9h. (Florissant, St. Louis, and Scoresby Sund), 10h. (Ekaterinburg and Tashkent), 11h. (near Andijan and near Samarkand), 12h. (Ekaterinburg, Tashkent, and near Santiago), 13h. (Port au Prince), 15h. and 17h. (La Paz), 18h. (Ekaterinburg and La Paz), 19h. (Florissant and Tashkent), 20h. (Wellington), 22h. (Mizusawa and near La Paz), 23h. (La Paz).

Aug. 21d. 1h. 33m. 5s. Epicentre 39°·0N. 14° 5E. N.3.

A = +·752, B = +·195, C = + 629.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Messina	1·2	134	0 5	−12	—	—	—	—
Trenta	1·4	79	i 0 20	0	i 0 40	S*	—	—
Catania	1·6	163	e 0 28	P*	0 51	S_g	1·1	1·2
Mineo	1·8	171	0 26	0	—	—	—	—
Casamicciola	1·8	345	0 25	− 1	1 1	S*	—	2·0
Rocca di Papa	3·1	334	e 0 44	0	—	—	—	3·7

Long waves were also recorded at Zagreb.

Aug. 21d. 6h. 55m. 20s. Epicentre 37°·0N. 44° 0E. (as on July 9d.). X.

A = +·574, B = +·555, C = +·602; D = +·695, E = −·719;
G = +·433, H = +·418, K = − 799.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara	N.	7·3	247	e 2 12	+28	4 27	+81	5·2	—
Tashkent		20·0	67	4 29	− 1	i 8 8	+ 2	e 11·7	15·4
Pulkovo		24·4	343	5 16	+ 2	e 9 34	+ 4	12·7	—
Helsingfors	N.	26·1	338	e 5 34	+ 4	e 10 0	0	—	—
Copenhagen		28·3	321	—	—	11 40	+63	15 7	—

Additional readings:—
Tashkent e = +5m.4s.
Long waves were recorded at Stuttgart and Strasbourg.

Aug. 21d. 10h. 44m. 8s. Epicentre 41°·2N. 143°·4E. N.3.

A = −·604, B = +·449, C = +·659; D = +·596, E = +·803;
G = −·529, H = +·393, K = −·752.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Urakawa	1·1	334	0 5	−11	0 19	− 9	—	—
Kusiro	1·9	23	0 29	+ 1	0 48	− 1	—	—
Aomari	2·0	259	0 29	0	0 57	+ 6	—	—
Morioka	2·3	229	0 32	− 1	1 4	+ 5	—	—
Sapporo	2·4	309	0 34	0	1 0	− 2	—	—
Nemuro	2·6	37	0 39	+ 2	1 33	S_g	—	—
Mizusawa	2·7	220	0 39	0	1 20	S*	—	—
Akita	2·9	239	0 47	+ 6	1 20	+ 6	—	—
Sendai	3·6	214	0 53	+ 2	1 33	+ 1	—	—
Hukusima	4·2	215	0 58	− 2	1 46	− 2	—	—
Tyosi	5·8	201	e 1 25	+ 3	—	—	e 3·0	—
Nagoya	7·9	222	e 1 59	+ 7	—	—	—	—
Osaka	9·0	226	2 18	+11	—	—	4·3	5·3
Irkutsk	28·6	306	e 5 45	− 8	e 10 34	− 8	15·9	18·5
Ekaterinburg	52·9	317	—	—	16 31	−10	23·9	32·8
Tashkent	53·9	297	—	—	e 16 40	−14	e 27·9	34·0

Additional readings:—
Tyosi eP_g = +1m.51s.
Long waves were also recorded at Koti, Kucino, Pulkovo, and the European stations.

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Aug. 21d. 15h. 6m. 0s. Epicentre 41°·6N. 146°·9E. N.3.

A = −·626, B = +·408, C = +·664; D = +·546, E = +·838: G = −·556, H = +·363, K = −·748.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Kusiro		2·3	307	0 7	−26	0 45	−14	—	—
Urakawa		3·1	280	0 31	−13	1 21	+ 1	—	—
Muroran		4·5	281	0 57	− 7	1 59	+ 4	—	—
Morioka		4·8	249	1 6	− 2	2 15	S*	—	—
Mizusawa	E.	5·1	242	1 20	+ 7	2 30	S*	—	—
Akita		5·5	252	1 24	+ 6	2 42	S*	—	—
Sendai		5·7	236	1 26	+ 5	2 41	S*	—	—
Hukusima		6·3	235	1 30	0	2 59	S*	—	—
Kumagaya		8·0	230	2 1	+ 8	3 45	+21	—	—
Irkutsk		30·4	305	—	—	11 0?	−10	17·0	18·8
Ekaterinburg		54·3	318	e 8 40	−43	e 20 35	SS	29·0	—

Mizusawa gives also SN = +2m.18s.
Long waves were also recorded at Tashkent and Copenhagen.

Aug. 21d. Readings also at 1h. (Catania, Messina, near Trenta, and near La Paz), 2h. (Ekaterinburg, Irkutsk, Tashkent, Vladivostok, and near Taihoku), 3h. (Copiapo), 6h. (near Taihoku), 7h. (Messina and near Trenta), 8h. (near Manila), 9h. (Paris), 10h. and 11h. (near Tyosi), 14h. (Vladivostok), 16h. (Feldberg), 17h. (Christchurch and near Wellington), 18h. (Port au Prince), 19h. (Ekaterinburg, Pulkovo, Florissant, and Sitka), 20h. (Irkutsk, Tashkent, and Honolulu T.H.).

Aug. 22d. 0h. 44m. 54s. Epicentre 35°·0N. 27°·5E. (as on 1930 Jan. 23d.). R.3.

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

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara	N.	7·0	95	e 1 46	+ 7	3 0	+ 1	—	—
Trenta		9·8	299	1 11	−67	2 51	−77	—	—
Sebastopol		10·7	24	e 2 26	− 5	—	—	—	—
Yalta		10·8	26	e 2 28	− 4	e 4 7	−26	—	—
Simferopol		11·1	25	e 2 36	0	—	—	—	—
Rocca di Papa		13·4	304	e 3 0	− 7	—	—	—	5·9
Budapest		13·9	336	e 3 6?	− 8	—	—	—	—
Zagreb		13·9	324	e 3 16	+ 2	—	—	—	—
Chur		17·9	317	e 4 11	+ 6	e 7 38	SS	—	—
Neuchatel		19·9	313	e 4 26	− 3	—	—	—	—
Copenhagen		23·1	338	—	—	9 4	− 3	14·1	—
Pulkovo		24·8	3	5 17	− 1	e 9 38	+ 1	13·1	—
Ekaterinburg		31·2	35	e 7 3	PP	e 11 21	− 2	15·1	—

Additional readings:—
Rocca di Papa eP = +3m.21s. = PP +2s.
Long waves recorded by Stuttgart.

Aug. 22d. 9h. 44m. 57s. Epicentre 44°·0N. 84°·0E. N.3.

A = +·075, B = +·715, C = +·695; D = +·995, E = −·105; G = +·073, H = +·691, K = −·719.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Almata	5·1	264	1 16	+ 3	2 18	+ 8	i 2·5	3·1
Andijan	9·2	253	e 2 16	+ 6	e 3 38	−16	e 4·5	5·1
Tashkent	11·2	261	e 2 43	+ 6	(4 3?)	−40	4·1	—
Samarkand	13·4	257	2 54	−13	e 4 57	−40	—	—
Irkutsk	15·8	52	e 3 38	0	e 6 52	+18	8·4	11·4

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.
Agra		17·5	197	e 2 57	−63	8 17	+64	11·5	—
Ekaterinburg		19·4	319	e 4 18	− 5	i 8 1	+ 7	i 10·4	12·0
Bombay		26·8	204	5 33	− 3	10 14	+ 2	13·7	17·1
Kucino		31·2	309	—	—	(e 12 57)	SS	e 13·0	19·0
Vladivostok		34·2	74	(8 39)	PPPP	—	—	8·6	—
Pulkovo		35·4	316	e 6 51	− 2	12 33	+ 6	20·0	21·8
Helsingfors	E.	38·1	316	e 7 0	−16	e 12 58	−10	—	—
	N.	38·1	316	e 7 4	−12	e 13 2	− 6	—	—
Feldberg	N.	49·5	306	—	—	e 13 39	?	e 25·9	30·6

Additional readings :—
Agra eN = +3m.2s.
Helsingfors SSSN = +15m.52s.
Feldberg eN = +20m.26s. and +22m.57s.
Long waves were also recorded at Hong Kong and several European stations.

Aug. 22d. Readings also at 0h. (near Manila), 1h. (near Mizusawa, Nagoya, Tyosi, and near Taihoku), 4h. (Rocca di Papa, Copiapo, and near Nagasaki), 5h. (near Budapest, Graz, and Vienna), 7h. (near Nagasaki), 10h. (near Tyosi), 12h. (Samarkand, near Almata, and Andijan), 15h. (Ann Arbor), 18h. (Andijan, near Almata, and near Manila), 19h. (Ekaterinburg, Irkutsk, Tashkent, and near Ksara), 22h. (Dehra Dun).

Aug. 23d. 10h. 53m. 18s. Epicentre 27°·5N. 55°·0E. R.1.

(as on 17d.).

Probable error of epicentre ±0°·27.

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

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara	N.	17·6	297	4 3	+ 1	7 32	+17	9·2	—
Tashkent		18·1	37	i 4 6	− 2	e 8 6	+39	9·4	12·7
Bombay		18·5	114	4 16	+ 3	8 11	+35	10·6	16·0
Andijan		19·5	43	4 22	− 2	8 19	+23	11·5	—
Agra	E.	20·5	85	i 4 21	−14	i 8 22	+ 6	11·5	13·9
	N.	20·5	85	4 42	+ 7	8 14	− 2	11·8	13·1
Helwan		20·9	282	e 4 35	− 4	i 8 35	+11	—	14·5
Theodosia		23·5	323	5 6	+ 1	9 18	+ 4	11·7	—
Almata		23·7	43	5 13	+ 6	9 58	SS	12·7	—
Yalta		23·8	321	e 5 7	− 1	9 25	+ 6	—	—
Hyderabad		23 8	110	4 50	−18	9 2	−17	11·5	15·6
Simferopol		24·1	322	e 5 8	− 3	e 9 28	+ 3	—	—
Sebastopol		24·2	321	5 11	− 1	9 32	+ 5	—	—
Kodaikanal		27·3	125	e 10 6	S	(e 10 6)	−14	i 16·3	18·6
Ekaterinburg		29·6	6	e 5 51	−10	i 10 44	−14	13·7	—
Calcutta	E.	30 6	90	6 7	− 3	11 29	+15	15·8	20·0
	N.	30·6	90	6 14	+ 4	11 31	+17	15·8	19·9
Colombo		31·3	128	6 18	+ 1	11 23	− 1	20·7	26·0
Trenta		34·1	301	i 6 32	− 9	11 52	−16	—	—
Budapest		34·3	316	6 36	− 7	12 4	− 7	18·7	24·2
Catania		34·8	299	e 6 49	+ 2	12 20	+ 2	e 26·2	32·1
Zagreb		35·8	311	e 6 57	+ 1	e 12 32	− 1	e 20·4	21·3
Naples	N.	35·9	304	e 6 42	−15	e 12 22	−13	19·7	—
Vienna		36·3	317	7 2	+ 2	12 33	− 8	—	35·9
Pulkovo		36·4	340	7 0	− 1	12 37	− 5	17·7	23·6
Graz		36·5	314	e 6 4	−58	i 12 40	− 4	e 19·7	22·4
Laibach		36·8	315	e 7 8	+ 3	e 12 51	+ 3	e 21·9	26·0

Continued on next page.

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		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Konigsberg		37·0	327	i 8 10	PP	i 12 53	+ 2	e 24·7	—
Rocca di Papa		37·2	304	i 7 8	0	i 12 55	+ 1	e 21·9	27·0
Venice		38·1	310	e 7 17	+ 1	—	—	—	—
Treviso		38 3	312	i 7 19	+ 1	i 13 10	− 1	22·7	27·4
Helsingfors		38·5	336	i 7 16	− 3	i 13 8	− 6	—	—
Padova		38·5	310	e 7 19	0	i 13 13	− 1	e 22·7	24·2
Florence		38·6	306	7 21	+ 1	13 12	− 3	18·2	22·2
Innsbruck		39·2	313	e 7 24	− 1	—	—	—	—
Cheb		39·4	317	e 7 27	0	e 13 33	+ 6	e 22·7	27·7
Potsdam		39·8	320	i 7 34	+ 4	i 13 36	+ 3	e 18·0	27·5
Piacenza		39·9	310	7 38	+ 7	i 13 39	+ 4	i 16·9	30·5
Jena		40·1	318	e 7 30	− 3	e 13 40	+ 2	e 21·7	27·5
Chur		40·4	311	e 7 29	− 6	e 13 39	− 3	—	—
Stuttgart		41 0	314	i 7 39	− 1	i 13 49	− 2	e 23·7	29·2
Zurich		41·1	311	i 7 36	− 5	e 13 48	− 5	—	—
Upsala		41·1	333	e 7 40	− 1	i 13 48	− 5	—	28·0
Gottingen		41·3	318	e 7 37	− 6	i 13 56	0	e 22·2	25·2
Copenhagen		41·5	326	7 44	0	13 58	− 1	—	—
Karlsruhe		41·6	315	e 7 42?	− 3	—	—	e 31·7	—
Feldberg	N.	41·8	316	i 7 40	− 7	i 13 43	−20	—	27·5
Strasbourg		41·9	313	e 7 43	− 5	i 14 1	− 4	19·7	29·3
Hamburg		42·0	321	e 7 48	− 1	i 14 6	0	—	29·4
Neuchatel		42·1	312	i 7 43	− 6	i 14 1	− 7	—	—
Besançon		42·8	310	e 7 53	− 2	14 19	+ 1	22·7	—
Irkutsk		44·0	41	8 5	0	14 33	− 3	23·7	28·1
De Bilt		44·3	318	i 8 9	+ 2	14 41	+ 1	e 21·7	26·9
Algiers		44·4	296	8 8	0	i 14 45	+ 4	21·7	33·7
Uccle		44·7	316	i 8 8	− 2	i 14 43	− 3	e 21·7	—
Paris		45·3	313	i 8 15	0	e 14 48	− 7	18·7	36·7
Tortosa		46·2	302	8 21	− 1	15 6	− 1	e 24·7	29·0
Bergen		46·8	330	12 9	?	—	—	i 22·7	—
Tananarive		47·0	190	8 33	+ 4	15 16	− 3	e 22·5	26·2
Alicante		47·1	299	e 8 32	+ 3	i 15 21	+ 1	e 27·5	—
Phu-Lien		47·2	87	8 32	+ 2	e 15 25	+ 4	23·7	—
Kew		47·5	318	i 8 33	+ 1	i 15 24	− 2	22·7	27·4
Medan		48·0	111	e 9 0	+24	—	—	e 28·7	—
Oxford		48·2	316	8 37	− 1	i 15 32	− 4	e 25·7	33·1
Almeria		48·7	296	8 44	+ 3	15 45	+ 2	—	28·5
Durham		48·8	320	—	—	i 15 42	− 2	e 22·7	32·2
Stonyhurst		49·1	319	8 46	+ 2	15 51	+ 3	—	33·7
Dyce		49·6	324	8 50	+ 2	i 15 49	− 6	e 23·3	30·6
Granada		49·7	296	i 8 52	+ 3	i 16 6	+ 9	29·5	35·1
Toledo		49·8	300	8 50	0	i 15 55	− 3	e 21·6	34·0
Edinburgh		49·9	321	8 52	+ 1	16 0	+ 1	26·7	37·3
Malaga		50·4	296	8 54	0	15 58	− 8	20·7	—
San Fernando		51·9	296	16 27	S	(16 27)	0	31·0	32·2
Hong Kong		53·4	82	i 9 17	0	16 48	+ 1	24·9	34·7
Zi-ka-wei	Z.	57·1	68	i 9 44	0	i 17 46	+ 8	—	36·9
Scoresby Sund		59·9	339	10 0	− 4	i 18 22	+ 7	—	—
Batavia		60·4	117	i 10 6	− 1	i 19 54	(− 1)	—	—
Manila		62·3	86	i 10 21	+ 1	i 18 50	+ 4	30·1	—
Vladivostok		62·5	52	e 6 38	?	—	—	e 23·7	—
Koti		66·3	63	10 41	− 6	19 32	− 4	—	38·4
Nagoya		68·4	60	e 11 3	+ 2	—	—	—	—
Mizusawa	E.	70·3	55	(11 14)	+ 1	11 14	P	—	—
Cape Town		70·5	213	9 0	?	i 20 28	+ 1	38·0	44·7
Ivigtut		72·1	330	11 18	− 5	20 43	− 3	—	—
Ann Arbor	N.	100·5	330	—	—	24 54	{− 3}	e 51·5	—
Chicago		102·6	333	—	—	e 34 33	?	e 55·0	—
Florissant		106·2	333	e 14 2	−10	e 26 15	?	—	63·0
St. Louis		106·3	333	e 22 14	PPPP	e 27 0	?	—	65·4
La Paz		126·6	269	e 19 10	[+10]	26 14	[+ 4]	62·7	77·9

For Notes see next page.

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NOTES TO AUG. 23d. 10h. 53m. 18s.

Additional readings :—
Vienna PP = +8m.18s., PPP = +8m.56s., S_cS? = +16m.50s.
Laibach e = +8m.7s. =PP −16s.
Konigsberg eSS = +14m.47s.
Helsingfors iPPP = +8m.49s. =PP +6s., eSSEN =+15m.18s., eSSSZ =+15m.55s.
Cheb ePP = +9m.2s., eSS = +16m.46s.
Potsdam eE = +13m.31s.
Jena eN = +17m.36s. =S_cS −6s.
Stuttgart iPPEZ = +9m.20s., iEZ = +13m.30s., eSSEZ = +16m.26s., iE = +18m.33s., iN = +18m.47s.
Upsala PP = +9m.13s., SS = +16m.40s., SSS = +17m.40s.
Gottingen iPZ = +7m.42s.
Copenhagen +9m.29s. =PP +14s. and +17m.18s. =SSS −3s.
Feldberg iN = +10m.35s. and +10m.40s., eE = +14m.32s., iN = +17m.26s.
Strasbourg PP = +9m.28s., iSS = +17m.27s. =SSS −4s.
Hamburg eE = +13m.37s.
De Bilt PPZ = +9m.56s. =P_cP +0s., eSS = +18m.0s. =S_cS −8s.
Algiers SS = +18m.6s. =S_cS −2s.
Uccle SS = +18m.2s. =S_cS −8s.
Tananarive P_cPE = +9m.0s., iPSE = +15m.24s., iPSN = +15m.27s., iSS = +18m.33s., eSSSN = +19m.55s., eSSSSE = +20m.15s.
Kew ePPEZ = +10m.33s., eSSEN = +18m.24s.
Medan i = +18m.29s. =S_cS −2s. and +18m.39s. =SS −7s.
Oxford i = +18m.25s. =S_cS −8s.
Durham ? = +18m.32s. =S_cS −7s.
Dyce iSS = +18m.33s. =S_cS −9s.
Granada i = +16m.2s.
San Fernando SN = +17m.12s.
Hong Kong SS = +20m.37s.
Scoresby Sund +19m.54s. =S_cS +3s., and +24m.12s. =SSS −6s.
Manila PPE = +13m.0s., PPPZ = +14m.12s., PPPPN = +15m.5s., PSE = +19m.9s., SSE = +23m.32s.
Ann Arbor eN = +27m.18s. and +33m.18s.
Florissant iZ = +18m.42s., iEZ = +22m.35s., iZ = +27m.51s. =PS +1s., eEZ = +33m.20s. =SS −7s.
St. Louis eN = +28m.4s.
La Paz PPE = +22m.24s., iE = +24m.2s.
Long waves were also recorded at Johannesburg, Melbourne, Wellington, Rio de Janeiro, and Dakar.

Aug. 23d. 15h. 7m. 28s. Epicentre 3°·0N. 65°·0E. (as on 1926 Dec. 2d.). X.

A = +·422, B = +·905, C = +·052 ; D = +·906, E = −·423 ;
G = +·022, H = +·047, K = −·999.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo	15·3	75	3 38	+ 6	—	—	—	11·5
Bombay	17·7	25	(4 27)	+24	(7 55)	+38	7·9	12·4
Hyderabad	19·6	42	4 25	0	8 28	+30	9·8	17·0
Tashkent	38·5	5	7 20	+ 1	i 13 1	−13	e 20·9	22·4
Ekaterinburg	54·0	358	e 9 21	0	e 16 21	−35	22·5	32·9
Pulkovo	62·7	341	e 10 8	−15	e 18 8	−43	30·5	—

Additional reading and notes :—
Bombay gives P as S and S as L, also P =15h.7m.13s.
Long waves were also recorded at Kodaikanal, Manila, Irkutsk, and Copenhagen.

Aug. 23d. Readings also at 4h. (Ksara), 6h. (Sumoto), 11h. (near Andijan), 13h. (near Tyosi), 14h. (Granada, Kew, Ksara, and Tashkent), 15h. (Ekaterinburg), 17h. (Tokyo), 18h. (near Algiers), 20h. (Tyosi (2)).

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Aug. 24d. 9h. 8m. 40s. Epicentre 8°·0S. 157°·0E. (as on 1926 Nov. 6d.). R.3.

A = −·911, B = +·387, C = −·139; D = +·391, E = +·921;
G = +·128, H = −·054, K = −·990.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	26·4	191	e 5 29	− 4	e 10 6	+ 1	e 14·0	15·7
Sydney	26·4	191	—	—	i 10 2	− 3	13·8	14·3
Adelaide	31·8	209	—	—	i 11 30	− 2	14·8	19·9
Melbourne	31·8	198	—	—	i 11 35	+ 3	15·1	17·1
Wellington	36·9	157	e 8 38	PP	e 13 3	+13	18·3	24·3
Christchurch	38·1	163	e 8 41	PP	e 13 17	+ 9	i 18·8	25·6
Manila	42·3	302	e 7 54	+ 3	i 14 20	+10	i 22·0	—
Perth	45·0	232	e 11 25	?	e 18 10	(− 2)	24·3	—
Batavia	49·8	270	e 9 8	+18	i 15 55	− 3	—	—
Hong Kong	51·7	307	8 59	− 5	(16 31)	+ 7	16·5	27·1
Phu-Lien	57·2	301	9 20?	−25	—	—	—	—
Irkutsk	75·1	330	e 11 44	+ 3	e 21 18	− 3	e 37·3	—
Bombay	87·1	290	e 12 48	+ 4	—	—	—	—
Victoria	89·2	41	23 55	S	(23 55)	+ 7	41·3	44·9
Tashkent	93·6	311	13 22	+ 8	i 24 26	− 3	e 43·3	54·2
Ekaterinburg	100·2	327	e 13 46	+ 2	24 22	[− 5]	·41·3	56·4
Florissant	112·6	50	e 20 17	?	e 28 55	PS	—	59·3
Kucino	112·7	328	—	—	e 25 25	[0]	e 54·4	97·2
Pulkovo	114·7	334	—	—	25 39	[+ 6]	54·3	69·6
Zagreb	129·5	326	e 22 35	?	—	—	—	—
Edinburgh	129·6	345	22 20?	?	—	—	—	—
De Bilt	130·3	337	e 21 32	PP	—	—	e 64·3	—
Stuttgart	131·1	333	e 21 36	PP	e 22 45	PKS	e 71·3	—
Strasbourg	131·9	334	21 42	PP	22 53	PKS	e 41·3	—
Florence	133·4	326	21 55	PP	—	—	—	61·3
Rocca di Papa	133·8	323	e 20 40	?	—	—	—	—
Paris	133·9	338	e 21 20?	PP	—	—	70·3	78·3
Granada	145·9	332	e 19 39	[+ 3]	i 23 10	PKS	e 73·6	102·8

Additional readings :—
Riverview iP$_c$S = +8m.27s., iEN = +10m.24s., iE = +11m.37s.
Manila iEN = +10m.18s. and +11m.36s.
Batavia iN = +16m.0s.
Tashkent SKS = +23m.49s., PS = +25m.33s.
Ekaterinburg PS = +26m.41s., SS = +32m.8s.
Florissant eE = +36m.10s.
Pulkovo PP = +19m.27s., PS = +29m.20s.
Granada i = +19m.46s.
Long waves were also recorded at Honolulu T.H., Kodaikanal, Vladivostok, and other European stations.

Aug. 24d. 10h. 51m. 20s. Epicentre 30°·0N. 100°·0E. N.3.

A = −·150, B = +·853, C = +·500; D = +·985, E = +·174;
G = −·087, H = +·492, K = −·866.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien		10·9	146	e 4 29	S	(e 4 29)	− 7	5·7	6·6
Calcutta	N.	12·8	237	e 5 20	S	(e 5 20)	− 2	7·8	—
Hong Kong		14·9	118	—	—	6 5	− 8	7·5	8·0
Agra		19·4	267	8 3	S	(8 3)	+ 9	14·4	15·2
Irkutsk		22·5	7	4 53	− 3	e 8 58	+ 3	11·7	12·1
Almata		22·6	312	5 4	+ 7	—	—	—	—
Hyderabad		23·3	243	5 0	− 4	9 16	+ 6	12·5	18·3
Manila		24·7	124	e 5 20	+ 3	i 9 17	−19	11·5	13·5
Andijan		24·8	302	5 25	+ 7	9 42	+ 5	—	—
Bombay		27·0	252	10 39	S	(10 39)	+24	16·8	17·2

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.
Tashkent	27·2	303	e 5 46	+ 6	10 28	+10	e 13·7	17·8
Ekaterinburg	38·3	325	e 7 10	− 8	13 8	− 3	18·7	20·9
Kucino	50·1	320	e 10 28	PP	e 14 58	SS	e 26·9	—
Pulkovo	54·3	325	9 23	0	e 17 3	+ 4	28·7	34·1
Helsingfors	57·0	325	e 9 41	− 2	i 13 58	?	e 29·4	—

Additional readings :—
Agra PE = +8m.9s., eSN = +11m.44s., eSE = +12m.21s.
Bombay S = +14m.35s.
Pulkovo i = +24m.9s.
Long waves were also recorded at Kodaikanal, Taihoku, and several European stations.

Aug. 24d. Readings also at 0h. (Ekaterinburg, Tashkent, and Ksara), 1h. (Manila and Sumoto), 2h. (Ekaterinburg, near Mizusawa, and Osaka), 3h. (Andijan), 8h. (Hong Kong, Barcelona, and near La Paz), 10h. (La Paz), 11h. (Andijan, Ekaterinburg, and Strasbourg), 13h. (Tokyo and Tyosi), 19h. (near Manila), 21h. (near Medan).

Aug. 25d. Readings at 0h. (Ekaterinburg, Tashkent, and near Lick), 1h. (near Manila and near Sumoto), 2h. (La Plata and near Malabar), 3h. (Wellington), 5h. (near Port au Prince), 8h. (Florissant, Pulkovo, Reykjavik, near Merida, Oaxaca, and Tacubaya), 9h. (Ekaterinburg and Tashkent), 12h. (Irkutsk, Tashkent, and Reykjavik), 13h. (Ekaterinburg and near Tacubaya), 15h. (Reykjavik (6), Scoresby Sund (3), Tashkent, Ekaterinburg, Edinburgh, Kew, De Bilt (2), Uccle, Paris, Strasbourg, and Stuttgart), 16h. (Granada and near Reykjavik and near Matuyama), 17h. (Ekaterinburg, Tashkent, and near Zagreb), 18h. (La Paz, Scoresby Sund (2), and Reykjavik (3)), 20h. (Ekaterinburg, Irkutsk, Tashkent (2), and Ksara (2)), 21h. (near Reykjavik), 22h. (Scoresby Sund), 23h. (Irkutsk and Kucino).

Aug. 26d. 12h. 39m. 22s. Epicentre 42°·0N. 144°·4E. N.3.

A = −·604, B = +·433, C = +·669 ; D = +·582, E = +·813 ;
G = −·544, H = +·389, K = −·743.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Obihiro	1·3	316	0 17	− 1	0 31	− 2	—	—
Nemuro	1·6	33	(0 31)	P*	(0 44)	+ 3	—	—
Sapporo	2·5	295	0 34	− 2	1 2	− 2	—	—
Aomori	2·9	246	0 48	+ 7	1 22	+ 8	—	—
Morioka	3·4	228	0 52	+ 3	1 32	+ 5	—	—
Mizusawa	3·8	223	0 49	− 5	1 46	S*	—	—
Sendai	4·6	218	1 11	+ 5	2 2	+ 4	—	—
Ootomari	4·8	346	e 0 33	−35	—	—	—	—
Hukusima	5·2	218	1 17	+ 3	2 19	+ 6	—	—
Kakioka	6·6	210	1 37	+ 3	2 54	+ 6	—	—
Tyosi	6·8	205	e 1 44	+ 7	(e 2 58)	+ 5	e 3·0	—
Tokyo	7·3	211	1 48	+ 4	3 11	+ 5	—	—
Nagoya	8·9	224	e 2 19	+13	—	—	—	—
Osaka	10·0	226	2 29	+ 8	—	—	4·6	5·6
Irkutsk	28·7	305	5 45	− 8	10 28	−15	e 16·6	—
Ekaterinburg	52·8	317	i 8 59	−13	i 16 21	−18	19·6	—
Pulkovo	64·8	329	10 23	−14	—	—	35·6	—

Nemuro readings have been *increased* by 1m.
Long waves were recorded at Tashkent.

Aug. 26d. Readings also at 0h. (near Sumoto), 1h. (Ekaterinburg and Tashkent), 2h. (Reykjavik), 3h. (near Batavia and Malabar), 4h. (Granada, Florissant, Ekaterinburg, Tashkent, Medan, and near Reykjavik), 11h. (Ksara and Tashkent), 12h. (Ekaterinburg and Vladivostok), 14h. (Ksara and Ekaterinburg), 19h. (Ekaterinburg, near Irkutsk, near Tyosi, and Mizusawa).

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Aug. 27d. Readings at 0h. (Mizusawa), 1h. (Reykjavik), 4h. (Mizusawa), 5h. (Simferopol and Theodosia), 7h. (Phu-Lien, Ekaterinburg, Irkutsk, and Tashkent), 11h. (near Reykjavik), 12h. (Ekaterinburg, Irkutsk, and Vladivostok), 14h. (Suva, Christchurch, Wellington, Adelaide, Melbourne, Riverview, Manila, Vladivostok, and Irkutsk: these and the readings for 15h. appertain to a shock near New Hebrides, but they give no approximate determination, 15h. (Sydney, Honolulu T.H., La Paz, Tashkent, Ekaterinburg, Scoresby Sund, Copenhagen, De Bilt, Uccle, Paris, and Strasbourg), 16h. (Granada), 17h. (La Paz), 21h. (Manila), 23h. (Hong Kong, Phu-Lien, Bombay, Medan, Tashkent, and Ekaterinburg).

Aug. 28d. Readings at 2h. (Irkutsk and Scoresby Sund), 3h. (Bombay), 4h. (Bombay and Manila), 5h. (Berkeley and near Lick (2)), 6h. (Rocca di Papa), 7h. (Ksara and Mizusawa), 8h. (La Paz), 11h. (near Santiago), 12h. (Ekaterinburg, Irkutsk, and near Andijan), 13h. (Pulkovo, Tucson, Florissant, St. Louis, near Oaxaca, Vera Cruz, and Tacubaya), 19h. (Andijan), 21h. (near La Paz).

Aug. 29d. 8h. 27m. 40s. Epicentre 8°·7N. 83°·0W. (as on 1925 Jan. 28d.). R.2.

A = +·120, B = −·981, C = +·151; D = −·993, E = −·122; G = +·018, H = −·150, K = −·989.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Balboa Heights		3·4	84	(0 32)	−17	(1 4)	−23	(1·2)	—
Tacubaya		19·0	306	4 20	+ 1	8 20	+34	—	—
La Paz		29·1	150	e 5 45	−12	i 11 31	+41	14·9	17·9
Charlottesville		29·6	7	—	—	e 11 4	+ 6	e 16·6	—
St. Louis		30·6	350	e 6 8	− 2	e 11 15	+ 1	13·6	21·7
Georgetown		30·7	9	i 6 10	− 1	e 11 10	− 6	e 14·3	—
Florissant		30·8	350	e 6 12	0	e 11 21	+ 4	e 12·3	—
Chicago		33·3	354	—	—	e 12 7	+12	e 17·9	—
Ann Arbor	N.	33·6	359	—	—	e 12 8	+ 8	e 16·9	—
Tucson		34·9	316	e 6 53	+ 5	—	—	e 16·3	—
Toronto	N.	35·1	4	e 6 47	− 3	e 12 20	− 3	15·9	—
Lick		45·1	318	e 8 17	+ 3	—	—	—	—
Rio de Janeiro		50·2	130	e 10 45	PP	e 17 41	?	e 25·6	—
Victoria		52·2	327	9 10	+ 2	16 39	+ 8	27·8	34·2
Scoresby Sund		72·4	19	—	—	20 44	− 6	32·3	—
Malaga		75·7	56	e 11 47	+ 3	21 33	+ 5	—	—
Toledo		76·0	51	e 11 42	− 4	e 21 25	− 7	—	—
Granada		76·3	55	i 11 48	0	i 21 33	− 2	e 35·4	37·9
Edinburgh		77·1	34	e 16 20?	PPP	—	—	—	—
Oxford		78·1	40	—	—	e 21 40	−15	e 40·5	42·3
Kew		78·7	39	e 11 59	− 2	—	—	e 37·3	—
Paris		80·5	42	e 12 6	− 4	—	—	36·3	41·3
De Bilt		82·0	38	12 20	+ 2	e 22 31	− 6	e 40·3	42·9
Strasbourg		84·0	44	e 12 28	0	e 22 47	−11	40·3	—
Hamburg		84·8	37	e 12 29	− 3	—	—	e 45·3	—
Stuttgart		84·9	41	e 12 27	− 6	—	—	—	—
Lund		86·3	35	12 36	− 4	—	—	—	—
Rocca di Papa		88·5	49	e 12 50	0	—	—	e 34·5	35·8
Zagreb		90·0	44	12 59	+ 2	—	—	—	—
Pulkovo		93·8	28	13 11	− 4	23 28	[−26]	42·3	53·3
Kucino		99·3	30	—	—	e 23 53	[−29]	e 46·3	56·4
Ekaterinburg		108·0	21	e 18 42	PP	e 24 54	[−10]	47·3	61·3
Tashkent		123·9	25	—	—	e 24 20	?	e 59·3	67·5
Manila		146·7	316	19 39	[+ 2]	i 24 1	?	—	—

For Notes see next page.

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NOTES TO AUG. 29d. 8h. 27m. 40s.

Additional readings and note :—
Balboa Heights readings have been *increased* by 1m.
La Paz iN = +5m.55s., iE = +6m.31s.
Charlottesville e = +13m.20s.
St. Louis iPEN = +6m.13s.
Georgetown ePPZ = +7m.5s.
Florissant iPNZ = +6m.15s., eZ = +7m.7s. =PP +0s.
Chicago eSS = +14m.26s.
Ann Arbor eN = +13m.56s. and +14m.44s., eE = +15m.14s.
Lick eN = +8m.19s., eE = +8m.23s., eSN = +8m.30s.
Pulkovo PP = +16m.59s., PPS = +26m.20s.
Tashkent e = +42m.20s.
Long waves were also recorded at Irkutsk, Copenhagen, Kew, Cheb, and Uccle.

Aug. 29d. 20h. 2m. 36s. Epicentre 44°·2N. 146°·7E. N.2.

A = −·599, B = +·394, C = +·697 ; D = +·549, E = +·836 ;
G = −·583, H = +·383, K = −·717.

A depth of focus 0°·020 has been assumed.

		Corr. for Focus	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	°	m. s.	s.	m. s.	s.	m.	m.
Nemuro		+0·5	1·2	222	(0 28)	+ 4	(0 52)	+ 8	—	—
Urakawa		+0·2	3·5	236	(0 52)	− 1	(1 41)	+ 6	—	—
Ootomari		+0·2	3·7	312	i 1 47	S	(i 1 47)	+ 7	2·5	2·6
Sapporo		+0·1	4·0	256	0 59	+ 1	1 46	+ 1	—	—
Aomori		0·0	5·5	235	1 18	0	2 21	+ 1	—	—
Morioka		0·0	6·1	225	1 24	− 3	2 31	− 5	—	—
Mizusawa	E.	−0·1	6·5	221	1 30	− 1	2 43	0	—	—
	N.	−0·1	6·5	221	1 33	+ 2	2 45	+ 2	—	—
Akita		−0·1	6·6	230	1 34	+ 2	2 49	+ 3	—	—
Hukusima		−0·1	8·0	219	1 50	− 2	3 17	− 4	—	—
Kakioka		−0·2	9·4	214	2 6	− 4	3 51	− 3	—	—
Tyosi		−0·2	9·6	210	e 2 18	+ 5	(e 3 56)	− 3	e 3·9	—
Nagano		−0·2	9·9	224	2 18	+ 1	4 6	0	—	—
Tokyo		−0·2	10·0	214	2 18	0	4 9	+ 1	—	—
Wazima		−0·2	10·0	231	2 29	+11	4 22	+14	—	—
Nagoya		−0·3	11·7	223	e 2 42	+ 2	—	—	—	—
Osaka		−0·4	12·8	226	e 2 53	− 1	—	—	6·1	6·5
Kobe		−0·4	13·0	227	i 2 55	− 1	—	—	—	—
Almata		−2·1	48·8	296	e 8 26	0	—	—	—	—
Ekaterinburg		−2·2	52·3	319	8 42	−10	i 15 54	− 8	23·4	—
Andijan		−2·2	53·0	294	e 8 56	− 1	e 16 15	+ 3	—	—
Tashkent		−2·3	54·7	298	9 9	0	i 16 36	+ 2	—	28·9
Kucino		−2·5	63·5	324	—	—	e 18 12	−17	—	—
Scoresby Sund		−2·5	65·0	356	—	—	18 48	0	—	—
Copenhagen		−2·6	72·9	335	—	—	20 24?	− 1	33·4	—
De Bilt		−2·7	78·1	338	—	—	e 21 15	−10	e 39·4	—
Florissant	N.	−2·7	82·4	41	—	—	e 21 56	−16	—	—

Additional readings and notes :—
Nemuro readings have been *increased* by 1m.
Urakawa readings have been *increased* by 1m.
Kobe i = +3m.2s.
Kucino e = +18m.41s. =PS +5s.

Aug. 29d. Readings also at 0h. (Riverview), 4h. (Tyosi), 6h. (near Florissant, St. Louis, and near Tananarive), 7h. (Florissant, St. Louis, Edinburgh, Kew, Uccle, De Bilt, Paris, Strasbourg, Zagreb, Granada, Copenhagen, Pulkovo, Ekaterinburg, and Kucino), 8h. (Tashkent, Feldberg, and near Balboa Heights), 9h. (La Paz, Rio de Janeiro, Toronto, Tucson, Florissant (2), St. Louis, Granada, Malaga, and De Bilt), 11h. (Riverview, Melbourne, Wellington, near Algiers, and near Manila), 13h. (Ekaterinburg and Tashkent), 15h. (near Andijan), 18h. (Sebastopol, Simferopol, Theodosia, and Yalta), 19h. (Tyosi), 20h. (near Manila (2)), 21h. (Bombay, Zurich, and near Chur), 22h. (Ekaterinburg and Scoresby Sund), 23h. (Tashkent and near Andijan).

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Aug. 30d. 10h. 3m. 49s. Epicentre 8°·5S. 67°·0E. (as on 1929 Feb. 17d.). R.3.

A = +·386, B = +·910, C = −·148; D = +·920, E = −·391; G = −·058, H = −·136, K = −·989.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo		20·0	40	4 30	0	(8 25)	+19	8·4	11·8
Bombay		28·0	12	5 48	+ 1	10 39	+ 7	14·5	21·4
Hyderabad		28·3	23	8 11	?	11 24	?	13·1	15·2
Agra	E.	37·3	17	e 17 9	S_cS	e 19 4	L	19·5	20·1
	N.	37·3	17	e 17 24	S_cS	e 19 19	L	20·1	21·0
Manila		58·3	68	i 14 22	?	i 18 4	+11	—	—
Ekaterinburg		65·5	356	e 10 42	0	e 19 22	− 4	28·2	—
Kucino		68·7	344	—	—	e 20 5	0	e 35·4	38·1
Vienna	Z.	72·1	330	20 24	S	(20 24)	−22	—	—
Padova		73·1	324	e 21 34	?S	(e 21 34)	+36	—	—

Kucino gives also e = +24m.17s. =SS − 6s. and +27m.56s.
Long waves were also recorded at Hong Kong, Irkutsk, and Medan.

Aug. 30d. Readings also at 2h. (Rocca di Papa), 4h. (Taihoku), 12h. (Ekaterinburg, Ksara, Andijan, Tashkent, and near Lick), 13h. (near Bombay), 14h. (near Osaka), 15h. (near Ksara), 16h. (near Andijan), 22h. (Andijan, Oaxaca, and near Tacubaya), 23h. (Irkutsk, Hong Kong, and Phu-Lien).

Aug. 31d. 0h. 40m. 40s. Epicentre 33°·9N. 118°·6W. N.3.
(as given by Gutenberg, Richter, and Wood; see Bull. Seim. Soc. America, Vol. 22, No. 2, p. 138).

A = −·397, B = −·729, C = +·558; D = −·878, E = +·479; G = −·267, H = −·490, K = −·830.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Lick		4·2	326	e 1 0	0	i 1 56	+ 8	—	—
Berkeley	E.	5·0	324	e 1 10	− 1	e 2 1	− 7	e 2·8	—
Tucson		6·6	101	e 2 15	+41	—	—	i 3·6	—
Florissant		23·1	69	e 5 6	+ 4	—	—	—	13·2
St. Louis		23·2	70	e 4 35	−28	—	—	—	11·8

Additional readings:—
Lick iSN = +1m.8s., iN = +1m.20s.
Berkeley e = +1m.18s., eEN = +1m.25s.
Long waves were also recorded at Ann Arbor and De Bilt.

Aug. 31d. 1h. 14m. 24s. Epicentre 15°·5N. 122°·0E. (as on 1928 Nov. 21d.). X.

A = −·511, B = +·817, C = +·267; D = +·848, E = +·530; G = −·142, H = +·227, K = −·964.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	1·4	227	0 26	+ 6	0 52	+16	—	—
Hong Kong	10·1	314	i 2 20	− 2	4 10	− 6	4·8	5·8
Andijan	49·7	311	e 12 27	?	—	—	—	—
Ekaterinburg	61·5	327	10 41	+26	i 17 58	−38	28·6	—
Pulkovo	77·5	330	—	—	i 21 4	−44	—	—

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

Aug. 31d. Readings also at 0h. (Ekaterinburg, Tashkent, Phu-Lien, and Zi-ka-wei), 2h. (near Malabar), 3h. (Bombay, Medan, Manila, Phu-Lien, Irkutsk, Hong Kong, Tashkent, and near Andijan), 4h. (Copenhagen, Kucino, and De Bilt), 5h. (Konigsberg), 7h. (Tyosi), 8h. (near Batavia and Malabar), 10h. (Tananarive, Ekaterinburg, near Andijan, and Tashkent), 11h. and 13h. (La Paz), 14h. (Almata, Andijan, and Tyosi), 16h. (Rocca di Papa), 20h. (Andijan), 21h. (near Zagreb), 23h. (La Paz).

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Sept. 1d. 5h. 18m. 3s. Epicentre 25°·5N. 98°·0E. (as on 1930 Aug. 6d.). R.2.

A = −·126, B = +·894, C = +·431; D = +·990, E = +·139;
G = −·060, H = +·426, K = −·903.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien		9·2	119	e 1 57	−13	—	—	5·0	—
Hong Kong		15·1	99	—	—	6 26	+ 9	7·8	8·1
Agra	E.	17·9	280	3 37	−28	7 12	−10	9·4	12·1
	N.	17·9	280	e 3 7	−58	7 2	−20	9·2	10·4
Hyderabad		19·9	250	4 17	−12	7 59	− 5	10·0	13·4
Zi-ka-wei	E.	21·3	69	e 4 35	− 8	—	—	—	—
Medan		21·9	178	i 4 51	+ 1	e 11 40	L	(e 11·7)	—
Manila		24·1	112	i 5 11	0	i 9 36	+11	i 12·5	24·1
Bombay		24·2	259	5 20	+ 8	9 42	+15	13·0	13·5
Almata		24·7	321	5 22	+ 5	9 48	+12	—	—
Andijan		26·2	311	e 5 30	− 1	e 10 20	+18	—	—
Irkutsk		27·2	8	e 5 38	− 2	e 10 8	−10	14·4	16·2
Tashkent		28·5	311	e 5 53	+ 1	e 9 34	−66	e 15·0	15·8
Ekaterinburg		41·1	330	i 7 41	0	i 13 51	− 2	20·0	23·2
Baku		42·5	305	e 7 53	0	e 14 19	+ 6	22·0	30·6
Kucino		52·5	321	—	—	e 16 34	− 1	27·6	31·4
Pulkovo		57·0	326	9 44	+ 1	e 17 37	+ 1	31·0	—
Copenhagen		66·8	323	—	—	19 45	+ 3	36·0	—

Additional readings :—
Manila iN = +5m.34s.
Kucino SS = +20m.39s.
Long waves were also recorded at Calcutta, Kodaikanal, Batavia, and other European stations.

Sept. 1d. 17h. 43m. 17s. Epicentre 35°·2N. 81°·1E. N.1.

Probable error of epicentre ±0°·25.

A = +·126, B = +·807, C = +·576; D = +·988, E = −·155;
G = +·089, H = +·569, K = −·817.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Dehra Dun		5·5	209	0 33	−45	1 23	−57	2·7	3·7
Agra	E.	8·4	200	1 40	−19	i 3 23	−11	4·1	4·6
	N.	8·4	200	1 39	−20	3 19	−15	4·2	5·1
Almata		8·7	340	2 4	+ 1	4 34	+53	5·8	7·3
Andijan		8·8	312	e 2 6	+ 1	—	—	4·7	5·7
Tashkent		11·1	307	i 2 39	+ 3	4 41	0	—	6·7
Samarkand		12·0	296	e 2 47	− 1	—	—	—	4·6
Calcutta	E.	14·2	152	3 22	+ 4	—	—	7·8	—
	N.	14·2	152	3 20	+ 2	—	—	7·7	—
Hyderabad		17·9	188	4 2	− 3	7 55	+33	10·2	12·1
Bombay		17·9	206	4 3	− 2	7 33	+11	9·6	10·9
Irkutsk		23·7	37	5 6	− 1	9 30	+12	11·7	16·5
Baku		25·1	292	i 5 25	+ 4	i 9 56	+13	e 13·2	16·5
Ekaterinburg		25·7	334	i 5 24	− 2	9 55	+ 2	11·7	15·0
Phu-Lien		26·6	116	e 5 35	0	—	—	—	—
Colombo		28·3	183	5 54	+ 4	12 2	SS	14·8	19·2
Hong Kong		31·5	106	6 18	0	11 27	− 1	e 17·1	20·2
Medan		35·5	148	e 9 24	(− 3)	i 13 30	?	—	—
Kucino		35·7	319	6 56	+ 1	12 34	+ 2	e 17·7	22·1
Ksara		37·0	280	e 7 15	+ 9	12 54	+ 3	18·0	—
Pulkovo		40·7	325	7 39	+ 1	13 51	+ 4	20·7	27·2
Manila		41·2	110	7 43	+ 1	i 13 55	+ 1	22·8	28·9
Helsingfors		43·4	325	e 8 0	0	i 14 31	+ 4	e 21·9	—
Upsala		47·0	324	e 8 28	− 1	e 15 24	+ 5	e 21·7	26·2
Zagreb		49·2	304	e 8 43?	− 2	e 22 0	?	e 27·7	e 29·2

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.
Lund		49·5	317	—	—	16 0	+ 6	25·7	—
Copenhagen		49·9	317	8 53	+ 2	16 5	+ 6	25·7	—
Potsdam	N.	50·0	314	—	—	e 20 25	?	e 26·3	30·9
Cheb		50·8	310	—	—	e 15 43?	−29	—	32·7
Hamburg		51·6	315	e 8 55	− 8	e 20 43?	?	e 29·7	33·0
Venice		51·8	304	e 9 11	+ 6	e 20 4	SS	—	—
Göttingen	N.	52·0	314	—	—	e 16 43?	+15	e 27·7	—
Rocca di Papa		52·6	300	e 9 6	− 5	20 7	SS	e 31·1	37·8
Florence		53·0	302	9 10	− 4	17 43	+61	—	36·2
Stuttgart		53·1	310	e 9 15	0	e 16 48	+ 5	e 29·9	34·2
Bergen		53·1	325	10 43?	PP	—	—	26·7	—
Feldberg	N.	53·2	311	—	—	e 16 46	+ 1	e 29·2	30·3
Piacenza		53·7	305	e 9 43	+24	17 3	+11	—	36·8
Strasbourg		54·1	309	9 14	− 8	16 52	− 5	e 29·7	—
De Bilt		54·8	314	9 28	+ 1	17 13	+ 7	e 27·7	35·6
Paris		57·3	311	—	—	e 17 43?	+ 3	30·7	34·7
Dyce		57·5	321	—	—	17 49	+ 6	e 28·4	30·9
Durham		58·0	318	17 56	S	(17 56)	+ 7	e 29·7	39·7
Kew		58·2	315	e 9 52	0	e 17 58	+ 6	29·7	32·7
Stonyhurst		58·7	317	—	—	e 18 9	+10	34·6	78·7
Oxford		58·7	315	—	—	i 18 6	+ 7	e 29·4	35·4
Bidston		59·2	317	—	—	i 19 15	(−31)	—	—

Additional readings :—
Samarkand i = +3m.42s.
Manila iN = +10m.9s., iSEN = +14m.45s., m = +18m.0s. = S_cS +11s.
Helsingfors iSSE = +17m.50s. = S_cS −12s.
Upsala SS = +18m.54s.
Copenhagen +10m.49s. = PP +10s. and +19m.43s.
Stuttgart ePSNZ = +16m.54s., eSSE = +20m.35s., e = +20m.59s.
Feldberg eN = +21m.1s.
Strasbourg SS = +21m.23s.
Durham S = +24m.3s.
Kew eZ = +23m.49s. = SSS +4s.
Oxford SS = +23m.23s.
Long waves were also recorded at Kodaikanal, Kobe, and several other European stations.

Sept. 1d. Readings also at 0h. (La Paz and Victoria), 6h. (near Andijan), 13h. (La Paz), 14h. (Wellington, Melbourne, and near Manila), 15h. (Ekaterinburg, Almata, near Andijan, Samarkand, and Tashkent), 16h. (Manila), 17h. (Adelaide, Melbourne, Riverview, and Wellington), 18h. (near Tyosi), 19h. (Andijan), 20h. (near Florissant), 21h. (Andijan), 22h. (Andijan, Samarkand, and near La Paz).

Sept. 2d. 15h. 51m. 14s. Epicentre 12°·3N. 93°·8W. (as on 1929 April 27d.). X.

A = −·065, B = −·975, C = +·213 ; D = −·998, E = +·066 ;
G = −·014, H = −·213, K = −·977.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tacubaya		8·8	324	2 0	− 5	3 30	−14	3·6?	4·5
Tucson		25·4	325	5 26	+ 2	e 9 51	+ 3	13·0	—
Georgetown	N.	30·5	26	e 6 4	− 5	e 11 4	− 8	e 14·8	—
Toronto	N.	33·7	20	—	—	e 11 31	−30	i 16·2	—
Scoresby Sund		72·4	20	—	—	20 46?	− 4	38·8	—
De Bilt		85·7	38	12 41	+ 4	—	—	e 40·8	—
Stuttgart		89·1	40	e 12 56	+ 3	—	—	e 44·8	50·8

Additional readings :—
Georgetown ePEZ = +6m.10s., iSE = +11m.11s., eSZ = +11m.34s.
Long waves were also recorded at Ann Arbor, Victoria, Ekaterinburg, Irkutsk, Pulkovo, Tashkent, and other European stations.

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Sept. 2d. 18h. 58m. 52s. Epicentre 29°·4N. 51°·4E. N.1.

Probable error of Epicentre ±0°·25.

A = +·544, B = +·681, C = +·491; D = +·782, E = −·624; G = +·306, H = +·384, K = −·871.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Baku		11·0	354	e 2 28	− 7	—	—	7·6	9·2
Ksara	E.	13·9	293	3 22	+ 8	6 7	+18	7·3	—
Samarkand		16·4	47	3 40	− 6	—	—	8·4	9·5
Helwan		17·4	276	4 3	+ 4	i 7 32	+21	—	—
Tashkent		18·8	46	i 4 14	− 2	i 7 47	+ 5	10·1	14·1
Theodosia		20·1	325	e 4 28	− 3	8 8	0	11·1	—
Yalta		20·3	323	4 33	0	8 22	+10	—	—
Andijan		20·5	51	e 4 36	+ 1	8 27	+11	10·6	13·0
Simferopol		20·7	323	e 4 36	− 1	8 25	+ 5	—	—
Sebastopol		20·8	322	e 4 46	+ 8	i 8 46	+24	—	—
Bombay		22·2	114	4 55	+ 2	9 11	+21	12·0	21·0
Agra		23·6	89	i 6 3	+57	9 13	− 3	12·8	14·7
Almata		24·7	49	5 24	+ 7	—	—	11·1	14·7
Hyderabad		27·5	110	5 15	−28	10 28	+ 4	16·3	20·2
Kucino		28·1	344	5 49	+ 1	10 27	− 7	e 13·9	16·6
Ekaterinburg		28·2	11	e 5 45	− 4	10 20	−15	13·1	17·8
Budapest		30·7	317	6 8	− 3	—	—	20·6	—
Zagreb		32·1	312	e 6 22	− 2	e 11 36	− 1	—	18·5
Rocca di Papa		33·5	304	6 37	+ 1	—	—	—	20·9
Pulkovo		33·6	341	6 34	− 3	11 53	− 7	17·6	21·9
Calcutta	E.	33·8	93	6 39	0	—	—	16·7	—
	N.	33·8	93	6 47	+ 8	—	—	16·9	—
Florence		34·9	307	6 52	+ 4	12 22	+ 2	16·6	18·5
Colombo		35·0	126	12 26	S	(12 26)	+ 5	—	23·7
Helsingfors		35·5	338	—	—	e 12 7	−22	e 18·3	—
Cheb		35·8	319	—	—	e 12 29	− 4	e 23·6	25·1
Piacenza		36·2	309	7 6	+ 6	12 40	+ 1	—	24·3
Potsdam	N.	36·3	321	e 7 2	+ 2	e 12 14	−27	—	24·4
Chur		36·7	310	e 7 2	− 2	i 12 41	− 6	—	—
Stuttgart		37·4	315	e 7 8	− 2	e 12 48	− 9	—	24·6
Zurich		37·5	310	e 7 5	− 6	e 12 52	− 7	—	—
Lund		37·7	326	—	—	12 55	− 7	21·1	—
Upsala		38·0	334	e 8 37	PP	—	—	e 21·1	—
Copenhagen		38·1	326	7 15	− 1	13 2	− 6	21·1	—
Feldberg	N.	38·2	316	—	—	e 13 4	− 5	—	—
Strasbourg		38·3	314	7 19	+ 1	—	—	e 18·1	—
Hamburg		38·5	321	e 7 20	+ 1	e 16 44	!	—	—
Uccle		40·9	316	e 7 39	− 1	13 45	− 5	e 22·1	—
Paris		41·7	314	i 7 46	0	e 14 0	− 2	20·1	27·1
Tortosa	N.	42·5	300	7 52	− 1	14 13	0	e 24·1	30·2
Alicante		43·4	298	7 47	−13	—	—	—	—
Kew		43·9	317	i 8 5	+ 1	e 14 31	− 3	e 26·1	—
Oxford		44·6	317	8 14	+ 4	i 14 38	− 6	e 23·1	31·1
Irkutsk		44·8	44	8 12	+ 1	e 14 35	−12	22·9	—
Almeria		45·0	295	8 15	+ 2	—	—	—	42·1
Stonyhurst		45·6	319	—	—	e 14 48	−11	—	—
Granada		46·0	295	i 9 4	+43	i 15 41	+37	e 22·2	31·5
Edinburgh		46·4	322	—	—	e 15 8?	− 2	—	—
Hong Kong		56·3	83	17 22	S	(17 22)	− 5	e 31·6	36·8
Scoresby Sund		56·9	338	9 44	+ 2	17 38	+ 3	31·1	—
Manila		65·3	87	e 10 50	+ 9	i 13 29	PP	—	—

Additional readings :—
Agra eN = +3m.58s.
Zagreb e = +6m.27s.
Helsingfors eN = +13m.44s., iZ = +14m.47s. =PS +9s., iE = +14m.51s., iN = +16m.21s.
Cheb e = +18m.9s.

Continued on next page.

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Stuttgart eN = +17m.24s. = S_eS − 2s.
Kew e = +17m.50s. = S_eS − 15s.
Oxford iSN = +14m.34s., i = +17m.58s. = S_eS − 12s.
Almeria m = +9m.56s. = P_eP − 2s.
Granada i = +16m.18s. and +16m.22s.
Scoresby Sund +13m.2s.
Long waves were recorded at Kodaikanal.

Sept. 2d. Readings also at 0h. (Almata, Andijan (2), Tashkent, Samarkand (3), and Ekaterinburg), 4h. (La Paz, near Tacubaya, and near Sumoto), 5h. (La Paz), 7h. (Andijan), 10h. (Ekaterinburg and Tashkent), 12h. (near Manila), 13h. (Bagnères, Lick, and near Tacubaya), 14h. (near Nagasaki), 17h. (Alicante), 22h. (near Santiago).

Sept. 3d. 9h. 59m. 46s. Epicentre 38°·1N. 1°·2W. N.3.
(given by the Spanish stations).

A = +·787, B = −·016, C = +·617.

		Δ	Az.	P.	O−C.	S.	O−C.	M.
		°	°	m. s.	s.	m. s.	s.	m.
Alicante		0·6	66	0 12	+ 3	0 21	+ 6	—
Almeria		1·5	219	e 0 25	+ 4	0 48	+ 9	—
Granada		2·1	244	i 0 27	− 3	i 1 0	+ 6	1·5
Toledo		2·8	309	0 40	0	1 25	+13	—
Malaga		2·9	242	1 5	+24	1 41	+27	—
Tortosa	N.	3·0	26	e 0 37	− 6	e 1 25	+ 8	—

Additional readings :—
Alicante PP = +23s., PS = +31s.
Almeria PP = +29s., PPP = +33s., PS = +44s., SS = +53s. and +1m.1s., SSS = +1m.15s. and +1m.26s.
Granada PP = +31s., +36s., and +49s., SS = +1m.2s. and +1m.7s.
Toledo P_g = +43s., SS = +1m.28s.
Long waves were also recorded at De Bilt.

Sept. 3d. Readings also at 3h. (near Tacubaya), 8h. (Tyosi), 9h. (Andijan), 10h. (near La Paz), 11h. (Alicante, Tokyo, and near Tyosi), 14h. (Alicante), 16h. (La Paz, De Bilt, Edinburgh, Granada, Kew, Paris, Rocca di Papa, Strasbourg, Stuttgart, Uccle, Alicante, and near Algiers), 20h. (La Paz and near Andijan), 21h. (near Irkutsk).

Sept. 4d. 4h. 17m. 52s. Epicentre 38°·5N. 143°·0E. (as on 1927 Aug. 29d.). B.2.

A = −·625, B = +·471, C = +·623; D = +·602, E = +·799;
G = −·497, H = +·375, K = −·783.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Isinomaki		1·4	267	0 21	+ 1	0 31	− 5	—	—
Mizusawa	E.	1·6	307	0 24	+ 1	0 36	− 5	—	—
	N.	1·6	307	0 26	+ 3	0 39	− 2	—	—
Sendai		1·7	263	0 26	+ 2	0 39	− 5	—	—
Morioka		1·9	310	0 27	− 1	0 43	− 6	—	—
Hukusima		2·2	250	0 29	− 2	0 51	− 6	—	—
Akita		2·6	298	0 40	+ 3	1 13	S*	—	—
Kakioka		3·2	225	0 44	− 2	1 17	− 5	—	—
Tyosi		3·3	211	e 0 47	0	1 26	+ 1	e 1·6	—
Tokyo		3·9	224	0 56	0	1 46	+ 6	—	—
Nagano		4·3	246	1 1	0	1 46	− 4	—	—
Misima		4·7	224	1 7	0	2 0	0	—	—
Sapporo		4·7	346	1 15	P*	2 19	S*	—	—
Nagoya		5·9	238	1 27	+ 3	2 27	− 4	—	—
Hikone		6·3	241	1 28	− 2	2 40	− 1	—	—
Osaka		7·2	240	1 26	−16	(3 1)	− 3	3·0	4·2
Kobe		7·4	241	e 2 16	+31	3 31	+22	—	—
Sumoto		7·8	240	—	—	e 3 13	− 6	(e 3·8)	3·9

Sumoto gives S as e and L as S.
Long waves were also recorded at Baku and Ekaterinburg.

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Sept. 4d. Readings also at 9h. (near Taranto), 10h. (Catania and Messina), 13h. (Alicante and Feldberg), 18h. (La Paz), 20h. (near Florence and Rocca di Papa), 22h. (near Tacubaya).

Sept. 5d. 10h. 13m. 56s. Epicentre 37°·0N. 72°·0E. (as on May 24d.) R.3.

A = +·247, B = +·760, C = +·602; D = +·951, E = −·309; G = +·186, H = +·572, K = −·799.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan		3·8	4	e 0 54	0	—	—	i 1·5	1·7
Almata		7·3	30	e 1 45	+ 1	3 0	− 6	3·3	3·9
Dehra Dun		8·3	141	3 4	S	(3 4)	−27	—	—
Baku		17·5	288	e 5 6	+66	—	—	—	—
Bombay		18·1	177	4 15	+ 7	7 45	+18	9·7	12·1
Calcutta	N.	20·2	131	e 8 8	S	(e 8 8)	− 2	—	—
Ekaterinburg		21·2	343	i 4 37	− 5	i 8 16	−14	10·1	—
Irkutsk		27·2	46	e 6 7	+27	10 55	+37	—	—
Kucino		29·6	320	—	—	e 12 22	SS	e 17·2	—
Pulkovo		34·9	324	e 6 44	− 4	e 13 56	SS	20·0	—
De Bilt		48·1	311	—	—	15 22	−12	e 23·1	—
La Plata		139·8	257	20 5	[+44]	—	—	—	—

No additional readings.

Sept. 5d. 16h. 20m. 38s. Epicentre 27°·5N. 55°·0E. (as on Aug. 23d.). R.2.

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

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Baku		13·5	343	e 3 11	+ 2	e 5 43	+ 4	6·9	10·9
Ksara		17·6	297	4 5	+ 3	7 39	+24	—	—
Tashkent		18·1	37	i 4 7	− 1	i 7 25	− 2	i 10·1	12·3
Bombay		18·5	114	e 4 13	0	—	—	—	14·8
Andijan		19·5	43	e 4 24	0	e 8 13	+17	e 10·4	—
Dehra Dun		20·3	77	7 42	S	(7 42)	−30	11·9	12·4
Agra	E.	20·5	85	e 4 17	−18	8 12	− 4	e 12·0	13·5
Almata		23·7	43	e 5 9	+ 2	—	—	—	—
Yalta		23·8	321	e 5 8	0	e 9 20	+ 1	—	—
Simferopol		24·1	322	e 5 12	+ 1	e 9 27	+ 2	—	—
Ekaterinburg		29·6	6	e 5 59	− 2	i 10 52	− 6	14·4	18·2
Kucino		30·8	341	e 6 10	− 2	e 11 10	− 7	e 14·8	26·0
Pulkovo		36·4	340	7 3	+ 2	12 38	− 4	19·4	—
Rocca di Papa		37·2	304	7 26	+18	—	—	—	—
Helsingfors		38·5	336	e 7 17	− 2	i 13 12	− 2	—	—
Florence		38·6	306	7 55	+35	e 13 22	+ 7	—	22·4
Piacenza		39·9	310	9 14	PP	—	—	—	24·6
Zurich		41·1	311	i 7 36	− 5	e 13 46	− 7	—	—
Copenhagen		41·5	326	—	—	14 16	+17	21·4	—
Strasbourg		41·9	313	—	—	e 16 22?	SS	—	—
Irkutsk		44·0	41	e 7 58	− 7	e 14 33	− 3	23·4	—
De Bilt		44·3	318	e 8 8	+ 1	—	—	e 22·4	—
Uccle		44·7	316	—	—	e 14 22?	−24	e 24·4	—
Paris		45·3	313	e 8 14	− 1	—	—	27·4	—

Additional readings:—
Ksara PPE = +4m.25s.
Agra eSN = +11m.12s.
Long waves were also recorded at Scoresby Sund and the other European stations.

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Sept. 5d. 20h. 1m. 36s. Epicentre 34°·9N. 134°·1E. N.3.

A = −·571, B = +·589, C = +·572.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Kobe		0·9	104	0 12	− 1	0 20	− 3	—	0·4
Sumoto		0·9	130	0 13	0	0 24	+ 1	—	0·4
Toyooka		0·9	43	0 11	− 2	0 19	− 4	—	0·3
Osaka		1·2	102	e 0 24	+ 7	(0 31)	0	0·5	0·5

Sept. 5d. 21h. 23m. 49s. Epicentre 41°·1N. 15°·4E. (as on 1930 Aug. 15d.). X.

A = +·726, B = +·200, C = +·657; D = +·266, E = −·964:
G = +·634, H = +·175, K = −·754.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Naples	E.	0·9	253	(e 0 20)	+ 7	(e 0 24)	+ 1	—	—
Casamicciola		1·2	253	0 22	+ 5	0 43	+12	—	1·1
Taranto		1·6	114	0 27	+ 4	0 43	+ 2	—	0·8
Trenta		2·0	159	e 0 21	− 8	0 51	0	—	—
Rocca di Papa		2·1	288	e 0 36	+ 6	i 0 54	0	i 1·2	2·3
Florence		4·1	313	0 11	−47	—	—	—	2·2
Zagreb		4·7	5	e 1 34	+27	e 2 6	+ 6	e 2·3	2·6

Naples readings have been *diminished* by 9m.
Long waves were also recorded at Piacenza, De Bilt, Strasbourg, and Stuttgart.

Sept. 5d. Readings also at 1h. (near Algiers), 2h. (near Barcelona), 15h. (Tyeel), 17h. (near Manila), 19h. (Andijan), 20h. (near Manila), 21h. (Ekaterinburg and Tashkent), 22h. (La Paz, Hohenheim, Ravensburg, Stuttgart, near Padova, Venice, Zagreb, and Zurich), 23h. (near Lick).

Sept. 6d. 21h. 36m. 5s. Epicentre 31°·2N. 61°·6E. (as on 1923 Nov. 29d.). X.

A = +·407, B = +·752, C = +·518; D = +·880, E = −·476;
G = +·246, H = +·456, K = −·855.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tashkent		11·8	30	2 46	0	4 58	0	e 5·2	9·0
Andijan		12·9	40	e 4 5	S	(e 4 5)	−80	(e 9·0)	—
Baku		13·2	318	e 3 5	0	(5 31)	− 1	5·5	—
Ksara	N.	21·8	284	—	—	8 38	− 4	—	—
Ekaterinburg		25·6	359	e 5 10	−15	e 9 18	−33	11·9	—

Additional readings and note:—
Andijan gives S as P and L as S.
Baku e = +4m.41s.
Ekaterinburg i = +5m.16s.
Long waves were also recorded at Irkutsk.

Sept. 6d. Readings also at 3h. (La Paz), 4h. (near Taihoku), 6h. (Adelaide, Melbourne, and Riverview), 7h. (Wellington), 12h. (Catania and Messina), 13h. (near Sumoto), 17h. (Adelaide, Riverview, La Paz, Andijan, Ekaterinburg, Tashkent, and Manila), 19h. (near Andijan), 22h. (Andijan, Tashkent, and Irkutsk), 23h. (Baku, Tashkent, and Granada).

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Sept. 7d. 10h. 56m. 23s. Epicentre 37°·8N. 25°·0E. (as on 1929 April 17d.). X.

A = +·716, B = +·334, C = +·613; D = +·423, E = −·906;
G = +·555, H = +·259, K = −·790.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Yalta	9·6	43	e 2 12	− 4	—	—	—	—
Simferopol	9·9	41	e 2 19	0	—	—	—	—
Rocca di Papa	10·2	297	e 2 56	+32	—	—	—	—
Theodosia	10·6	43	e 2 30	+ 1	—	—	—	—
Baku	19·4	75	—	—	e 8 7	+13	9·9	—
Pulkovo	22·2	7	4 57	+ 4	e 8 58	+ 8	12·1	13·6
Ekaterinburg	30·2	39	—	—	e 11 14	+ 7	14·6	—

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

Sept. 7d. Readings also at 0h. (Ksara and near Andijan), 2h. (near Manila), 3h. (La Paz), 4h. (Ksara), 5h. (La Paz), 10h. (Florence), 13h. (Samarkand, near Andijan, near Chur, and Zurich), 14h. (Kew), 18h. (Nagoya and near Malabar), 19h. (Sumoto).

Sept. 8d. Readings at 2h. (near Santiago), 3h. (Samarkand and near Andijan), 4h. (near Phu-Lien), 5h. (Baku, Ekaterinburg, Pulkovo, Ksara, and Granada), 7h. (Tyosi), 8h. (Bombay, Tashkent, and La Paz), 11h. (near Tacubaya), 12h. (near Algiers), 13h. (near Santiago), 14h. (Nagoya, near Tyosi, and near Manila), 18h. (La Paz), 19h. (Tyosi), 20h. (Baku, Ekaterinburg, Irkutsk, Kucino, and Tashkent), 21h. (Tucson).

Sept. 9d. 15h. 30m. 54s. Epicentre 33°·7N. 3°·0W. N.3.

A = +·831, B = −·044, C = +·555; D = −·052, E = −·999;
G = +·554, H = −·029, K = −·832.

	Δ	Az.	P.	O−C.	S.	O−C.	M.
	°	°	m. s.	s.	m. s.	s.	m.
Almeria	3·2	9	e 0 46	0	1 21	− 1	2·7
Malaga	3·2	339	0 47	+ 1	1 51	+29	—
Granada	3·5	352	i 0 49	− 1	1 28	− 2	1·8
Alicante	5·1	22	—	—	e 2 11	+ 1	—
Toledo	6·2	353	e 1 49	+21	—	—	—

Additional readings:—
Almeria i = +1m.9s., +1m.45s., and +2m.23s.
Granada iP = +55s., PS = +1m.13s., SS = +1m.40s.

Sept. 9d. Readings also at 4h. (Sydney), 8h. (Christchurch and Wellington), 10h. (Ekaterinburg, Irkutsk, Hong Kong, Phu-Lien, near Manila, and Taihoku), 11h. (Scoresby Sund, Baku, Tashkent, Kucino, Pulkovo, Copenhagen, De Bilt, Uccle, Strasbourg, and Stuttgart), 12h. (near Santiago), 13h. (Andijan), 15h. (near Mizusawa), 18h. (Baku and Ksara), 19h. (Andijan, Ekaterinburg (3), Irkutsk, Tashkent, Phu-Lien, Hong Kong, Zi-ka-wei, near Manila (2), and Taihoku), 20h. (Tashkent and near Sumoto), 23h. (Bombay).

Sept. 10d. 22h. 23m. 30s. Epicentre 34°·0N. 142°·5E. (as on 1924 Mar. 12d.) X.

A = −·658, B = +·505, C = +·559; D = +·609, E = +·793;
G = −·444, H = +·340, K = −·829.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tyosi		2·2	322	e 0 24	− 7	(e 0 42)	−15	e 0·7	—
Nagoya		4·7	286	1 0	− 7	1 49	−11	—	—
Mizusawa	E.	5·2	348	1 27	+13	2 3	−10	—	—
Osaka		5·9	279	1 34	+10	(2 43)	+12	2·7	5·1
Kobe		6·1	279	e 2 32	S	(e 2 32)	− 4	—	—
Sumoto		6·3	275	e 1 56	+26	—	—	e 4·9	—
Zi-ka-wei	Z.	17·9	269	—	—	e 7 30	+ 8	—	12·4
Manila	N.	27·5	230	e 8 20	?	—	—	—	—
Ekaterinburg		57·8	320	e 10 11	+22	—	—	29·5	—

Long waves were also recorded at Irkutsk, Tashkent, Baku, Kucino, Pulkovo, Copenhagen, and De Bilt.

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Sept. 10d. Readings also at 2h. (near Andijan and Samarkand), 4h. (Manila), 6h. (Andijan), 7h. (near Manila), 9h. (Bombay), 11h. (near Catania), 12h. (Baku, Tashkent, and Ksara), 13h. (Ekaterinburg), 14h. (Rocca di Papa and Trenta), 15h. (Copenhagen and De Bilt), 16h. (Nagoya and near Tyosi), 17h. (Sumoto), 18h. (Wellington), 23h. (Andijan, Samarkand, Feldberg, near Florissant, and St. Louis).

Sept. 11d. 12h. 36m. 49s. Epicentre 37°·5N. 31°·3E. N.1.

Probable error of epicentre ±0°·26.

A = +·678, B = +·412, C = +·609; D = +·520, E = −·854; G = +·520, H = +·316, K = −·793.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Ksara	E.	5·2	133	i 1 5	− 9	2 10	− 3	2·2	—
Sebastopol		7·3	12	1 48	+ 4	3 14	+ 8	—	—
Yalta		7·3	16	1 46	+ 2	3 11	+ 5	3·8	—
Helwan		7·6	180	1 41	− 7	2 57	−17	—	—
Simferopol		7·7	15	1 51	+ 2	—	—	7·2	—
Theodosia		8·1	20	2 0	+ 5	3 32	+ 6	13·2	—
Belgrade		10·9	315	e 2 40	+ 7	e 4 57	+21	6·2	7·6
Taranto		11·3	289	2 45	+ 6	4 47	+ 2	5·1	7·0
Trenta		11·8	283	i 2 41	− 5	6 31	L	(6·5)	—
Messina		12·4	278	2 47	− 7	—	—	—	—
Catania		12·8	275	3 19	+20	—	—	—	4·3
Mineo		13·2	274	2 23	−42	—	—	—	—
Budapest		13·4	321	i 3 11?	+ 4	6 4	+27	7·2	11·5
Lemberg		13·4	339	e 3 7	0	—	—	e 7·7	8·4
Casamicciola		13·8	290	3 24	+11	6 3	+17	8·6	—
Zagreb		14·1	311	e 3 21	+ 4	e 6 6	+13	e 7·6	8·3
Baku		14·7	73	i 3 27	+ 2	i 6 27	+19	8·2	10·1
Rocca di Papa		14·9	292	3 23	− 4	i 6 29	+16	e 9·4	10·2
Graz		15·0	314	i 3 7	−21	i 6 2	−13	i 7·0	8·4
Laibach		15·1	310	e 4 21	+51	e 6 17	0	e 8·2	10·7
Rome		15·1	293	e 3 35	+ 5	e 6 35	+18	—	—
Vienna		15·2	319	e 3 37	+ 6	8 34	L	(8·6)	9·3
Venice		16·2	305	e 3 57	+13	e 7 51	L	(e 7·9)	11·2
Treviso		16·4	306	i 3 49	+ 3	7 3	+15	9·4	11·2
Padova		16·5	305	e 3 54	+ 6	e 7 0	+10	—	—
Innsbruck		17·6	310	e 4 5	+ 3	7 41	L	(7·7)	10·3
Piacenza		17·8	302	4 11	+ 7	i 7 31	+11	9·4	13·3
Cheb		18·4	319	e 4 12	+ 1	e 7 44	+11	e 10·2	11·2
Chur		18·5	307	e 4 15	+ 2	e 7 52	+16	—	—
Kucino		18·7	12	4 17	+ 2	7 48	+ 8	9·3	13·7
Königsberg		18·8	340	i 4 25	+ 9	i 7 55	+13	e 10·7	—
Jena	E.	19·3	320	e 4 26	+ 4	i 8 14	+22	e 10·2	11·5
	N.	19·3	320	i 4 31	+ 9	i 8 10	+18	e 10·2	11·5
	Z.	19·3	320	e 4 28	+ 6	e 8 11	+19	e 10·8	13·2
Zurich		19·3	308	e 4 21	− 1	e 7 52	0	—	—
Stuttgart		19·6	312	e 4 23	− 2	i 8 7	+ 9	i 10·7	13·7
Karlsruhe		20·1	312	4 28	− 3	8 20	+12	e 11·0	11·9
Neuchatel		20·3	305	i 4 31	− 2	i 8 19	+ 7	—	—
Strasbourg		20·3	311	4 33	0	8 26	+14	11·2	12·0
Göttingen		20·5	320	e 4 38	+ 3	i 8 31	SS	e 10·7	16·4
Besançon		20·9	306	e 4 38	− 1	8 37	+13	12·2	—
Hamburg		21·8	320	e 4 47	− 2	i 8 52	+10	e 12·1	15·2
Lund		21·8	332	4 49	0	8 54	+12	12·2	—
Copenhagen		22·2	331	i 4 52	− 1	9 0	+10	12·2	—
Pulkovo		22·3	359	4 54	0	9 4	+12	11·7	14·5

Continued on next page.

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	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Algiers	22·4	276	4 50	− 5	8 57	+ 4	10·8	17·7
Barcelona	22·7	289	e 3 58	−60	—	—	e 12·8	—
Helsingfors	23·0	352	i 5 0	− 1	i 9 22	+17	e 11·9	—
Uccle	23·2	314	i 5 3	0	9 17	+ 9	11·2	13·4
De Bilt	23·4	317	5 3	− 2	9 25	+13	e 12·2	13·4
Paris	23·6	308	i 5 6	0	e 9 20	+ 4	11·2	12·2
Tortosa	24·0	288	—	—	e 9 56	SS	14·3	16·9
Upsala	24·0	343	i 5 8	− 2	i 9 36	+13	e 13·2	17·2
Alicante	25·0	282	e 5 26	+ 6	e 9 43	+ 2	e 12·4	—
Kew	26·2	312	e 5 29	− 2	e 10 30	+28	12·2	15·0
Almeria	26·7	279	5 36	+ 1	9 57	−13	—	18·1
Oxford	26·9	312	e 5 33	− 4	i 10 11	− 3	e 11·2	15·7
Ekaterinburg	27·4	36	i 5 40	− 2	10 25	+ 3	13·2	18·5
Toledo	27·5	286	e 5 39	− 4	e 10 23	− 1	e 14·2	18·2
Granada	27·6	280	i 5 41	− 3	i 10 32	+ 7	e 16·2	19·6
Bergen	28·2	333	—	—	e 10 41	+ 6	—	—
Durham	28·2	318	5 53	+ 4	10 32	− 3	13·5	16·3
Malaga	28·3	279	e 5 40	−10	e 11 6	+29	e 14·8	—
Stonyhurst	28·3	316	e 5 47	− 3	e 11 5	+28	—	19·6
Bidston	28·5	315	—	—	i 10 41	+ 1	e 14·2	—
Edinburgh	29·4	320	—	—	e 10 59	+ 4	—	20·9
Tashkent	29·4	71	i 5 57	− 3	i 11 15	+20	17·2	19·6
Dyce	29·5	323	—	—	10 53	− 3	e 14·2	20·6
Andijan	31·8	72	6 20	− 1	12 13	+41	21·0	—
Bombay	40·6	106	7 40	+ 3	14 4	+19	21·5	28·7
Scoresby Sund	42·9	338	7 51	− 5	14 41	+22	23·2	—
Hyderabad	45·8	103	8 18	− 1	15 18	+16	24·7	31·8
Dakar	48·7	259	e 10 32	PP	e 15 22	−21	17·3	32·8
Kodaikanal	49·6	111	19 35	SS	—	—	—	—
Irkutsk	51·4	49	9 1	− 1	16 25	+ 5	27·2	—
Colombo	53·6	113	8 31	−47	—	—	—	37·8
Hong Kong	71·2	76	20 21	S	(20 21)	−14	—	46·7
Manila	80·9	79	i 12 15	+ 2	i 14 20	?	—	—
Tyosi	82·0	51	e 12 40	+22	—	—	—	—
Victoria E.	91·2	346	25 10	PS	—	—	48·2	53·1

Additional readings :
Belgrade e = +2m.45s., +3m.28s., and +4m.9s.
Zagreb e = +3m.52s., eNW = +6m.38s., i = +7m.50s.
Rocca di Papa i = +3m.34s.
Laibach e = +6m.41s. and +8m.6s.
Vienna PPP = +5m.17s., P_cP = +6m.39s.
Königsberg ePPN = +4m.44s., eSSE = +8m.17s., eSSSE = +8m.27s.
Jena iSN = +8m.19s.
Stuttgart i = +4m.30s. =PP −6s., eE = +6m.6s. and +6m.51s., iE = +9m.16s. and +9m.31s.
Besançon iE = +4m.45s. =PP −10s.
Hamburg iSE = +8m.56s.
Lund +9m.3s. =SS −8s.
Copenhagen +4m.59s.
Algiers SSS? = +10m.11s.
Helsingfors PPN = +5m.29s., PPPEN = +5m.44s., iN = +6m.19s., P_cPEN = +8m.31s., SS = +10m.6s., iSSS = +10m.30s., P_cSN = +12m.14s., P_cSE = +12m.17s., iS_cSE = +15m.58s.
Upsala SS = +10m.23s.
Almeria i = +6m.2s.
Oxford i = +6m.29s.
Granada i = +6m.42s. and +8m.21s.
Durham PP = +6m.37s., PPP = +6m.47s., PPPP = +6m.49s., i = +11m.11s., SS = +11m.57s., SSS = +12m.23s., SSSS = +12m.36s.
Long waves were also recorded at La Paz.

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Sept. 11d. 17h. 20m. 10s. Epicentre 36°·5N. 70°·5E. X.
(given by the Russian stations and as on 1929 Dec. 10d.).

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

A *depth* of focus 0·025 used on previous occasions with this epicentre has been retained.

		Corr. for Focus	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	°	m. s.	s.	m. s.	s.	m.	m.
Samarkand		+0·2	4·2	320	i 1 3	0	(i 1 47)	− 6	i 1·8	4·0
Andijan		+0·2	4·5	21	1 8	+ 1	1 55	− 5	2·0	2·1
Tashkent		0·0	4·9	350	i 1 11	+ 1	(i 2 8)	+ 3	i 2·1	2·9
Baku		−0·8	16·6	290	3 46	+ 8	6 52	+18	e 8·8	—
Bombay		−0·8	17·7	173	3 52	− 1	7 3	+ 4	8·7	—
Ekaterinburg		−1·1	21·4	345	e 4 24	− 9	i 8 15	+ 3	10·8	—
Theodosia		−1·5	27·7	299	e 6 10	PP	—	—	—	—
Irkutsk		−1·6	28·4	46	e 5 42	+ 6	e 9 50?	−22	—	—
Simferopol		−1·6	28·6	298	e 7 32	?	—	—	—	—
Kucino		−1·6	29·2	322	e 5 25	−19	e 9 29	−56	10·8	—
Pulkovo		−1·9	34·6	327	6 34	+ 5	11 53	+ 7	17·3	—
Helsingfors	E.	−2·0	37·2	324	e 8 17	PP	e 12 29	+ 5	—	—
Zagreb		−2·2	41·3	301	e 8 29	+65	—	—	—	—
Copenhagen		−2·2	43·1	316	—	—	14 3	+13	—	—
Lund		−2·2	43·1	316	9 51	(− 1)	17 14	SSSS	—	—
Hamburg		−2·3	44·5	315	e 7 50?	0	—	—	—	—
Stuttgart		−2·4	45·5	309	e 10 2	PcP	e 14 34	+12	—	19·2
De Bilt	Z.	−2·5	47·6	312	e 10 50?	?	—	—	—	—

Additional readings:—
Zagreb e = +9m.37s. = PcP − 9s.
Copenhagen +9m.50s. = PcP − 2s. and +17m.32s.
Stuttgart eN = +15m.35s.

Sept. 11d. Readings also at 1h. (near Lick and near Rocca di Papa), 2h. (La Paz and Sucre), 3h. (Hong Kong, Manila, Phu-Lien, Almata, Samarkand, Ekaterinburg, Copenhagen, De Bilt, Uccle, Kew, La Paz, and Rio de Janeiro), 4h. (Bombay, Medan, Pulkovo, Copenhagen, La Paz (2), De Bilt, Uccle, near Kobe, Sumoto, and Osaka), 6h. (Tananarive and near Tacubaya), 7h. (near La Paz), 8h. (Catania, Messina, Trenta, and near Tyosi), 10h. (Ekaterinburg, Tashkent, and De Bilt), 11h. (Hong Kong, Manila, Phu-Lien, Tashkent, Ekaterinburg, Irkutsk, near Taihoku, near Nagoya, and Osaka), 12h. (Wellington), 15h. (Zagreb), 16h. (Nagoya, near Osaka, and near Tyosi), 18h. (Andijan, Samarkand, Ekaterinburg, Tashkent, and Manila), 19h. (Andijan, Tashkent, Ekaterinburg, Taihoku, La Plata, near La Paz, and Santiago), 23h. (Taihoku).

Sept. 12d. 8h. 18m. 33s. (I) } Epicentre 37°·1N. 23°·2E. R.3.
9h. 22m. 27s. (II) } R.3.
13h. 33m. 54s. (III) } (as on 1930 April 17d.). X.

A = +·733, B = +·314, C = +·603; D = +·394, E = −·919:
G = +·554, H = +·238, K = −·798.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
I	Trenta	5·8	295	e 1 2	−20	—	—	—	—
II		5·8	295	e 0 33	−49	—	—	—	—
I	Catania	6·4	277	i 0 32	−59	—	—	—	—
II		6·4	277	e 2 37	S	(e 2 37)	− 6	—	—
I	Naples E.	7·9	302	e 3 42	S	(e 3 42)	+21	—	—
II	E.	7·9	302	e 3 43	S	(e 3 43)	+22	(e 4·4)	—

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.
I Belgrade	8·0	346	e 2 40	+47	e 3 13	−11	e 4·4	4·6
II	8·0	346	e 2 2	+ 9	e 3 4	−20	e 3·8	4·4
I Rocca di Papa	9·3	304	e 3 7	+56	e 4 7	+11	e 4·8	7·6
II	9·3	304	e 2 57	+46	i 3 37	−19	—	7·6
III	9·3	304	e 0 21	?	—	—	—	7·1
I Rome	9·5	304	e 4 31	S	(e 4 31)	+30	—	6·7
II	9·5	304	e 2 45	+31	—	—	—	—
I Zagreb	10·2	330	e 3 3	+39	e 5 40	L	(e 5·7)	6·9
II	10·2	330	e 2 48	+24	e 4 56	+38	—	e 6·9
III	10·2	330	e 3 6?	+42	e 4 51	+33	e 5·7	—
I Ksara	10·8	104	e 3 27	+55	—	—	—	—
I Graz	11·5	333	—	—	e 4 31	−19	6·4	—
II	11·5	333	—	—	(e 4 33?)	−17	e 4·6	—
I Padova	11·9	318	e 5 17	S	(e 5 17)	+17	—	—
I Piacenza	12·9	313	—	—	e 5 57	+32	—	10·4
II	12·9	313	—	—	e 5 33	+ 8	—	10·5
I Zurich	14·9	318	e 3 26	− 1	—	—	e 7·4	—
II Stuttgart	15·5	323	—	—	e 6 33?	+ 6	e 8·4	10·1
I Strasbourg	16·1	321	e 3 27?	−16	i 8 58	L	10·4	—
II	16·1	321	e 3 33?	−10	e 6 33	− 8	e 10·5	—
I Hamburg	18·8	335	—	—	e 7 27?	−15	—	—
I Paris	19·0	315	e 4 15	− 4	—	—	10·4	10·4
II	19·0	315	e 4 17	− 2	—	—	10·6	10·6
III	19·0	315	e 4 6?	−13	—	—	—	—
II Uccle	19·2	321	e 4 18	− 3	e 7 48	− 2	e 9·6	—
III	19·2	321	e 4 18	− 3	—	—	e 10·1	—
I De Bilt	19·6	325	4 21	− 4	e 8 0	+ 2	e 10·4	12·7
II	19·6	325	4 25	0	e 8 2	+ 4	e 10·1	12·8
III	19·6	325	4 24	− 1	e 8 6	+ 8	e 10·1	12·8
I Copenhagen	20·0	342	4 21	− 9	—	—	11·4	—
II	20·0	342	—	—	8 9	+ 3	10·5	—
III	20·0	342	—	—	8 6?	0	—	—
I Baku	21·0	73	—	—	e 8 50	+24	12·4	—
II	21·0	73	e 5 36	+56	e 8 53	+27	—	—
I Kucino	21·1	24	—	—	e 8 27	− 1	e 12·1	13·1
II	21·1	24	e 4 40	− 1	e 8 27	− 1	e 10·7	13·2
III	21·1	24	—	—	e 8 24	− 4	—	13·5
I Kew	21·9	318	—	—	e 8 27?	−17	—	—
II	21·9	318	e 2 33?	?	—	—	—	—
I Oxford	22·6	318	—	—	9 0	+ 3	e 12·4	14·7
I Helsingfors	23·1	2	—	—	e 9 1	− 6	—	—
II	23·1	2	—	—	e 8 58	− 9	—	—
I Pulkovo	23·1	9	e 5 2	0	e 9 6	− 1	12·4	13·8
II	23·1	9	e 5 0	− 2	e 9 10	+ 3	12·0	13·9
III	23·1	9	e 5 3	+ 1	e 9 5	− 2	13·1	14·5
I Ekaterinburg	31·7	39	e 6 17	− 3	e 11 26	− 5	16·4	—
II	31·7	39	e 6 21	+ 1	e 11 26	− 5	15·5	—
I Tashkent	35·5	68	—	—	e 14 27?	SS	—	22·8
II	35·5	68	e 2 35	?	—	—	—	27·6

Additional readings :—
Helsingfors I eE = +8m.40s. = P_cP −9s., II eN = +8m.54s. = P_cP +5s.
Long waves were also recorded for shock III at Baku, Ekaterinburg, also for all three shocks at Scoresby Sund and many European stations.

Sept. 12d. Readings also at 0h. (Samarkand and near Andijan), 1h. (Ekaterinburg (2), Tashkent, La Paz, La Plata, near Santiago (2), and near Ksara), 2h. (Baku, Kucino, Tashkent, and Bombay), 3h. (La Paz), 4h. (Wellington Andijan, and near Tashkent), 5h. (near La Paz), 8h. (Andijan), 11h. (near Sumoto, near Batavia, and Malabar), 14h. (Tashkent, Sumoto, and near Nagasaki), 15h. (La Paz, Ekaterinburg, and Pulkovo), 16h. (Alicante), 17h. (Sumoto and Taihoku), 19h. (Bombay), 21h. (La Paz), 23h. (Ekaterinburg, Pulkovo, Kucino, Stuttgart, Rocca di Papa, Piacenza, Trenta, and Taranto).

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Sept. 13d. 17h. 58m. 58s. Epicentre 23°·0N. 96°·0E. N.3.

A = −·096, B = +·915, C = +·391 ; D = +·995, E = +·105 ;
G = −·040, H = +·389, K = −·920.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien	10·1	103	2 2?	−20	(4 2?)	−14	4·0	—
Bombay	22·0	263	9 42	S	(9 42)	+56	15·5	—
Manila	25·0	105	i 5 21	+ 1	i 9 44	+ 3	i 12·5	16·9
Andijan	26·6	317	5 46	+11	e 10 31	+22	—	—
Tashkent	28·9	316	—	—	e 10 48	+ 1	e 15·6	18·5
Samarkand	29·6	311	e 6 2	+ 1	—	—	—	—
Irkutsk	29·9	10	—	—	e 10 2?	−61	15·0	—
Ekaterinburg	42·4	332	i 7 48	− 4	14 2	− 9	21·0	—
Kucino	53·3	325	—	—	e 16 38	− 8	e 28·7	—
Pulkovo	58·1	329	e 10 33	(−13)	e 17 46	− 5	32·0	—

Additional readings :—
Bombay S = +13m.22s.
Tashkent e = +10m.27s., i = +12m.11s. =SS +7s.
Kucino e = +20m.44s.
Long waves were also recorded at Hong Kong, Medan, Baku, Copenhagen, and De Bilt.

Sept. 13d. 20h. 5m. 46s. Epicentre 37°·1N. 23°·2E. (as on 12d.). R.2.

A = +·733, B = +·314, C = +·603 ; D = +·394, E = −·919 ;
G = +·554, H = +·238, K = −·798.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taranto	5·7	308	−0 28	−109	1 40	−45	—	3·0
Mineo	6·8	274	2 39	S	(2 39)	−14	—	—
Belgrade	8·0	246	e 2 18	+25	e 4 9	+45	—	4·4
Rocca di Papa	9·3	304	e 2 20	+ 9	e 3 57	+ 1	e 5·7	—
Zagreb	10·2	330	e 2 28	+ 4	e 4 57	+39	—	5·9
Budapest	10·8	345	—	—	e 4 14?	−19	5·2	—
Padova	11·9	318	e 4 48	S	(e 4 48)	−12	(e 6·7)	—
Vienna	12·2	338	e 4 32	S	(e 4 32)	−36	—	8·2
Piacenza	12·9	313	—	—	e 5 14	−11	—	10·2
Chur	14·0	318	e 3 15	0	—	—	—	—
Zurich	14·9	318	e 3 24	− 3	—	—	—	—
Stuttgart	15·5	323	—	—	e 6 14?	−13	e 8·4	11·1
Strasbourg	16·1	321	e 3 45	+ 2	—	—	e 8·6	—
Besançon	16·2	314	e 3 43	− 1	—	—	—	—
Hamburg	18·8	335	—	—	e 7 14?	−28	—	12·6
Paris	19·0	315	i 4 21	+ 2	—	—	10·2	10·2
Uccle	19·2	321	e 4 19	− 2	—	—	e 9·2	—
De Bilt	19·6	325	4 25	0	8 3	+ 5	e 10·2	11·8
Copenhagen	20·0	342	4 27	− 3	8 3	− 3	10·2	—
Baku	21·0	73	—	—	e 8 54	SS	11·2	13·2
Kucino	21·1	24	4 41	0	8 32	+ 4	e 9·6	13·0
Helsingfors	23·1	2	—	—	e 8 34	P_cP	—	—
Pulkovo	23·1	9	5 2	0	9 9	+ 2	12·7	13·9
Ekaterinburg	31·7	39	e 6 19	− 1	11 28	− 3	15·2	—
Tashkent	35·5	68	—	—	e 16 15	?	—	23·1

Additional readings and notes :—
Belgrade ePP = +2m.59s.
Zagreb eNW = +3m.1s., e = +3m.43s.
Padova gives S as P and L as S.
Tashkent e = +15m.2s.
Long waves were also recorded at several other European stations.

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Sept. 13d. 23h. 17m. 20s. Epicentre 23°·8S. 172°·5E. (as on 1926 Aug. 25d.). R.3.

A = −·907, B = +·119, C = −·404; D = +·130, E = +·992;
G = +·400, H = −·053, K = −·915.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Christchurch	19·7	180	e 5 47	+81	9 45	L	11·5	15·6
Riverview	21·2	237	i 4 44	+ 2	i 8 38	+ 8	e 10·5	11·8
Sydney	21·2	237	—	—	i 8 52	SS	12·0	13·1
Melbourne	27·3	233	i 5 42	+ 1	10 25	+ 5	12 8	15·9
Adelaide	31·4	241	—	—	i 11 13	−13	i 13·8	18·3
Perth	50·2	248	—	—	16 0	− 4	i 24·7	—
Honolulu T.H.	53·6	35	—	—	e 16 40	−10	24·0	—
Manila	63·4	302	10 26	− 2	i 18 45	−15	i 29·6	37·8
Victoria E.	92·2	36	—	—	25 9	PS	42·1	46·0
N.	92·2	36	—	—	23 59	{+ 6}	38·0	47·5
Irkutsk	96·4	325	e 12 40?	−47	e 23 40?	[−28]	46·7	—
Ekaterinburg	121·7	323	e 19 46	PP	e 27 27	{− 1}	48·7	57·7
Baku	129·6	304	—	—	e 34 8	?	57·7	80·1
Pulkovo	135·5	334	e 19 40	[+25]	e 32 20	PS	64·7	79·4
Copenhagen	144·9	340	19 40?	[+ 6]	—	—	66·7	—
De Bilt	150·1	344	i 19 35	[− 7]	—	—	e 73·7	—
Zagreb	151·0	325	e 19 49	[+ 6]	—	—	—	—
Uccle	151·5	344	e 19 34	[−10]	—	—	e 72·7	—
Kew	151·8	352	e 19 40	[− 4]	—	—	e 82·7	—
Stuttgart	151·8	337	e 19 37	[− 7]	e 43 38	SS	e 82·7	—
Strasbourg	152·5	338	e 19 40?	[− 5]	—	—	e 76·7	—
Chur	153·3	334	e 19 48	[+ 2]	—	—	—	—
Paris	153·8	345	e 19 40?	[− 7]	—	—	83·7	—

Additional readings and notes:—
Riverview i = +4m.48s. and +4m.58s. = PP −1s., iE = +9m.8s. = SS +12s.
Honolulu T.H. e = +21m.40s.
Pulkovo i = +22m.32s. = PKS −18s.
Zagreb e = +20m.2s.
Long waves were also recorded at Hong Kong, Bombay, Kodaikanal, and Scoresby Sund.

Sept. 13d. Readings also at 0h. (Ekaterinburg), 1h. (Phu-Lien, De Bilt, Paris, Strasbourg, and Tashkent), 3h. (Andijan, Samarkand, and near Mizusawa), 5h. (Tucson, near Oaxaca, Vera Cruz, Puebla, Tacubaya, and near Belgrade), 7h. (Ekaterinburg, Irkutsk, Tashkent, and Phu-Lien), 8h. (near Andijan), 10h. (Vienna), 13h. (Perth and Wellington), 14h. (Graz), 20h. (Taihoku), 22h. (near Manila), 23h. (Samarkand).

Sept. 14d. 3h. 1m. 0s. Epicentre 61°·0S. 150°·0E. N.3.

A = −·420, B = +·242, C = −·875; D = +·500, E = +·866;
G = +·757, H = −·437, K = −·485.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Christchurch	22·0	48	—	—	9 25	SS	—	—
Melbourne	23·4	350	5 5	0	9 5	− 7	11·8?	12·7
Wellington	24·8	49	5 43	PP	9 39	+ 2	—	12·0
Adelaide	27·1	339	i 5 36	− 3	i 10 15	− 2	i 12·0	16·2
Riverview	27·2	2	e 5 36	− 4	i 10 13	− 5	13·3	14·5
Batavia	63·6	312	i 11 25	(+18)	i 19 6	+ 4	—	—
Medan	75·7	309	e 11 45	+ 1	i 21 45	+17	e 38·0	—
Manila	79·1	333	i 12 2	− 7	i 21 53	−13	—	—
Tananarive	79·4	252	—	—	e 22 27	+18	33·7	e 40·2
Colombo	86·7	290	—	—	32 46	SSSS	—	46·2

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		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Hong Kong		88·3	329	—	—	23 30	[+ 8]	35·4	35·6
Hyderabad		96·7	295	16 40	PP	26 22	PS	44·5	57·1
La Paz		96·7	143	e 14 9	+41	i 24 31	{+ 3}	47·0	54·9
Bombay		100·4	291	24 37	SKS	(24 37)	[+ 9]	42·2	52·2
Irkutsk		119·0	330	19 35	PP	—	—	57·0	70·5
Tashkent		121·2	300	e 18 16	[−32]	e 27 42	{+18}	58·0	69·6
Baku		129·2	284	21 21	PP	—	—	56·0	68·9
Ekaterinburg		136·8	306	19 27	[+ 9]	e 40 0?	SS	—	—
Georgetown		143·7	103	e 20 0	[+30]	e 29 52	{+ 6}	e 49·0	—
Rocca di Papa		148·0	254	e 19 58	[+19]	—	—	—	—
Algiers		148·1	237	e 20 46	[+67]	36 5	?	81·0	85·0
Zagreb		149·6	262	e 20 0?	[+19]	—	—	—	—
Granada		151·0	227	i 20 4	{+ 1}	—	—	e 78·4	83·4
Pulkovo		151·3	295	e 19 56	[+13]	—	—	74·0	84·7
Piacenza		152·0	254	e 18 20	[−84]	—	—	—	104·3
Chur		153·4	256	20 0	[+14]	—	—	—	—
Helsingfors	E.	153·8	293	—	—	e 29 34	PPPP	e 85·3	—
Cheb		154·2	264	—	—	e 31 0?	{+14}	e 79·0	106·0
Stuttgart		154·9	259	e 20 25	{+ 4}	e 40 0?	?	e 69·0	94·0
Strasbourg		155·4	257	e 20 0	[+12]	—	—	89·0	—
Hamburg		157·6	269	—	—	e 30 0?	PPPP	e 84·0	100·0
Copenhagen		157·6	275	20 6	[+15]	—	—	77·0	—
Paris		158·1	251	e 20 0?	[+ 9]	—	—	87·0	95·0
Uccle		158·6	258	e 20 0?	[+ 8]	—	—	e 86·0	—
De Bilt		159·0	260	e 20 18	[+26]	—	—	e 85·0	105·0
Kew		161·2	253	e 20 0?	[+ 5]	—	—	e 86·0	—

Additional readings :—
Melbourne i = +6m.3s.
Adelaide i = +6m.9s. =SS −10s. and +10m.41s.
Riverview iPNZ = +5m.39s., iPP = +6m.12s.
Batavia i = +12m.18s. and +19m.58s. =ScS −20s.
Manila iN = +13m.30s., iE = +13m.53s. and +19m.44s.
Tananarive eN = +22m.45s. =PS +4s., and +39m.15s.
Hong Kong S = +29m.4s.
Bombay eS = +31m.57s. =SS −10s.
Irkutsk PPS = +30m.45s., SS = +36m.12s.
Tashkent e = +23m.7s. and +36m.49s. =SS +1s.
Baku PPS = +34m.8s., SS = +39m.12s.
Georgetown iZ = +22m.7s., eN = +22m.12s., iZ = +25m.57s., iN = +26m.3s., iN = +28m.52s., iZ = +29m.11s., eN = +29m.30s.?, iN = +32m.9s., eN = +35m.48s., iE = +35m.46s., iN = +37m.6s., eE = +38m.42s., i = +42m.2s.
Rocca di Papa e = +20m.6s.
Granada i = +21m.38s.
Stuttgart eSSE = +43m.45s.
Long waves were also recorded at Sydney, Scoresby Sund, Kodaikanal, Rio de Janeiro, La Plata, Victoria, Tucson, Honolulu T.H., and several other European stations.

Sept. 14d. 17h. 13m. 24s. Epicentre 14°·3S. 163°·5E. N.2.

A = −·929, B = +·275, C = −·247 ; D = +·284, E = +·959 ;
G = +·237, H = −·070, K = −·969.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Riverview	22·5	208	e 4 50	− 6	i 9 3	+ 8	—	13·5
Melbourne	28·7	212	i 5 55	+ 2	10 25	−18	13·8?	16·3
Adelaide	30·5	223	i 6 9	0	i 11 16	+ 4	i 14·3	15·8
Manila	51·1	304	i 9 2	+ 2	i 16 18	+ 2	—	—
Honolulu T.H.	52·0	47	e 9 6	0	i 16 16	−12	19·9	—
Batavia	56·2	274	i 9 38	+ 1	i 17 36	+11	—	—
Hong Kong	60·6	307	18 24	S	(18 24)	0	—	26·9
Vladivostok	64·2	335	e 10 17	−17	e 18 47	−23	—	—
Medan	66·7	281	e 10 48	− 2	i 19 51	+10	—	—
Irkutsk	83·8	328	12 8	−19	22 17	−38	e 45·6	—

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		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Colombo		85·6	278	22 42	S	(22 42)	−32	—	29·1
Victoria	E.	89·9	40	22 35	?	—	—	44·4	50·4
Bombay		95·2	289	e 19 36	?	—	—	—	—
Andijan		100·1	309	e 20 20	?	—	—	—	—
Tashkent		102·5	310	i 14 3	+ 8	e 27 36?	PS	e 36·6	48·5
Ekaterinburg		109·0	325	18 3	[−12]	24 29	[−40]	44·6	55·1
Baku		117·1	309	18 24	[−14]	e 29 31	PS	e 51·6	65·6
Kucino		121·4	327	e 20 7	PP	25 15	[−40]	e 53·2	61·5
Pulkovo		123·2	334	i 18 29	[−24]	i 25 18	[−42]	55·6	72·2
Theodosia		126·7	316	e 18 41	[−19]	—	—	—	—
Simferopol		127·6	316	e 18 42	[−20]	—	—	—	—
Yalta		127·7	316	e 18 43	[−19]	—	—	—	—
Sebastopol		128·1	316	e 18 40	[−23]	—	—	—	—
Upsala	N.	128·1	339	e 21 36	PP	—	—	—	—
Lund		132·7	338	22 6	PKS	—	—	—	—
Copenhagen		133·0	338	18 47	[−25]	—	—	64·6	—
Hamburg		135·5	338	e 18 50	[−25]	—	—	—	—
Vienna		136·6	329	e 18 59	[−18]	—	—	—	—
De Bilt		138·5	340	e 18 59	[−21]	—	—	e 74·6	—
Stuttgart		139·6	334	e 18 55	[−26]	—	—	e 40·6	—
Innsbruck		139·7	331	18 54	[−27]	—	—	—	—
Uccle		139·8	340	e 18 48	[−33]	—	—	—	—
Strasbourg		140·4	335	e 18 57	[−25]	—	—	e 36·6	—
Kew		140·6	345	e 18 36?	[−46]	—	—	—	—
Zurich		141·0	332	e 18 57	[−26]	—	—	—	—
Neuchatel		141·9	334	e 19 3	[−21]	e 22 23	PP	—	—
Paris		142·1	340	e 19 1	[−23]	—	—	—	—
Casamicciola		142·6	320	17 59	?	—	—	—	—
Rocca di Papa		142·7	323	i 19 6	[−20]	—	—	—	—
Catania		143·6	316	19 9	[−20]	—	—	—	—
Algiers		151·5	326	e 19 21	[−21]	—	—	73·6	—

Additional readings :—
Riverview i = +4m.54s., iNZ = +5m.43s., iE = +9m.8s., and +9m.22s.
Melbourne i = +6m.47s.
Manila PPE = +11m.8s., PPPPE = +12m.16s., iE = +13m.22s.
Honolulu T.H. i = +15m.11s.
Batavia iZ = +9m.39s., iP = +9m.41s., i = +10m.24s. = P_cP − 15s., +18m.22s., and +19m.2s. = S_cS − 23s.
Medan i = +20m.41s. = S_cS + 0s.
Irkutsk ePP = +15m.43s., PPS = +23m.33s.
Victoria PN = +21m.35s.
Tashkent e = +7m.0s., i = +7m.58s., +16m.30s., and +23m.39s.
Ekaterinburg SKKS = +25m.26s.
Kucino SKKS = +26m.51s., SS = +36m.30s.
Pulkovo iPP = +20m.18s., ePS = +29m.57s.
Upsala i = +22m.0s.
Copenhagen +22m.6s.
Hamburg iZ = +22m.11s.
Vienna i = +22m.34s.
De Bilt eZ = +21m.55s., iZ = +22m.21s.
Stuttgart eZ = +19m.39s., e = +21m.59s., iZ = +22m.24s.
Strasbourg ePP = +22m.8s.
Paris e = +22m.17s.
Algiers e? = +24m.21s.

Sept. 14d. Readings also at 1h. (Taranto, Nagoya, near Mizusawa (2), and Tyosi), 2h. (near Ksara, near Sumoto, and near Tananarive), 4h. (Manila), 5h. (near Tacubaya), 6h. (La Paz), 7h. (Sebastopol), 8h. (Tyosi), 9h. (Bombay), 10h. (Strasbourg), 13h. (Kew), 15h. (Kew and Sumoto), 16h. (La Paz), 17h. (Christchurch and near Wellington), 19h. (near Manila), 21h. (Mizusawa), 23h. (La Paz),

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Sept. 15d. Readings at 0h. (Granada and Paris), 1h. (Ekaterinburg, Kucino, and near Nagasaki), 2h. (near Mizusawa), 3h. (Melbourne, La Plata, La Paz, near Santiago and near Wellington), 7h. (Tyosi and near Mizusawa), 16h. (Samarkand, Tashkent, near Almata, and Andijan), 17h. (Andijan, Samarkand, and Pulkovo), 18h. (La Paz), 19h. (Baku, Ekaterinburg, Tashkent, and Ksara), 20h. (near Medan), 22h. (Riverview, Melbourne, and Wellington), 23h. (Riverview, Sydney (2), Melbourne (2), Ekaterinburg (2), Pulkovo, Irkutsk, and Tashkent).

Sept. 16d. Readings at 0h. (Bombay (2), Baku, Copenhagen, De Bilt, Pulkovo, Uccle, Kew, Strasbourg, Rocca di Papa, Alicante, Malaga, near Almeria, and Granada), 1h. (near Taihoku), 3h. (Paris), 4h. (Nagoya), 10h. (Adelaide, Melbourne, Riverview, and Pulkovo), 11h. (Calcutta, Bombay, Medan, Phu-Lien, Hong Kong, Manila, Baku, Ekaterinburg, Irkutsk, Tashkent, and Nagoya), 15h. (Nagoya), 20h. (near Tacubaya), 22h. (Andijan and Samarkand).

Sept. 17d. 3h. 14m. 43s. Epicentre 49°·5N. 130°·5W. (as on 1930 April 16d.). R.3.

$A = -\cdot422$, $B = -\cdot494$, $C = +\cdot760$; $D = -\cdot760$, $E = +\cdot649$; $G = -\cdot494$, $H = -\cdot578$, $K = -\cdot649$.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Victoria		4·8	101	1 0	− 8	(2 18)	+15	2·5	2·9
Sitka		8·1	340	—	—	e 3 17	− 9	i 4·7	—
Berkeley		13·0	150	i 3 1	− 1	i 7 28	L	(i 7·5)	—
Tucson		22·6	133	4 55	− 2	9 11	+14	12·6	—
Chicago		30·5	89	—	—	e 11 7	− 5	15·1	—
St. Louis	N.	30·5	95	e 6 15	+ 6	e 11 15	+ 3	—	—
Ann Arbor		32·8	85	—	—	e 13 41	SS	e 17·5	—
Toronto	N.	34·9	80	e 5 46	−62	e 10 46	−94	14·5	17·3
Georgetown		38·8	85	i 13 11	S	(i 13 11)	− 7	e 16·3	—
Pulkovo		69·7	10	—	—	e 25 13	?	40·3	—
Ekaterinburg		73·3	355	e 11 26	− 5	—	—	34·3	—

Additional readings and note:—
Victoria gives S as LE.
Sitka i = +4m.17s.
Berkeley iN = +3m.29s., i = +3m.39s., and +5m.40s., iN = +7m.30s., iE = +7m.44s.
Ann Arbor e? = +15m.23s., eN = +16m.47s. = S_eS −13s., eE = +17m.5s.
Georgetown eSEN = +15m.47s. = SS − 3s.
Long waves were also recorded at Charlottesville, Baku, Irkutsk, and European stations.

Sept. 17d. 10h. 54m. 36s. Epicentre 37°·9N. 141°·8E. (as given by Tokyo). N.2.

$A = -\cdot620$, $B = +\cdot488$, $C = +\cdot614$; $D = +\cdot618$, $E = +\cdot786$; $G = -\cdot483$, $H = +\cdot380$, $K = -\cdot789$.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Isinomaki	0·7	324	0 9	− 1	0 18	0	—	—
Sendai	0·8	298	0 13	+ 2	0 24	+ 3	—	—
Hukusima	1·1	262	0 15	− 1	0 28	0	—	—
Mizusawa	1·3	337	0 19	+ 1	0 37	+ 4	—	—
Morioka	1·9	344	0 28	0	0 54	+ 5	—	—
Kakioka	2·1	218	0 29	− 1	0 54	0	—	—
Tyosi	2·3	199	0 34	+ 1	(1 2)	+ 3	1·0	—
Tokyo	2·8	216	0 41	+ 1	1 9	− 3	—	—
Mera	3·4	209	0 49	0	1 48	+21	—	—
Gihu	4·7	239	1 1	− 6	2 0	0	—	—
Nagoya	4·8	236	1 10	+ 2	2 12	+ 9	—	—
Osaka	6·0	240	e 1 34	+ 9	—	—	2·9	3·5

Long waves were also recorded at Ekaterinburg, Irkutsk, and Tashkent.

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Sept. 17d. Readings also at 0h. (near Sumoto), 3h. (Florissant), 4h. (Andijan, Samarkand, Nagoya, and near Tyosi), 5h. (near Santiago), 11h. (Baku, Tashkent, and near Ksara), 12h. (Ekaterinburg, Tokyo, and near Tyosi), 14h. (near Toyooka), 15h. (near Tyosi), 16h. (Ekaterinburg, Tashkent, Hong Kong, Manila, Taihoku (2), and Irkutsk (2)), 17h. (Baku, Ekaterinburg, Pulkovo, Tashkent, Copenhagen, De Bilt, Uccle, Paris, Strasbourg, Kobe, and near Sumoto), 18h. (near Tyosi), 19h. (near Samarkand), 21h. (near Batavia and near Manila).

Sept. 18d. Readings at 1h. (Baku, Ekaterinburg, Tashkent, Kucino, and Ksara), 2h. (near Lick (2), and near Zagreb), 4h. (Sumoto), 5h. (Ekaterinburg and Tashkent), 6h. (near Barcelona and Tortosa), 7h. (near Sumoto and near Tacubaya), 13h. (near Sumoto), 18h. (Scoresby Sund, near Tucson, and near Tyosi), 21h. (near Tyosi).

Sept. 19d. 8h. 0m. 20s. Epicentre 34°·0N. 135°·5E. (as on 1929 July 3d.). R.3.

$A = -\cdot591$, $B = +\cdot581$, $C = +\cdot559$.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Sumoto	0·6	304	i 0 7	− 2	0 12	− 3	—	0·2
Kobe	0·7	339	0 10	0	0 18	0	—	0·4
Osaka	0·7	355	0 11	+ 1	0 21	+ 3	0·4	0·7
Koti	1·7	255	0 28	+ 4	0 47	+ 3	—	—
Nagoya	1·7	45	0 33	P_g	0 57	S_g	—	—

No additional readings.

Sept. 19d. Readings also at 1h. (Nagoya), 2h. (Baku, Tashkent, and Manila), 4h. (Phu-Lien and near Taihoku), 5h. (Irkutsk and Tashkent), 7h. (La Paz), 9h. (La Paz (2), and near La Plata), 12h. (near Almeria, and near La Paz), 15h. (near Sumoto), 17h. (Baku, Ekaterinburg, Wellington, near Neuchatel, and Zurich), 18h. (near Lick), 22h. (Baku, Ekaterinburg, and Tashkent).

Sept. 20d. Readings at 0h. (Baku, Ekaterinburg, Irkutsk, and Kucino), 1h. (near Casamicciola, Naples, Rocca di Papa, and Rome), 2h. (Scoresby Sund, Victoria, near Manila, and near Sumoto), 3h. (Samarkand), 4h. (Bombay, Phu-Lien, Tashkent, Vladivostok, Ekaterinburg, Irkutsk, Kucino, and near Medan), 6h. (near Andijan), 8h. (Samarkand), 12h. (Irkutsk, Kucino, Naples, and near Casamicciola), 13h. (Baku, Ekaterinburg, Pulkovo, Almata, Andijan, Tashkent, Vladivostok, Chiufeng, Copenhagen, Bombay, Phu-Lien, Hong Kong, Manila, and Sumoto), 18h. (Irkutsk), 19h. (Tashkent and Wellington), 20h. (La Paz and Casamicciola), 22h. (Andijan and La Paz), 23h. (near Tacubaya).

Sept. 21d. 8h. 34m. 13s. Epicentre 35°·2S. 179°·5W. (see Sept. 22d.). X.

$A = -\cdot817$, $B = -\cdot007$, $C = -\cdot576$; $D = -\cdot009$, $E = +1\cdot000$; $G = +\cdot576$, $H = +\cdot005$, $K = -\cdot817$.

Although this epicentre has not been used previously, the paucity of the material barely justifies its association with the well determined shock of Sept. 22d., and explains the classification X.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Wellington	7·6	215	1 44	− 4	2 39	−35	—	3·8
Christchurch	10·3	214	3 25	+60	4 34	+13	—	—
Riverview	24·1	265	i 5 17	+ 6	e 9 23	− 2	e 10·9	12·3
Sydney	24·1	265	(5 47?)	PP	—	—	5·8	7·4
Melbourne	28·5	254	i 5 52	0	i 10 47	+ 7	13·2	16·4
Adelaide	34·0	260	—	—	e 9 9	P_gP	—	18·3

Riverview gives also ePN = +5m.20s.

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Sept. 21d. 23h. 4m. 17s. Epicentre **25°·5N. 98°·5E.** R.1.

Probable error of epicentre ±0°·3 (as on 1929 Oct. 18d.).

A = −·133, B = +·893, C = +·431; D = +·989, E = +·148; G = −·064, H = +·426, K = −·903.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien		8·9	120	e 2 4	− 2	4 6	+20	4·5	4·9
Calcutta	E.	9·7	254	1 59	−18	3 35	−31	4·2	6·0
	N.	9·7	254	2 10	− 7	3 45	−21	4·4	6·0
Hong Kong		14·7	99	i 3 22	− 3	i 6 23	+15	i 7·7	9·0
Agra	E.	18·4	280	(3 48)	−23	(i 7 28)	− 5	(i 9·4)	(10·0)
	N.	18·4	280	(e 4 4)	− 7	(i 7 23)	−10	(i 9·3)	(12·1?)
Dehra Dun		18·7	290	4 3	−12	7 23	−17	9·9	10·7
Hyderabad		20·3	251	4 18	−15	8 4	− 8	—	—
Chiufeng		20·7	41	4 34	− 3	8 34	+14	10·9	13·2
Taihoku		20·9	86	4 43	+ 4	8 38	+14	10·8	13·2
Zi-ka-wei		21·0	69	e 4 38	− 2	8 32	+ 6	11·3	12·2
Medan		21·9	179	i 4 53	+ 3	i 9 0	+16	i 11·6	—
Manila		23·7	113	i 5 14	+ 7	i 9 20	+ 2	i 11·9	16·2
Bombay		24·6	260	5 22	+ 6	9 45	+11	13·0	13·5
Almata		24·9	321	5 22	+ 3	9 56	+17	14·7	—
Kodaikanal		25·1	236	6 7	?	(i 10 25)	SS	i 10·4	23·3
Naha		26·2	82	5 33	+ 2	—	—	—	—
Andijan		26·5	312	5 30	− 4	10 19	+12	15·2	—
Zinsen		26·7	56	5 39	+ 4	10 4	− 6	—	—
Irkutsk		27·1	8	5 38	− 1	10 17	0	14·4	16·5
Nagasaki		28·2	68	5 39	−10	10 50	+15	14·5	15·7
Tashkent		28·8	311	i 5 52	− 2	10 42	− 3	14·7	19·7
Hukuoka		28·8	66	e 4 43?	−11	e 10 11	−34	e 15·5	18·3
Kumamoto		29·0	68	6 3	+ 7	11 17	+29	—	—
Samarkand		29·8	306	6 3	0	e 11 9	+ 8	16·7	—
Hamada		30·3	63	6 3	− 5	11 18	+ 9	—	—
Vladivostok		32·4	48	6 43	+17	e 11 57	+16	—	—
Sumoto		32·6	65	e 3 54	?	i 11 41	− 4	e 18·1	18·6
Toyooka		32·7	63	6 32	+ 3	e 11 51	+ 5	e 17·7	19·4
Batavia		32·8	165	i 6 29	− 1	i 11 54	+ 6	—	—
Kobe		32·8	64	e 7 44	PP	e 11 55	+ 7	16·1	19·0
Osaka		33·2	64	6 17	−17	12 16	+22	17·6	21·2
Malabar		33·9	166	e 6 45	+ 6	—	—	—	—
Nagoya		34·3	64	e 12 23	S	(e 12 23)	+12	18·9	23·1
Hukusima		37·4	60	7 8	− 2	13 4	+ 7	—	—
Tyosi		37·6	63	e 8 36	PP	—	—	e 19·3	—
Mizusawa	N.	38·1	58	7 28	+12	15 55	SSS	—	—
Ootomari		40·8	47	e 9 42	(− 2)	e 17 5	SSS	22·5	25·8
Ekaterinburg		41·4	330	i 7 43	− 1	13 48	− 9	20·7	25·5
Baku		42·8	304	i 7 58	+ 3	i 14 24	+ 6	24·7	—
Theodosia		53·6	310	e 9 21	+ 3	e 16 50	0	18·7	—
Ksara	E.	54·2	295	e 9 18	− 5	17 1	+ 3	29·7	—
Yalta		54·5	310	e 9 22	− 3	e 17 2	0	24·7	—
Simferopol		54·5	310	e 9 26	+ 1	—	—	—	—
Sebastopol		54·9	310	e 9 32	+ 4	—	—	—	—
Pulkovo		57·3	327	i 9 47	+ 2	i 17 40	0	30·7	35·3
Helwan		58·8	291	e 9 13	−43	18 0	0	—	—
Perth		59·8	163	9 54	− 9	18 18	+ 5	25·7	31·7
Helsingfors		59·9	328	e 9 50	−14	i 18 14	− 1	e 31·0	—
Königsberg		62·5	320	e 10 19	− 3	e 18 49	+ 1	e 34·1	41·5
Upsala		63·6	327	e 10 30	+ 1	e 19 2	0	e 31·7	35·6
Belgrade		64·2	310	e 10 25	− 9	e 19 8	− 2	e 33·0	37·3
Budapest		64·6	314	10 23	−13	19 15	0	23·7	40·7
Vienna		66·2	315	10 50	+ 3	19 36	+ 1	e 27·8	38·7
Lund		66·6	323	10 49	0	19 40	0	31·7	—
Zagreb		67·0	312	10 43?	− 9	e 19 42	− 3	e 34·2	—

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.
Copenhagen		67·0	323	10 50	− 2	19 41	− 4	31·7	—
Potsdam		67·4	320	e 10 43	−11	i 19 50	0	e 21·7	33·1
Cheb		68·3	317	e 11 1	+ 1	e 20 2	+ 1	e 37·7	42·7
Trenta		68·4	306	e 10 43	−18	—	—	—	—
Jena		68·6	318	e 11 7	+ 5	e 20 2	− 2	e 33·7	37·8
Göttingen		69·4	319	e 11 6	− 1	e 20 8	− 6	e 35·7	38·7
Bergen		69·5	330	—	—	e 21 13	(+11)	33·7	38·7
Treviso		69·6	314	10 59	− 9	i 20 17	+ 1	39·7	44·4
Innsbruck		69·7	316	10 49	−20	—	—	—	—
Catania		69·8	304	11 3	− 6	19 43	−36	41·8	51·5
Padova		69·9	314	e 10 43	−27	i 20 26	+ 6	e 39·7	45·7
Rocca di Papa		70·4	308	i 11 11	− 2	i 20 26	0	e 36·4	45·7
Stuttgart		70·7	318	e 11 14	− 1	e 20 23	− 7	e 36·7	—
Chur		71·0	314	e 11 16	− 1	e 20 28	− 5	—	—
Karlsruhe		71·1	318	11 19	+ 2	20 43?	+ 9	e 38·7	—
Adelaide		71·4	145	e 11 19	0	i 20 40	+ 2	33·4	46·1
Piacenza		71·5	314	11 3	−17	i 21 21	PS	—	42·2
Zurich		71·5	315	e 11 18	− 2	e 20 43	+ 4	—	—
Strasbourg		71·6	317	e 11 20	0	20 44	+ 4	35·7	—
De Bilt		72·1	320	11 22	− 1	20 46	0	e 34·7	40·4
Neuchatel		72·7	315	e 11 25	− 2	e 20 51	− 2	—	—
Uccle		73·0	319	11 27	− 2	20 54	− 3	e 34·7	40·9
Besançon		73·2	315	e 11 29	− 1	20 55	− 4	39·7	—
Dyce		74·2	327	11 15	−21	20 49	−22	e 35·1	40·9
Paris		74·8	319	i 11 39	0	e 21 13	− 5	29·7	40·7
Durham		74·9	325	e 10 56	−44	21 10	− 9	e 36·7	43·8
Edinburgh		75·3	325	—	—	i 21 23	− 1	39·7	41·4
Scoresby Sund		75·4	344	11 45	+ 2	21 23	− 2	—	—
Kew		75·4	320	e 11 44	+ 1	21 23	− 2	34·7	41·9
Stonyhurst		75·7	322	11 49	+ 5	e 21 27	− 1	39·7	49·7
Oxford		75·9	320	11 37	− 8	i 21 28	− 2	34·3	45·6
Bidston		76·2	322	i 21 43	S	(i 21 43)	+ 9	e 36·7	44·6
Riverview		77·6	137	e 11 54	− 1	i 21 49	0	e 38·0	52·2
Sydney		77·6	137	e 21 43	S	(e 21 43)	− 6	53·2	57·0
Barcelona		77·9	312	e 10 39	−78	—	—	e 26·9	45·2
Algiers		79·1	307	12 4	+ 1	21 55	−11	37·7	44·7
Tortosa		79·2	311	e 12 3	− 1	22 5	− 2	e 40·7	46·1
Alicante		81·0	310	e 12 8	− 5	e 22 30	+ 4	e 35·2	47·2
Toledo		82·8	311	e 12 16	− 6	22 50	+ 5	—	53·6
Almeria		83·0	310	i 12 25	+ 2	22 45	− 2	44·6	46·7
Granada		83·7	310	i 12 28	+ 1	22 48	− 6	e 43·7	50·6
Malaga		84·5	310	12 32	+ 1	22 58	− 5	32·2	—
Ivigtut		89·2	345	12 55	+ 1	23 25	[− 3]	37·7	—
Victoria	E.	97·1	26	13 46	+16	24 15	[+ 3]	44·7	55·2
	N.	97·1	26	13 40	+10	24 15	[+ 3]	45·6	55·7
Wellington		97·1	132	—	—	24 3	[− 9]	44·7	61·7
Ottawa		108·8	355	e 18 51	PP	e 26 25	{+26}	e 44·7	—
Toronto	N.	110·1	359	e 18 7	[−11]	e 28 29	PS	36·7	—
Ann Arbor		112·1	2	—	—	e 28 49	PS	e 50·4	70·1
Florissant		115·1	7	—	—	e 25 18	[−16]	54·7	64·5
St. Louis	N.	115·3	7	e 24 25	?	e 29 30	PS	—	65·7
Rio de Janeiro	E.	145·0	266	e 20 31	[+57]	e 33 21	SKSP	e 57·1	—
	N.	145·0	266	e 20 34	[+60]	e 33 29	SKSP	e 57·0	—
La Plata		157·6	240	31 2	SKKS	(31 2)	{− 3}	80·2	—
La Paz		164·6	301	e 20 4	[+ 5]	i 32 27	{+44}	77·0	98·4

Additional readings and note :—
Agra readings have been *increased* by 1m.
Zi-ka-wei iE = +4m.49s. and +5m.34s., SSN = +9m.28s.
Sumoto iE = +9m.27s. = P$_c$P +9s., iZ = +12m.41s., eS = +14m.54s.
Toyooka ePN = +6m.34s., iE = +7m.35s. = PP +3s.
Batavia iZ = +6m.33s., iN = +8m.7s., iZ = +14m.41s., iE = +15m.42s., i = +18m.4s., iN = +19m.48s.
Malabar i = +7m.50s., +18m.40s., +19m.10s., and +19m.31s.

Continued on next page.

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Perth PP = +13m.3s., PPP = +13m.43s., SS = +22m.13s., SSS = +22m.43s.
Helsingfors iPE = +10m.5s., iE = +12m.17s. =PP +8s., PPP = +13m.31s., PSE = +18m.37s., iScSN = +19m.53s., iE = +22m.17s. =SS +10s., SSE = +22m.39s., SSS = +24m.35s.
Königsberg eE = +20m.59s., eN = +22m.1s.
Upsala SSE = +23m.7s., SSSN = +25m.56s.
Belgrade e = +11m.10s. =PcP +0s.
Vienna PP = +13m.12s., PPP = +14m.55s., PcS? = +15m.10s., PS = +20m.2s., ScS = +20m.50s., SS = +24m.3s., SSS = +27m.9s.
Lund +23m.55s. and +27m.13s.
Zagreb eE = +27m.37s.
Copenhagen PPZ = +13m.23s., PPP = +14m.56s., eN = +20m.55s. =ScS +12s., SS = +24m.1s., SSS = +27m.7s.
Potsdam iN = +15m.17s. =PPP −12s.
Cheb ePP = +13m.36s., ePPP = +15m.45s., eSS = +24m.32s., e = +27m.33s.
Jena eE = +15m.12s. and +20m.7s., eN = +27m.36s.
Göttingen eSSE = +24m.40s.
Stuttgart ePPE = +13m.52s., ePPPE = +15m.35s., iSEN = +20m.31s., iPSEN = +21m.19s., eE = +24m.43s., eSSN = +25m.18s., eSSS = +27m.53s.
Adelaide iSS = +28m.57s.
Strasbourg SS = +25m.28s., SSS = +28m.44s.
De Bilt PPZ = +14m.8s., SS = +25m.12s.
Uccle SS = +25m.34s., SSS = +29m.13s.
Durham SSSS = +29m.55s.
Edinburgh i = +26m.19s. =SS +17s. and +30m.3s.
Scoresby Sund +14m.37s. =PP +12s. and +26m.31s. =SS +27s., PPP = +16m.31s., eN = +23m.7s., and +24m.38s.
Kew PP = +14m.19s., eZ = +29m.49s.
Stonyhurst iS = +21m.33s., SS = +26m.20s., SSS = +30m.12s.
Oxford SS = +26m.27s.
Bidston eS = +29m.13s.
Toledo iP = +12m.25s.
Almeria PP = +15m.35s.
Granada PP = +15m.41s., i = +23m.5s.
Wellington SS = +31m.25s., e = +36m.43s.
Ottawa eE = +34m.19s.
Ann Arbor eN = +30m.1s. and +39m.19s., e?E = +46m.43s.
Florissant iPPZ = +19m.42s., iPPPZ = +22m.16s., ePSNZ = +29m.13s.
La Paz iZ = +29m.53s., SS = +35m.11s., SSSN = +41m.31s., SSSSN = +45m.29s., eN = +51m.51s.
Long waves were also recorded at Lemberg, Bagnères, Laibach, Zagreb, Berkeley, Charlottesville, Chicago, Tucson, Cape Town, Dakar, Honolulu T.H., and Koti.

Sept. 21d. Readings also at 1h. (Nagoya, near Mizusawa, and Tyosi), 4h. (Andijan and near Samarkand), 6h. (Andijan, Samarkand, and Tyosi), 7h. (La Paz and near Tacubaya), 8h. (Irkutsk, Ekaterinburg, Scoresby Sund, and near Manila), 9h. (Nagoya, near Mizusawa, and Tyosi), 11h. (near Mizusawa), 13h. (Alicante), 15h. (Andijan), 16h. (near Almeria), 18h. (Samarkand and near Andijan), 19h. (La Paz), 23h. (Almata, Andijan, and Taihoku).

Sept. 22d. 1h. 31m. 24s. Epicentre 35°·2S. 179°·5W. N.2.

A = −·817, B = −·007, C = −·576; D = −·009, E = +1·000;
G = +·576, H = +·005, K = −·817.

The shock of 21d. 8h. is referred to this epicentre without independent determination.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Wellington	7·6	215	1 41	− 7	3 38	+24	—	7·6
Christchurch	10·3	214	2 18	− 7	4 38	+17	—	—
Riverview	24·1	265	i 5 12	+ 1	9 22	− 3	—	14·6
Sydney	24·1	265	e 5 6	− 5	i 8 54	−31	13·3	15·6
Adelaide	34·0	260	e 6 31	− 9	i 12 6	0	i 14·8	21·8
Perth	53·1	255	—	—	16 36	− 7	—	—
Amboina	57·6	291	i 9 45	− 2	i 17 41	− 3	—	36·6
Honolulu T.H.	60·1	24	i 10 6	+ 1	i 18 24	+ 7	28·6	—
Batavia	73·1	275	i 11 28	− 1	i 20 50	− 8	38·6	48·6
Manila	75·2	300	e 11 52	+11	21 52	PS	—	—
Hong Kong	85·1	302	12 32	− 2	22 54	[− 6]	—	58·1
Medan	85·4	278	12 48	+13	i 22 51	[−11]	46·6	56·4
Phu-Lien	89·6	296	—	—	22 36?	−76	—	—
Berkeley	90·2	41	i 13 14	+16	e 23 45	−13	—	47·3
Lick	90·2	41	e 12 59	+ 1	e 24 6	+ 8	e 41·5	54·2

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		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tucson		90·3	51	e 13 12	+13	e 23 49	−10	e 37·6	—
La Plata		91·3	135	12 54	− 9	23 42	[+ 2]	47·8	—
La Paz		97·0	115	i 13 30	0	i 24 19	[+ 8]	45·6	70·0
Victoria	E.	97·3	34	24 16	SKS	(24 16)	[+ 3]	50·2	63·4
	N.	97·3	34	24 20	SKS	(24 20)	[+ 7]	50·2	57·4
Kodaikanal		106·5	272	e 37 18	SSS	—	—	e 56·2	64·0
Rio de Janeiro		108·7	137	—	—	e 24 59	[− 8]	e 51·1	60·2
Irkutsk		109·7	321	e 17 36?	[−41]	e 25 3	[− 9]	—	86·7
Florissant		110·6	55	e 17 49	[−31]	e 26 11	{ 0}	—	60·6
St. Louis	N.	110·6	55	e 21 36	?	e 26 13	{+ 2}	—	59·1
Chicago		113·8	53	i 19 25	PP	e 26 25	{− 9}	e 62·1	—
Bombay		114·9	276	e 19 48	PP	28 18	PS	—	75·8
Ann Arbor		116·7	54	—	—	e 25 6	[−34]	e 63·2	—
Charlottesville		118·6	61	—	—	e 29 36	PS	e 63·6	—
Georgetown		120·0	61	e 18 47	[+ 1]	i 30 5	PS	e 48·6	—
Toronto	N.	120·1	54	e 19 55	PP	i 30 1	PS	46·6	—
Ottawa		123·1	53	e 20 36	PP	i 30 36	PS	—	—
Andijan		124·7	299	e 18 57	[+ 1]	—	—	—	—
Tashkent		127·0	300	18 55	[− 6]	—	—	—	84·5
Samarkand		128·2	297	e 19 2	[− 1]	—	—	—	—
Ekaterinburg		134·8	319	i 19 15	[0]	26 12	[−21]	51·6	84·8
Ivigtut		139·9	34	19 24	[+ 3]	—	—	76·6	—
Baku		141·1	295	19 28	[+ 5]	23 2	PKS	70·6	—
Scoresby Sund		142·7	12	19 26	[0]	e 23 18	PKS	76·6	—
Pulkovo		148·8	332	19 40	[0]	30 4	{−12}	85·6	87·2
Helsingfors		150·5	335	i 19 44	[+ 2]	e 23 14	PKS	e 88·6	—
Ksara		151·0	278	e 19 50	[+ 7]	—	—	—	—
Theodosia		151·8	301	e 19 52	[+ 8]	—	—	—	—
Yalta		152·7	300	e 19 48	[+ 3]	—	—	—	—
Simferopol		152·7	301	e 19 36	[− 9]	—	—	—	—
Upsala	N.	153·0	341	e 19 49	[+ 3]	—	—	—	—
Sebastopol		153·2	301	e 19 51	[+ 5]	—	—	—	—
Lund		157·7	341	i 22 36	?	30 54	{−12}	82·6	—
Dyce		157·9	4	e 19 52	[+ 1]	—	—	e 88·2	100·4
Copenhagen		157·9	342	19 51	[0]	—	—	82·6	—
Edinburgh		159·1	6	e 20 36?	{− 4}	—	—	e 82·6	—
Potsdam		160·6	336	e 20 6	[+11]	i 31 11	{−11}	e 98·6	103·1
Stonyhurst		161·2	6	e 21 6	{+16}	—	—	—	95·6
Budapest		161·5	318	20 16	[+21]	—	—	e 102·6	—
Belgrade		162·0	308	e 25 58	?	(e 34 59)	SKSP	e 84·8	—
Göttingen		162·3	340	e 19 48	[− 8]	—	—	e 97·6	—
Vienna		162·4	323	20 0	[+ 4]	31 6	{−25}	—	115·6
De Bilt		162·8	350	i 19 57	[0]	e 45 0	SS	e 89·6	104·2
Cheb		162·8	334	e 20 46	{−11}	e 24 46	PP	97·6	111·6
Oxford		163·4	4	20 14	[+17]	e 24 56	PP	e 83·6	103·8
Kew		163 7	2	i 20 0	[+ 2]	e 45 6	SS	90·6	118·3
Uccle		164·1	352	i 19 58	[0]	e 45 11	SS	—	—
Stuttgart		165·0	337	e 19 59	[0]	e 35 11	SKSP	e 86·6	—
Strasbourg		165·6	341	e 20 9	[+ 9]	—	—	78·6	—
Treviso		166·3	323	19 3	[−57]	e 31 7	{−45}	45·6	—
Paris		166·3	354	i 20 41	[+41]	e 24 55	PP	89·6	110·6
Zurich		166·4	336	e 20 2	[+ 2]	—	—	—	—
Chur		166·6	333	e 19 58	[− 3]	—	—	—	—
Neuchatel		167·3	340	e 19 59	[− 2]	—	—	—	—
Piacenza		167·9	328	20 12	[+10]	—	—	—	100·9
Catania		168·0	285	20 1	[− 1]	35 26	SKSP	e 98·6	109·1
Rocca di Papa		168·4	308	e 20 0	[− 2]	—	—	—	—
Barcelona		173·6	349	e 19 52	[−14]	e 25 52	PP	—	101·9
Toledo		174·1	37	e 20 4	[− 2]	—	?	—	—
Tortosa	E.	174·4	0	e 19 53	[−13]	30 54	?	e 94·6	119·9
San Fernando		174·4	75	11 6	?	32 36	{+ 1}	92·7	104·1
Malaga		175·7	68	20 5	[− 2]	25 37	PP	31·6	—
Granada		176·1	59	i 20 6	[− 1]	32 37	{− 7}	e 87·4	103·0
Alicante		176·8	15	e 20 12	[+ 5]	e 25 52	PP	47·6	—
Almeria		177·1	54	i 20 5	[− 2]	i 32 46	{− 3}	e 91·5	97·2
Algiers		177·4	299	e 19 59	[− 8]	32 31	{−19}	63·6	106·6

For Notes see next page.

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NOTES TO SEPT. 22d. 1h. 31m. 24s.

Additional readings :—
Riverview PP = +5m.45s., PPP = +5m.54s., iE = +6m.11s., SS = +10m.27s., SSS = +10m.39s., SSSS = +10m.53s. ; T_0 = 1h.31m.12s.
Perth +13m.36s., i = +20m.16s. = SS +1s.
Honolulu T.H. SSS = +24m.56s.
Batavia i = +11m.35s.
Medan i = +18m.4s. and +23m.35s.
Berkeley iE = +15m.16s., eE = +23m.39s. = SKS +5s., +27m.13s., +38m.18s., +38m.24s., +43m.37s., and +44m.30s., eN = +39m.40s.
Lick eSE = +20m.54s.
Tucson e = +16m.56s. = PP +29s.
La Paz iPPZ = +17m.23s., PPPE = +20m.6s., iE = +26m.5s., SSE = +30m.30s., SSSE = +33m.25s.
Victoria SE = +37m.23s., SN = +37m.31s.
Rio de Janeiro eSN = +25m.3s.
Florissant iPPZ = +19m.3s., iNZ = +28m.37s. = PS +5s., eSSN = +34m.33s.
St. Louis eN = +28m.38s. = PS +5s.
Chicago i = +29m.5s. = PS +0s., e = +51m.15s. and +58m.39s.
Ann Arbor e = +29m.42s. = PS +10s., eN = +31m.42s., eE = +36m.0s., eN = +39m.30s., +43m.42s., +52m.54s., and +57m.42s.
Charlottesville e = +36m.36s. and +51m.36s.
Georgetown iPN = +20m.10s., ePEZ = +20m.0s., ePPZ = +24m.0s., ePPPE = +26m.12s., SKSZ = +30m.17s., SSN = +36m.41s., SSE = +36m.43s., SSSE = +40m.51s.
Toronto ePE = +20m.8s. = PP −2s., PPPE = +25m.52s. = SKS +1s., PPPPE = +27m.18s. = SKKS +1s.
Ottawa e = +37m.30s. = SS +18s.
Tashkent i = +22m.35s., SKSP = +31m.39s., PPS = +32m.37s., SS = +39m.0s.
Ekaterinburg iPP = +21m.44s., PKS = +22m.44s., PS = +32m.0s., SS = +39m.30s.
Scoresby Sund eZ = +19m.48s., eNZ = +22m.36s., eE = +23m.0s., eN = +23m.18s., +25m.42s., and +27m.12s., SS = +41m.18s.
Pulkovo SKS = +26m.45s., PS = +34m.30s., PPS = +37m.6s.
Helsingfors eN = +23m.24s. = PP +1s.
Potsdam eEN = +35m.36s. ?
Belgrade e = +28m.24s.
Vienna PS = +32m.10s., eP? = +52m.42s., e = +59m.9s.
Uccle e = +24m.36s. ? = PP −1s.
Stuttgart eN = +21m.11s. = PKP_2 +4s., $ePPP_2$ = +31m.34s. = SKKS −11s.
Strasbourg ePP = +25m.3s.
Barcelona eL = +30m.27s., e = +46m.52s. = SS +2s.
Toledo i = +21m.36s. = PKP_2 −12s., e = +32m.28s. = SKKS −5s.
Granada +20m.8s., PP = +21m.50s. = PKP_2 −7s., PPP = +25m.42s. = PP −6s., i = +26m.18s., +29m.35s. = PPP −11s., +30m.20s., +35m.24s., +42m.53s., and +50m.11s.
Almeria PP = +25m.38s., PPP = +29m.15s., i = +35m.46s.
Algiers +25m.53s. = PP +11s.
Long waves were also recorded at Zagreb, Königsberg, Besançon, Dakar, and Hyderabad.

Sept. 22d. 4h. 54m. 50s. Epicentre 25°·5N. 98°·5E. (as on 21d.). R.3.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien		8·9	120	e 2 45	+39	—	—	4·7	—
Calcutta	E.	9·7	254	2 50	+33	—	—	4·9	—
	N.	9·7	254	3 9	+52	—	—	5·1	—
Hong Kong		14·7	99	6 20	S	(6 20)	+12	8·0	8·2
Agra	E.	18·4	280	2 56	−75	6 21	−72	e 8·7	11·2
Dehra Dun		18·7	290	4 40	+25	8 10	+30	11·0	13·2
Hyderabad		20·3	251	4 21	−12	8 8	− 4	9·7	13·4
Chiufeng	E.	20·7	41	8 26	S	(8 26)	+ 6	—	—
Zi-ka-wei	E.	21·0	69	e 4 34	− 6	—	—	—	14·0
Medan		21·9	179	e 5 10?	+20	i 9 6	+22	i 11·7	—
Bombay		24·6	260	5 2	−14	9 46	+12	13·2	13·4
Colombo		25·8	227	6 45	+78	10 0	+ 5	14·4	17·2
Andijan		26·5	312	5 40	+ 6	10 27	+20	—	—
Irkutsk		27·1	8	e 5 40	+ 1	e 10 20	+ 3	14·5	—
Tashkent		28·8	311	5 39	−15	e 10 37	− 8	e 16·1	18·5

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		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Samarkand		29·8	306	6 2	− 1	—	—	—	—
Ekaterinburg		41·4	330	e 7 43	− 1	e 13 56	− 1	20·2	26·2
Pulkovo		57·3	327	9 46	+ 1	17 43	+ 3	26·2	35·6
Copenhagen		67·0	323	—	—	19 48	+ 3	35·2	—

Additional readings :—
Agra SN = +6m.16s.
Medan iS = +12m.32s.
Long waves were also recorded at Taihoku, Batavia, Scoresby Sund, and several European stations.

Sept. 22d. 5h. 2m. 27s. Epicentre 16°·0N. 111°·0W. N.3.

A = −·344, B = −·897, C = +·276 ; D = −·934, E = +·358 ;
G = −·099, H = −·257, K = −·961.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Manzanillo		7·0	64	(1 9)	−30	—	—	(2·8)	(4·4)
Tacubaya		11·7	72	2 44	0	5 19?	+24	5·5?	6·7
Tucson		16·2	0	3 43	− 1	e 6 50	+ 7	8·8	—
St. Louis	N.	29·0	35	e 5 57	+ 1	e 10 24	−24	—	14·6
Florissant		29·1	35	e 5 58	+ 1	e 10 53	+ 3	—	14·4
Ann Arbor		35·1	36	—	—	e 14 33	SS	e 17·4	—

Additional readings and notes :—
Manzanillo readings have been *increased* by 1m.
Tucson e = +7m.17s.
Long waves were also recorded at Chicago, Honolulu T.H., and De Bilt.

Sept. 22d. 7h. 11m. 27s. Epicentre 25°·5N. 98°·5E. (as at 4h.). R.3.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien		8·9	120	2 33?	+27	—	—	—	—
Calcutta	N.	9·7	254	(2 19)	+ 2	(4 16)	+10	(4·3)	—
Bombay		24·6	260	9 31	S	(9 31)	− 3	15·4	17·2
Andijan		26·5	312	e 5 41	+ 7	e 10 41	SS	—	—
Irkutsk		27·1	8	e 5 41	+ 2	e 10 17	0	14·4	15·6
Tashkent		28·8	311	—	—	e 10 45	0	e 15·8	17·8
Samarkand		29·8	306	e 6 3	0	—	—	—	—
Ekaterinburg		41·4	330	i 7 43	− 1	e 13 59	+ 2	19·6	—
Pulkovo		57·3	327	—	—	e 17 41	+ 1	29·6	—

Additional readings and notes :—
Calcutta readings have been *diminished* by 4m.
Bombay S = +13m.10s.
Long waves were recorded at Medan, Hong Kong, and De Bilt.

Sept. 22d. 14h. 19m. 14s. Epicentre **25°·3N. 93°·8E.** N.1.

Probable error of epicentre ±0°·28.

A = −·060, B = +·902, C = +·427 ; D = +·998, E = +·066 ;
G = −·028, H = +·426, K = −·904.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	E.	5·8	241	0 37	−45	(1 45)	−43	1·8	—
	N.	5·8	241	e 0 59	−23	(2 3)	−25	2·0	—
Phu-Lien		12·6	108	2 52	− 4	5 34	+17	6·5	8·1
Agra	E.	14·2	281	(3 1)	−17	(5 31)	−25	(6·5)	(8·4)
	N.	14·2	281	(2 41)	−37	(5 26)	−30	(7·7)	(9·1)
Dehra Dun		14·8	294	3 26	0	6 6	− 4	7·8	7·8
Hyderabad		16·3	244	3 7	−38	5 47	−58	—	9·8
Hong Kong		18·9	95	i 4 15	− 2	i 7 43	− 1	9·4	10·5
Bombay		20·4	256	4 35	+ 1	8 16	+ 2	10·4	—
Medan		22·2	167	i 5 41	+48	i 9 42	+52	(i 9·7)	—

Continued on next page.

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		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Almata		22·6	327	5 6	+ 9	9 13	+16	—	—
Colombo		22·7	218	4 56	− 2	8 56	− 3	12·6	17·2
Andijan		23·6	316	5 11	+ 5	9 24	+ 8	—	—
Chiufeng		23·8	46	5 15	+ 7	9 20	+ 1	—	—
Zi-ka-wei		25·0	70	i 5 16	− 4	9 46	+ 5	i 14·4	15·8
Taihoku	E.	25·1	85	5 22	+ 1	10 8	+25	14·0	—
Tashkent		25·9	314	i 5 30	+ 2	i 10 56	SS	12·8	14·8
Samarkand		26·6	309	i 5 38	+ 3	—	—	—	—
Isigakizima		27·5	85	5 37	− 6	10 42	+18	—	—
Manila		27·6	107	i 6 4	+20	i 11 2	SS	—	—
Irkutsk		28·1	14	e 5 52	+ 4	e 10 20	−14	15·8	17·6
Nagasaki		32·2	67	e 6 32	+ 8	e 11 56	+18	—	—
Batavia	N.	33·9	156	i 6 33	− 6	i 12 18	+14	—	—
Sumoto		36·5	65	e 12 36	S	(e 12 36)	− 8	e 20·8	22·2
Kobe	N.	36·7	64	e 12 40	S	(e 12 40)	− 7	e 20·3	—
Osaka		37·1	64	7 21	+14	13 9	+16	—	—
Gihu		38·1	63	7 12	− 4	13 1	− 7	—	—
Nagoya		38·2	63	e 7 16	− 1	(13 4)	− 5	13·1	—
Nagano		39·3	61	7 26	0	13 22	− 4	—	—
Baku		39·4	305	i 7 30	+ 3	13 34	+ 7	i 16·6	—
Ekaterinburg		39·5	331	i 7 30	+ 2	i 13 30	+ 1	18·8	23·6
Oiwake		39·6	62	7 30	+ 1	13 26	− 4	—	—
Hukusima		41·1	60	7 39	− 2	13 48	− 5	—	—
Ksara		50·4	295	8 58	+ 4	16 13	+ 7	29·8	—
Theodosia		50·4	309	8 58	+ 4	16 9	+ 3	20·8	—
Simferopol		51·3	309	9 3	+ 2	16 20	+ 1	—	—
Yalta		51·3	309	i 9 4	+ 3	16 22	+ 3	—	—
Sebastopol		51·7	308	10 7?	+63	17 29?	+65	—	—
Pulkovo		55·1	327	9 30	0	17 11	0	26·8	35·5
Helsingfors		57·8	327	—	—	i 17 44	− 3	e 22·6	—
Königsberg		60·0	320	e 10 3	− 1	i 18 15	− 1	e 31·8	—
Belgrade		61·0	310	e 10 10	− 1	e 18 26	− 3	e 25·8	37·2
Upsala		61·5	326	e 10 10	− 5	e 18 32	− 4	e 31·8	35·5
Budapest		61·6	313	10 27	+11	18 27	−10	25·8	—
Tananarive		63·1	230	—	—	e 18 47	− 9	e 26·1	33·8
Vienna		63·3	315	10 28	+ 1	19 28	PS	—	44·8
Zagreb		63·9	310	e 10 32	+ 1	e 19 4	− 2	e 26·4	—
Lund		64·1	322	10 34	+ 1	19 6	− 3	34·8	—
Copenhagen		64·7	322	10 36	− 1	19 13	− 3	34·8	—
Potsdam		64·7	319	i 10 37	0	e 19 17	+ 1	e 35·8	38·3
Cheb		65·5	316	e 10 41	− 1	e 19 46	PS	e 36·8	43·8
Jena		65·9	317	i 10 44	− 1	e 19 57	PS	e 30·8	—
Hamburg		66·3	320	e 10 45	− 2	i 20 4	PS	e 33·2	37·4
Göttingen		66·7	319	e 10 48	− 2	e 19 39	− 2	—	38·8
Innsbruck		66·7	313	11 4	+14	—	—	—	—
Padova		66·9	311	e 10 50	− 1	e 19 11	−32	—	—
Rocca di Papa		67·1	307	i 10 50	− 2	(e 19 52)	+ 6	e 19·9	—
Rome		67·3	307	10 53	− 1	—	—	—	—
Bergen		67·5	328	—	—	e 20 16	PS	e 28·3	—
Stuttgart		67·8	315	i 10 54	− 3	i 19 52	− 2	e 34·3	—
Chur		68·1	313	i 10 56	− 3	e 19 53	− 5	—	—
Piacenza		68·4	310	10 58	− 3	20 2	0	—	42·6
Zurich		68·6	313	e 10 58	− 4	i 20 23	PS	—	—
Strasbourg		68·8	315	i 11 3	0	e 20 3	− 4	31·8	—
De Bilt		69·5	319	11 8	0	e 20 12	− 3	e 32·8	39·6
Neuchatel		69·8	314	e 11 6	− 3	20 15	− 4	—	—
Uccle		70·3	318	e 11 11	− 2	e 20 21	− 4	e 33·8	—
Dyce		72·0	325	—	—	i 20 45	0	e 34·0	37·9
Paris		72·1	316	i 11 22	− 1	e 20 41	− 5	24·8	38·8
Durham		72·6	323	—	—	20 46	− 6	—	40·8

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		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Kew		72·9	320	i 11 28	0	e 20 50	− 6	32·8	41·0
Edinburgh		73·0	324	—	—	e 20 46?	−11	—	—
Stonyhurst		73·3	322	—	—	e 20 56	− 4	—	48·8
Oxford		73·4	320	11 29	− 2	20 55	− 6	e 37·3	43·3
Bidston		73·8	322	—	—	i 21 2	− 4	e 32·8	—
Scoresby Sund		74·3	341	11 36	0	21 11	− 1	e 34·8	—
Barcelona		74·7	309	e 11 47	+ 8	e 22 13	PS	—	—
Algiers		75·7	305	11 43	− 1	(21 18)	−10	—	52·8
Tortosa	N.	76·1	309	11 49	+ 2	21 54	PS	e 40·8	—
Alicante		77·8	308	e 12 1	+ 4	e 22 17	PS	—	—
Almeria		79·7	307	i 12 5	− 1	22 36	PS	—	65·8
Toledo		79·7	310	e 12 4	− 2	e 22 29	+17	e 34·4	—
Granada		80·4	307	i 12 8	− 2	22 13	− 7	e 41·8	52·3
Malaga		81·3	307	e 12 14	− 1	e 22 18	−12	e 31·1	—
Ivigtut		88·2	342	13 10	+21	23 58	+19	—	—
Victoria		99·2	24	24 52	S	(24 52)	{+ 5}	48·2	61·8
La Paz		161·0	294	e 20 9	[+14]	—	—	79·8	91·0

Additional readings and notes :—
Agra readings have been *increased* by 1m.
Hong Kong PP = +4m.29s., SS = +8m.10s.
Medan i = +6m.15s. and +16m.6s. = S_cS +5s.
Chiufeng SSN? = +10m.0s.
Zi-ka-wei PPZ = +5m.54s., PPPPZ = +6m.18s., SS?E = +10m.46s., SSZ = +10m.58s.
Tashkent e = +6m.17s.
Batavia i = +7m.54s. = PP +7s. and +8m.58s.
Helsingfors iEN = +18m.16s., iN = +20m.6s.
Königsberg iPSN = +18m.43s.
Belgrade eP_cP = +10m.51s., e = +12m.26s. = PP +7s., ePPP = +14m.3s.
Upsala iN = +18m.56s. = PS +13s. and +20m.27s. = S_cS +24s.
Tananarive E = +19m.19s. = PS +14s.
Vienna PP = +13m.18s.
Zagreb eS = +19m.32s. = PS +17s. ; true S is given as e.
Lund +19m.35s. = PS +17s.
Copenhagen +10m.53s., +19m.41s. = PS +15s., and +23m.28s. = SS +7s.
Jena eEN = +10m.46s., eN = +27m.34s.
Stuttgart iPEZ = +11m.15s., iPPEZ = +13m.28s., and +13m.49s., ePPPEZ = +15m.13s., and +15m.33s., iSEN = +20m.18s. = PS +9s., iEN = +21m.7s. = S_cS +18s., eSSEN = +24m.26s., eSSSEN = +27m.36s.
Strasbourg ePS = +20m.30s., eSS = +25m.6s.
De Bilt ePPZ = +13m.43s., eN = +20m.40s. = PS +9s., eSSS = +28m.14s.
Uccle i = +20m.49s. = PS +7s., eSS = +24m.46s. ?
Dyce +20m.23s.
Paris iPS = +21m.12s.
Durham i = +21m.12s. = PS +1s., and +22m.0s.
Kew e = +21m.18s. = PS +26s., eSS = +25m.40s.
Oxford i = +26m.7s.
Bidston iPS = +21m.31s.
Scoresby Sund eE = +17m.22s., PS = +21m.34s. ; no phase +26m.22s. and +29m.28s.
Algiers S = +21m.48s. = PS +6s. ; true S is given as PS.
Almeria PP = +15m.8s.
Granada S = +22m.41s. = PS −13s. ; true S is given as SPS.
Long waves were also recorded at Koti, Riverview, and Wellington.

Sept. 22d. 16h. 26m. 45s. Epicentre 38°·8N. 70°·0E. (as on 1926 June 30d.). R.2.

A = +·267, B = +·732, C = +·627 ; D = +·940, E = −·342 ; G = +·214, H = +·589, K = −·779.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Samarkand	2·4	290	i 0 31	− 3	—	—	—	—
Tashkent	2·5	348	i 0 40	+ 4	i 1 16	+12	—	—
Andijan	2·7	51	0 48	+ 9	—	—	1·6	—
Almata	6·9	48	e 1 45	+ 7	—	—	e 3·6	4·2
Dehra Dun	10·9	141	2 15	−18	4 45	+ 9	6·2	6·2

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		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Agra	E.	13·5	147	e 2 36	−33	4 11	?	5·7	6·8
	N.	13·5	147	e 2 56	−13	5 41	+ 2	e 8·4	—
Baku		15·5	282	e 3 35	0	i 6 28	+ 1	7·8	—
Ekaterinburg		19·0	344	i 4 16	− 3	i 7 50	+ 4	8·2	11·2
Bombay		20·0	172	4 26	− 4	8 10	+ 4	10·2	11·1
Calcutta	E.	22·6	131	8 10	?	9 49	SS	—	—
	N.	22·6	131	8 5	?	9 37	SS	10·4	—
Hyderabad		22·6	158	4 52	− 5	8 26	−31	11·2	15·6
Theodosia		26·2	295	e 5 42	+11	10 8	+ 6	23·2	—
Simferopol		27·1	295	e 5 38	− 1	—	—	—	—
Yalta		27·1	294	e 5 42	+ 3	—	—	—	—
Irkutsk		27·2	49	e 5 44	+ 4	e 10 22	+ 4	14·6	16·0
Sebastopol		27·5	294	e 6 58	?	—	—	—	—
Ksara		27·7	270	5 52	+ 8	10 25	− 2	17·8	—
Pulkovo		32·5	323	6 26	− 1	11 40	− 3	18·2	20·6
Colombo		33·1	162	13 4	?	—	—	—	21·2
Königsberg		36·4	313	—	—	e 12 37	− 5	e 18·2	20·7
Belgrade		36·8	296	—	—	e 12 49	+ 1	e 23·6	25·4
Budapest		37·4	300	e 7 15?	+ 5	—	—	e 22·2	25·2
Upsala		38·6	320	e 8 38	PP	e 15 9	SS	e 20·2	22·9
Vienna		39·1	302	e 7 26	+ 2	e 16 38	?	i 19·4	—
Zagreb		39·7	299	e 7 31	+ 2	e 13 21	−11	e 24·2	—
Lund		40·7	316	9 9	PP	13 47	0	21·2	—
Potsdam		40·9	310	—	—	e 17 15?	(−28)	e 21·8	23·2
Copenhagen		41·1	316	9 15	PP	13 52	− 1	—	—
Cheb		41·4	306	e 18 8	S_0S	(e 18 8)	(+18)	e 23·4	27·4
Göttingen		42·8	310	—	—	e 15 15?	?	—	—
Hamburg		42·8	312	—	—	e 14 20?	+ 2	e 22·2	25·2
Stuttgart		43·8	306	—	—	e 14 30	− 3	—	—
Chur		43·9	301	e 8 2	− 2	—	—	—	—
Piacenza		44·2	300	—	—	e 14 39	0	—	34·4
Zurich		44·5	302	i 8 7	− 2	—	—	—	—
Strasbourg		44·7	304	e 8 8	− 2	e 14 42	− 4	23·2	—
Bergen		44·8	322	i 12 45	?	e 18 45	?	24·2	—
Neuchatel		45·6	303	e 8 15	− 3	—	—	—	—
De Bilt		45·7	310	—	—	e 15 1	+ 1	e 24·2	26·7
Uccle		46·4	308	—	—	e 15 9	− 1	e 25·2	—
Paris		48·1	306	—	—	e 15 15?	−19	27·2	32·2
Dyce		48·9	319	—	—	e 15 22	−23	e 25·3	30·2
Kew		49·0	310	e 15 49	S	(e 15 49)	+ 2	e 26·2	—
Oxford		49·7	310	—	—	15 51	− 6	i 20·4	26·8
Stonyhurst		49·8	312	—	—	e 15 55	− 3	—	—
Scoresby Sund		54·4	337	—	—	21 51	?	27·2	—

Additional readings :—
Andijan i = +54s.
Almata i = +1m.54s.
Königsberg e = +15m.32s., eN = +16m.22s.
Belgrade e = +18m.55s.
Copenhagen +16m.57s.
Hamburg eE = +17m.31s.
Stuttgart eE = +17m.52s.
Long waves were also recorded at Hong Kong, Phu-Lien, Jena, Edinburgh, Durham, and Granada.

Sept. 22d. Readings also at 0h. (Adelaide, Riverview, Berkeley, and Samarkand), 1h. (Tucson and near Tacubaya), 2h. (near Mizusawa), 3h. (Ekaterinburg, Riverview, Pulkovo, Wellington, Nagoya, Tokyo, Tukuba, Tyosi, Nagoya, and near Mizusawa), 11h. (De Bilt, Pulkovo, Strasbourg, Riverview, Sydney, Ekaterinburg, and near Wellington), 12h. (Granada, Tashkent, La Paz, near Merida, Puebla, Oaxaca, Tacubaya, and near Wellington), 13h. (Riverview, Sydney, Wellington, Pulkovo, Ekaterinburg, Kew, Paris, Strasbourg, Stuttgart, and Scoresby Sund), 14h. (Ootomari, Riverview and Sydney), 15h. (Taihoku), 17h. (Nagoya and near Livorno), 20h. (Andijan, Tashkent, Ekaterinburg (2), Irkutsk (2), and Belgrade), 21h. (Riverview, Baku, Kucino, Pulkovo, Tashkent, Copenhagen, De Bilt, Strasbourg, and Stuttgart), 22h. (Kew).

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Sept. 23d. 10h. 15m. 21s. Epicentre 37°·5N. 70°·5E. (as on 1929 Dec. 29d.). X.

A = +·265, B = +·748, C = +·609; D = +·943, E = −·334;
G = +·203, H = +·574, K = −·793.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Andijan		3·6	24	e 0 52	+ 1	—	—	1·5	1·9
Tashkent		3·9	347	i 1 0	+ 4	(i 1 47)	+ 7	i 1·8	2·2
Almata		7·6	39	1 45	− 3	(e 3 5)	− 9	e 3·1	4·1
Baku		16·2	287	e 3 0	−44	—	—	e 5·0	—
Bombay		18·7	173	4 7	− 8	7 46	+ 6	10·0	—
Ekaterinburg		20·4	345	i 4 33	− 1	8 14	0	10·7	12·4
Calcutta	E.	21·4	129	8 22	S	(8 22)	−14	9·9	—
Kucino		28·4	321	—	—	e 10 16	−22	e 16·8	18·0
Pulkovo		33·8	324	6 38	− 1	e 11 33	−30	17·6	—
Copenhagen		42·3	316	—	—	9 39?	PP	20·6	—
De Bilt		46·8	310	—	—	e 19 39	?	—	—
Scoresby Sund		55·8	337	—	—	(20 39?)	SS	20·6	—

Additional readings :—
Baku e = +4m.0s.
Kucino e = +12m.54s.
Pulkovo e = +12m.47s.

Sept. 23d. 12h. 5m. 7s. Epicentre 27°·5N. 106°·0E. (as on 1929 Nov. 16d.). X.

A = −·244, B = +·853, C = +·462; D = +·961, E = +·276;
G = −·127, H = +·444, K = −·887.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Calcutta	E.	16·7	257	4 42	+52	—	—	6·2	—
Manila		19·0	130	i 6 23	+124	i 7 58	+12	—	—
Irkutsk		24·8	357	—	—	e 8 53?	−44	14·9	—
Medan		24·9	198	—	—	e 10 33	+54	i 12·5	—
Andijan		30·5	305	e 6 10	+ 1	e 11 24	+12	—	—
Bombay		31·5	264	9 52	?	13 33	?	15·7	18·8
Tashkent		33·0	346	e 10 59	?	e 11 31	−20	e 16·1	19·2
Ekaterinburg		43·3	327	7 59	0	14 16	− 9	20·9	—
Pulkovo		59·4	327	—	—	e 17 59	− 9	—	—
Victoria	E.	92·2	30	—	—	25 56	PS	47·2	56·1

Additional readings :—
Manila iE = +6m.43s., iZ = +8m.18s.
Medan i = +13m.45s.
Long waves were also recorded at Phu-Lien, Hong Kong, Vladivostok, Baku, Kucino, Copenhagen, De Bilt, Uccle, and Kew.

Sept. 23d. 20h. 35m. 38s. Epicentre 36°·7N. 21°·0E. (as on 1920 Dec. 10d.). R.3.

A = +·749, B = +·287, C = +·598; D = +·358, E = −·934;
G = +·558, H = +·214, K = −·802.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Trenta	4·4	307	e 0 57	− 6	1 47	− 6	—	—
Taranto	4·7	323	1 7	0	1 59	− 1	—	2·1
Mineo	5·0	278	2 12	S	(2 12)	+ 4	—	—
Zagreb	9·8	339	e 2 22?	+ 4	e 5 22?	L	(e 5·4)	—
Chur	13·2	324	e 3 6	+ 1	—	—	—	—
Zurich	14·0	324	i 3 16	+ 1	—	—	—	—
Neuchatel	14·6	319	e 3 24	+ 1	—	—	—	—
Pulkovo	23·8	12	4 57	−11	9 9	−10	12·4	—
Ekaterinburg	33·1	40	e 6 20	−13	—	—	17·4	—

Long waves were also recorded at De Bilt and Stuttgart.

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Sept. 23d. 23h. 34m. 5s. Epicentre 25°·5S. 65°·5W. N.3.

A = +·374, B = −·821, C = −·431; D = −·910, E = −·415;
G = −·179, H = +·392, K = −·903.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Santiago	9·1	208	2 6	− 3	4 17	+26	5·2	—
La Paz	9·4	345	i 2 15	+ 2	i 4 5	+ 6	i 5·1	6·6
La Plata	11·4	147	2 38	− 2	4 39	− 9	5·3	—
Rio de Janeiro	20·4	87	i 4 38	+ 4	i 8 31	+17	i 10·3	—
Malaga	84·7	45	12 28	− 4	24 16	PS	—	—
Granada	85·5	45	i 12 33	− 3	(23 39)	+26	e 42·9	50·1
Almeria	86·1	45	e 12 30	− 9	—	—	—	67·2
Toledo	86·9	42	e 12 37	− 6	e 24 22	PS	e 25·9	—
De Bilt	99·0	36	—	—	e 21 37	?	e 47·9	—
Copenhagen	104·5	35	—	—	27 37	SS	55·9	—
Pulkovo	114·7	32	e 19 31	[+59]	—	—	57·9	70·8
Baku	125·1	56	—	—	e 30 56	?	57·9	—
Ekaterinburg	130·7	36	19 6	[− 2]	e 22 31	PKS	52·9	—
Tashkent	139·6	55	i 19 22	[+ 1]	—	—	e 60·9	90·6
Irkutsk	152·2	14	e 19 55?	[+11]	—	—	—	—

Additional readings and note :—
Granada S is given as PS.
Tashkent e = +22m.13s. = PP − 6s., i = +34m.46s., e = +41m.55s. ? and +47m.49s.
Long waves were also recorded at Kucino and at other European stations.

Sept. 23d. Readings also at 0h. (Mizusawa), 1h. (Perth), 2h. (near Berkeley and Lick), 3h. (Toronto, Victoria, Tucson, De Bilt, and Scoresby Sund), 5h. (Granada, Adelaide, Melbourne, Riverview, Wellington, near Christchurch, Tashkent, Ekaterinburg, Pulkovo, Bombay, and near Calcutta), 6h. (Baku, Copenhagen, De Bilt, and Scoresby Sund), 7h. (Christchurch, Wellington, Melbourne, Paris, and Strasbourg), 8h. (De Bilt, Strasbourg, and Granada), 10h. (Ksara and near Dehra Dun), 11h. (Wellington), 14h. (Calcutta), 15h. (Catania, Taihoku, near Guadalajara, Manzanillo, and Tacubaya), 16h. (Taihoku), 22h. (near La Paz and La Plata), 23h. (Rio de Janeiro).

Sept. 24d. 3h. 22m. 20s. Epicentre 32°·3N. 93°·0E. N.3.

A = −·044, B = +·844, C = +·534; D = +·999, E = +·052;
G = −·028, H = +·534, K = −·845.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Almata	16·7	315	e 3 51	+ 1	—	—	—	—
Andijan	18·5	303	e 4 26	+13	—	—	—	—
Tashkent	20·9	302	e 4 38	− 1	i 8 21	− 3	e 11·1	14·7
Irkutsk	21·6	19	e 4 46	0	e 8 39	+ 1	11·7	—
Samarkand	22·2	296	e 4 52	− 1	—	—	—	—
Bombay	22·5	238	6 59	+123	9 28	+33	10·8	13·1
Ekaterinburg	33·1	328	—	—	(11 40?)	−12	11·7	—
Pulkovo	48·9	324	—	—	e 19 34	SS	28·7	30·3

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

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Sept. 24d. 7h. 38m. 2s. Epicentre 9°·2N. 127°·5E. (see 12h.). N.3.

A = −·601, B = +·783, C = +·160; D = +·793, E = +·609;
G = −·097, H = +·127, K = −·987.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	8·4	311	i 2 8	+ 9	i 3 38	+ 4	4·1	—
Hong Kong	18·3	317	4 4	− 6	(7 28)	− 3	7·5	10·8
Batavia	25·7	234	e 6 1	+35	—	—	—	—
Medan	29·2	261	e 7 58?	?	—	—	20·0	—
Vladivostok	34·1	5	—	—	e 14 3	SS	24·5	—
Irkutsk	47·0	340	e 8 29	0	—	—	29·0	—
Tashkent	60·3	314	e 10 2	− 5	e 18 9	−11	e 30·0	37·9
Samarkand	61·6	311	e 8 14	?	—	—	—	—
Ekaterinburg	69·7	329	e 11 9	0	e 20 10	− 8	31·0	38·7
Baku	74·6	310	—	—	e 21 15	0	36·0	44·2
Pulkovo	85·7	331	12 36	− 1	23 2	−13	42·0	54·3

Additional readings:—
Batavia i = +7m.12s.
Irkutsk e = +10m.13s.
Long waves were also recorded at Phu-Lien, Taihoku, Kodaikanal, and the European stations.

Sept. 24d. 12h. 6m. 51s. Epicentre 9°·2N. 127°·5E. (as at 7h.). R.2.

A = −·601, B = +·783, C = +·160; D = +·793, E = +·609;
G = −·097, H = +·127, K = −·987.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Manila		8·4	311	(1 55)	− 4	(i 3 29)	− 5	(i 5·6)	—
Isigakizima		15·4	349	3 30	− 4	6 50	+26	—	—
Hong Kong		18·3	317	4 5	− 5	6 39	−52	7·3	9·6
Kagosima		22·6	7	5 2	+ 5	8 52	− 5	—	—
Zi-ka-wei	N.	22·7	347	e 5 0	+ 2	9 4	+ 5	—	12·8
Nagasaki		23·6	5	5 13	+ 7	9 25	+ 9	—	—
Koti		25·0	12	5 26	+ 6	9 52	+11	—	13·6
Batavia		25·7	234	5 31	+ 5	10 3	+10	18·2	—
Sumoto		26·0	14	5 27	− 2	e 12 5	?	e 13·4	16·0
Kobe		26·4	14	e 5 53	+20	—	—	e 13·8	16·4
Osaka		26·5	15	5 46	+12	(10 41)	SS	10·7	13·6
Medan		29·2	261	1 6 9	+11	i 11 17	+26	—	—
Vladivostok		34·1	5	—	—	e 14 3	SS	—	25·1
Adelaide		45·4	167	—	—	i 15 9	+13	20·4	30·9
Irkutsk		47·0	340	e 8 30	+ 1	e 15 12	− 7	24·2	29·6
Colombo		47·2	272	8 14	−16	15 11	−10	25·5	30·6
Hyderabad		48·3	286	8 36	− 2	15 36	− 1	24·4	31·6
Riverview		48·6	152	—	—	e 16 21	+40	e 28·2	37·8
Sydney		48·6	152	—	—	i 16 39	+58	29·8	32·6
Kodaikanal		49·3	275	e 20 27	SSS	—	—	e 28·9	31·2
Melbourne		49·8	162	—	—	i 16 16	+18	27·0	31·9
Bombay		53·7	287	8 30	−49	26 53	?	30·6	34·2
Almata		55·5	318	e 10 9	+37	—	—	—	—
Tashkent		60·3	314	i 10 6	− 1	i 18 13	− 7	e 30·2	34·2
Samarkand		61·6	311	e 10 15	− 1	—	—	—	—
Wellington		66·6	143	—	—	e 20 9?	+29	41·2	46·2
Ekaterinburg		69·7	329	i 11 10	+ 1	i 20 10	− 8	28·2	38·6
Honolulu T.H.		72·5	70	—	—	e 21 9	PS	e 44·2	—
Pulkovo		85·7	331	12 36	− 1	23 1	−14	43·2	49·3
Upsala		91·8	332	—	—	e 24 5	− 8	e 49·2	—

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.
Copenhagen	96·0	330	—	—	24 9	[+ 3]	47·2	—
Cheb	98·4	325	—	—	e 24 16	[− 2]	e 52·2	60·2
Stuttgart	100·9	325	—	—	e 24 24	[− 6]	e 52·2	—
De Bilt	101·4	329	—	—	e 24 40	[+ 7]	e 49·2	57·6
Strasbourg	101·8	325	(e 18 9?)	PP	—	—	e 18·2	—
Piacenza	102·2	321	—	—	e 22 34	?	—	66·7
Uccle	102·5	328	—	—	e 24 9?	[−29]	e 50·2	—
Paris	104·6	327	e 18 9?	PP	—	—	56·2	70·2
Kew	104·6	330	—	—	e 27 36	PS	e 56·2	62·1
La Paz	163·1	117	e 19 52	[− 5]	e 29 32	?	82·2	89·2

Additional readings and note :—
Manila readings have been *increased* by 3m.
Batavia P = +5m.35s.
Kobe eNE = +15m.25s.
Riverview eEN = +19m.21s.
Melbourne i = +19m.44s.
Wellington e = +28m.9s. ?
Honolulu T.H. e = +34m.39s.
Stuttgart eEN = +25m.27s. =S − 7s., eE = +26m.49s. =PS − 6s.
Long waves were also recorded at Phu-Lien, Taihoku, Berkeley, Tananarive, and the European stations.

Sept. 24d. 15h. 47m. 15s. Epicentre 9°·2N. 127°·5E. (as on 12h.). X.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Manila	8·4	311	e 2 4	+ 5	3 41	+ 7	—	—
Hong Kong	18·3	317	4 5	− 5	—	—	e 8·1	12·4
Tashkent	60·3	314	—	—	e 18 15	− 5	e 29·8	37·8
Ekaterinburg	69·7	329	e 11 8	− 1	e 20 6	−12	33·8	—
Pulkovo	85·7	331	12 38	+ 1	e 23 0	−15	48·8	54·0

Long waves were also recorded at Irkutsk, Baku, and other European stations.

Sept. 24d. 19h. 10m. 55s. Epicentre 44°·6N. 10°·6E. (as on 1930 May 24d.). R.3.

A = +·700, B = +·131, C = +·702; D = +·184, E = −·983;
G = +·690, H = +·129, K = −·712.

	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Piacenza	0·8	304	0 35	+24	(0 35)	S_g	—	2·4
Padova	1·2	48	e 0 18	+ 1	—	—	—	—
Chur	2·3	342	e 0 38	+ 5	—	—	—	—
Rome	3·0	153	—	—	1 1 12	− 5	—	1·7
Zurich	3·1	334	e 0 41	− 3	—	—	—	—
Rocca di Papa	3·2	150	e 0 48	+ 2	1 1 8	−14	—	1·7
Neuchatel	3·5	314	e 0 48	− 2	—	—	—	—
Zagreb	4·0	70	e 0 58	+ 1	1 1 34	− 8	1 1·8	—

Long waves were recorded at Stuttgart and Venice.

Sept. 24d. Readings also at 0h. (La Paz, near Kobe, and Toyooka), 2h. (Samarkand, Tashkent, near Almata, and Andijan), 3h. (Ekaterinburg and near Dehra Dun), 4h. (near La Paz and near Tyosi), 6h. (Mizusawa), 7h. (near Tyosi), 10h. (Manila), 11h. (Chur, Neuchatel, Zurich, and Piacenza), 13h. (Perth), 14h. (Bombay), 15h. (Zagreb and near Lick), 19h. (Konigsberg), 20h. (Taihoku), 21h. (Wellington), 22h. (Samarkand).

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Sept. 25d. 18h. 6m. 23s. Epicentre 34°·5S. 179°·2W. N.3.

A = −·824, B = −·012, C = −·566; D = −·014, E = +1·000; G = +·566, H = +·008, K = −·824.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Wellington		8·3	213	e 1 51	− 7	3 12	−19	—	4·1
Christchurch		11·0	212	—	—	5 1	+23	6·1	—
Riverview		24·5	263	i 5 15	0	i 9 37	+ 5	e 12·6	14·6
Sydney		24·5	263	e 5 1	−14	i 9 49	+17	13·4	15·4
Melbourne		29·0	253	e 5 52	− 4	10 41	− 7	13·8	19·4
Adelaide		34·4	259	e 6 37?	− 7	i 12 3	− 9	i 15·4	20·3
Perth		53·5	253	—	—	i 16 37?	−12	—	—
Honolulu T.H.		59·3	23	—	—	i 18 2	− 5	—	—
Manila	E.	75·1	300	i 11 44	+ 3	—	—	—	—
Hong Kong		85·0	302	20 47	?	—	—	—	—
Vladivostok		89·5	328	—	—	e 23 23	[− 7]	e 39·0	49·1
Berkeley	N.	89·5	41	e 38 34	?	—	—	e 45·5	—
Victoria	E.	96·7	34	24 20	SKS	(24 20)	[+11]	50·4	62·9
	N.	96·7	34	24 25	SKS	(24 25)	[+16]	50·7	57·7
La Paz		97·1	115	—	—	i 24 12	[0]	48·6	56·2
Irkutsk		109·3	320	e 18 37?	PP	e 25 4	[− 6]	27·6	—
Florissant		110·0	54	e 19 7	PP	e 27 7	?	e 60·6	—
Bombay		115·1	276	—	—	e 23 37?	?	—	—
Tashkent		127·0	299	e 20 49	PP	i 26 7	[− 4]	—	—
Ekaterinburg		134·5	318	i 19 18	[+ 4]	i 22 45	PKS	—	—
Baku		141·1	294	e 19 34	[+11]	—	—	49·6	52·3
Pulkovo		148·3	332	19 43	[+ 4]	e 30 10	{− 3}	48·6	—
Ksara		151·1	279	e 19 59	[+16]	—	—	73·7	—
Theodosia		151·7	302	e 19 59	[+15]	—	—	—	—
Yalta		152·6	301	e 20 1	[+16]	—	—	—	—
Copenhagen		157·3	343	20 7	[+17]	24 6	PP	65·6	—
De Bilt		162·1	351	e 20 37?	[+41]	—	—	e 66·6	70·0
Cheb		162·3	335	—	—	e 31 37?	{+ 6}	e 68·6	71·6
Uccle		163·5	352	e 24 37?	PP	e 35 47?	SKSP	e 63·6	—
Stuttgart		164·5	339	e 20 2	[+ 3]	—	—	e 65·6	—
Strasbourg		165·0	342	(e 17 37?)	?	—	—	e 17·6	—
Paris		165·6	356	e 17 37?	?	—	—	70·6	86·6
Granada		175·5	52	i 20 17	[+10]	—	—	e 65·6	91·8
Alicante		176·0	15	e 30 32	?	—	—	—	—
Almeria		176·5	46	e 20 5	[− 2]	—	—	—	106·3

Additional readings :—
Riverview eN = +5m.3s., PZ = +6m.9s., SSN = +10m.51s.
Melbourne i = +6m.37s. = PP − 7s.
Adelaide i = +14m.47s.
Honolulu T.H. i = +22m.37s.
Manila iE = +13m.32s. and +14m.59s.
Vladivostok e = +31m.17s.
Berkeley eN = +40m.56s.
La Paz PPZ = +17m.28s., PSN = +26m.18s.
Tashkent i = +22m.26s. and +32m.35s.
Baku e = +23m.13s., +36m.15s., +41m.29s., and +44m.52s.
Pulkovo PP = +23m.37s., e = +30m.10s. = SKKS − 3s.
Stuttgart ePKSZ = +24m.7s., ePPP, EN = +31m.33s. = SKKS − 10s., eZ = +32m.7s., eSKSPEN = +35m.42s., eSSE = +47m.37s.
Granada i = +24m.44s., +25m.17s., and +29m.50s.
Almeria i = +24m.13s., e = +25m.41s. = PP + 3s.
Long waves were also recorded at Nagasaki, Kobe, Koti, Sumoto, Upsala, Lund, Tortosa, Ivigtut, Sitka, Tucson, Chicago, and Tananarive.

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Sept. 25d. 18h. 33m. 40s. Epicentre 25°·5N. 98°·5E. (as on 22d.). R.2.

A = −·133, B = +·893, C = +·431; D = +·989, E = +·148;
G = −·064, H = +·426, K = −·903.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Phu-Lien		8·9	120	e 2 9	+ 3	—	—	4·3	6·1
Calcutta	E.	9·7	254	2 51	+34	—	—	5·2	—
	N.	9·7	254	3 4	+47	—	—	5·4	—
Hong Kong		14·7	99	6 27	S	(6 27)	+19	7·9	8·4
Agra	E.	18·4	280	3 36	−35	7 6	−27	9·4	12·3
	N.	18·4	280	e 4 22	+11	8 2	+29	10·1	10·5
Dehra Dun		18·7	290	3 40	−35	8 10	+30	10·7	11·3
Hyderabad		20·3	251	3 59	−34	7 43	−29	9·9	13·1
Chiufeng	E.	20·7	41	4 35	− 2	8 28	+ 8	—	—
Taihoku	E.	20·9	86	e 4 44	+ 5	—	—	11·2	—
Zi-ka-wei		21·0	69	i 4 38	− 2	8 34	+ 8	i 12·2	12·5
Medan		21·9	179	5 6	+16	i 12 5	L	(i 12·1)	—
Manila		23·7	113	5 42	+35	i 9 40	+22	—	—
Bombay		24·6	260	5 19	+ 3	9 50	+16	13·1	13·4
Almata		24·9	321	5 22	+ 3	9 48	+ 9	—	—
Colombo		25·8	227	5 26	− 1	10 8	+13	13·9	19·2
Andijan		26·5	312	e 5 35	+ 1	10 15	+ 8	16·8	—
Irkutsk		27·1	8	e 5 39	0	10 16	− 1	14·3	14·8
Tashkent		28·8	311	—	—	i 10 43	− 2	16·2	18·5
Samarkand		29·8	306	5 5?	−58	10 3?	−58	26·3	—
Batavia		32·8	165	—	—	e 8 41	?	i 18·8	—
Ekaterinburg		41·4	330	i 7 43	− 1	13 55	− 2	19·3	26·1
Baku		42·8	304	—	—	e 17 35	SS	22·3	25·0
Ksara		54·2	295	17 4	S	(17 4)	+ 6	46·4	—
Pulkovo		57·3	327	i 9 44	− 1	e 17 37	− 3	32·3	36·7
Kew		75·4	320	e 11 33	−10	e 21 19	− 6	e 39·3	—

Additional readings :—
Hong Kong S = +7m.28s.
Zi-ka-wei PPPPZ? = +5m.14s.
Medan i = +6m.14s. and +8m.57s., iN = +13m.42s.
Tashkent i = +12m.2s.
Long waves were also recorded at De Bilt.

Sept. 25d. Readings also at 0h. (near Andijan), 2h. (La Paz), 4h. (Berkeley, Chur, Padova, Rocca di Papa, and near Tyosi), 10h. (Baku, Ksara, and Tashkent), 11h. (La Plata, La Paz, Sucre, Rio de Janeiro, and Ekaterinburg), 12h. (Granada, Paris, Uccle, Kew, De Bilt, Strasbourg, Stuttgart, Copenhagen, Pulkovo, Baku, Tashkent, Wellington, and near Manila), 13h. (Andijan and Bombay), 14h. (Zagreb), 15h. (Nagasaki, near Florissant, and St. Louis), 16h. (Hong Kong, Manila, Phu-Lien, Taihoku, Koti, Zi-ka-wei, Vladivostok, and Irkutsk), 17h. (Granada, Strasbourg, Stuttgart, De Bilt, Kew, Uccle, Paris, Copenhagen, Pulkovo, Ekaterinburg, Baku, Bombay, Tashkent, Samarkand, and near Andijan), 19h. (Andijan and Kodaikanal), 20h. (La Paz), 21h. (Chur), 23h. (near Tananarive).

Sept. 26d. 4h. 22m. 14s. Epicentre 13°·9N. 91°·2W. (as on 1930 July 27d.). X.

A = −·020, B = −·971, C = +·240.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tacubaya		9·5	307	2 12	− 2	4 2	+ 1	4·1	4·9
St. Louis	N.	24·8	2	e 5 18	0	e 9 42	+ 5	e 16·8	—
Florissant		25·0	2	e 5 21	+ 1	e 9 38	− 3	e 14·8	18·8

Long waves were also recorded at Tucson, Charlottesville, Victoria, Ekaterinburg, Baku, Pulkovo, Tashkent, and Irkutsk.

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Sept. 26d. 19h. 55m. 42s. Epicentre 37°·4N. 137°·9E. N.3.

A = − ·589, B = + ·533, C = + ·607 ; D = + ·670, E = + ·742 ;
G = − ·451, H = + ·407, K = − ·794.

		Δ	Az.	P.	O − C.	S.	O − C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Nagoya		2·3	199	0 33	0	1 11	S*	—	1·2
Tyosi		2·9	125	e 0 38	− 3	(1 16)	+ 2	1·3	—
Toyooka		3·0	233	e 0 42	− 1	i 1 26	+ 9	—	1·7
Mizusawa	E.	3·1	53	0 44	0	1 15	− 5	—	—
	N.	3·1	53	0 46	+ 2	1 20	0	—	—
Osaka		3·3	215	0 49	+ 2	—	—	1·6	2·4
Kobe		3·5	220	0 48	− 2	1 22	− 8	—	1·5
Sumoto		3·9	219	1 10	P*	1 56	S*	—	2·2
Koti		5·2	224	1 30	P*	2 36	S*	3·0	—
Ekaterinburg		52·8	318	i 9 56	+44	—	—	25·3	—

Additional readings :—
Nagoya P_g = +52s.
Tyosi ePEN = +41s.
Toyooka i = +49s., iE = +1m.0s. = P_g.
Long waves were also recorded at Irkutsk, Baku, and Tashkent.

Sept. 26d. Readings also at 2h. (near Almata and near Bagnères), 3h. (La Paz and Merida), 4h. (Tyosi, near Mizusawa, and near Manila), 5h. (Strasbourg), 8h. (Bombay, Tashkent, Phu-Lien, and Wellington), 9h. (Ekaterinburg, Irkutsk, Vladivostok (2), and near Lick), 10h. (Baku, Ekaterinburg, Tashkent, and Ksara), 14h. (Alicante and Simferopol), 15h. (Ksara), 17h. (near Andijan), 18h. (near La Paz), 19h. (Adelaide, Melbourne, Riverview, Wellington, and near Balboa Heights), 21h. (Adelaide, Melbourne, Riverview, Wellington and Irkutsk), 22h. (Baku, Ekaterinburg, Tashkent, and Pulkovo), 23h. (Wellington).

Sept. 27d. Readings at 1h. (La Paz and La Plata), 2h. (Samarkand), 3h. (Taihoku), 6h. (Samarkand), 7h. (Andijan, Samarkand, Tashkent, Ekaterinburg, and near Baku), 11h. (Taihoku), 12h. (near Medan), 17h. (Adelaide and Manila), 18h. (Riverview), 19h. (Andijan and Samarkand), 23h. (near Balboa Heights).

Sept. 28d. 5h. 57m. 51s. Epicentre 25°·8N. 128°·0E. (as on 1928 May 31d.). X.

A = − ·554, B = + ·709, C = + ·435 ; D = + ·788, E = + ·616 ;
G = − ·268, H = + ·343, K = − ·900.

	Δ	Az.	P.	O − C.	S.	O − C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Taihoku	5·9	263	e 1 24	0	—	—	—	—
Nagasaki	7·1	13	1 55	+14	3 15	+14	—	—
Zi-ka-wei	8·0	315	i 1 49	− 4	i 3 9	−15	i 4·9	—
Manila	13·0	212	2 50	−12	i 6 30	+63	i 8·4	12·4
Hong Kong	13·1	257	3 19	+16	5 29	0	—	6·6
Mizusawa	17·3	36	—	—	7 45	+36	—	—
Vladivostok	17·6	10	e 4 36	+34	e 7 40	+25	—	—
Irkutsk	31·9	332	e 6 13	− 9	—	—	e 14·1	—
Tashkent	50·3	303	e 8 9?	−45	e 15 21	−44	—	26·3
Ekaterinburg	56·3	324	i 9 34	− 4	17 53	+26	27·1	—

Manila gives also iZ = +3m,16s, and +4m,26s,

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Sept. 28d. 9h. 51m. 51s. Epicentre 34°·5N. 139°·5E. N.2.

(as given in Geophysical Magazine of Tokyo, Vol. IV, No. 4).

A = −·627, B = +·535, C = +·566 ; D = +·649, E = +·760 ;
G = −·431, H = +·368, K = −·824.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Mera		0·5	33	0 11	+ 4	0 24	+11	—	—
Numadu		0·8	318	0 15	+ 4	0 26	+ 5	—	—
Yokohama		1·0	7	0 15	+ 1	0 31	+ 5	—	—
Tokyo		1·2	10	0 16	− 1	0 34	+ 3	—	—
Kumagaya		1·7	357	0 24	0	0 46	+ 2	—	—
Tyosi		1·7	42	0 18	− 6	(0 37)	− 7	0·6	—
Tukuba		1·8	18	1 22	+56	—	—	—	—
Nagoya		2·2	288	0 33	+ 2	1 11	+14	—	—
Nagano		2·4	334	0 34	0	1 2	0	—	—
Osaka		3·3	274	0 47	0	(1 31)	+ 6	1·5	1·9
Hukusima		3·3	12	0 41	− 6	1 17	− 8	—	—
Kobe		3·6	294	e 0 54	+ 3	i 1 38	+ 6	—	1·7
Sumoto		3·8	269	—	—	1 43	+ 6	—	1·9
Mizusawa	E.	4·8	15	1 21	+13	1 51	−12	—	—
Morioka		5·3	13	1 9	− 6	2 2	−13	—	—

Tyosi gives also P_g = +23s.

Sept. 28d. Readings also at 1h. (Samarkand and near Manila), 2h. (Andijan and near Almata), 5h. (Andijan and near Samarkand), 9h. (near Sumoto), 13h. (Almata and near Andijan), 17h. (Alicante and Taihoku), 19h. (Hong Kong, Zi-ka-wei, Manila, and near Amboina), 20h. (Ekaterinburg, Irkutsk, Tyosi, and near Mizusawa), 23h. (near Andijan).

Sept. 29d. 4h. 52m. 43s. Epicentre 31°·6N. 130°·6E. N.2.

(as given in the Geophysical Magazine of Tokyo, Vol. IV, No. 4).

A = −·554, B = +·647, C = +·524 ; D = +·759, E = +·651 ;
G = −·341, H = +·398, K = −·852.

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.	m. s.	s.	m.	m.
Kagosima		+1·0	0·0	—	0 21	+ 7	0 51	+25	—	—
Miyazaki		+0·9	0·8	66	0 25	+ 1	0 57	+13	—	—
Kumamoto		+0·8	1·2	3	0 25	− 4	—	—	—	—
Nagasaki		+0·7	1·3	332	0 23	− 6	0 58	+ 7	—	1·0
Hukuoka		+0·6	2·0	356	i 0 33	− 4	e 1 15	+ 8	—	1·4
Matuyama		+0·4	2·9	39	i 0 43	− 4	(i 1 32)	+ 8	i 1·5	1·6
Koti		+0·3	3·2	51	0 49	− 1	e 1 39	+ 9	—	1·7
Sumoto		+0·1	4·5	51	1 5	− 1	2 9	+11	—	2·2
Kobe		0·0	4·9	50	1 12	+ 2	2 21	+76	—	2·4
Osaka		0·0	5·2	52	1 2	−12	(2 29)	+16	2·5	2·9
Toyooka		−0·1	5·3	41	e 1 31	+17	2 28	+15	—	2·6
Gihu		−0·1	6·4	52	1 32	+ 2	3 0	+19	—	—
Nagoya		−0·1	6·4	54	e 1 33	+ 3	—	—	—	—
Numadu		−0·2	7·8	61	1 49	+ 1	—	—	—	—
Zi-ka-wei	N.	−0·2	7·8	270	e 1 47	− 1	i 3 33	+19	—	—
Tokyo		−0·3	8·7	59	1 59	0	4 0	+26	—	—
Tyosi		−0·4	9·5	61	e 2 14	+ 5	—	—	e 4·3	—
Hukusima		−0·4	10·1	49	2 18	+ 1	4 29	+23	—	—
Taihoku	N.	−0·4	10·3	233	e 1 49	−30	e 3 21	−50	—	—
Sendai		−0·4	10·7	48	2 26	+ 1	4 34	+13	—	—
Mizusawa		−0·5	11·4	46	—	—	4 50	+14	—	—
Manila		−1·1	19·1	210	2 37	?	i 4 17?	?	—	—

Additional readings :—
Nagasaki iP_g = +26s.
Toyooka eE = +1m.43s.
Long waves were also recorded at Hong Kong and Phu-Lien.

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Sept. 29d. 9h. 58m. 42s. Epicentre 32°·5N. 97°·5E. (as on 1924 Jan. 26d.). X.

A = −·110, B = +·836, C = +·537; D = +·991, E = +·131; G = −·070, H = +·533, K = −·843.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Irkutsk		20·4	12	e 4 40	+ 6	e 8 34	+20	11·3	12·1
Andijan		21·7	299	e 4 50	+ 2	—	—	—	—
Tashkent		24·1	300	—	—	e 9 25	0	e 12·3	16·6
Samarkand		25·5	296	e 5 18	− 7	—	—	—	—
Bombay		25·9	244	10 2	S	(10 2)	+ 5	14·5	—
Ekaterinburg		35·0	324	e 6 46	− 3	—	—	16·3	19·5

Bombay S = +13m.6s.
Long waves were also recorded at Hong Kong, Phu-Lien, Baku, Pulkovo, De Bilt, and Stuttgart.

Sept. 29d. 13h. 29m. 0s. Epicentre 26°·8N. 66°·5E. N.2.

A = +·356, B = +·819, C = +·451; D = +·917, E = −·399; G = +·180, H = +·413, K = −·893.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Bombay		9·8	142	2 21	+ 3	5 29	+81	6·9	7·8
Agra	E.	10·3	85	2 5	−20	3 50	−31	e 5·0	7·1
	N.	10·3	85	e 2 14	−11	4 3	−18	e 5·2	6·0
Dehra Dun		10·7	68	3 20	+49	—	—	5·5	6·0
Samarkand		12·8	2	2 58	− 1	—	—	—	—
Tashkent		14·7	8	1 3 19	− 6	e 6 7	− 1	7·3	9·9
Andijan		14·8	17	e 3 30	+ 4	e 7 55	+105	e 11·7	—
Almata		18·5	24	e 4 16	+ 3	—	—	—	—
Baku		19·3	319	4 16	− 6	7 50	− 2	10·5	16·9
Calcutta	E.	20·3	97	8 9	S	(8 9)	− 3	8·4	—
	N.	20·3	97	9 13	S	(9 13)	+61	10·5	—
Colombo		23·6	145	9 32	S	(9 32)	+80	—	15·6
Ksara		27·2	293	5 57	+17	10 30	+12	15·0	—
Ekaterinburg		30·3	354	e 6 9	+ 1	11 5	− 4	13·0	18·9
Irkutsk		38·0	37	e 6 0?	−75	e 13 15	+ 9	22·0	24·3
Pulkovo		41·2	334	e 7 50	+ 8	e 14 2	+ 8	22·0	27·5
Zi-ka-wei	Z.	47·8	70	—	—	e 19 27	?	28·6	30·6
Copenhagen		48·1	322	—	—	15 32	− 2	25·0	—

Additional readings:—
Irkutsk e = +8m.0s. ?
Long waves were also recorded at Hong Kong, Manila, Phu-Lien, Kodaikanal, and the European stations.

Sept. 29d. Readings also at 2h. (La Paz), 7h. (near Honolulu T.H.), 14h. (near Kobe, Osaka, and Toyooka), 17h. (Andijan and Samarkand), 19h. (near La Paz), 20h. (Cheb, Andijan, and Samarkand), 21h. (Zurich and near Chur), 22h. (Ksara, near Florissant, and St. Louis), 23h. (near Sumoto).

Sept. 30d. 4h. 55m. 14s. Epicentre 36°·5N. 140°·5E. (as on 1930 June 29d.). X.

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

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Tukuba		0·4	219	0 7	+ 1	—	—	—	—
Tyosi		0·9	160	0 8	− 5	0 14	− 9	0·3	0·3
Tokyo		1·1	216	0 13	− 3	—	—	—	—
Mizusawa	E.	2·6	10	0 58	+21	1 31	+24	—	—
Nagoya		3·2	245	0 47	+ 1	1 37	+15	—	—
Osaka		4·5	248	1 19	+15	—	—	2·4	2·6

No additional readings.

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Sept. 30d. 13h. 5m. 0s. Epicentre 9°·0N. 94°·0E. N.3.

A = −·069, B = +·985, C = +·156; D = +·998, E = +·070;
G = −·011, H = +·156, K = −·988.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Medan		7·1	138	i 2 19	+38	—	—	i 5·0	—
Phu-Lien		16·9	44	3 0?	−53	—	—	—	—
Batavia	N.	19·8	139	—	—	i 6 22	?	i 10·7	—
Bombay		22·8	298	5 1	+ 2	9 17	+16	12·2	—
Hong Kong		23·5	53	5 6	+ 1	9 10	− 4	—	14·5
Irkutsk		44·1	9	e 8 0	− 6	e 17 49	SS	27·0	—
Baku		50·1	316	—	—	e 16 3	+ 1	25·5	33·1
Ekaterinburg		54·4	338	e 9 22	− 2	e 16 50	−11	27·0	—

The only stations giving readings with definite phases are Bombay, Hong Kong, and Ekaterinburg.
Baku gives also e = +19m.51s.

Sept. 30d. 21h. 20m. 48s. Epicentre **4°·5S. 146°·5E.** N.1.

Probable error of epicentre ±0°·3.

A = −·831, B = +·550, C = −·078; D = +·552, E = +·834;
G = +·065, H = −·043, K = −·997.

		Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
		°	°	m. s.	s.	m. s.	s.	m.	m.
Palau		16·8	315	3 50	− 2	6 58	+ 1	—	—
Amboina		18·3	272	(i 3 59)	−11	(7 16)	−15	—	—
Riverview		29·7	173	e 6 11	+ 9	e 11 8	+ 9	15·1	17·8
Sydney		29·7	173	e 7 0	PP	i 12 48	SS	15·9	20·2
Adelaide		31·3	192	e 6 18?	+ 1	i 11 42	+18	i 14·7	18·3
Manila		31·7	309	i 6 19	− 1	i 11 26	− 5	i 15·1	—
Titizima		31·8	354	5 7	−74	9 33	PcP	—	—
Melbourne		33·3	182	e 7 32	PP	11 52	− 3	15·1	20·2
Isigakizima		36·1	325	6 46	−13	12 25	−13	—	—
Taihoku	E.	38·2	323	e 6 25	−52	—	—	—	—
Miyazaki		39·1	340	6 49	−35	13 3	−19	—	—
Siomisaki		39·2	347	7 9	−16	13 26	+ 2	—	—
Batavia		39·5	269	i 7 28	0	—	—	19·2	—
Perth		39·7	224	—	—	13 12?	−20	20·9	—
Koti		40·0	345	7 32	0	13 29	− 7	e 20·1	—
Misima		40·2	351	7 34	0	13 34	− 5	—	—
Sumoto		40·3	347	7 28	− 7	13 31	−10	e 16·6	16·6
Nagasaki		40·4	340	7 37	+ 2	13 42	0	—	—
Osaka		40·5	347	7 28	− 8	—	—	13·5	16·6
Tyosi		40·5	355	e 7 38	+ 2	e 13 39	− 5	—	—
Nagoya		40·6	349	e 7 35	− 2	e 13 47	+ 2	e 18·2	—
Kobe		40·6	347	e 7 40	+ 3	13 41	− 4	16·7	17·3
Tokyo		40·6	353	7 48	+11	13 45	0	—	—
Kumagaya		41·2	352	7 41	− 1	13 53	− 1	—	—
Hong Kong		41·4	312	7 42	− 2	13 54	− 3	18·3	18·4
Toyooka		41·5	347	e 8 2	+18	17 14	SS	—	—
Oiwake		41·5	351	7 45	+ 1	13 57	− 2	—	—
Nagano		41·8	351	7 49	+ 2	14 7	+ 4	—	—
Hukusima		42·6	355	7 53	0	14 19	+ 4	—	—
Zi-ka-wei	Z.	42·9	329	7 54	− 2	13 34	−45	17·8	21·8
Mizusawa		43·9	356	8 6	+ 2	14 38	+ 4	18·0	—
Morioka		44·5	356	8 12	+ 3	14 43	0	—	—
Wellington		44·7	149	—	—	14 55	+ 9	20·2	24·2
Christchurch		45·4	153	—	—	14 15	−41	19·8	31·6
Phu-Lien		46·6	306	e 8 25	0	e 14 53	−20	21·2	—

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.
Medan		48·4	280	i 10 46	PP	i 17 44	SS	—	—
Vladivostok		49·3	347	8 46	0	i 15 52	+ 1	—	—
Honolulu T.H.		60·3	62	—	—	e 15 32	?	25·2	—
Irkutsk		67·0	334	e 10 49	− 3	19 41	− 4	31·2	34·9
Colombo		67·5	280	11 1	+ 6	19 41	−10	33·0	40·8
Kodaikanal		70·3	284	e 20 18	S	(e 20 18)	− 7	e 43·7	46·4
Agra		73·1	301	e 10 52	−37	20 12	−46	e 36·1	—
Dehra Dun		73·9	305	10 32	−62	15 12	PP	19·7	21·2
Bombay		76·1	291	11 50	+ 3	21 38	+ 5	40·2	50·0
Almata		78·4	317	12 58	+59	—	—	—	—
Andijan		81·1	313	e 12 16	+ 2	e 22 27	0	—	—
Tashkent		83·4	313	i 12 26	+ 1	e 22 24	−27	37·6	47·1
Samarkand		84·8	312	12 34	+ 2	22 58	− 8	—	—
Sitka		87·3	32	—	—	i 23 28	− 2	e 36·3	—
Ekaterinburg		91·5	328	13 5	+ 1	i 23 56	−14	37·2	51·0
Victoria	E.	93·5	42	13 21	+ 7	24 1	{− 2}	43·0	55·6
	N.	93·5	42	13 30	+16	24 26	− 2	38·6	55·9
Tananarive		97·0	250	—	—	24 19	[+ 8]	39·7	53·5
Baku		97·9	311	—	—	24 12	[− 4]	42·8	49·3
Tucson		103·1	58	—	—	e 42 36	?	46·4	—
Pulkovo		106·8	333	e 15 28	+73	24 53	[− 5]	49·2	58·7
Theodosia		108·1	317	e 18 58	PP	e 25 7	[+ 3]	58·2	—
Helsingfors		109·1	333	e 19 37	?	e 28 7	PS	e 50·2	—
Ksara	N.	109·6	305	—	—	25 18	[+ 7]	34·2	—
Upsala		112·5	335	—	—	e 30 7	?	e 52·2	57·7
Scoresby Sund		113·6	355	—	—	27 12?	{+40}	51·2	—
Lund		116·7	334	—	—	27 12?	{+18}	57·2	—
Copenhagen		117·1	334	21 6	?	—	—	57·2	—
Budapest		117·8	322	e 18 12?	[−28]	—	—	e 57·2	73·7
Belgrade		118·1	320	—	—	e 27 53	{+49}	e 57·0	—
Florissant	Z.	118·3	47	i 20 7	PP	i 29 12	PS	—	69·2
Potsdam		118·7	330	i 20 5	PP	e 27 12?	{+ 4}	e 54·1	60·2
Chicago		119·2	43	—	—	e 29 54	PS	e 53·2	—
Hamburg		119·5	332	e 20 43	PP	e 30 12	PS	e 49·2	61·0
Graz		120·2	324	e 21 27	?	—	—	57·2	62·5
Cheb		120·3	328	e 21 42	?	e 30 38	PS	e 52·2	62·8
Göttingen		120·7	330	e 21 12?	?	—	—	e 54·2	61·2
Ann Arbor	N.	121·6	41	e 21 30	?	e 30 30	PS	e 64·3	—
Dyce		121·8	340	14 41	?	e 36 45	SS	e 52·2	64·4
De Bilt		122·7	333	e 19 12	[+20]	e 27 21	{−14}	e 54·2	62·9
Stuttgart		122·8	329	e 20 32	PP	e 27 23	{−13}	e 55·2	63·6
Edinburgh		123·2	340	—	—	e 35 12?	?	51·2	74·2
Durham		123·5	338	21 35	?	—	—	59·2	67·4
Strasbourg		123·7	328	e 19 12?	[+18]	(37 12)	SS	37·2	—
Toronto	N.	123·8	38	e 20 57	PP	—	—	51·2	—
Chur		123·8	325	e 18 59	[+ 5]	—	—	—	—
Uccle		123·9	332	e 20 42	PP	e 37 12?	SS	e 51·2	—
Zurich		124·0	325	(e 19 12?)	[+17]	—	—	e 19·2	—
Florence		124·4	322	20 48	PP	28 21	{+36}	49·2	59·2
Rocca di Papa		124·5	320	e 19 13	[+17]	e 31 54	?	i 64·6	67·2
Stonyhurst		124·5	337	—	—	26 2	[− 2]	57·2	63·7
Piacenza		124·7	324	21 0	PP	30 44	PS	—	63·9
Catania		124·8	314	e 18 58	[+ 1]	—	—	e 62·9	—
Ottawa		125·0	35	e 20 48	PP	i 38 12	?	e 51·2	—
Kew		125·5	335	e 21 12?	PP	—	—	e 55·2	64·4
Oxford		125·7	336	e 21 31	PP	i 38 10	SS	58·2	67·1
Paris		126·1	332	e 20 55	PP	—	—	49·2	62·2
Charlottesville		127·1	43	—	—	e 33 12	?	e 52·4	—
Georgetown		127·7	41	e 19 12	+10	e 31 6	PS	e 56·2	—
Tortosa	N.	132·6	325	e 22 48	PKS	—	—	e 56·2	68·7
Algiers		133·5	320	e 19 16	+ 3	33 37	?	68·2	78·2
La Plata		134·4	151	47 36	?	—	—	69·6	—

Continued on next page.

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	Δ	Az.	P.	O−C.	S.	O−C.	L.	M.
	°	°	m. s.	s.	m. s.	s.	m.	m.
Alicante	134·8	324	—	—	e 28 11	{−41}	e 64·4	—
Toledo	135·8	327	e 23 20	PKS	—	—	e 55·1	70·9
Almeria	136·9	323	e 19 24	[+ 6]	—	—	—	86·0
Granada	137·4	324	e 20 48	?	—	—	e 62·2	75·2
Malaga	138·2	324	e 22 25	PP	—	—	—	—
La Paz	139·8	122	i 19 35	[+14]	26 46	?	71·5	79·4
Sucre	140·9	128	e 19 39	[+16]	—	—	—	—
Rio de Janeiro	151·1	161	e 20 12	PKKP	(e 43 12)	SS	e 43·2	—

Additional readings and notes :—
Amboina readings have been *diminished* by 2m.
Riverview iSN = +11m.22s., iSS = +13m.3s. ; T_o =21h.20m.44s.
Adelaide i = +13m.20s.
Batavia i = +9m.12s.
Koti SSSE = +16m.31s.
Perth PP = +9m.12s. ?
Kobe PPE = +8m.38s.
Toyooka iE = +13m.56s. =S −3s., iN = +14m.8s., eSZ = +17m.56s. =S_cS +5s.
Wellington e = +12m.12s.
Christchurch i = +15m.18s.
Medan iE = +11m.32s., iN = +11m.41s.
Honolulu T.H. iSS = +18m.34s. =S +14s.
Agra eN = +11m.32s. =P +3s.
Tashkent PP = +15m.43s., e = +27m.24s.
Ekaterinburg SKS = +23m.35s., iPS = +25m.10s., SS = +30m.6s.
Tananarive eE = +18m.54s. and +25m.4s. =S +4s., P_cS = +27m.15s., E = +32m.10s.
Baku e = +16m.5s., PP = +17m.29s., PS = +26m.13s., SS = +31m.48s.
Tucson ePP = +18m.36s.
Pulkovo PP = +18m.53s., PS = +27m.57s., SS = +34m.0s.
Helsingfors iE = +19m.42s.
Scoresby Sund +35m.18s. =SS +11s.
Belgrade e = +23m.22s. and +32m.18s.
Potsdam eEN = +36m.24s.
Chicago eS = +28m.12s., eSS = +36m.22s.
Cheb ePP = +24m.13s., eSS? = +36m.56s.
Ann Arbor eE = +31m.54s., e?N = +32m.36s., eN = +36m.18s., e = +37m.12s.
De Bilt iZ = +21m.6s. and +25m.55s. =SKS −3., eEN = +50m.48s.
Stuttgart eE = +23m.38s., eEN = +36m.57s. =SS −12s.
Toronto iN = +29m.44s. and +37m.28s. =SS +7s.
Ottawa e = +32m.12s.
Kew ePPPZ = +23m.42s. =PPP +20s., eSSEN = +37m.54s.
Oxford i = +25m.10s. =PPPP −1s. +40m.55s., and +49m.24s.
Georgetown iP = +21m.10s. =PP +8s., ePP = +24m.36s., ePS = +32m.42s., iSS = +37m.33s.
Algiers PP = +22m.48s. =PKS +0s.
Almeria PP = +22m.13s.
La Paz iPP = +23m.15s. =PKS +7s., PS? = +32m.12s.
Long waves were also recorded at Berkeley, Ivigtut, Königsberg, Vienna, Zagreb, and Dakar.

Sept. 30d. Readings also at 2h. (Andijan and Samarkand), 4h. (La Paz), 8h. (near Taihoku), 10h. (La Paz and Messina), 12h. (near Samarkand), 13h. (near Almeria), 17h. (Stuttgart), 19h. (Simferopol, Yalta, near Theodosia, and near Tananarive), 20h. (near Florissant and St. Louis), 21h. (Ootomari), 22h. (La Paz), 23h. (Kodaikanal, La Plata, Tananarive, and Tyosi).