

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

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## **The International Seismological Summary.**

**1955 October, November, December.**

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**INTERNATIONAL GEODETIC AND GEOPHYSICAL UNION.  
ASSOCIATION OF SEISMOLOGY.**

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The Director and Committee of the I.S.S. wish to express their thanks to U.N.E.S.C.O., to the International Association of Seismology and the Physics of the Earth's Interior, to the National Science Foundation of the United States, and to H.M. Treasury for the financial support of this publication.

Further thanks are due to the Director General of the Meteorological Office and the Superintendent of Kew Observatory for housing the project and for providing administrative assistance. The United Kingdom Atomic Energy Authority continues to provide the services of an electronic computer, which is making a decisive contribution to the effort of overtaking the arrears of publication.

The last quarter for 1955 contains 63 epicentres, of which 26 have been attributed to abnormal focal depth.

November, 1962.

**KEW OBSERVATORY,  
Richmond,  
SURREY.**

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1955

593

1955 OCTOBER, NOVEMBER, DECEMBER.

Oct. 1d. 6h. 29m. 54s. Epicentre 30°·0N. 101°·4E.

A = -·1715, B = ÷·8504, C = +·4975; δ = +10; h = +2;  
D = +·980, E = +·198; G = -·098, H = +·488, K = -·868.

	Δ	Az.	P.		O - C.	S.		O - C.	Supp.		L.	
			m.	s.		m.	s.		m.	s.		
Lanchow	6·4	18	e 1	40	+ 2	e 3	4	+11	—	—	—	
Sining	6·7	3	e 2	9	- 5 <sub>g</sub>	—	—	—	—	—	—	
Sian	7·7	54	1	57	+ 1	3	35	+10	—	—	—	
Wuwei	8·0	7	e 2	7	+ 7	—	—	—	—	—	—	
Yinchuan	9·4	24	e 2	20	+ 2	—	—	—	—	—	—	
Shillong	9·5	245	i 2	19 <sub>a</sub>	- 1	i 4	6	- 4	2	35	PP	4·4
Taiyuan	12·2	47	e 2	52	- 6	—	—	—	—	—	—	—
Hong Kong	13·8	121	e 3	13 <sub>k</sub>	- 6	—	—	—	—	—	—	—
Nanking	15·1	78	3	31	- 5	e 6	30	+ 5	—	—	—	—
Peking	15·7	46	e 3	43 <sub>?</sub>	- 1	6	56 <sub>?</sub>	+17	—	—	—	—
Zô-Sê	17·1	81	4	0	- 2	7	18	+ 6	—	—	—	—
Taichung	18·1	104	4	24	+10	9	35	L	—	—	—	(9·6)
Alishan	18·5	106	e 4	20	+ 1	—	—	—	—	—	—	—
Hwalien	19·0	103	e 4	30	+ 4	—	—	—	—	—	—	—
Hsinkong	19·1	106	e 4	26	- 1	9	40	L	—	—	—	(9·7)
Dehra Dun	20·2	277	e 4	38	- 1	i 8	27	+ 6	4	51	PP	9·7
New Delhi	21·1	272	e 4	48	0	i 8	17	-22	4	58	PP	9·2
Baguio	22·2	123	i 4	59 <sub>k</sub>	- 1	i 9	12	+12	—	—	—	—
Irkutsk	22·4	5	e 5	0	- 2	—	—	—	e 5	38	PPP	—
Changchun	23·5	47	5	11	- 1	9	29	+ 6	—	—	—	—
Frunse	25·0	308	e 5	32	+ 5	e 9	59	+10	—	—	—	—
Semipalatinsk	25·9	328	e 5	34	- 1	—	—	—	—	—	—	—
Poona	27·5	252	e 5	48	- 2	—	—	—	—	—	—	—
Bombay	28·2	254	e 5	58	+ 2	e 10	46	+ 5	8	54	PcP	13·3
Stalinabad	28·2	296	i 5	56	0	—	—	—	—	—	—	—
Tashkent	28·3	302	e 5	52	- 5	e 12	26	SSS	e 7	1	PPP	—
Quetta	29·7	279	e 6	9	- 1	e 11	4	- 2	—	—	—	i 13·4
Matusiro	31·4	68	6	23 <sub>k</sub>	- 2	e 12	12	+40	e 13	17	SS	17·1
Bairam Ali	33·3	294	e 6	44	+ 3	—	—	—	—	—	—	—
Sverdlovsk	39·1	325	7	35	+ 4	16	22	SS	—	—	—	—
Goris	45·6	298	e 8	29	+ 5	—	—	—	—	—	—	—
Moscow	51·2	319	e 9	11	+ 4	—	—	—	e 11	11	PP	—
Jerusalem	56·0	290	i 9	42	- 1	—	—	—	—	—	—	—
Kiruna	59·2	334	e 9	53	-12	—	—	—	i 10	4	P	e 29·1
Upsala	61·5	325	i 10	19	- 2	—	—	—	—	—	—	—
Collmberg	66·3	317	e 10	53	+ 1	—	—	—	—	—	—	—
Jena	67·2	317	e 10	59	+ 1	—	—	—	—	—	—	—
Triest	67·7	311	e 10	54	- 7	e 19	56	- 2	e 12	36	?	—
Stuttgart	69·5	315	i 11	12 <sub>?</sub>	0	—	—	—	—	—	—	e 36·1
Rome	69·9	307	e 11	5	-10	—	—	—	—	—	—	e 32·3
Florence	70·0	310	e 11	14	- 1	e 20	23	- 3	—	—	—	—
College	71·4	25	i 11	20	- 4	—	—	—	—	—	—	—
Resolute Bay	75·1	4	e 11	44	- 2	—	—	—	—	—	—	e 38·5
Brisbane	75·5	134	i 11	48	0	—	—	—	—	—	—	—
Hungry Horse	95·8	23	i 13	30	+ 1	—	—	—	—	—	—	—
Mineral	99·5	32	e 17	55	PP	—	—	—	—	—	—	—
Eureka	102·6	29	e 18	13	PP	—	—	—	—	—	—	—

Oct. 1d. 8h. 26m. Epicentre 32°·9S. 179°·9W. Magnitude 5·5.

Seismo. Observatory Bull. No. E-136 for 1955, New Zealand Department of Scientific and Industrial Research, Wellington, 1961, p. 49.

Oct. 1d. 10h. 11m. Epicentre 17°59'N. 102°45'W.

Seismo. Bull. for Oct., 1955, Institute of Geophysics, National University of Mexico, Tacubaya, p. 1.

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1955

594

Oct. 1d. 10h. 22m. 35s. Epicentre 40°·1N. 142°·5E. Depth of focus 20km.  
Intensity II-III at Miyako, Hatinohe, Morioka, and Kusiro.  
Seismo. Bull. Cent. Met. Obs., Japan, for Oct., 1955, Tokyo, 1956, pp. 9-11, with macroseismic chart.

Oct. 1d. 18h. 49m. Epicentre 19°S. 169°E.  
*Loc. cit.*, 1d. 8h., p. 49.

Oct. 1d. 19h. 17m. 33s. Epicentre 33°·7N. 133°·9E. Depth of focus 20km.  
Intensity II-III at Koti, Takamatu, Tokusima, and Okayama.  
*Loc. cit.*, 1d., 10h. 22m., pp. 11, 12 with macroseismic chart.

Oct. 2d. 16h. 2m. 54s. Epicentre 5°·6N. 82°·6W.

A = +·1282, B = -·9870, C = +·0969;  $\delta = -1$ ;  $h = +7$ ;  
D = -·992, E = -·129; G = +·012, H = -·096, K = -·995.

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
			m.	s.		m.	s.		m.	s.		
Balboa Heights	4·4	42	i 1	11	+ 1	i 2	3	+ 1	—	—	—	
Chinchina	7·0	95	i 1	45	- 1	i 3	1	- 7	—	—	—	
Bogota	8·5	96	i 2	8	+ 1	i 3	46	+ 1	—	—	—	
Galerazamba	8·8	54	i 2	10	- 1	i 3	49	- 4	—	—	4·6	
Comitan	14·1	319	e 3	21	- 2	e 6	5	+ 3	—	—	e 7·7	
Merida	16·7	336	e 4	9	+12	e 7	16	+13	—	—	—	
Oaxaca	17·9	310	e 4	14	+ 2	—	—	—	e 4	30	PP	e 9·0
Vera Cruz	18·9	317	e 4	22	- 2	—	—	—	—	—	—	e 10·9
Huancayo	19·0	158	e 4	24	- 2	e 7	46	- 9	—	—	—	e 9·7
Puebla	20·2	312	e 5	1	+22	—	—	—	—	—	—	—
San Juan	20·4	50	e 4	42	+ 1	i 8	40	+15	i 9	2	SS	e 9·2
Tacubaya	21·2	312	i 4	53	+ 4	e 8	52	+11	e 7	58	?	e 10·0
Trinidad	21·4	75	e 4	50	- 1	—	—	—	e 6	25	?	—
St. Vincent	22·3	69	e 5	1	0	—	—	—	—	—	—	—
La Paz	26·2	147	i 5	38 <sub>a</sub>	0	10	10	+ 1	i 6	30	PP	11·8
Columbia	28·3	3	i 5	56	- 1	e 11	8	+25	—	—	—	e 12·4
Dallas	30·2	336	e 6	31	+17	—	—	—	—	—	—	—
Fayetteville	32·1	342	i 6	29 <sub>k</sub>	- 2	—	—	—	—	—	—	—
Cleveland	35·7	1	i 7	1 <sub>a</sub>	- 1	e 15	38	L	—	—	—	(e 15·6)
Palisades	36·1	11	—	—	—	i 12	50	+ 5	i 15	31	Q	e 17·4
Buffalo (Larkin)	37·2	5	i 7	14	- 1	—	—	—	—	—	—	—
Tucson	37·4	319	e 7	16	0	e 13	16	+11	e 8	47	PP	e 15·9
Weston	37·9	14	i 7	16 <sub>k</sub>	- 4	—	—	—	—	—	—	e 16·2
Boulder	39·9	332	i 7	38	+ 1	—	—	—	—	—	—	—
Ottawa	40·1	8	i 7	38 <sub>a</sub>	- 1	—	—	—	—	—	—	—
Barratt	z. 41·6	315	i 7	52 <sub>a</sub>	+ 1	—	—	—	—	—	—	—
Boulder City	42·3	320	i 8	27	+30	—	—	—	e 10	12	PPP	—
Kirkland Lake	z. 42·4	2	e 8	2	+ 4	—	—	—	—	—	—	—
Seven Falls	42·6	12	i 7	59 <sub>a</sub>	0	—	—	—	—	—	—	—
Riverside	z. 42·8	316	i 8	1 <sub>a</sub>	0	—	—	—	e 9	45	PcP	—
Pasadena	43·5	315	i 8	6 <sub>a</sub>	- 1	—	—	—	—	—	—	—
Salt Lake City	43·7	328	i 8	9	+ 1	—	—	—	—	—	—	—
China Lake	z. 44·0	318	i 8	21	+10	—	—	—	i 9	54	PcP	—
Isabella	z. 44·5	317	i 8	14 <sub>a</sub>	- 1	—	—	—	—	—	—	—
Eureka	45·2	323	i 8	21	+ 1	—	—	—	—	—	—	—
Tinemaha	z. 45·2	319	i 8	21	+ 1	—	—	—	—	—	—	—
Fresno	z. 46·0	318	e 8	26	- 1	—	—	—	—	—	—	—
Bozeman	46·9	333	e 8	35	+ 1	—	—	—	—	—	—	—
Lick	z. 47·6	317	e 8	39	0	—	—	—	—	—	—	—
Reno	z. 47·6	321	i 8	39	0	—	—	—	—	—	—	—
Butte	N. 47·9	332	e 8	41	- 1	—	—	—	—	—	—	—
Berkeley	z. 48·3	317	e 8	44	- 1	—	—	—	—	—	—	—
Mineral	z. 49·2	320	e 8	50	- 2	—	—	—	—	—	—	—
Shasta	z. 49·9	320	e 8	54	- 3	—	—	—	—	—	—	—
Hungry Horse	50·3	333	i 9	0	0	—	—	—	—	—	—	—

Continued on next page.

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**1955**

**595**

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Victoria	55.0	328	e 9	34	- 1	—	—	—	—	—	—
Resolute Bay	69.4	356	e 11	8	- 4	—	—	e 22	37	?	e 29.4
College	74.6	336	i 11	40	- 3	—	—	—	—	—	—
Malaga	77.2	54	i 12	2 <sub>a</sub>	+ 5	e 21	56	+ 9	—	—	—
Granada	77.8	53	i 12	15 <sub>k</sub>	+14	i 22	15	+22	27	9	SS
Stuttgart	87.0	42	e 12	49	+ 1	—	—	—	—	—	e 43.1
Jena	z. 88.3	39	e 12	55	0	—	—	—	—	—	—
Florence	88.9	46	e 13	14	+16	e 23	30	[+ 4]	—	—	—
Rome	E. 90.0	48	e 13	5	+ 2	—	—	—	e 22	58	?
Triest	90.4	44	e 13	0	- 4	e 23	51	- 7	e 16	31	PP
Messina	E. 92.9	51	—	—	—	e 28	30	?	—	—	e 47.7
Taranto	93.8	49	12	47 <sub>?</sub>	-33	e 23	16	?	—	—	—

Oct. 2d. 17h. 58m. Epicentre 39°·8N. 19°·8E.  
Intensity III+ at Avliotes on Corfu. Recorded up to 20°.  
Seismo. Institute Bull., National Observatory of Athens for 1955, Athens, 1956, p. 59.

Oct. 4d. 13h. 34m. Epicentre 41°·3N. 44°·0E.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 16.

Oct. 5d. 2h. 55m. Epicentre 37°·8N. 20°·2E. Magnitude 5. Poorly recorded up to 86°.  
Seismo. Institute Bull. for 1955, National Observatory of Athens, 1956, p. 59.

Oct. 5d. 8h. 58m. 3s. Epicentre 54°·0N. 160°·7E. Depth of focus 0.005.

$$A = -0.5572, B = +0.1951, C = +0.8071; \quad \delta = -5; \quad h = -7;$$

$$D = +0.331, E = +0.944; \quad G = -0.762, H = +0.267, K = -0.590.$$

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Petropavlovsk	1.5	236	i 0	25	- 1	e 0	49	+ 4	i 0	35	?
Klyuchi	2.4	1	i 0	41	+ 3	i 1	13	+ 6	i 0	53	?
Magadan	7.8	320	e 1	53	0	—	—	—	—	—	—
Kurilsk	12.0	229	e 2	50	0	e 5	15	+12	—	—	—
Ulegorsk	12.6	255	i 3	1	+ 3	e 5	31	+13	—	—	—
Yuzno-Sakhlinsk	13.4	246	i 3	9	0	e 5	45	+ 8	—	—	—
Vladivostok	21.8	252	e 5	12	+24	e 8	49	+ 9	—	—	—
Matusiro	23.4	231	i 5	4 <sub>a</sub>	0	i 9	13	+ 4	i 6	3	PPP
Changchun	25.1	261	e 5	19	- 1	e 9	38	+ 1	6	3	PP
College	27.6	46	i 5	42	- 1	—	—	—	i 6	14	PP
Peking	32.8	263	e 6	27	- 2	—	—	—	—	—	—
Irkutsk	33.1	290	—	—	—	e 14	2	SS	—	—	—
Z6-S6	36.3	247	e 6	58	- 1	e 12	38	+ 3	—	—	—
Nanking	36.9	251	e 7	2	- 2	e 12	45	+ 1	e 7	22	pP
Resolute Bay	42.4	22	i 7	49 <sub>a</sub>	- 1	e 14	5	- 1	e 9	34	PP
Victoria	45.7	64	e 8	16	0	—	—	—	—	—	—
Semipalatinsk	46.9	300	e 8	24	- 2	i 15	27	PPS	e 10	15	PP
Hong Kong	47.1	246	8	27 <sub>a</sub>	0	15	19	+ 5	e 10	10 <sub>?</sub>	PP
Baguio	48.7	235	i 8	39	- 1	—	—	—	—	—	—
Hungry Horse	50.7	59	i 8	56	+ 1	e 18	45	ScS	e 9	18	pP
Shasta	z. 51.3	72	i 9	0	0	—	—	—	—	—	—
Sverdlovsk	51.9	316	i 9	0	- 4	16	21	0	i 9	21	pP
Mineral	52.0	72	e 9	4	- 1	—	—	—	i 9	20	pP
Butte	n. 53.0	61	i 9	12	0	e 21	6	SSS	e 9	33	pP
Berkeley	z. 53.3	74	e 9	18	+ 3	—	—	—	—	—	e 24.2
Reno	z. 53.5	71	e 9	16	0	—	—	—	—	—	—
Bozeman	54.0	60	i 9	20	0	—	—	—	i 9	51	sP
Lick	54.0	74	e 9	19	- 1	—	—	—	i 9	50	sP
Frunse	54.8	296	i 9	24	- 2	e 17	22	PS	e 10	27	PcP
Kiruna	55.0	343	i 9	26	- 1	e 17	1	- 1	e 19	10	ScS

Continued on next page.

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1955

596

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		$\circ$	$\circ$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Fresno	z.	55.4	74	e 9	30	0	—	—	—	—	—	—
Eureka		55.7	69	i 10	27	PcP	—	—	—	—	—	—
Tinemaha		56.1	72	i 9	37	+ 2	i 17	28	+11	i 9	53	—
Isabella	z.	57.0	74	i 9	41	0	—	—	—	e 39	19	—
Salt Lake City		57.0	65	i 9	43	+ 2	—	—	—	—	—	—
China Lake		57.4	73	i 9	44 <sub>a</sub>	0	e 39	42	P'P'	i 10	7	—
Shillong	z.	57.4	269	i 9	42	- 2	e 17	32	- 2	—	—	—
Pasadena		58.2	74	i 9	50	0	i 17	51	+ 6	e 39	38	e 27.0
Rabaul	z.	58.4	190	i 9	49	- 2	i 11	58	PP	i 10	39	—
Boulder City		58.8	71	i 9	55	+ 1	e 17	35	-18	i 10	11	—
Riverside	z.	58.8	74	i 9	53	- 1	e 18	1	+ 8	e 39	36	—
Palomar	z.	59.6	74	i 10	0	+ 1	e 39	26	P'P'	i 10	19	—
Pulkovo		59.8	334	e 10	0	- 1	e 18	10	+ 5	—	—	—
Boulder		61.0	61	i 10	10	+ 1	—	—	—	—	—	—
Moscow		61.1	327	10	8	- 2	18	53	PS	10	23	—
Reykjavik		62.2	1	e 10	19	+ 2	—	—	—	—	—	—
Upsala		62.7	340	i 10	20	0	e 18	44	+ 2	i 11	5	e 30.0
Tucson		63.8	71	i 10	29	+ 1	e 19	0	+ 4	e 20	22	e 28.6
Kirkland Lake	z.	66.1	40	i 10	42 <sub>a</sub>	0	—	—	—	40	18	—
Ashkabad		66.8	303	e 10	44	- 3	—	—	—	—	—	—
Copenhagen		67.6	341	i 10	52	0	e 19	45	+ 3	i 19	51	34.0
Lubbock		67.7	64	10	53	0	—	—	—	—	—	—
Quetta		68.3	292	e 10	54	- 2	e 19	51	0	e 20	47	i 36.2
Warsaw		69.0	335	e 10	59	- 2	e 20	2	+ 3	e 20	59	e 35.0
St. Louis		69.5	52	i 11	4	0	i 20	9	+ 4	—	—	—
Fayetteville		69.6	56	i 11	4 <sub>k</sub>	0	e 12	35	?	e 14	14	—
Ottawa		70.0	39	i 11	6 <sub>a</sub>	- 1	13	53	PP	11	25	—
Hamburg		70.1	342	e 11	9	+ 2	—	—	—	—	—	e 39.0
Shawinigan Falls		70.1	36	i 11	6	- 1	—	—	—	—	—	—
Seven Falls		70.2	35	i 11	7 <sub>a</sub>	- 1	20	16	+ 3	11	31	—
Lwow		70.3	332	i 11	10	+ 1	e 21	7	ScS	e 11	32	—
Dallas		70.9	60	i 11	11	- 1	—	—	—	—	—	—
Buffalo (Larkin)		71.0	42	i 11	12	- 1	—	—	—	—	—	—
Cleveland		71.0	45	i 11	13 <sub>a</sub>	0	e 20	24	+ 2	i 11	34	—
Goris		71.2	312	i 11	15	+ 1	i 20	31	+ 6	—	—	—
Simferopol		71.4	323	11	15	0	e 20	31	+ 4	13	55	—
Witteveen	z.	71.4	344	i 11	16 <sub>a</sub>	+ 1	—	—	—	—	—	—
Iasi		71.6	328	e 11	18	+ 2	e 20	35	+ 6	e 21	37	—
Raciborz		71.6	336	e 11	17 <sub>a</sub>	+ 1	—	—	—	e 11	38	—
Collnberg	z.	71.7	339	i 11	17	0	—	—	—	—	—	—
Skalnate Pleso		71.9	334	i 11	21	+ 3	e 20	41	+ 8	e 11	42	—
De Bilt		72.3	344	i 11	22 <sub>a</sub>	+ 2	e 19	39	-58	—	—	e 34.0
Jena		72.3	340	i 11	20	0	—	—	—	e 14	12?	—
Prague		72.5	338	i 11	23	+ 1	e 21	22	PS	i 14	5	—
Rathfarnham C.	z.	72.6	352	i 11	48	PcP	—	—	—	i 12	3	—
Cheb		72.9	339	i 11	25	+ 1	i 20	51	+ 7	e 21	10	—
Morgantown		73.2	45	i 11	26	0	—	—	—	i 15	11	—
Poona	z.	73.4	279	i 11	28	+ 1	—	—	—	—	—	—
Hurbanovo		73.7	335	i 11	32	+ 3	e 22	15	?	e 14	13	—
Uccle		73.7	345	e 11	30	+ 1	e 20	45	- 8	—	—	e 37.0
Kew		73.8	348	i 11	28	- 1	—	—	—	—	—	e 32.0
Campulung		74.2	329	e 11	34	+ 2	—	—	—	—	—	—
Weston		74.2	37	i 11	32 <sub>a</sub>	0	i 21	0	+ 1	—	—	e 36.3
Palisades		74.4	40	i 11	20	-13	i 21	1	0	e 21	44	e 33.4
Bucharest		74.6	328	e 11	38	+ 4	e 21	38	PS	e 12	11	—
Halifax		74.8	31	i 11	33 <sub>a</sub>	- 2	—	—	—	—	—	e 38.0
Karlsruhe	z.	74.8	342	i 11	36 <sub>a</sub>	+ 1	—	—	—	e 12	2	—
Stuttgart		74.8	341	i 11	35 <sub>a</sub>	0	e 21	11	+ 6	e 11	43	e 39.0
Djakarta		74.9	236	e 11	33	- 3	e 21	7	+ 1	—	—	—
Philadelphia		74.9	41	—	—	—	e 21	59	ScS	e 26	57	e 30.4
Washington	z.	75.0	43	i 11	34	- 2	—	—	—	i 14	41	—
Basle	z.	76.3	342	e 11	45 <sub>a</sub>	+ 1	—	—	—	—	—	e 42.5
Zürich	z.	76.3	341	e 11	44	0	—	—	—	—	—	—
Chapel Hill		76.7	46	e 11	47	+ 1	—	—	—	—	—	—
Triest	z.	76.8	337	e 11	46 <sub>a</sub>	0	e 21	33	+ 6	e 14	9 <sub>k</sub>	—

Continued on next page.

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1955

597

	$\Delta$	Az.	P.		O-C.	S.	O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	m.	s.	m.
Neuchatel	77.0	342	11	49	+ 1	—	—	—	—	—
Columbia	77.5	48	i 11	48	- 2	i 21	35	—	—	e 38.5
Salo	77.6	339	e 11	51	0	e 21	54	+18	e 13 7	?
Pavia	78.3	340	e 11	55	0	e 13	51	?	e 12 6	pP
Bologna	78.5	338	e 11	59	+ 3	e 21	50	+ 5	—	—
Florence	79.2	338	i 12	0 <sub>a</sub>	0	i 22	2	+ 9	i 12 36	pP
Tacubaya	80.3	70	i 12	0 <sub>a</sub>	- 5	i 15	3	PP	e 16 59	PPP
Ksara	80.4	316	i 12	8 <sub>a</sub>	+ 2	e 23	23	PPS	12 27	pP
Rome	80.7	336	i 12	9 <sub>a</sub>	+ 1	e 22	14	+ 5	i 15 13	PP
Athens	81.2	327	e 12	4	- 6	—	—	—	—	e 32.1
Brisbane	81.4	187	i 12	11	0	—	—	—	i 12 28	pP
Jerusalem	82.5	316	i 12	17	0	—	—	—	i 13 7	?
Messina	83.4	333	i 12	20 <sub>a</sub>	- 2	e 22	24	-12	e 12 52	pP
Toledo	z. 85.6	348	i 12	34 <sub>a</sub>	+ 1	22	57	- 1	i 12 46	pP
Alicante	86.6	345	12	39	+ 2	e 23	18	+11	—	e 41.4
Riverview	87.8	188	i 12	43 <sub>a</sub>	0	e 23	26	+ 7	i 13 4	pP
Granada	88.2	348	12	50 <sub>k</sub>	+ 5	—	—	—	—	e 42.6
Almeria	88.4	346	e 12	46	0	21	24	?	16 32	PP
Malaga	88.8	348	i 12	49 <sub>k</sub>	+ 1	e 23	39	+11	e 16 17	PP
Melbourne	E. 92.4	192	i 13	6	+ 1	—	—	—	—	e 44.5
San Juan	97.5	44	e 13	29	+ 1	—	—	—	—	—
Lwiro	115.2	305	e 18	38 <sub>k</sub>	[+ 4]	—	—	—	e 20 56	PP
La Paz	N. 126.9	65	e 19	29	[+32]	—	—	—	e 21 5	PP
Pretoria	z. 135.1	290	i 18	49 <sub>a</sub>	[-23]	—	—	—	—	—
Kimberley	z. 139.3	290	i 19	16	[- 4]	—	—	—	e 17 21	?

Oct. 6d. 5h. 46m. 6s. Epicentre 35°·6N. 140°·5E. Depth of focus 40km.  
Intensity V at Tyosi; IV at Kashiwa, Tokyo, Yokohama, Tateno, and Katsuura; II-III at Kakioka, Tukubasan, and Mera.  
Seismo. Bull. Cent. Met. Obs., Japan, for Oct., 1955, Tokyo, 1956, pp. 12, 13, with macro-seismic chart.

Oct. 6d. 10h. 55m. 34s. Epicentre 33°·5N. 48°·1W.

A = +.5580, B = -.6219, C = +.5493;  $\delta$  = -15;  $h$  = +1;  
D = -.744, E = -.668; G = +.367, H = -.409, K = -.836.

	$\Delta$	Az.	P.		O-C.	S.	O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	m.	s.	m.
Halifax	16.3	317	i 3	50 <sub>k</sub>	- 2	e 7	2	+ 9	e 6 29	?
Angra do Heroismo	17.6	67	—	—	—	e 7	55	+32	—	—
Weston	20.3	303	i 4	44	+ 4	i 8	10	-13	e 8 39	SS
Palisades	21.8	298	e 4	57	+ 1	i 9	1	+ 9	—	e 10.3
Seven Falls	21.9	315	e 4	59 <sub>k</sub>	+ 2	8	44	-10	5 35	PP
San Juan	22.0	231	i 4	58	0	—	—	—	i 5 48	PP
Philadelphia	22.6	294	e 6	10	PP	—	—	—	—	e 10.4
Shawinigan Falls	22.8	312	e 5	5 <sub>a</sub>	0	e 9	15	+ 4	e 7 34	?
Washington	z. 23.9	291	e 5	17	+ 1	—	—	—	—	—
Ottawa	24.3	307	i 5	23 <sub>k</sub>	+ 3	9	33	- 4	5 55	PP
Morgantown	26.2	293	i 5	41	+ 3	—	—	—	—	—
Columbia	27.3	280	i 5	49	+ 1	—	—	—	—	—
Kirkland Lake	z. 28.0	311	e 6	14	+19	—	—	—	—	—
Granada	36.3	71	7	41 <sub>k</sub>	+34	—	—	—	—	—
Collmberg	z. 47.1	49	e 8	34	- 1	—	—	—	—	—
Butte	N. 49.8	305	e 8	56	0	—	—	—	—	—
Hungry Horse	50.4	308	e 9	1	0	—	—	—	e 10 19	PcP
Kiruna	z. 51.4	27	i 9	7	- 2	—	—	—	—	—
Tucson	51.9	287	e 9	14	+ 2	—	—	—	—	—
Huancayo	52.2	214	i 9	15	0	—	—	—	—	—
La Paz	N. 53.3	204	e 8	58	-25	—	—	—	—	—
Eureka	53.7	297	i 9	25	- 1	—	—	—	i 9 31	pP
Boulder City	53.9	293	i 9	59	+32	—	—	—	i 10 9	pP
China Lake	z. 56.1	294	i 9	43	0	—	—	—	—	—
Tinemaha	z. 56.1	295	e 9	45	+ 2	—	—	—	—	—

Continued on next page.

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1955

598

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Palomar	z.	56.3	290	e 9 45	0	—	—	—	—
Barratt	z.	56.4	290	e 9 46	+ 1	—	—	—	—
Riverside	z.	56.5	291	i 9 46	0	—	—	—	—
Isabella	z.	56.8	294	i 9 50	+ 2	—	—	—	—
Pasadena	z.	57.1	292	i 9 50	0	—	—	—	—
Woody	z.	57.1	294	i 9 49	- 1	—	—	—	—
Mineral	z.	57.6	300	e 9 53	- 1	—	—	—	—
Shasta	z.	58.1	300	e 9 55	- 3	—	—	—	—
Lick	z.	58.6	296	i 10 2	+ 1	—	—	—	—
College		64.1	332	i 10 36	- 2	—	—	—	—
Lwiro		80.4	99	e 12 16 <sup>k</sup>	+ 1	—	—	—	—
Astrida		81.3	99	e 12 21 <sup>a</sup>	+ 1	—	—	—	—
Quetta	z.	91.8	52	e 13 13	+ 2	—	—	—	—
Rabaul	z.	137.9	324	i 19 41	[+14]	—	—	—	—

Oct. 6d. 11h. 3m. 18s. Epicentre 37°·6S. 70°·4W. Depth of focus 0·025.

A = +·2664, B = -·7483, C = -·6076 ;  $\delta = +10$  ;  $h = -1$  ;  
D = -·942, E = -·335 ; G = -·204, H = +·572, K = -·794.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Concepción	N.	1.5	299	i 1 32	+59	i 1 54	+55	—	—
Santa Lucia	N.	4.1	357	e 0 0	-63	0 41	-72	—	—
Santiago		4.1	358	-i 0 2?	-65	i 0 38	-75	—	—
Buenos Aires		10.1	76	2 22	+ 1	4 12	0	—	—
La Plata		10.4	79	i 2 26	+ 1	4 18	- 1	—	—
Antofagasta	E.	13.9	0	e 3 7	- 3	i 5 50	+10	e 15 15	ScS
Punta Arenas	N.	15.6	181	i 3 29	- 2	i 5 32	+14	i 6 23	SS
La Paz		21.1	6	i 4 34	+ 4	i 8 18	+ 9	i 4 52	pP
Huancayo		25.8	349	i 5 16	+ 1	i 9 38	+10	e 10 28	SS
Bogota		42.1	355	i 7 37	+ 2	i 13 46	+ 7	i 8 48	PP
Chinchina		42.6	352	i 7 39	0	i 13 51	+ 5	i 8 39	PP
Galerazamba		48.3	354	e 8 28	+ 4	i 15 14	+ 6	i 10 5	PP
Trinidad		48.7	12	e 8 27	0	—	—	—	—
Barbados		51.4	14	e 8 50	+ 3	—	—	—	—
San Juan		55.8	5	e 9 19	0	i 16 49	0	i 18 20	ScS
Comitan		57.3	335	9 24	- 6	e 16 52	-17	—	—
Merida		61.0	339	e 10 15	+20	—	—	—	—
Tacubaya		62.8	329	i 10 10	+ 3	i 18 27	+ 8	i 11 0	pP
Mobile		69.9	344	i 10 51	- 1	i 19 48	+ 3	i 11 34	pP
Columbia		71.9	351	e 11 2	- 2	i 19 55	-13	i 11 44	pP
Chapel Hill		73.6	353	e 11 14	0	—	—	e 11 56	pP
Dallas		74.2	337	i 11 19	+ 2	i 20 39	+ 5	i 12 2	pP
Little Rock		74.8	341	11 21	0	i 20 42	+ 2	—	—
Grahamstown	z.	75.5	121	i 11 20	- 5	—	—	—	—
Washington	z.	76.3	355	i 11 31	+ 2	e 21 21	+25	i 12 11	pP
Fayetteville		76.5	340	i 11 30	0	e 21 2	+ 3	e 12 12	pP
Lubbock		76.6	333	11 32	+ 1	—	—	—	—
Kimberley	z.	76.9	116	i 11 32 <sup>k</sup>	- 1	—	—	—	—
Morgantown		77.3	352	i 11 35	0	i 21 12	+ 5	—	—
Philadelphia		77.3	356	e 11 38	+ 3	i 21 13	+ 6	e 12 39	sP
St. Louis		78.0	344	i 11 38	- 1	i 21 16	+ 1	i 12 21	pP
Pittsburgh		78.1	353	i 11 40	+ 1	i 20 57	-19	—	—
Terre Haute		78.2	347	—	—	e 21 15	- 2	—	—
Palisades		78.3	357	i 11 41 <sup>a</sup>	+ 1	i 21 25	+ 7	e 12 25	pP
Pennsylvania		78.3	354	i 11 40	0	e 21 22	+ 4	e 11 49	PcP
Tucson		79.0	326	i 11 45	+ 1	e 21 32	+ 7	i 12 27	pP
Cleveland		79.3	352	i 11 45 <sup>k</sup>	- 1	i 21 29	+ 1	i 12 28	pP
Weston		79.6	359	i 11 48 <sup>k</sup>	+ 1	i 21 38	+ 6	e 22 51	sScS
Pietermaritzburg	z.	80.3	120	i 11 51	0	—	—	—	—
Buffalo (Larkin)		80.4	354	i 11 52	+ 1	—	—	i 12 34	pP

Continued on next page.

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1955

599

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Christchurch		81.1	221	e 11 57	+ 2	e 21 52	+ 5	i 13 0	sP	—
Pretoria	z.	81.1	116	i 11 58 <sub>a</sub>	+ 3	—	—	—	—	—
Wellington		81.5	224	e 11 57 <sub>k</sub>	0	i 22 0	+ 9	i 23 2	sS	e 34.7
Tuai	N.	81.8	227	e 12 0	+ 1	e 22 11	+17	e 13 8	sP	—
Halifax		82.0	5	i 12 0 <sub>k</sub>	0	i 22 5	+ 9	i 23 7	PS	e 26.9
Barratt		82.1	322	i 12 1 <sub>k</sub>	+ 1	i 22 5	+ 8	i 12 43	pP	—
Kaimata	N.E.	82.4	221	e 11 53	- 9	—	—	—	—	—
Cobb River	E.	82.7	223	e 12 0	- 3	e 22 5	+ 2	—	—	—
Ottawa		82.7	356	e 12 4 <sub>a</sub>	+ 1	22 6	+ 3	13 2	pP	—
Palomar	z.	82.8	322	i 12 6	+ 2	i 13 7	sP	i 12 48	pP	—
Karapiro	N.	83.4	227	12 8	+ 1	—	—	—	—	—
Riverside		83.5	322	e 12 9 <sub>k</sub>	+ 1	i 22 14	+ 3	i 12 51	pP	—
Boulder		83.6	334	e 12 9	+ 1	—	—	—	—	—
Shawinigan Falls		83.8	358	i 12 7	- 2	—	—	i 12 51	pP	—
Boulder City		84.0	325	e 12 41	+31	e 22 50	+34	—	—	—
Pasadena		84.0	322	i 12 13 <sub>k</sub>	+ 3	e 22 16	0	i 12 54	pP	—
Seven Falls		84.3	0	e 12 10 <sub>a</sub>	- 2	i 22 26	+ 7	23 17	PS	—
China Lake	z.	85.1	323	i 12 16 <sub>k</sub>	+ 1	i 13 21	sP	i 12 58	pP	—
Isabella	z.	85.4	323	i 12 19 <sub>k</sub>	+ 2	—	—	i 13 1	pP	—
Angra do Heroismo		85.6	32	—	—	e 22 31	- 1	—	—	—
Woody	z.	85.6	322	i 12 19	+ 1	—	—	i 13 1	pP	—
Kirkland Lake	z.	85.8	354	e 12 18 <sub>a</sub>	- 1	e 22 41	+ 7	i 13 2	pP	—
Tinemaha		86.4	324	i 12 24	+ 2	i 22 49	+10	i 13 6	pP	—
Rapid City	E.	86.5	337	e 12 24	+ 2	i 22 45	+ 5	e 13 6	pP	—
Salt Lake City		86.7	330	i 12 25	+ 2	e 22 46	+ 4	i 13 7	pP	—
Fresno	z.	86.9	322	e 12 26	+ 2	—	—	e 13 7	pP	—
Eureka		87.4	326	i 12 27	0	e 30 9	PKKP	i 13 9	pP	—
Lick	z.	88.3	322	e 12 32 <sub>k</sub>	+ 1	i 15 4	PP	i 13 14	pP	—
Berkeley		89.0	322	e 12 36 <sub>k</sub>	+ 2	e 23 6	+ 2	i 13 18	pP	—
Bozeman		90.6	333	e 12 44	+ 2	—	—	e 13 27	pP	—
Mineral	z.	90.6	324	e 12 43	+ 1	—	—	e 13 25	pP	—
Shasta	z.	91.3	323	e 12 45	0	—	—	e 13 27	pP	—
Butte	N.	91.4	332	i 12 52	+ 7	i 23 36	+11	i 13 35	pP	e 36.2
Hungry Horse		93.9	332	i 12 58	+ 1	e 23 11	[- 1]	i 13 46	pP	—
Malaga		95.9	48	i 13 0 <sub>a</sub>	- 6	23 30	[+ 8]	i 16 44	PP	e 60.5
Lwiro		96.0	97	e 13 10	+ 4	e 23 38	[+15]	—	—	—
Astrida		96.5	98	e 13 13	+ 4	e 25 41	PS	—	—	—
Granada		96.6	48	i 13 12 <sub>k</sub>	+ 3	23 34	[+ 8]	17 22	PP	—
Almeria		97.1	48	i 13 13	+ 2	25 46	PS	17 4	PP	—
Melbourne	E.	98.2	208	e 17 17	PP	e 23 38	[+ 4]	—	—	—
Toledo	z.	98.2	45	i 13 18	+ 2	23 42	[+ 8]	14 10	pP	39.7
Riverview		99.1	214	i 13 26 <sub>a</sub>	+ 6	i 23 43	[+ 4]	14 25	sP	—
Ivigtut	N.	100.1	11	—	—	e 23 47	[+ 3]	e 24 44	S	—
Brisbane		103.5	219	i 13 51	+11	i 24 5	[+ 5]	—	—	—
Rathfarnham Castle		106.1	34	e 13 52	P	22 40	PS	i 19 59	?	e 43.7
Kew		107.7	38	—	—	i 24 21	[+ 2]	e 25 47	S	e 44.7
Messina		109.3	56	e 18 11	[+ 5]	24 49	[+24]	e 18 33	PP	—
Rome		109.3	52	e 18 39 <sub>a</sub>	PP	i 24 31	[+ 6]	i 26 14	S	—
Florence		109.6	50	e 18 42 <sub>a</sub>	PP	i 24 17	[-10]	i 26 20	S	—
Aberdeen		110.4	33	i 23 57	?	i 24 42	[+12]	i 28 7	PS	—
Perth		110.6	186	i 18 52	PP	i 27 57	PS	—	—	e 54.0
Stuttgart		111.1	44	i 18 14	[+ 4]	e 24 37	[+ 4]	e 18 56	PP	—
Triest		112.1	49	e 14 29	P	e 24 44	[+ 7]	e 19 4	PP	—
Resolute Bay		113.1	353	e 18 49	PP	26 32	S	e 19 33	pPP	—
Jena	z.	113.6	43	e 18 18?	[+ 3]	e 19 12	PP	e 19 1	pPKP	—
Hamburg		114.1	40	—	—	e 24 53	[+ 8]	(e 25 24)	?	e 25.4
Collmberg	z.	114.6	43	e 18 19	[+ 2]	—	—	e 19 15	PP	—
Athens		114.7	60	e 18 20	[+ 3]	i 24 54	[+ 7]	—	—	—
Copenhagen		116.4	39	e 19 30	PP	i 25 3	[+10]	29 6	PS	52.7
Sofia		116.7	55	e 19 34	PP	e 24 59?	[+ 5]	(e 28 42?)	PS	e 28.7
College		118.4	332	e 14 47	P	—	—	—	—	—
Bucharest		119.2	55	e 18 34	[+ 8]	e 25 9	[+ 6]	i 29 48	PS	—
Warsaw		119.4	45	e 19 43	PP	e 25 6	[+ 2]	e 22 27	PPP	—
Jerusalem		120.0	71	i 18 30	[+ 2]	—	—	i 20 4	PP	—
Lwow		120.2	48	i 18 47	[+19]	i 25 13	[+ 7]	22 28	PPP	—

Continued on next page.

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1955

600

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Upsala	120.7	36	i 18	30	[+ 1]	i 25	11	[+ 3]	i 20	0	PP	—
Iasi	121.3	52	e 18	35	[+ 5]	—	—	—	—	—	—	—
Ksara	121.5	70	e 19	18 <sub>a</sub>	pPKP	36	20	SS	20	10	PP	—
Kiruna	124.5	27	i 18	38	[+ 2]	i 25	26	[+ 6]	e 21	23	PP	—
Simferopol	124.7	57	i 20	26	PP	i 25	25	[+ 4]	i 27	9	SKKS	—
Pulkovo	126.8	38	e 20	40	PP	—	—	—	—	—	—	—
Moscow	129.8	44	e 18	50	[+ 3]	25	39	[+ 4]	19	33	pPKP	—
Goris	131.4	67	i 18	51	[+ 1]	e 27	53	SKKS	21	12	PP	—
Lembang	z. 135.8	177	e 19	1	[+ 3]	—	—	—	e 22	16	PKS	—
Colombo	E. 139.3	131	e 22	3	PP	e 28	38	SKKS	e 39	38	SS	—
Ashkabad	139.9	73	19	5	[ 0]	i 22	2	PP	i 19	42	pPKP	—
Sverdlovsk	142.6	43	19	9	[ - 1]	28	58	SKKS	i 22	34	PKS	—
Bombay	E. 143.0	110	e 22	29	PP	e 29	2	SKKS	—	—	—	—
Poona	z. 143.5	111	i 19	11	[ - 1]	—	—	—	e 22	31	PP	—
Quetta	144.1	89	e 19	14	[+ 1]	28	37	SKKS	i 19	57	pPKP	—
Madras	E. 144.2	125	e 19	5	[ - 8]	i 29	7	SKKS	i 22	32	PP	—
Magadan	145.8	323	e 19	18	[+ 2]	e 44	40	SSS	—	—	—	—
Hyderabad	E. 146.1	118	e 19	20	[+ 4]	i 29	15	SKKS	—	—	—	—
Stalinabad	148.0	76	i 19	24	[+ 5]	i 29	31	SKKS	—	—	—	—
Tashkent	148.9	70	e 19	23	[+ 2]	e 29	30	SKKS	e 19	27	PKP <sub>2</sub>	—
Frunse	152.9	68	i 19	30	[+ 3]	e 29	58	SKKS	i 26	40	PPP	—
Dehra Dun	153.0	96	e 19	30	[+ 3]	e 29	56	SKKS	e 42	49	SS	—
Yuzno-Sakhlinsk	153.9	302	i 19	53	PKP <sub>2</sub>	—	—	—	i 20	18	pPKP	—
Bokaro	155.5	117	e 23	42	PP	e 30	8	SKKS	e 33	49	PS	—
Semipalatinsk	155.5	49	e 19	34	[+ 4]	i 30	12	SKKS	i 20	2	PKP <sub>2</sub>	—
Baguio	156.8	208	e 18	30	[ - 62]	—	—	—	—	—	—	—
Matusiro	157.1	276	i 19	35 <sub>a</sub>	[+ 3]	i 27	46	sSKS	i 20	6	PKP <sub>2</sub>	70.7
Shillong	z. 160.8	124	i 19	39	[+ 2]	i 30	37	SKKS	i 20	22	pPKP	—
Vladivostok	162.1	295	e 20	27	PKP <sub>2</sub>	—	—	—	—	—	—	—
Hong Kong	N. 164.3	196	—	—	—	e 30	57	SKKS	—	—	—	—
Irkutsk	164.8	12	e 19	42	[+ 1]	—	—	—	—	—	—	—

Oct. 8d. 20h. 38m. Epicentre 42°·4N. 45°·0E.

Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 16.

Oct. 8d. 20h. 42m. Epicentre 42°·5N. 44°·8E.

Loc. cit., 20h. 38m., p. 17.

Oct. 9d. 12h. 50m. 30s. Epicentre 1°·8S. 12°·7W.

A = +·9751, B = -·2197, C = -·0312;  $\delta$  = +6; h = +7;  
D = -·220, E = -·976; G = -·031, H = +·007, K = -1·000.

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
M'Bour	16.6	345	i 4	1	+ 5	e 7	14	+14	—	—	—	
Malaga	39.1	11	e 9	22	PP	e 16	2	SS	—	—	21.2	
Toledo	z. 42.2	10	e 9	41	PP	—	—	—	—	—	—	
Kimberley	z. 44.7	130	i 8	11 <sub>k</sub>	- 5	—	—	—	—	—	—	
Pretoria	z. 46.0	125	e 8	25	- 2	—	—	—	—	—	—	
Messina	E. 47.6	30	e 9	3	+24	e 15	41	+ 6	e 19	13	SSS	e 25.6
Grahamstown	z. 48.3	135	i 8	52 <sub>a</sub>	+ 7	—	—	—	—	—	—	—
Rome	49.1	25	e 11	2	PP	i 16	7	+11	—	—	—	
Florence	50.2	22	e 8	57 <sub>a</sub>	- 3	i 16	21	+10	—	—	—	
Triest	52.7	23	e 9	10	- 8	e 16	40	- 6	e 11	6	PP	—
Stuttgart	53.8	18	e 9	26	0	e 17	6	+ 5	—	—	—	
Uccle	54.4	13	—	—	—	e 17	19	+10	—	—	e 23.5	
La Paz	56.4	251	e 9	43	- 2	—	—	—	—	—	e 28.5	
Prague	56.7	21	i 9	46	- 2	—	—	—	e 10	54	PcP	—
Collmberg	z. 57.2	19	e 9	51	0	—	—	—	—	—	—	
Huancayo	62.9	257	e 10	30	0	—	—	—	—	—	—	
Ottawa	72.7	319	i 11	33	+ 1	—	—	—	11	45	PcP	—
Kiruna	73.2	12	e 11	34	- 1	e 21	9	+ 7	—	—	e 37.5	
Quetta	z. 82.0	59	e 12	24	+ 1	—	—	—	—	—	—	
Fayetteville	84.2	306	i 12	35 <sub>k</sub>	+ 1	—	—	—	e 12	46	PcP	—
Dallas	86.0	303	e 12	56	+13	—	—	—	—	—	—	
Resolute Bay	89.6	345	e 12	26	-35	e 17	52	PP	e 13	37	?	—

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1955

601

Oct. 9d. 14h. 18m. Epicentre 39°·0N. 22°·75E. Magnitude 5.  
Intensity IV at Hg. Nicolaos, in Regions of Parnassis, and at Amphissa; III at Desphina, Assos, and Athens.  
Seismo. Bull. for 1955, National Observatory of Athens, 1956, p. 60.

Oct. 9d. 17h. 40m. 18s. Epicentre 4°·8S. 152°·7E. Depth of focus 0·005.

A = -·8855, B = +·4571, C = -·0831;  $\delta = -4$ ;  $h = +7$ ;  
D = +·459, E = +·889; G = +·074, H = -·038, K = -·997.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Rabaul	z.	0·8	322	i 0 18	+ 1	—	—	—	—
Brisbane		22·5	179	i 4 51	- 4	e 8 57	+ 4	—	—
Riverview		28·9	183	i 5 52k	- 3	i 10 38	- 1	i 6 9	pP e 14·0
Melbourne	E.	33·6	191	i 6 42	+ 6	e 11 42	-11	—	—
Apia		36·1	107	e 7 8	+11	—	—	—	—
Onerahi		36·7	150	e 7 11	+ 9	e 12 49	+ 8	—	—
Manila		36·9	302	i 7 9	+ 5	—	—	e 8 41	PP
Baguio		38·1	304	i 7 16k	+ 2	i 13 7	+ 5	—	—
Karapiro	N.	39·0	151	e 7 21	- 1	—	—	—	—
Cobb River	E.	40·3	156	e 7 31	- 1	e 13 37	+ 2	—	—
Tuai	N.	40·4	150	e 7 27	- 6	e 13 32	- 5	—	—
Kaimata	N.E.	41·1	159	e 7 42	+ 3	e 13 47	0	—	—
Wellington		41·3	155	i 7 38k	- 3	i 13 48	- 2	i 17 24	SSS e 19·7
Christchurch		42·4	158	e 7 48	- 2	i 14 5	- 1	i 17 38	SSS e 20·7
Matusiro		43·3	343	i 7 56a	- 1	14 33	+14	8 22	pP 19·0
Perth	z.	43·8	228	i 6 30	?	i 12 36	?	i 7 49	P i 22·6
Lembang	z.	44·9	265	e 8 9	- 1	e 18 7	SS	—	—
Hong Kong		46·3	307	8 24k	+ 3	e 14 42	-20	—	—
Zô-Sè		46·7	322	8 27	+ 3	—	—	—	—
Nanking		48·8	321	8 44	+ 3	16 16	+38	—	—
Shillong	z.	66·2	300	i 10 35	- 8	—	—	—	—
Bokaro		71·1	297	—	—	e 20 32	+ 9	e 21 28	PPS
Colombo	E.	73·6	279	21 4	S	(21 4)	+12	—	38·6
Dehra Dun		79·3	302	e 12 5	+ 5	i 22 29	PS	—	—
Poona	z.	81·0	290	e 12 11	+ 2	—	—	—	—
Bombay	E.	82·0	290	—	—	e 22 27	+ 5	—	—
College		82·0	22	e 12 13	- 1	—	—	—	—
Quetta		88·7	300	i 12 49	+ 2	e 23 37	+10	23 20	SKS e 41·0
Berkeley	z.	89·0	52	e 13 27	pP	—	—	—	—
Shasta		89·3	49	e 12 49	- 1	—	—	e 16 19	PP
Lick	z.	89·5	53	e 13 33	pP	—	—	—	—
Mineral	z.	89·8	50	i 13 35	pP	—	—	—	—
Fresno	z.	90·9	53	e 12 57	- 1	—	—	—	—
Woody	z.	91·5	54	i 12 59	- 2	—	—	—	—
Isabella	z.	91·8	55	e 13 1	- 1	13 54	sP	e 13 30	pP
Pasadena		92·0	56	i 13 3	0	i 17 0	PP	i 13 31	pP e 42·1
Tinemaha	z.	92·2	53	e 13 4	0	—	—	e 17 2	PP
China Lake	z.	92·6	54	i 13 6	0	—	—	i 16 49	PP
Riverside	z.	92·6	56	i 13 6	0	e 17 40	PP	i 13 35	pP
Palomar	z.	93·0	57	e 13 8	0	—	—	e 13 47	pP
Barratt	z.	93·1	58	e 13 7	- 1	i 14 2	sP	e 13 37	pP
Eureka		94·1	51	i 13 13	+ 1	e 24 2	-13	e 25 4	PS
Boulder City		94·8	54	i 13 15	- 1	i 17 4	PP	e 13 45	pP
Hungry Horse		95·8	42	e 13 19	- 1	—	—	—	—
Salt Lake City		97·3	50	—	—	e 26 38	PS	—	e 45·7
Bozeman		97·8	45	e 13 30	+ 1	—	—	—	e 46·9
Tucson		98·0	58	e 17 38	PP	—	—	—	e 43·0
Resolute Bay		100·5	14	e 13 41	- 1	e 26 45	PS	e 32 37	SS e 47·0
Kiruna		109·4	343	—	—	e 25 17	+24	e 28 28	PS e 48·7
Scoresby Sund	N.	114·4	358	—	—	e 29 26	PS	—	54·7
Ksara		114·9	305	20 30	?	30 12	PPS	—	—
Upsala	z.	115·4	337	e 18 38	[+ 4]	—	—	—	—
Copenhagen		120·2	335	—	—	30 6	PS	—	60·7
Raciborz	z.	120·9	328	e 18 46	[+ 11]	—	—	—	—
Ottawa		121·7	38	e 18 48k	[+ 1]	—	—	e 19 16	pPKP

Continued on next page.

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1955

602

		$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Columbia		122.5	52	e 18 51	[+ 3]	—	—	(e 35 28) SS	e 35.5
Collmborg	z.	122.8	331	e 18 50	[+ 1]	—	—	e 22 2 PKS	—
Prague		122.9	329	e 18 52	[+ 3]	—	—	e 20 22 PP	—
Shawinigan Falls		122.9	36	e 18 49	[ 0]	—	—	—	—
Seven Falls		123.7	34	e 18 50k	[ 0]	—	—	i 19 17 pPKP	—
Philadelphia		124.6	44	—	—	—	—	e 53 58 Q	e 60.8
Witteveen	z.	124.6	336	i 18 55	[+ 3]	—	—	—	—
De Bilt		125.8	336	e 20 54	PP	e 31 4	PS	e 38 42? SS	e 59.7
Triest		125.9	325	e 23 52	PPP	e 27 25	SKKS	e 28 28 S	—
Weston		126.0	40	—	—	—	—	e 53 48 Q	e 65.4
Stuttgart		126.4	331	e 18 56	[ 0]	e 28 12	SKKS	e 20 54 PP	e 59.7
Taranto		126.6	318	—	—	e 28 52	SKKS	—	—
Uccle		127.1	335	e 19 3	[+ 6]	—	—	—	e 57.7
Kew		128.4	339	i 19 4	[+ 4]	e 28 15	SKKS	e 22 24 PKS	e 62.7
Florence		128.5	325	e 19 0	[ 0]	e 28 37	SKKS	e 21 8 PP	e 59.7
Messina	E.	128.8	316	e 19 7	[+ 7]	e 43 18	SSS	e 21 8 PP	62.0
Rome	z.	128.9	322	e 18 59	[- 2]	e 22 3	PKS	e 21 6 PP	—
Halifax		129.2	33	e 19 4	[+ 3]	—	—	—	e 61.7
Huancayo		129.4	110	i 19 5	[+ 4]	—	—	—	—
Chinchina		131.9	88	e-19 8	[+ 2]	i 22 36	SKP	—	—
Bogota		133.4	88	e 19 10	[+ 1]	—	—	i 22 44 PKS	—
La Paz		134.4	119	i 19 16 <sub>a</sub>	[+ 5]	i 23 4	PKS	i 22 44 PP	64.7
Toledo	z.	139.3	332	e 19 13	[- 7]	—	—	e 22 58 PKS	—
San Juan		139.8	67	i 19 22	[+ 1]	—	—	e 19 56 pPKP	—
Granada		141.2	329	—	—	25 35	[-50]	29 24 SKKS	—
Malaga		141.9	330	e 19 24	[ 0]	26 40	[+14]	i 22 34 PP	59.8
Lisbon		142.5	336	19 24	[- 2]	—	—	—	—
Dominica		144.9	70	e 19 35	[+ 5]	—	—	—	—
St. Vincent		145.5	74	e 19 30	[- 1]	—	—	—	—
Trinidad		145.6	78	e 19 31	[ 0]	—	—	—	—
Barbados		147.1	73	e 19 27?	[- 7]	—	—	—	—

Oct. 9d. 23h. 13m. 49s. Epicentre 51°·3N. 177°·1E. Depth of focus 0·005.

A = -·6270, B = +·0318, C = +·7783;  $\delta$  = -11;  $h$  = -6;  
D = +·051, E = +·999; G = -·777, H = +·039, K = -·628.

		$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Unalaska		10.3	69	i 2 25	- 2	e 4 41	+19	—	—
Klyuchi		10.9	304	e 2 35	- 1	—	—	—	—
Petropavlovsk		11.5	286	e 2 45	+ 1	e 5 5	+14	—	—
Magadan		17.0	309	i 3 54	- 1	—	—	—	—
Kurilsk		20.3	264	e 4 35	+ 2	e 8 24	+12	—	—
Uglegorsk		22.4	278	e 4 58	+ 4	—	—	—	—
College		22.6	40	i 4 56	0	i 9 4	+10	i 5 14	pP
Yuzno-Sakhlinsk		22.8	272	i 5 1	+ 3	—	—	—	—
Matusiro		31.3	257	i 6 16 <sub>a</sub>	0	e 11 10	- 7	e 9 23	PcP
Victoria		37.5	70	e 7 8	- 1	—	—	—	—
Banff		40.8	63	e 8 34	+57	—	—	—	—
Resolute Bay		40.8	24	i 7 37 <sub>a</sub>	0	e 13 37	- 6	e 9 9	PP
Shasta	E.	42.2	80	i 7 48	0	e 14 11	+ 8	e 9 25	PP
Mineral	z.	42.9	80	e 7 53	- 1	—	—	—	—
Hungry Horse		43.0	66	i 7 54	- 1	e 13 42	PcS	i 10 1	PPP
Irkutsk		43.3	301	7 56	- 1	e 17 43	ScS	e 9 34	PP
Berkeley	z.	44.0	83	e 8 2	- 1	e 9 49	PP	e 9 22	PcP
Reno	z.	44.5	80	e 8 5	- 2	—	—	—	—
Lick	z.	44.7	83	i 8 6	- 2	i 9 50	PP	i 8 36	pP
Butte	N.	45.1	68	e 8 12	0	—	—	—	—
Bozeman		46.2	67	e 8 19	- 1	—	—	—	e 27.6
Fresno	z.	46.2	83	e 8 19	- 1	—	—	—	—
Eureka		46.9	77	i 8 25	- 1	—	—	—	—
Tinemaha		47.0	81	i 8 28	+ 1	—	—	i 8 57	pP
Woody	z.	47.5	83	i 8 29 <sub>a</sub>	- 1	i 15 28	+ 9	e 13 54	ScP

Continued on next page.

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1955

603

		$\Delta$ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.	
				m.	s.		m.	s.		m.	s.		
Isabella	z.	47.7	83	i 8	31 <sub>a</sub>	- 1	—	—	—	i 8	43	pP	—
China Lake	z.	48.2	82	i 8	35 <sub>a</sub>	- 1	i 15	47	+18	i 10	4	PcP	—
Salt Lake City		48.6	73	i 8	39	0	—	—	—	—	—	—	e 29.2
Pasadena	z.	48.9	84	e 8	40	- 1	e 13	59	PcP	i 9	10	pP	—
Riverside		49.5	84	i 8	45 <sub>a</sub>	- 1	i 10	46	PP	i 9	7	pP	—
Boulder City		49.8	80	i 8	48	0	—	—	—	i 8	59	pP	—
Palomar	z.	50.2	84	i 8	51 <sub>a</sub>	0	—	—	—	i 9	1	pP	—
Barratt	z.	50.8	85	i 8	54 <sub>a</sub>	- 2	—	—	—	i 9	5	pP	—
Boulder		53.0	70	i 9	13	+ 1	—	—	—	—	—	—	—
Tucson		54.7	81	i 9	24	- 1	e 17	27	+29	e 10	31	PcP	e 29.4
Hong Kong		56.1	264	e 9	36?	+ 1	e 17	7?	-10	e 20	23	SS	—
Semipalatinsk		56.6	310	i 9	39	0	e 17	29	+ 5	e 11	43	PP	—
Scoresby Sund		57.7	8	e 9	53	+ 7	e 17	58	+20	i 13	13	PPP	30.2
Rabaul	z.	59.3	209	e 9	56	- 1	—	—	—	e 10	23	pP	—
Kiruna		59.9	350	i 9	59	- 3	e 18	7	0	e 22	20	SS	e 29.2
Sverdlovsk		60.2	326	10	5	+ 1	18	19	+ 8	—	—	—	—
Kirkland Lake	z.	61.0	48	e 10	10	+ 1	—	—	—	—	—	—	—
Fayetteville		62.1	66	i 10	15	- 1	e 10	56	PcP	e 11	37	?	—
Dallas		62.8	71	i 10	33	+12	—	—	—	—	—	—	—
Frunse		64.7	308	i 10	34	+ 1	e 19	13	+ 6	i 11	6	PcP	—
Ottawa		65.0	48	e 10	34 <sub>k</sub>	- 1	—	—	—	10	59	pP	—
Cleveland	z.	65.1	54	i 10	44 <sub>a</sub>	+ 8	—	—	—	—	—	—	—
Shawinigan Falls		65.5	45	e 10	37	- 2	—	—	—	—	—	—	—
Seven Falls		65.9	44	e 10	44	+ 3	—	—	—	—	—	—	—
Pulkovo		66.0	342	e 10	42	0	—	—	—	e 11	6	PcP	—
Morgantown		67.3	55	i 10	52	+ 2	—	—	—	e 11	15	pP	—
Upsala		67.9	349	i 10	53	- 1	e 19	39	- 7	e 20	22	PPS	—
Moscow		68.1	337	10	57	+ 2	—	—	—	15	1	PPP	—
Tashkent		68.4	310	e 10	58	+ 1	—	—	—	e 24	20	SS	—
Philadelphia		69.4	52	—	—	—	e 20	38	PS	e 24	58	SS	e 33.2
Weston		69.4	47	i 11	1 <sub>a</sub>	- 2	—	—	—	—	—	—	e 32.6
Chapel Hill		70.5	57	e 11	8?	- 2	—	—	—	—	—	—	—
Stalinabad		70.8	308	i 11	15	+ 3	e 20	32	+12	—	—	—	—
Columbia		71.0	59	e 11	14	+ 1	—	—	—	—	—	—	e 36.0
Halifax		71.0	41	e 11	17	+ 4	—	—	—	—	—	—	e 35.8
Tacubaya		71.2	82	e 11	14	0	—	—	—	e 11	32	pP	—
Dehra Dun		72.2	296	e 11	22	+ 2	—	—	—	i 12	12	?	—
Bokaro		72.6	286	—	—	—	e 20	54	+13	—	—	—	—
Copenhagen		72.6	351	e 11	22	0	i 20	46	+ 5	e 11	34	pP	36.2
Hamburg	z.	74.9	352	i 11	39 <sub>k</sub>	+ 3	—	—	—	—	—	—	—
Warsaw		74.9	345	e 11	38	+ 2	—	—	—	e 11	55	pP	e 42.2
Rathfarnham C.	z.	75.7	2	i 11	33	- 7	—	—	—	i 11	45	pP	—
Merida		75.9	74	e 11	11	-30	—	—	—	e 12	23	?	—
Witteveen	z.	75.9	354	i 11	42	+ 1	—	—	—	i 11	54	pP	—
De Bilt		76.7	355	e 11	47	+ 1	e 21	37	+11	e 12	3	pP	e 37.2
Collmberg	z.	76.9	350	11	47	0	—	—	—	—	—	—	—
Jena		77.4	351	e 11	49	- 1	—	—	—	—	—	—	—
Raciborz		77.4	346	e 11	49	- 1	—	—	—	e 12	16	pP	—
Kew		77.6	358	i 11	52	+ 1	e 21	38	+ 2	i 12	1	PcP	e 47.2
Prague		77.9	349	e 11	58	+ 6	i 12	6	PcP	e 14	40	PP	—
Uccle		78.1	355	e 11	55	+ 1	e 21	50	+ 9	e 12	6	PcP	e 41.2
Quetta		78.3	304	e 11	56	+ 1	e 22	3	ScS	—	—	—	i 41.9
Iasi		78.4	339	i 11	58	+ 3	e 21	53	+ 9	—	—	—	—
Simferopol		78.9	334	11	59	+ 1	e 22	3	ScS	—	—	—	—
Karlsruhe	z.	79.6	352	e 12	2	0	—	—	—	—	—	—	—
Goris		79.8	324	i 12	5	+ 2	i 22	10	ScS	22	20	PS	—
Stuttgart		79.8	352	e 12	1	- 2	e 22	1	+ 2	e 12	13	PcP	—
Basle	z.	81.1	353	e 12	10	0	—	—	—	—	—	—	—
Zürich	z.	81.2	352	e 12	10	0	—	—	—	—	—	—	—
Bucharest		81.4	339	i 12	13	+ 2	e 22	23	+ 7	e 14	20	?	—
Triest		82.3	348	e 12	3	-13	e 22	25	0	e 15	14	PP	—
Poona		83.7	292	e 12	24	+ 6	—	—	—	—	—	—	—
Bombay		84.0	293	e 12	29	+ 4	e 22	59	+17	—	—	—	—
Florence		84.5	350	i 12	27	0	i 23	4	+17	i 12	57	pP	—
Rome		86.2	349	e 12	42	+ 7	e 23	7	+ 3	i 12	57	pP	—

Continued on next page.

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1955

604

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Taranto	86.9	345	—	—	e 28 21	SS	e 36 11?	Q	—
Ksara	88.6	329	12 52	+ 5	23 57	+31	—	—	—
Colombo	E. 89.2	280	c 23 11?	SKS	(e 23 11)	[- 1]	—	—	—
Toledo	Z. 89.2	1	12 53	+ 3	—	—	—	—	—
Messina	E. 89.4	346	12 39	-12	23 39	+ 5	e 29 28	SS	—
Jerusalem	90.7	328	e 12 54	- 3	—	—	—	—	—
San Juan	91.4	58	i 13 1	+ 1	—	—	i 13 32	pP	—
Granada	91.9	1	13 7k	+ 5	23 43	-13	25 55	pPS	—
Almeria	92.2	0	12 11	-53	23 11	[-19]	15 51	PP	50.0
Malaga	92.3	1	i 13 5k	+ 1	e 16 27	PP	i 19 43	PPP	50.2
Galerazamba	92.4	70	—	—	i 24 9	+ 9	—	—	48.2
Lwiro	124.3	321	e 18 55	[+ 3]	—	—	—	—	—
Pretoria	Z. 145.2	305	i 19 36k	[+ 6]	—	—	—	—	—
Pietermaritzburg	Z. 147.1	298	i 19 38a	[+ 4]	—	—	—	—	—
Kimberley	Z. 149.4	307	i 19 44k	[+ 7]	—	—	—	—	—

Oct. 10d. 1h. 17m. 29s. Epicentre 41°·1N. 143°·1E. Depth of focus 40km.  
Intensity II-III at Urakawa, Hatinohe, Aomori, and Morioka.  
Seismo. Bull. Cent. Met. Obs., Japan, for Oct., 1955, Tokyo, 1956, pp. 14, 15, with macro-seismic chart.

Oct. 10d. 4h. 44m. Epicentre 38°·3N. 73°·9E. Depth of focus 150km.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 49.

Oct. 10d. 8h. 57m. 46s. Epicentre 5°·1S. 152°·8E.

$$A = -.8859, B = +.4553, C = -.0883; \quad \delta = -9; \quad h = +7;$$

$$D = +.457, E = +.889; \quad G = +.079, H = -.040, K = -.996.$$

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Rabaul	1.1	324	i 0 24	+ 2	—	—	—	—	
Brisbane	22.3	180	i 4 58	- 3	i 9 4	+ 2	—	—	
Riverview	28.6	183	e 5 59a	- 1	i 10 47	- 1	i 6 51	PP	e 13.3
Melbourne	E. 33.4	191	i 6 42	0	e 12 6	+ 3	e 7 46	PP	e 16.3
Apia	35.9	106	e 7 1	- 3	e 12 56	+14	e 7 38	PP	e 16.2
Onerahi	36.4	150	e 7 14	+ 6	e 12 51	+ 1	e 9 6	?	e 15.7
Manila	37.1	302	i 7 8	- 6	i 12 54	- 7	—	—	—
Auckland	N. 37.5	150	e 7 34	+17	i 13 14	+ 7	i 9 33	PPP	19.7
Baguio	38.4	304	i 7 24k	- 1	e 13 24	+ 4	—	—	—
Karapiro	N. 38.7	151	e 7 30	+ 3	e 13 23	- 2	e 18 6	ScS	e 19.2
New Plymouth	E. 38.9	153	e 7 24	- 5	e 13 29	+ 1	e 9 3	PcP	e 16.2
Cobb River	E. 40.0	156	e 7 41	+ 3	e 13 44	0	—	—	—
Tuai	N. 40.2	150	e 7 40	0	e 13 44	- 4	—	—	—
Kaimata	N.E. 40.8	159	7 48	+ 3	13 57	+ 1	—	—	—
Wellington	41.0	155	e 7 48a	+ 2	i 13 49	-10	i 9 49	PcP	e 20.2
Yakusima	41.3	330	e 7 51	+ 2	—	—	—	—	e 19.9
Tawu	41.4	312	e 7 48	- 2	14 34	+29	—	—	—
Hengchun	41.5	312	e 7 56	+ 6	14 36	+29	—	—	—
Hsinkong	41.6	314	e 7 52	+ 1	14 13	+ 5	—	—	—
Mera	41.6	344	e 7 46	- 5	e 14 6	- 2	e 10 12	?	19.3
Osima	N. 41.6	343	—	—	e 13 42	-26	—	—	e 20.2
Siomisaki	41.6	338	e 7 52	+ 1	—	—	e 11 8	?	e 19.6
Omaesaki	41.8	342	e 7 54	+ 1	—	—	e 10 33	?	e 18.5
Hwalien	42.0	315	7 58	+ 4	14 11	- 3	—	—	—
Muroto	42.0	336	e 8 20?	+26	—	—	—	—	19.9
Owase	42.0	339	e 7 56	+ 2	e 13 51	-23	e 10 9	PPP	—
Christchurch	42.1	158	i 8 3	+ 8	i 14 19	+ 3	i 18 27	ScS	21.0
Misima	42.1	343	e 7 56	+ 1	e 14 7	- 9	e 10 2	PPP	e 18.2
Miyazaki	42.1	332	7 57	+ 2	14 19	+ 3	17 43	Q	19.9
Shizuoka	42.1	342	e 9 24	PP	e 14 36	+20	—	—	—
Kagosima	42.2	331	7 58	+ 2	e 14 25	+ 8	8 22	pP	i 20.5
Yokohama	42.2	344	e 7 52	- 4	e 14 27	+10	—	—	e 21.8
Alishan	42.3	314	e 8 7	+10	14 34	+15	—	—	—
Tokyo	42.4	344	e 8 1	+ 3	e 13 17	?	e 9 35	PP	19.1
Hunatu	42.5	343	e 8 0	+ 1	e 17 59	SSS	e 10 1	PPP	20.1

Continued on next page.

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1955

605

	$\Delta$ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.	
			m.	s.		m.	s.		m.	s.		
Kameyama	42.6	340	e 8	1	+ 2	e 13	44	-39	e 10	24	PPP	19.2
Koti	42.6	336	e 8	2	+ 3	e 14	29	+ 6	e 9	40	PP	19.4
Tokusima	42.6	337	8	3	+ 4	e 14	30	+ 7	e 10	40	PPP	—
Kohu	42.7	343	e 7	59	- 1	e 17	57	SSS	e 9	54	PP	e 19.3
Nara	42.7	339	e 8	9	+ 9	e 18	3	SSS	e 8	48	?	20.9
Sumoto	42.7	338	e 8	33	+33	e 13	29	?	17	28	SS	20.4
Taichung	42.7	314	e 8	12	+12	14	42	+18	—	—	—	—
Taipei	42.7	316	e 8	7	+ 7	14	35	+11	—	—	—	—
Kakioka	E. 42.8	345	e 7	57	- 4	e 13	41	?	—	—	—	—
Nagoya	42.8	341	e 8	0	- 1	e 10	1	PPP	e 18	8	SSS	19.2
Osaka	42.8	339	e 8	1	0	e 14	29	+ 3	e 10	38	PPP	i 20.6
Titibu	N. 42.8	344	e 8	9	+ 8	—	—	—	e 18	5	SSS	—
Kobe	42.9	339	e 8	4	+ 2	e 14	48	+21	e 9	58	PP	e 20.0
Kumagaya	42.9	344	e 8	4	+ 2	e 14	8	-19	—	—	—	e 18.7
Mito	42.9	345	e 8	7	+ 5	—	—	—	i 10	21	PPP	e 20.2
Gihu	43.0	341	e 8	10	+ 7	—	—	—	—	—	—	—
Kyoto	43.0	339	e 8	7	+ 4	e 13	59	-30	(e 17	51)	SS	e 17.8
Takamatu	43.0	337	e 8	4	+ 1	e 14	44	+15	e 9	56	PP	—
Asosan	43.1	333	e 8	3	- 1	—	—	—	—	—	—	—
Hikone	43.1	340	e 8	2	- 2	14	42	+12	e 9	31	PP	19.4
Himeji	43.1	338	e 8	36	+32	—	—	—	e 17	35	SS	20.7
Matuyama	N. 43.1	335	e 8	5	+ 1	e 14	11	-19	e 9	49	PP	e 18.3
Ooita	43.1	334	8	8 <sub>a</sub>	+ 4	e 14	21	- 9	e 10	7	PPP	—
Kumamoto	43.2	332	e 8	2	- 2	—	—	—	(17	32)	SS	17.5
Maebasi	43.2	344	e 8	10	+ 6	e 18	10	SSS	e 9	54	PP	e 21.5
Utunomiya	43.2	345	e 8	1	- 3	e 14	13	-19	e 10	22	PPP	17.6
Oiwake	43.3	343	e 8	17	+12	e 15	11	+38	e 18	40	Q	e 22.0
Onahama	43.3	346	e 8	3	- 2	e 14	1	-32	(17	54)	SS	17.9
Unzendake	43.3	332	e 8	7	+ 2	e 14	32	- 1	e 9	32	PP	18.2
Matumoto	N. 43.4	342	e 8	5	- 1	—	—	—	—	—	—	19.8
Nagasaki	N. 43.5	332	8	3	- 4	14	14	-22	—	—	—	—
Tsuruga	43.5	340	e 9	10	?	—	—	—	e 18	54	SSS	22.0
Matusiro	43.6	343	i 8	5 <sub>a</sub>	- 3	14	48	+10	9	52	PP	i 20.9
Shirakawa	43.6	345	e 8	8	0	e 14	8	-30	e 10	23	PPP	—
Hirosima	43.7	335	e 8	7	- 1	e 14	49	+10	e 17	53	SS	e 20.4
Perth	Z. 43.7	228	i 8	16	+ 8	i 14	36	- 3	10	3	PP	—
Saga	43.7	332	i 8	12	+ 4	i 18	52	SSS	i 9	0	?	—
Hukui	43.8	340	e 8	20	+11	—	—	—	—	—	—	—
Nagano	N. 43.8	343	e 8	9	0	e 18	9	SS	—	—	—	e 20.7
Toyooka	43.8	339	e 8	8	- 1	e 17	57	SS	—	—	—	e 20.9
Hukuoka	43.9	333	i 8	10	0	e 15	0	+18	e 9	56	PP	20.9
Tomie	Z. 43.9	330	8	11	+ 1	—	—	—	(16	57)	SS	17.0
Simonoseki	44.0	334	8	14	+ 3	—	—	—	—	—	—	—
Inawasiro	44.1	345	e 8	15	+ 3	e 15	6	+21	i 9	46	PcP	21.8
Takada	44.1	343	8	4	- 8	e 13	45	?	—	—	—	22.2
Toyama	44.1	342	e 8	14	+ 2	e 15	55	?	e 10	36	PPP	e 19.3
Hokusima	44.2	346	e 8	8	- 4	e 14	58	+12	(18	14)	SS	18.2
Hamada	44.3	335	8	15	+ 2	e 14	50	+ 2	(e 18	12)	SS	e 18.2
Sendai	44.6	347	e 8	16	0	e 14	50	- 2	e 9	59	PP	e 19.4
Niigata	44.7	344	e 8	52	+36	15	34	+40	e 10	35	PPP	e 19.0
Yamagata	44.7	346	e 8	18	+ 2	—	—	—	—	—	—	e 20.2
Wazima	44.8	342	e 8	21	+ 4	e 15	16	+21	—	—	—	e 21.2
Aikawa	45.0	344	e 8	21	+ 2	(15	19)	+21	—	—	—	15.3
Bandung	45.0	265	e 8	14	- 5	e 14	50	- 8	e 18	1	SS	e 21.2
Lembang	E. 45.0	266	e 8	16	- 3	—	—	—	—	—	—	e 24.2
Saigo	45.0	338	—	—	—	e 18	9	SS	e 19	5	SSS	e 21.5
Mizusawa	45.3	347	8	24	+ 3	e 14	38	-24	—	—	—	21.2
Sakata	45.4	346	e 8	33	+11	—	—	—	—	—	—	—
Miyako	45.6	348	e 8	22	- 2	e 14	59	- 7	e 18	48	SSS	e 20.8
Djakarta	45.8	266	e 8	22	- 3	—	—	—	—	—	—	e 21.2
Morioka	45.9	348	e 8	26	0	e 15	18	+ 7	—	—	—	—
Akita	46.1	346	8	25	- 3	i 15	29	+15	i 10	43	PP	i 19.6
Hatinohe	46.6	348	e 8	27	- 5	e 15	21	0	e 18	21	SS	e 19.9
Hong Kong	46.6	307	e 8	23	- 9	—	—	—	—	—	—	—
Aomori	47.0	348	e 8	43	+ 8	—	—	—	—	—	—	e 21.9

Continued on next page.

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1955

606

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Zô-Sè		47.0	322	i 8 34 <sub>a</sub>	- 1	i 15 28	+ 2	—	—
Urakawa		47.9	350	e 8 39	- 3	e 14 42	-57	e 12 40	? e 22.0
Hakodate		48.0	348	e 8 21	-22	—	—	—	—
Mori		48.3	348	e 8 47	+ 2	c 15 48	+ 3	e 10 41	PP 20.1
Muroran		48.4	348	e 8 44	- 2	—	—	—	—
Kusiro		48.5	352	e 8 46	0	c 15 44	- 4	e 9 41	? e 20.8
Tomakomai		48.5	349	e 8 47	+ 1	—	—	—	—
Nemuro		48.6	353	e 8 46	- 1	e 15 48	- 1	e 10 29	PP e 20.8
Obihiro	z.	48.6	351	e 8 46	- 1	—	—	—	e 22.7
Suttsu		49.0	348	e 8 52	+ 2	—	—	—	e 23.2
Nanking		49.1	321	i 8 50 <sub>a</sub>	- 1	e 15 58	+ 2	—	—
Sapporo		49.1	349	e 8 47 <sub>a</sub>	- 4	e 15 47	- 9	e 9 20	pP e 20.1
Abashiri		49.5	352	e 8 56	+ 2	e 16 10	+ 8	e 18 52	ScS 23.4
Macquarie Is.		49.5	175	e 9 8	+14	e 16 6	+ 4	10 56	PP
Wakkanai	N.	51.3	350	e 9 8	0	e 15 44	-42	—	e 21.7
Vladivostok		51.6	340	i 9 8	- 2	—	—	—	—
Yuzno-Sakhlinsk		52.6	351	i 9 15	- 3	—	—	—	—
Honolulu		54.8	60	e 9 33	- 1	e 17 22	+ 8	e 10 24	PcP e 21.4
Peking		56.2	326	e 9 40	- 4	e 16 29	-64	i 10 44	PcP
Hawaii Vol. Obs.		56.6	63	9 47	0	—	—	c 24 56	Q
Kwanting		56.6	326	e 9 46	- 1	—	—	—	—
Taiyuan		56.7	322	e 9 49	+ 1	—	—	—	—
Sian		57.0	317	e 9 51	+ 1	—	—	—	—
Petropavlovsk		58.2	4	i 9 55	- 3	i 18 4	+ 5	i 10 52	PcP
Paotow		60.0	323	e 10 14	+ 3	—	—	—	—
Lanchow		61.5	316	e 10 23	+ 2	—	—	—	—
Sining		63.2	316	e 10 31	- 1	—	—	—	—
Wuwei		63.2	317	e 10 34	+ 2	—	—	—	—
Magadan		64.5	359	i 10 36	- 5	—	—	—	—
Changyeh		65.1	317	e 10 30	-15	—	—	—	—
Shillong	z.	66.5	301	e 10 50	- 4	i 19 39	- 5	—	—
Unalaska		67.9	25	i 11 12	+10	—	—	i 11 47	PcP
Irkutsk		70.4	331	11 16	- 2	20 27	- 3	—	—
Bokaro		71.3	297	i 11 21	- 2	i 20 41	0	11 32	PcP 33.8
Colombo	E.	73.8	279	11 34	- 4	21 22	+13	—	37.2
Madras	E.	74.4	285	i 11 41 <sub>a</sub>	- 1	i 20 51	-25	11 57	PcP 30.0
Hyderabad	E.	76.7	289	i 11 54 <sub>a</sub>	- 1	i 21 52	+11	22 55	PPS 37.6
Dehra Dun		79.5	302	e 12 12	+ 2	i 22 6	- 5	15 39	PP 37.0
New Delhi		79.9	300	i 12 11	- 1	i 22 6	-10	23 5	PPS 36.4
Poona		81.2	290	e 12 20?	+ 1	e 22 17	-12	23 17	PS 36.3
College		82.1	22	i 12 18 <sub>a</sub>	- 6	i 22 29	- 9	i 28 8	SS i 34.0
Bombay		82.2	290	12 24	0	22 34	- 5	15 35	PP
Semipalatinsk		82.9	322	e 12 25	- 3	i 22 47	+ 1	i 15 38	PP
Sitka		84.5	31	i 12 35	- 1	e 23 4	+ 2	e 15 42	PP e 34.3
Frunse		84.9	314	i 12 37	- 1	i 22 56	[- 4]	i 15 51	PP
Stalinabad		88.5	309	i 12 55	- 1	i 23 31	[+ 7]	16 24	PP
Tashkent		88.5	312	e 12 54	- 2	e 23 27	[+ 3]	e 24 57	PS
Ukiah		88.5	51	e 23 1	?	e 23 30	[+ 6]	e 29 49	SS e 36.1
Quetta		89.0	300	e 12 53	- 5	e 23 41	- 4	e 23 29	SKS
Berkeley		89.1	52	e 13 2	+ 4	i 23 42	- 4	e 16 38	PP e 40.7
Santa Clara	E.	89.3	53	e 24 53	PS	—	—	—	e 41.0
Shasta		89.3	49	e 13 1	+ 2	e 23 39	{+ 3}	e 16 33	PP
Lick	z.	89.5	53	e 12 57	- 3	—	—	e 14 48	?
Victoria		89.6	41	13 0	- 1	—	—	—	—
Horseshoe Bay		89.9	40	13 1	- 1	—	—	—	—
Mineral	z.	89.9	50	e 13 3	+ 1	—	—	—	—
Seattle		90.3	42	e 13 19	+15	e 25 27	PS	—	42.5
Fresno	z.	90.9	53	e 13 6	- 1	—	—	—	—
Reno	z.	91.2	51	e 13 8	0	—	—	—	—
Woody	z.	91.6	54	i 13 5 <sub>a</sub>	- 5	i 16 44	PP	i 13 22	PcP
Isabella	z.	91.9	55	e 13 7	- 4	e 38 43	P'P'	e 13 25	PcP
Pasadena		92.0	56	e 13 12	0	e 24 11	- 1	e 30 20	SS e 37.0
Tinemaha	z.	92.2	53	e 13 13	0	—	—	—	—
China Lake	z.	92.6	54	i 13 15	0	—	—	i 38 20	P'P'
Riverside	z.	92.6	56	e 13 14	- 1	—	—	—	—

Continued on next page.

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1955

607

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		<sup>e</sup>	<sup>c</sup>	m. s.	s.	m. s.	s.	m. s.	m.	
Palomar	z.	93.0	57	i 13 17	0	—	—	e 39 0	P'P'	—
Barratt	z.	93.1	58	e 13 17	0	—	—	—	—	—
Eureka		94.1	51	e 13 17 <sup>k</sup>	- 5	i 38 13	P'P'	e 30 32	PKKP	—
Boulder City		94.9	54	i 13 24 <sup>a</sup>	- 1	i 24 14	{- 3}	e 17 23	PP	—
Banff		95.0	39	13 32?	+ 6	—	—	—	—	—
Sverdlovsk		95.4	326	i 13 25	- 3	i 24 20	{- 1}	17 22	PP	—
Hungry Horse		95.9	42	e 13 30	0	i 24 19	{- 5}	i 17 26	PP	—
Butte	N.	96.8	44	e 13 33	- 1	e 24 10	{- 1}	e 17 28	PP	e 40.1
Salt Lake City		97.3	50	e 13 36	0	e 24 35	{ 0}	e 17 43	PP	e 39.6
Bozeman		97.9	45	e 13 39	0	i 24 19	[+ 3]	—	—	e 45.3
Tucson		98.0	58	e 13 41	+ 2	e 24 42	{+ 2}	e 17 30	PP	e 39.4
Saskatoon		100.5	38	—	—	e 24 37	[+ 8]	—	—	—
Resolute Bay		100.7	14	i 13 53 <sup>k</sup>	+ 1	e 24 41	[+11]	e 18 2	PP	e 47.1
Chihuahua		102.2	62	—	—	e 24 28	[-10]	—	—	—
Boulder		102.4	50	e 14 1	+ 2	—	—	—	—	—
Rapid City	E.	103.6	46	e 14 14	+10	e 24 38	[- 6]	e 18 29	PP	e 41.0
Goris		106.0	310	i 14 17	+ 2	24 54	[- 1]	18 50	PP	—
Moscow		108.2	327	14 24	P	e 25 0	[- 5]	25 42	SKKS	—
Tacubaya		108.6	71	e 14 27	P	e 29 8	PPS	e 18 49	PP	e 49.2
Puebla		109.6	72	—	—	e 30 22	PPS	—	—	—
Kiruna		109.7	343	i 14 30	P	i 25 7	[- 4]	i 18 37	PKP	e 48.2
Dallas		109.9	57	e 18 39	[+ 6]	—	—	—	—	—
Pulkovo		110.3	333	e 14 32	P	—	—	e 19 8	PP	—
Oaxaca		111.0	74	—	—	e 29 17	PPS	e 33 38	SS	e 55.3
Fayetteville		111.5	53	e 18 50	[+14]	e 29 46	PPS	e 19 18	PP	—
Helsinki		112.5	335	e 19 30	PP	e 25 16	[- 6]	e 34 16	SS	—
Simferopol		113.7	317	e 14 50	P	i 22 20	PKS	i 18 40	PKP	—
Florissant		114.0	50	e 18 40	[- 1]	i 25 49	[+21]	e 19 35	PP	—
St. Louis		114.1	50	e 18 46	[+ 5]	e 25 30	[+ 1]	e 19 35	PP	—
Scoresby Sund		114.6	358	e 18 47	[+ 5]	i 25 29	[- 1]	e 19 37	PP	53.2
Pietermaritzburg	z.	114.9	234	i 18 58	[+15]	—	—	—	—	—
Ksara		115.1	305	e 18 55	[+12]	30 25	PPS	19 47	PP	—
Chicago		115.2	46	e 19 35	PP	e 25 32	[- 1]	e 26 46	SKKS	e 46.7
Upsala		115.7	337	i 14 57	P	e 25 31	[- 4]	i 18 51	PKP	e 51.2
Jerusalem		116.1	303	i 18 47	[+ 2]	—	—	i 18 59	?	—
Grahamstown	z.	116.4	229	i 18 47	[+ 1]	—	—	—	—	—
Iasi		117.2	321	e 15 3	P	e 25 45	[+ 5]	e 19 51	PP	—
Merida		117.5	69	e 21 19	?	e 30 19	PPS	e 41 32	SSS	e 51.2
Kirkland Lake	z.	117.9	37	e 18 54	[+ 5]	—	—	e 20 4	PP	—
Lwow		118.1	325	18 51	[+ 2]	i 25 40	[- 3]	i 36 43	SS	—
Pretoria	z.	118.2	237	i 19 0	[+11]	—	—	—	—	—
Warsaw		118.6	328	e 18 55	[+ 5]	e 25 49	[+ 4]	e 20 11	PP	—
Akureyri	N.	119.2	356	—	—	e 29 14?	PS	e 37 14?	SS	e 56.2
Bucharest		119.2	319	e 19 10	[+19]	i 25 58	[+11]	e 27 9	SKKS	—
Cleveland		119.6	45	e 18 56 <sup>a</sup>	[+ 4]	i 26 9	[+20]	i 20 23	PP	—
Kimberley	z.	119.8	233	i 18 55	[+ 3]	—	—	—	—	—
Krakow		120.3	327	e 19 12	[+19]	—	—	e 20 20	PP	e 71.2
Copenhagen		120.5	335	e 18 55	[+ 1]	i 25 59	[+ 7]	27 27	SKKS	58.2
Skalnate Pleso		120.6	326	e 19 0	[+ 6]	e 25 55	[+ 3]	e 20 35	PP	e 56.2
Reykjavik		121.0	357	i 18 57	[+ 2]	—	—	—	—	—
Pittsburgh	z.	121.1	45	i 19 2	[+ 7]	—	—	—	—	—
Raciborz		121.2	328	e 18 55	[ 0]	e 27 43	{+22}	e 22 36	PKS	48.2
Ivigtut	N.	121.8	12	—	—	30 32	PS	32 57	PPS	—
Ottawa		121.8	38	e 18 56 <sup>a</sup>	[ 0]	25 43	[-13]	20 37	PP	—
Sofia		121.8	318	e 19 12?	[+16]	e 27 33	{+ 7}	e 20 38	PP	e 63.2
Timisoara		121.8	322	e 19 10	[+14]	e 26 51	{-35}	e 30 32	PS	e 49.2
Budapest		122.2	325	e 19 2	[+ 5]	25 57	[ 0]	20 34	PP	56.9
Szeged		122.2	323	e 20 31	PP	25 50	[- 7]	22 35	PKS	e 57.2
Hurbanovo		122.4	325	e 20 32	PP	e 25 51	[- 7]	i 22 27	PKS	e 52.2
Columbia		122.5	53	i 18 59	[+ 1]	—	—	(e 36 28)	SS	e 36.5
Belgrade		122.7	321	e 19 6	[+ 8]	e 26 7	[+ 8]	e 21 14	PP	e 53.7
Kalossa		122.7	324	e 19 4	[+ 6]	25 46	[-13]	e 23 45	PPP	e 60.2
Hamburg		123.0	335	e 19 1	[+ 2]	e 26 3	[+ 3]	e 20 38	PP	e 59.1
Shawinigan Falls		123.0	36	e 18 59	[ 0]	e 22 40	PKS	e 25 6	?	e 58.3
Collmberg		123.1	331	e 18 59	[ 0]	e 27 21	{-14}	e 23 29	PPP	e 58.7

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1955

608

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Prague	123.2	329	i 19	4 <sub>a</sub>	[+ 5]	i 22	31	PKS	i 20	59	PP	e 49.2
Vienna	123.2	327	e 19	2	[+ 3]	i 25	45	[-15]	i 20	37	PP	e 57.2
Athens	123.4	313	e 19	0 <sub>k</sub>	[+ 1]							
Santa Lucia	N. 123.8	136				e 26	1	[- 1]	e 30	50	PS	e 60.0
Seven Falls	123.8	35	e 18	58 <sub>a</sub>	[- 2]	26	18	[+16]	20	36	PP	
Washington	Z. 123.8	46	e 19	2 <sub>a</sub>	[+ 2]	e 29	28	PS				
Jena	124.1	331	e 19	0	[- 1]	e 30	46	PS	e 20	46	PP	e 59.2
Cheb	124.2	330	i 17	19	?	e 25	54	[- 9]	i 20	48	PP	e 58.7
Aberdeen	N. 124.4	344	e 20	48	PP	i 26	25	[+21]	i 27	59	SKKS	56.2
Philadelphia	124.7	44	e 20	44	PP	e 27	7	[+62]	e 22	5	PKS	e 51.8
Palisades	125.0	42	e 19	4	[+ 2]	i 26	19	[+13]	i 20	50	PP	e 58.5
Fordham	125.2	42	e 19	10	[+ 7]	e 26	8	[+ 1]				
Edinburgh	E. 125.8	344				e 26	15	[+ 7]				
De Bilt	126.1	336	i 19	4	[ 0]	e 22	26	PKS	i 19	18	pPKP	e 59.2
Weston	126.1	40	e 19	6	[+ 2]	38	10	SS	23	46	PPP	e 53.4
Triest	126.2	325	e 19	1	[- 4]	e 25	55	[-14]	e 20	53	PP	e 54.7
Durham	E. 126.3	342				31	7	PS				
Stuttgart	126.6	331	e 19	4 <sub>a</sub>	[- 1]	e 26	8	[- 3]	e 20	58	PP	61.2
Karlsruhe	126.9	331	i 19	10 <sub>k</sub>	[+ 4]	e 28	8	{+ 9}	e 32	38	PPS	e 52.2
Taranto	126.9	318	21	25	PP	e 31	20	PS	e 38	25	SS	47.5
Uccle	127.4	335	e 19	9	[+ 2]	e 26	5	[- 8]	e 21	6	PP	e 59.2
Chur	127.8	329	e 19	2	[- 6]							e 62.6
Zürich	127.9	330	e 19	9 <sub>a</sub>	[+ 1]							
Salo	128.0	327	e 19	14	[+ 6]	e 29	9	{+62}	e 21	13	PP	e 61.8
Basle	128.3	330	e 19	11	[+ 2]	e 30	54	PS	e 21	18	PP	e 42.2
Bologna	128.3	325	e 19	18	[+ 9]	e 23	3	PKS	e 20	36	?	e 66.0
Kew	128.7	339	i 19	17	[+ 7]	e 28	3	[- 8]	e 31	24	PS	e 62.2
Florence	128.8	325	i 19	10 <sub>a</sub>	[ 0]	i 26	8	[- 9]	e 21	9	PP	
Neuchatel	129.0	330	e 19	11	[+ 1]							
Pavia	129.0	327	e 19	11	[+ 1]	e 30	6	?	e 22	38	PKS	e 66.2
Rathfarnham Castle	129.0	344	i 19	5	[- 5]	e 26	8	[- 9]	e 21	2	PP	e 62.2
Antofagasta	129.1	126				e 22	35	PKS	e 38	26	SS	62.9
Messina	129.1	316	e 19	13	[+ 3]	e 26	20	[+ 2]	e 21	19	PP	
Huancayo	129.2	110	i 19	8	[- 2]	e 22	38	PKS	e 31	44	PS	e 52.3
Rome	129.2	322	e 19	9 <sub>a</sub>	[- 1]	i 26	18	[ 0]	e 21	3	PP	e 60.1
Halifax	129.4	33	i 19	15	[+ 4]	25	58	[-20]	20	15	PP	e 55.2
Oropa	129.4	328	e 19	5	[- 6]	e 30	13	?	e 21	20	PP	68.2
Buenos Aires	130.7	146	e 22	40	PKS	e 28	30	{+ 6}				
La Plata	130.8	146	22	38	PKS	26	26	[+ 4]	28	20	SKKS	57.5
Chinchina	131.8	88	i 19	18	[+ 3]	i 26	43	[+19]	i 22	41	PKS	62.2
Galerazamba	132.1	80	e 19	30	[+14]	i 26	52	[+27]	e 23	8	PKS	55.2
Bogota	133.3	88	i 19	19	[+ 1]				i 22	52	PKS	
La Paz	134.2	119	i 19	18	[- 2]	26	38	[+ 9]	i 22	14	PP	63.9
Barcelona	135.4	328	e 20	57	?	(e 39 14)		SS	e 22	55	PKS	e 39.2
Toledo	139.6	332	e 19	27	[- 3]	40	34	SS	e 22	30	PP	58.7
San Juan	139.8	68	i 19	25 <sub>a</sub>	[- 5]	i 27	58	[+79]	i 23	10	PKS	
Almeria	141.1	328	i 19	34	[+ 2]	26	40	[- 1]	22	42	PP	60.2
Granada	141.5	329	i 19	44	[+11]	29	25	[- 5]	i 22	48	PP	i 74.7
Malaga	142.2	330	i 19	31 <sub>k</sub>	[- 3]	i 26	29	[-14]	i 22	41	PP	67.9
Lisbon	142.8	336	19	33	[- 2]				25	56	PPP	
St. Vincent	145.4	74	i 19	40	[ 0]	e 26	24	[-23]				
Trinidad	145.6	79	e 19	36	[- 4]	e 26	44	[- 4]				
Angra do Heroísmo	146.6	0	e 19	44	[+ 2]	e 42	44	SS				74.7
Barbados	147.0	74	e 19	51	[+ 8]	e 26	42	[- 8]				

Oct. 10d. 20h. 35m. 35s. Epicentre 31°·7N. 131°·7E.

Intensity IV at Miyazaki.

Seismo. Bull. Cent. Met. Obs., Japan, for Oct., 1955, Tokyo, 1956, pp. 15, 16, with macro-seismic chart.

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1955

609

Oct. 10d. 23h. 3m. 43s. Epicentre 39°·0N. 141°·3E. Depth of focus 0·010.

Intensity V at Mizusawa and Sendai ; IV at Marioka, Miyako, Isinomaki, and Shirakawa ; II-III at Yamagata, Sakata, Akita, Hukusima, Hatinohe, Inawasiro, Aomori, and Onahama.

Epicentre as adopted. Focal depth 90km.

Seismo. Bull. Cent. Met. Obs., Japan, for October, 1955, Tokyo, 1956, pp. 16-18, with macroseismic chart.

$$A = -\cdot6081, B = +\cdot4872, C = +\cdot6268; \quad \delta = +3; \quad h = -1;$$

$$D = +\cdot625, E = +\cdot780; \quad G = -\cdot489, H = +\cdot392, K = -\cdot779.$$

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	
		°	°	m. s.	s.	m. s.	s.	m.	s.
Mizusawa		0·2	225	i 0 14	0	i 0 24	- 1	—	—
Isinomaki		0·6	177	0 16	- 1	0 27	- 2	—	—
Morioka		0·7	353	i 0 17 <sub>a</sub>	- 1	i 0 30	- 1	—	—
Miyako		0·8	39	i 0 19 <sub>k</sub>	+ 1	i 0 33	+ 1	—	—
Sendai		0·8	202	i 0 17 <sub>a</sub>	- 1	i 0 30	- 2	—	—
Yamagata		1·0	224	i 0 21 <sub>a</sub>	+ 1	i 0 36	0	—	—
Sakata		1·1	265	0 22	0	0 39	+ 1	—	—
Akita		1·2	308	i 0 22 <sub>a</sub>	- 1	i 0 40	0	—	—
Hukusima		1·4	207	0 25 <sub>a</sub>	0	0 44	0	—	—
Hatinohe		1·5	7	i 0 29 <sub>k</sub>	+ 2	i 0 48	+ 1	—	—
Inawasiro		1·7	213	i 0 31 <sub>k</sub>	+ 2	i 0 52	+ 1	—	—
Aomori		1·8	348	i 0 34 <sub>a</sub>	+ 4	i 0 56	+ 3	—	—
Niigata		2·1	239	i 0 34 <sub>k</sub>	0	1 0	0	—	—
Onahama		2·1	189	e 0 34	0	i 0 57	- 3	—	—
Shirakawa		2·1	204	i 0 35	+ 1	i 0 59	- 1	—	—
Aikawa		2·6	248	i 0 40 <sub>k</sub>	- 1	1 8	- 4	—	—
Mito		2·7	194	e 0 43	0	i 1 15	+ 1	i 1 6	?
Utunomiya		2·7	205	e 0 42	- 1	e 1 11	- 3	e 0 57	?
Hakodate		2·8	351	i 0 47	+ 3	e 1 23	+ 6	—	—
Kakioka	E.	2·9	198	0 46	+ 1	e 1 29	+10	—	—
Maebasi		3·1	215	e 0 49	+ 1	1 23	- 1	—	—
Mori	N.	3·1	350	i 0 50	+ 2	i 1 29	+ 5	e 1 15	?
Takada		3·1	232	0 49	+ 1	1 23	- 1	—	—
Kumagaya		3·2	208	e 0 49	- 1	e 1 29	+ 2	—	—
Kashiwa		3·3	199	e 0 46	- 5	e 1 16	-13	—	—
Muroran		3·3	356	i 0 52 <sub>a</sub>	+ 1	e 1 39	+10	i 1 13	?
Urakawa		3·3	19	e 0 52	+ 1	e 1 35	+ 6	—	—
Matusiro		3·4	226	i 0 53 <sub>k</sub>	+ 1	i 1 31	- 1	—	—
Nagano		3·4	227	i 0 51 <sub>k</sub>	- 1	i 1 31	- 1	i 1 13	?
Oiwake		3·4	220	e 0 54	+ 2	e 1 32	0	—	—
Titibu	E.	3·5	211	i 0 52	- 2	e 1 41	+ 7	—	—
Tokyo	N.	3·5	201	e 0 54	0	1 31	- 3	—	—
Tomakomai		3·5	4	e 0 52	- 2	e 1 33	- 1	—	—
Matumoto		3·8	225	i 0 59 <sub>k</sub>	+ 1	e 1 42	0	—	—
Wazima		3·8	246	e 0 56	- 2	e 1 42	0	—	—
Yokohama		3·8	201	e 0 57	- 1	e 1 36	- 6	—	—
Hunatu		4·0	211	e 1 3	+ 3	e 2 8	+22	—	—
Kohu		4·0	214	i 1 3	+ 3	e 1 48	+ 2	—	—
Toyama		4·0	236	1 0	0	1 43	- 3	—	—
Sapporo		4·1	1	e 1 3	+ 1	e 1 53	+ 4	—	—
Mera	E.	4·2	196	e 1 3	0	—	—	—	—
Obihiro	Z.	4·2	20	e 1 2	- 1	—	—	—	—
Ajiro	E.	4·3	205	e 1 26	+21	e 1 52	- 2	—	—
Misima	Z.	4·3	206	e 1 2	- 3	e 2 2	+ 8	—	—
Takayama	E.	4·3	230	e 0 51	-14	—	—	—	—
Osima	N.	4·5	200	e 1 25	+18	e 1 52	- 7	—	—
Kusiro		4·6	30	e 1 9	0	i 1 58	- 3	—	—
Asahigawa		4·8	9	e 1 13	+ 2	—	—	—	—
Hukui		5·0	235	e 1 15	+ 1	—	—	—	—
Gihu		5·1	226	e 1 18	+ 2	—	—	—	—

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1955

610

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.	
		°	°	m.	s.	s.	m.	s.	s.	m.	s.
Nagoya	E.	5.2	223	e 1	20	+ 3	e 2	33	+17	—	—
Ibukisan	N.	5.3	229	e 1	27	+ 9	—	—	—	—	—
Nemuro		5.4	36	e 1	18 <sup>k</sup>	- 2	e 2	15	- 6	—	—
Abashiri		5.5	23	e 1	23	+ 2	e 2	22	- 1	—	—
Hikone		5.5	229	e 1	23	+ 2	—	—	—	—	—
Kameyama		5.7	224	e 1	38	+14	—	—	—	—	—
Kyoto		6.0	230	e 1	29	+ 1	—	—	—	—	—
Nara		6.2	227	1	34	+ 4	—	—	—	e 2	4
Owase		6.4	221	e 1	25	- 8	e 2	39	- 7	—	—
Takamatu		7.5	233	e 1	50	+ 2	e 3	3	- 9	—	—
Shillong	z.	43.4	267	e 7	51	- 3	—	—	—	—	—
Rabaul	z.	44.2	164	i 8	1	0	—	—	—	i 8	27
College		47.5	33	i 8	27	0	—	—	—	i 9	9
Quetta	z.	60.3	286	e 9	58	- 3	—	—	—	e 10	22
Resolute Bay		60.7	15	i 10	1 <sup>k</sup>	- 2	e 26	49	?	i 10	23
Kiruna	z.	64.6	339	i 10	28	- 1	—	—	—	i 10	50
Shasta	z.	70.0	54	e 11	4	+ 1	—	—	—	—	—
Hungry Horse		70.4	43	i 11	7	+ 1	—	—	—	i 11	30
Mineral	z.	70.7	54	i 11	9	+ 2	—	—	—	i 11	40
Upsala	z.	71.2	334	i 11	9	- 1	—	—	—	i 11	31
Berkeley	z.	71.7	56	e 11	12	- 1	—	—	—	—	—
Reno	z.	72.3	53	e 11	18	+ 1	—	—	—	—	—
Lick	z.	72.4	56	i 11	15	- 2	—	—	—	i 11	36
Butte	N.	72.6	44	e 11	20	+ 1	—	—	—	—	—
Bozeman		73.7	44	i 11	26	+ 1	—	—	—	i 11	51
Fresno	z.	73.9	56	e 11	26	0	—	—	—	—	—
Eureka		74.7	52	i 11	55	+24	—	—	—	i 12	17
Tinemaha	z.	74.8	55	i 11	33	+ 2	e 14	40	PP	e 11	57
Woody	z.	75.2	56	i 11	33 <sup>a</sup>	- 1	i 14	42	PP	i 11	57
Isabella	z.	75.5	56	i 11	35 <sup>a</sup>	0	—	—	—	i 12	0
China Lake		75.9	55	i 11	39 <sup>a</sup>	+ 1	—	—	—	i 12	3
Copenhagen		76.1	333	e 11	40	+ 1	—	—	—	—	—
Salt Lake City		76.3	48	i 11	52	+12	—	—	—	—	—
Pasadena		76.6	57	i 11	42	0	—	—	—	i 12	6
Riverside	z.	77.2	57	i 11	45	0	—	—	—	—	—
Boulder City		77.6	54	e 12	19	+32	—	—	—	e 12	50
Palomar	z.	77.9	57	i 11	49	0	—	—	—	e 15	16
Barratt	z.	78.5	57	i 11	54	+ 2	—	—	—	—	—
Collmberg	z.	79.4	330	e 11	56	- 1	—	—	—	e 12	19
Jena	z.	80.2	330	e 12	0	- 1	e 12	52	sP	e 12	24
Boulder		80.6	46	i 12	6	+ 3	—	—	—	—	—
Jerusalem		81.7	304	i 12	7	- 2	—	—	—	i 12	30
Tucson		82.5	54	i 12	15	+ 2	—	—	—	—	—
Stuttgart		82.8	330	e 12	13	- 2	—	—	—	e 12	37
Fayetteville		89.4	42	i 12	48	+ 1	e 13	20	sP	e 13	11
Shawinigan Falls		89.5	23	e 12	48	+ 1	—	—	—	—	—
Ottawa		89.6	25	i 12	48 <sup>k</sup>	0	—	—	—	—	—
Dallas		90.5	46	e 13	8	+16	—	—	—	—	—
Lwiro		108.8	283	e 18	55	pPKP	—	—	—	—	—
La Paz		145.9	57	19	33	[+ 5]	—	—	—	—	—

Oct. 11d. 5h. 2m. Epicentre 22°·0N. 121°·2E. Unfelt.  
Seismo. Bull. of Taiwan Weather Bureau for Oct.-Dec., 1955, Vol. II, No. 4, Taipei, Taiwan, China, p. 9.

Oct. 12d. 23h. 5m. Epicentre 35°·1S. 179°·1E. Depth of focus 285km. Magnitude 5.3.  
Seismo. Report No. E-136, New Zealand Department of Scientific and Industrial Research, Geophysics Division, Wellington, 1961, p. 51.

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1955

611

Oct. 13d. 9h. 26m. 49s. Epicentre 10°·0S. 160°·7E. Focus at Base of Superficial Layers.  
(as on May 26d.).

A = -·9296, B = +·3256, C = -·1725;  $\delta = -7$ ;  $h = +7$ ;  
D = +·331, E = +·944; G = +·163, H = -·057, K = -·985.

		$\Delta$ °	Az. °	P.		O-C.	S.		O-C.	Supp.		L.	
				m.	s.	s.	m.	s.	m.	s.	m.		
Rabaul	Z.	10·2	304	e 2	30	+ 3	—	—	i 3	40	?	—	
Brisbane		18·8	202	i 4	22	+ 3	i 8	0?	+16	—	—	—	
Riverview		25·3	199	i 5	26 <sup>a</sup>	+ 1	i 9	55	+ 9	i 5	36	pP	e 11·6
Apia		27·2	101	5	41	- 2	e 10	26	+ 9	e 5	59	pP	e 12·2
Onerahi	E.	28·5	156	i 5	55	+ 1	e 12	2	SS	—	—	—	e 13·7
Auckland	N.	29·7	157	i 6	7	+ 2	i 11	51	SS	—	—	—	e 13·9
Karapiro	N.	30·8	157	6	15	+ 0	e 7	19	?	e 6	32	pP	e 15·2
Melbourne	E.	31·1	204	i 6	16	- 1	i 11	24	+ 4	e 13	28	SS	e 13·9
New Plymouth	E.	31·3	160	e 6	20	+ 1	e 11	14	- 9	—	—	—	e 15·2
Tuai	N.	32·3	156	e 6	27	- 1	e 11	39	+ 1	—	—	—	e 14·9
Cobb River	E.	32·8	163	e 6	32	0	e 11	45	- 1	—	—	—	—
Wellington		33·6	161	i 6	38 <sup>a</sup>	- 1	i 11	53	- 6	i 6	55	pP	17·2
Kaimata	N.E.	33·8	166	6	40	- 1	—	—	—	—	—	—	—
Christchurch		35·0	165	i 6	40	-11	e 12	24	+ 4	i 8	29	PPP	17·2
Manila		46·3	301	i 8	24	0	e 15	3	- 5	—	—	—	—
Perth		46·8	235	i 8	32	+ 4	i 15	23	+ 8	i 10	37	PPP	i 22·7
Mera		48·8	337	e 8	32	-12	e 15	42	- 2	—	—	—	21·7
Osima		48·9	337	e 8	45	0	e 15	44	- 1	—	—	—	e 23·3
Omaesaki		49·2	335	i 8	49 <sup>k</sup>	+ 2	i 15	51	+ 2	—	—	—	e 24·1
Siomisaki		49·3	332	8	47	- 1	e 15	36	-15	—	—	—	e 24·6
Misima	N.	49·4	336	e 8	32	-16	e 15	52	0	e 8	49	P	e 19·9
Shizuoka		49·4	336	e 8	49	+ 1	e 15	52	0	—	—	—	e 22·0
Yokohama	N.	49·4	337	e 8	55	+ 7	e 15	49	- 3	—	—	—	e 24·6
Tokyo		49·5	338	e 8	50 <sup>a</sup>	+ 1	e 15	53	0	e 10	45	PP	e 23·4
Yakusima		49·6	325	e 8	50	0	—	—	—	—	—	—	—
Hunatu		49·8	336	e 8	51	- 1	—	—	—	—	—	—	—
Kakioka	E.	49·9	338	e 8	42	-10	—	—	—	—	—	—	—
Mito	E.	49·9	339	e 9	9	+17	e 15	59	0	—	—	—	—
Kohu		50·0	336	e 8	53	0	e 15	59	- 1	e 9	43	?	—
Titibu	E.	50·0	337	i 8	54	+ 1	e 15	42	-18	—	—	—	—
Kameyama		50·1	334	e 8	56	+ 2	e 15	47	-15	e 10	55	PP	e 23·7
Kumagaya		50·1	337	8	54	0	e 16	4	+ 2	—	—	—	—
Miyazaki		50·2	327	e 8	56	+ 1	16	5	+ 2	—	—	—	—
Nagoya		50·2	335	e 8	57	+ 2	e 16	6	+ 3	—	—	—	—
Nara		50·3	333	8	54	- 1	—	—	—	9	40	?	—
Utunomiya		50·3	338	e 8	54	- 1	e 16	3	- 1	e 9	44	?	22·9
Kagosima	N.	50·4	326	8	57	+ 1	e 16	8	+ 2	9	13	pP	—
Koti		50·4	330	e 8	57	+ 1	e 16	1	- 5	e 10	59	PP	22·2
Maebasi		50·4	337	e 8	55	- 1	e 16	8	+ 2	e 11	16	?	—
Osaka		50·4	333	e 8	54	- 2	—	—	—	—	—	—	—
Sumoto		50·4	332	e 8	56	0	e 16	6	0	—	—	—	—
Gihu		50·5	335	e 8	53	- 4	—	—	—	—	—	—	—
Hikone		50·6	334	8	58	0	16	9	0	—	—	—	e 23·5
Hsinkong		50·6	311	e 9	0	+ 2	—	—	—	—	—	—	—
Kobe		50·6	333	e 8	53	- 5	e 16	11	+ 2	—	—	—	—
Kyoto		50·6	333	e 8	56	- 2	e 16	26	+17	—	—	—	e 22·3
Oiwake		50·6	337	e 8	55	- 3	—	—	—	—	—	—	—
Shirakawa		50·6	339	e 8	58	0	e 16	12	+ 3	e 12	51	?	—
Matumoto	Z.	50·7	336	e 9	4	+ 6	—	—	—	—	—	—	—
Takamatu		50·8	331	e 9	0	+ 1	i 16	12	+ 1	—	—	—	e 23·3
Matusiro		50·9	337	i 8	58	- 2	16	11	- 2	10	15	PcP	e 21·7
Hwalien		51·0	312	9	4	+ 3	16	15	+ 1	—	—	—	—
Nagano	N.	51·0	337	e 9	1	0	i 16	15	+ 1	e 12	11	PPP	—
Hokusima		51·1	339	e 9	4	+ 3	—	—	—	—	—	—	—
Inawasiro		51·1	339	9	0	- 1	e 16	15	- 1	10	34	PcP	—

Continued on next page.

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**1955**

**612**

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Ooita		51.1	328	i 9 3	+ 2	e 10 40	PP	i 9 18	—
Kumamoto		51.3	327	e 9 1	- 2	—	—	—	—
Sendai		51.4	340	e 9 4	0	e 16 21	+ 1	e 10 46	PP
Toyama		51.4	336	e 9 9	+ 5	e 16 0	-20	—	e 23.4
Unzendake		51.4	327	e 9 4	0	—	—	—	—
Nagasaki	E.	51.6	327	e 9 1	- 4	—	—	—	—
Niigata		51.8	338	e 9 18	+11	e 16 7	-18	—	—
Saga		51.8	327	e 9 1	- 6	i 16 30	+ 5	—	—
Mizusawa		52.1	341	e 9 10	+ 1	e 16 25	- 4	—	—
Hawaii Vol. Obs.		52.3	56	9 9	- 2	—	—	—	—
Miyako		52.4	342	e 9 10	- 1	e 16 31	- 2	—	—
Lembang		52.5	269	e 9 12	0	e 16 38	+ 3	—	—
Bandung		52.6	269	i 9 9	- 4	i 16 33	- 3	e 18 56	ScS
Akita		53.0	340	i 9 15	- 1	i 16 45	+ 3	9 38	pP
Hatinohe		53.3	342	e 9 17	- 1	—	—	—	e 22.5
Djakarta		53.4	270	i 9 18 <sup>a</sup>	- 1	e 16 49	+ 2	e 22 16	SSS
Urakawa		54.4	344	e 9 27	+ 1	e 16 47	-13	—	e 23.7
Kusiro		54.8	345	e 9 27	- 2	e 17 8	+ 2	—	—
Mori	E.	55.0	342	e 9 33	+ 3	17 10	+ 2	e 10 6	?
Obihiro	Z.	55.0	344	e 9 30	0	—	—	—	24.4
Muroran		55.1	342	e 9 32	+ 1	e 17 8	- 2	—	—
Tomakomai		55.1	343	e 9 49	pP	—	—	—	—
Sapporo		55.7	343	i 9 34 <sup>a</sup>	- 1	e 17 17	- 1	e 9 57	pP
Zô-Sô		55.7	319	i 9 34 <sup>a</sup>	- 1	17 16	- 2	—	e 25.2
Abashiri		55.8	346	e 9 36	0	e 17 19	0	—	—
Hong Kong		55.8	306	9 36 <sup>a</sup>	0	e 17 22?	+ 3	—	—
Kurilsk		56.2	349	e 9 36	- 3	—	—	—	—
Wakkanai	N.	57.8	344	e 10 15	pP	—	—	e 13 55	pPPP
Nanking		57.9	318	9 50 <sup>a</sup>	- 1	17 50	+ 3	e 17 36	?
Yuzno-Sakhlinsk		58.9	346	i 9 57	- 1	e 18 3	+ 3	e 12 13	PP
Changchun		62.5	332	10 21	- 1	18 46	0	i 10 41	pP
Sian		65.9	314	e 10 44	0	—	—	—	—
Unalaska		69.4	20	i 11 6	0	—	—	—	—
Magadan		69.8	355	i 11 6	- 3	—	—	e 13 45	PP
Shillong		75.7	300	i 11 35	- 9	21 25	+ 3	14 26	PP
Irkutsk		78.5	328	i 11 59	0	i 21 55	+ 3	e 15 3	PP
Bokaro	N.	80.4	296	e 12 11	+ 1	22 14	+ 2	23 3	PS
Colombo	E.	82.2	278	12 17	- 2	22 27	- 4	—	38.5
Madras	E.	83.1	284	i 12 22	- 2	22 43	+ 3	16 23	?
College		83.9	20	i 12 26 <sup>k</sup>	- 2	i 22 45	- 3	e 15 37	PP
Sitka		84.7	30	e 12 29	- 3	i 22 55	- 1	e 28 26	SS
Kodaikanal	E.	85.2	281	i 12 39	+ 5	23 4	+ 4	15 44	PP
Arcata	E.	85.5	47	e 12 37	+ 1	—	—	—	e 35.6
Ukiah		85.6	49	—	—	e 23 2	- 2	e 30 42	?
Berkeley		86.0	51	i 12 39 <sup>a</sup>	+ 1	i 22 59	[ 0]	e 15 56	PP
Santa Clara		86.1	51	i 12 39 <sup>k</sup>	0	e 23 8	- 1	—	e 39.6
Lick	Z.	86.4	51	i 12 40 <sup>a</sup>	0	e 23 14	+ 2	i 15 59	PP
Shasta		86.7	48	i 12 42 <sup>a</sup>	0	i 23 7	[+ 4]	e 16 3	PP
Corvallis	Z.	87.2	44	i 12 44	0	—	—	—	—
Mineral	Z.	87.2	48	i 12 44 <sup>a</sup>	0	e 23 44	+24	i 13 11	pP
Fresno		87.6	52	i 12 46 <sup>a</sup>	0	e 23 12	[+ 4]	—	—
Woody	Z.	88.1	53	i 12 49 <sup>a</sup>	+ 1	—	—	i 16 14	PP
Victoria		88.2	40	12 47	- 2	23 13	[+ 1]	—	36.4
Pasadena		88.3	55	i 12 49 <sup>a</sup>	0	i 23 31	+ 1	e 16 14	PP
Reno	E.	88.3	50	i 12 51	+ 2	—	—	—	e 40.2
Isabella		88.4	54	i 12 50 <sup>a</sup>	0	i 23 34	+ 3	16 17	PP
Horseshoe Bay		88.6	39	12 49	- 2	—	—	—	—
Dehra Dun		88.7	301	e 12 52	+ 1	i 23 49	+15	i 16 43	PP
Seattle		88.7	41	i 12 52 <sup>a</sup>	+ 1	23 23	[+ 7]	e 23 38	S
Riverside		88.9	55	i 12 53 <sup>a</sup>	+ 1	i 23 38	+ 2	e 23 17	SKS

*Continued on next page.*

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1955

613

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L. m.	
		$^{\circ}$		m.	s.		s.	m.		s.	m.		s.
Tinemaha		88.9	52	i 12	53 <sub>a</sub>	+ 1	i 23	39	+ 3	e 16	20	PP	—
China Lake	z.	89.1	54	i 12	54 <sub>a</sub>	+ 1	i 23	39	+ 2	i 16	24	PP	—
Barratt		89.2	57	i 12	58 <sub>a</sub>	+ 4	—	—	—	i 13	17	pP	—
Palomar	z.	89.2	56	i 12	54 <sub>a</sub>	0	i 16	24	PP	i 13	14	pP	—
Bombay		91.2	289	e 13	4	+ 1	e 23	54	- 2	16	57	PP	—
Eureka		91.2	50	i 13	3 <sub>a</sub>	0	e 23	28	[- 3]	i 31	8	SS	—
Boulder City		91.4	54	e 13	4 <sub>a</sub>	0	i 23	36	[+ 4]	i 16	39	PP	—
Semipalatinsk		91.6	321	i 13	3	- 2	i 23	29	[- 4]	e 16	39	PP	—
Banff		93.8	39	i 13	14	- 1	—	—	—	—	—	—	—
Frunse		93.9	313	i 13	15	0	e 24	22	+ 2	i 17	9	PP	—
Tucson		94.0	58	i 13	16 <sub>a</sub>	0	i 24	30	+ 9	e 16	55	PP	e 38.2
Hungry Horse		94.3	42	i 13	16 <sub>a</sub>	- 1	i 24	23	0	e 17	44	PP	—
Salt Lake City		94.5	50	i 13	19 <sub>k</sub>	+ 1	e 23	56	[+ 7]	e 17	48	PP	e 41.9
Butte	N.	94.8	44	i 13	20 <sub>a</sub>	0	e 23	50	[- 1]	i 17	7	PP	e 37.3
Bozeman		95.8	45	i 13	25 <sub>k</sub>	+ 1	i 24	0	[+ 4]	e 17	14	PP	e 44.6
Stalinabad		97.6	308	i 13	35	+ 3	e 24	8	[+ 2]	—	—	—	—
Tashkent		97.6	311	e 13	30	- 2	e 24	51	0	e 17	33	PP	—
Quetta		98.2	299	e 13	34	- 1	i 25	1	+ 5	e 17	33	PP	—
Boulder		99.4	51	i 13	41	+ 1	—	—	—	—	—	—	—
Saskatoon		99.4	39	—	—	—	e 24	11	[- 4]	—	—	—	47.2
Rapid City	E.	101.2	47	e 13	49	+ 1	i 24	25	[+ 1]	e 18	19	PP	e 45.9
Tacubaya		102.7	72	e 18	8	PP	e 24	47	[+16]	e 20	29	PPP	—
Resolute Bay		103.4	15	i 13	57 <sub>k</sub>	- 1	e 22	26	PKS	e 18	20	PP	e 60.0
Sverdlovsk		103.8	326	13	57	- 3	24	36	[ 0]	18	3	PP	—
Dallas		105.8	59	e 14	28	P	—	—	—	—	—	—	—
Fayetteville		108.0	55	i 14	18	P	e 29	38	PPS	e 18	34	PP	—
Little Rock	E.	109.5	57	e 18	56	PP	—	—	—	—	—	—	—
Florissant		110.9	52	e 18	37	[+ 7]	—	—	—	e 19	16	PP	—
St. Louis		111.0	52	e 14	35	P	e 25	6	[- 1]	i 18	29	PKP	54.4
Mobile		113.2	61	i 19	25	PP	—	—	—	i 29	16	PKKP	—
Goris		115.1	309	e 14	48	P	25	19	[- 4]	18	36	PKP	—
Kiruna		116.5	344	i 18	39	[- 2]	e 29	31	PS	e 19	48	PP	e 56.2
Moscow		116.5	328	e 15	1	P	29	33	PS	18	39	PKP	—
Kirkland Lake	z.	116.8	41	e 18	39	[- 2]	—	—	—	—	—	—	—
Cleveland		117.3	48	i 18	42 <sub>k</sub>	[ 0]	e 25	30	[- 1]	e 19	50	PP	—
Pulkovo		118.1	334	18	43	[- 1]	e 25	35	[+ 1]	e 20	1	PP	—
Morgantown		118.8	50	i 18	45	[ 0]	—	—	—	i 19	45	PP	—
Columbia		118.9	57	i 18	46 <sub>a</sub>	[+ 1]	i 25	39	[+ 2]	i 20	5	PP	—
Buffalo (Larkin)		119.1	47	i 20	1	PP	—	—	—	—	—	—	—
Scoresby Sund		119.5	1	i 18	46	[ 0]	e 30	16	PS	e 20	5	PP	57.2
Chapel Hill		120.2	54	e 18	47	[- 1]	—	—	—	e 20	30	PP	—
Huancayo		120.2	110	e 18	50	[+ 2]	e 30	25	PS	e 20	17	PP	e 56.3
Ottawa		120.4	43	i 18	47 <sub>a</sub>	[- 1]	25	34	[- 8]	20	8	PP	—
Washington	z.	121.2	50	i 18	47 <sub>a</sub>	[- 3]	e 30	19	PS	i 20	16	PP	e 57.4
Pretoria	z.	121.7	231	—	—	—	e 28	55	?	—	—	—	—
Shawinigan Falls		122.0	41	i 18	50	[- 1]	i 20	20	PP	e 22	48	PPP	—
Philadelphia		122.4	49	e 21	12	PPP	e 26	58	[+69]	e 28	24	S	e 50.7
Kimberley	z.	122.6	226	i 18	53 <sub>k</sub>	[+ 1]	—	—	—	—	—	—	—
Simferopol		122.6	317	e 18	51	[- 1]	30	25	PS	20	27	PP	—
Palisades		123.0	47	e 15	27 <sub>a</sub>	P	e 25	50	[- 1]	i 18	53	PKP	e 57.8
Seven Falls		123.0	40	i 18	48 <sub>a</sub>	[- 5]	25	34	[-17]	20	24	PP	53.1
Upsala		123.1	339	i 18	52	[- 1]	e 30	28	PS	e 31	51	PPS	e 57.2
Chinchina		124.0	91	i 18	56	[+ 1]	i 31	3	PS	i 20	57	PP	57.2
Ksara		124.3	304	18	54	[- 2]	30	48	PS	20	46	PP	—
Weston		124.4	45	i 18	55 <sub>k</sub>	[- 1]	30	33	SKSP	i 20	39	PP	e 59.2
La Paz		125.0	118	i 18	59 <sub>a</sub>	[+ 2]	i 27	45	SKKS	i 20	48	PP	59.9
Jerusalem		125.2	302	i 18	57	[ 0]	—	—	—	i 20	15	PP	—
Bogota		125.5	91	e 18	58	[ 0]	i 22	15	PKS	i 20	52	PP	58.2
Iasi		125.8	322	e 18	56	[- 3]	e 21	0	PP	e 19	15	pPKP	—
Reykjavik		125.9	1	i 18	59	[ 0]	—	—	—	—	—	—	—

Continued on next page.

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

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1955

614

	$\Delta$ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.	
			m.	s.		m.	s.		m.	s.		
Lwow	126.5	326	i 19	0	[ - 0]	e 27	51	SKKS	i 20	47	PP	—
Warsaw	126.7	330	e 19	1	[ + 1]	e 22	32	PKS	i 20	57	PP	e 59.2
Istanbul	127.4	315	e 19	2	[ - 0]	e 26	43	[ + 39]	e 21	3	PP	—
Bucharest	128.0	320	e 19	15	[ + 12]	i 26	1	[ - 4]	i 22	25	PKS	64.2
Copenhagen	128.0	338	e 19	4	[ + 1]	28	0	SKKS	21	15	PP	—
Halifax	128.6	40	i 19	3 <sub>a</sub>	[ - 1]	—	—	—	i 21	6	PP	e 61.2
Krakow	128.6	329	e 20	56	?	i 22	37	PKS	e 21	11	PP	—
Skalnate Pleso	128.9	328	e 19	0	[ - 5]	i 22	25	PKS	i 21	13	PP	—
Raciborz	129.4	330	e 19	2	[ - 3]	e 22	50	PKS	e 21	38	PP	—
Budapest	130.6	326	e 19	20	[ + 12]	28	17	SKKS	22	30	PP	e 72.2
Hamburg	130.6	337	i 19	9	[ + 1]	i 22	29	PKS	i 19	36	pPKP	e 61.2
Lwiro	130.6	258	i 19	9 <sub>a</sub>	[ + 1]	—	—	—	e 19	38	pPKP	—
Sofia	130.6	319	e 19	7	[ - 1]	e 22	31	PKS	—	—	—	e 75.6
Szeged	n. 130.7	324	—	—	—	22	33	PKS	—	—	—	—
Hurbanovo	130.7	327	i 22	29	PKS	e 26	3	[ - 9]	38	53	SS	e 67.2
Collnberg	131.0	334	e 19	9	[ - 0]	e 28	7	SKKS	i 22	32	PKS	e 63.7
Aberdeen	131.1	348	—	—	—	e 22	32	PKS	i 33	56	PPS	e 63.5
Belgrade	131.3	323	i 19	7 <sub>a</sub>	[ - 2]	e 26	9	[ - 5]	i 21	35	PP	e 89.2
Prague	131.3	332	e 19	6	[ - 3]	e 27	57	SKKS	i 21	30	PP	—
Vienna	131.5	329	e 19	10	[ + 1]	i 22	34	PKS	e 21	27	PP	—
Jena	131.9	334	e 19	10	[ - 0]	i 22	34	PKS	e 21	31	PP	—
Cheb	132.2	333	i 22	39	PKS	e 26	23	[ + 7]	e 33	20	PPS	—
Athens	132.4	313	e 19	4 <sub>a</sub>	[ - 7]	e 22	37	PKS	i 21	36	PP	—
Witteveen	z. 132.4	339	i 19	12	[ + 1]	—	—	—	—	—	—	—
De Bilt	133.5	339	i 19	13 <sub>a</sub>	[ - 0]	i 21	41	PP	e 24	34	PPP	e 59.2
San Juan	134.0	74	i 19	13 <sub>a</sub>	[ - 1]	i 21	41	PP	e 19	29	pPKP	—
Stuttgart	134.6	334	e 19	5	[ - 10]	e 28	39	SKKS	e 21	37	PP	e 66.2
Triest	134.6	334	e 19	20	[ + 5]	e 28	36	SKKS	e 21	49	PP	63.2
Karlsruhe	134.7	334	e 19	16 <sub>a</sub>	[ + 1]	e 22	45	PKS	i 21	51	PP	—
Uccle	134.9	339	e 19	16	[ - 0]	e 22	46	PKS	e 21	52	PP	e 55.2
Rathfarnham Castle	135.5	349	i 19	16 <sub>a</sub>	[ - 1]	i 22	46	PKS	i 21	54	PP	e 57.2
Taranto	135.6	320	(21 41)	—	PP	—	—	—	—	—	—	21.7
Chur	135.8	332	e 19	16	[ - 1]	e 22	48	PKS	—	—	—	—
Kew	135.8	343	e 19	16	[ - 1]	e 28	36	SKKS	i 22	55	PKS	e 57.2
Zürich	135.9	333	e 19	13	[ - 5]	—	—	—	e 21	56	PP	—
Basle	136.2	334	e 19	30	[ + 12]	e 26	49	[ + 25]	i 21	56	PP	—
Bologna	136.6	328	e 19	32	[ + 13]	e 22	28	PKS	—	—	—	—
Neuchatel	136.9	334	e 19	12	[ - 7]	e 22	52	PKS	—	—	—	—
Florence	137.2	327	i 19	18	[ - 2]	e 29	51	S	i 22	37	PKS	e 64.2
Pavia	137.2	330	e 19	20	[ - 0]	e 22	52	PKS	e 31	50	PSKS	e 65.4
Oropa	137.5	332	e 19	23	[ + 2]	e 32	11	PS	—	—	—	—
Rome	137.7	324	i 19	21 <sub>a</sub>	[ - 0]	e 29	34	S	e 21	54	PP	—
Messina	138.0	318	i 19	20 <sub>a</sub>	[ - 1]	22	58	PKS	e 22	7	PP	66.0
Trinidad	138.5	85	e 19	13	[ - 9]	—	—	—	—	—	—	—
Antigua	138.8	76	e 19	13	[ - 10]	—	—	—	e 22	5	PP	—
St. Vincent	138.8	81	e 19	23	[ - 0]	—	—	—	e 22	12	PP	—
Barbados	140.4	82	e 19	29	[ + 3]	—	—	—	—	—	—	—
Toledo	147.3	338	i 19	39 <sub>a</sub>	[ + 1]	26	36	[ - 5]	i 23	9	PP	75.7
Almeria	149.2	333	19	40	[ - 1]	26	52	[ + 8]	23	20	PP	81.8
Granada	149.4	335	19	42 <sub>a</sub>	[ + 1]	26	36	[ - 8]	23	16	PP	84.4
Lisbon	150.0	344	e 19	43 <sub>k</sub>	[ + 1]	—	—	—	i 19	48	PKP <sub>2</sub>	—
Malaga	150.2	336	i 19	40 <sub>a</sub>	[ - 2]	i 23	24	PP	i 27	0	PPP	71.3
Angra do Heroismo	150.6	13	e 19	55	[ + 12]	—	—	—	—	—	—	—

Oct. 13d. 11h. 30m. 11s. Epicentre 35°·5N. 134°·0E. Depth 10-20km.  
Intensity V at Tottori; IV at Yonago and Sakai; II-III at Himeji, Saigo, Takamatu, Kobe, Sumoto, Tokushima, Toyooka, Okayama, and Matsue.  
Seismo. Bull. Cent. Met. Obs., Japan, for Oct., 1955, Tokyo, 1956, pp. 18-20, with macroseismic chart p. 18.

Oct. 13d. 16h. 20m. Epicentre 36°·0S. 177°·5E.  
Depth of focus 200km. Magnitude 6?  
N.Z. Seismo. Report for 1955, Bulletin No. E-136. Department of Scientific and Industrial Research, Wellington, 1961, p. 53.

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1955

615

Oct. 13d. 17h. 50m. 18s. Epicentre 23°·8N. 121°·6E.

Intensity VI at Hwalien ; V at Alishan and Hsinkong ; II-III at Taichung, Ilan, and Taipei  
Epicentre 23°·8N. 121°·8E.

Seismo. Bull. of the Taiwan Weather Bureau for Oct.-Dec., 1955, Vol. 2, No. 4, Taiwan, China, p. 10.

$$A = -\cdot4799, B = +\cdot7801, C = +\cdot4013; \quad \delta = -10; \quad h = +4;$$

$$D = +\cdot852, E = +\cdot524; \quad G = -\cdot210, H = +\cdot342, K = -\cdot916.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Hwalien	0·2	13	i 0 9	- 1	0 14	- 2	—	—
Yushan	0·6	244	i 0 27	+12	0 33	+ 7	—	—
Alishan	0·7	252	i 0 30	+13	0 38	+10	—	—
Hsinkong	0·7	195	i 0 16	- 1	0 26	- 2	—	—
Taichung	0·9	296	i 0 22	+ 2	0 35	+ 1	—	—
Ilan	1·0	9	0 26	+ 5	0 38	+ 2	—	—
Taipei	1·3	358	0 26	+ 1	0 42	- 2	—	—
Tainan	1·4	239	i 0 29	+ 1 <sub>g</sub>	0 56	+10	—	—
Tawu	1·5	204	0 33	+ 3 <sub>g</sub>	0 54	+ 5	—	—
Kaohsiung	1·6	227	0 34	+ 2 <sub>g</sub>	0 52	+ 1	—	—
Hengchun	1·9	204	e 0 11	-23	0 36	-23	—	—
Hong Kong	7·0	260	1 44 <sub>a</sub>	- 2	3 0	- 8	—	—
Zò-Sè	7·3	357	e 1 51	+ 1	3 22	+ 7	—	—
Baguio	7·4	187	i 1 51 <sub>k</sub>	- 1	i 2 53	-25	—	—
Nanking	8·6	344	e 2 5	- 4	e 3 48	0	—	—
Manila	9·1	184	e 2 17	+ 3	i 3 51	- 9	—	—
Tungkwan	14·6	320	e 3 42	PP	—	—	—	—
Linfen	15·1	327	e 3 53	PP	—	—	—	—
Sian	15·2	316	e 3 47	+ 9	e 6 51	+23	7 8	SSS
Taiyuan	16·0	333	e 3 54	+ 6	—	—	—	—
Kwanting	17·2	344	e 4 5	+ 2	—	—	—	—
Tatung	17·7	339	e 4 14	+ 4	—	—	—	—
Matusiro	19·2	45	e 4 23	- 5	e 7 47	-12	e 4 32	PP
Lanchow Univ.	19·6	313	e 4 37	+ 5	—	—	—	—
Yinchuan	19·6	322	e 4 35	+ 3	—	—	—	—
Changchun	20·3	8	e 4 36	- 4	—	—	—	—
Sining	21·3	312	e 4 52	+ 2	—	—	—	—
Wuwei	21·5	316	e 4 52	0	—	—	—	—
Changyeh	23·4	315	e 5 13	+ 2	—	—	—	—
Shillong	27·0	280	e 5 40	- 5	e 10 28	+ 6	—	—
Lembang	z. 33·3	206	e 6 40	- 1	—	—	—	—
Rabaul	z. 40·8	129	i 7 51	+ 6	—	—	—	—
Poona	z. 44·6	273	e 9 14	+58	—	—	—	—
Quetta	48·7	290	i 8 46	- 2	e 15 47	- 3	i 10 43	PP
Brisbane	59·3	147	i 10 4	- 2	—	—	—	i 28·5
College	69·0	27	i 11 5	- 4	—	—	—	—
Kiruna	72·3	337	i 11 25	- 4	—	—	i 11 58	PcP
Upsala	76·4	330	i 11 48	- 5	—	—	—	e 38·7
Collmberg	z. 82·6	323	e 12 22	- 4	—	—	—	e 37·7
Jena	z. 83·6	323	e 12 27	- 4	—	—	—	—
Stuttgart	86·0	322	e 12 39	- 4	—	—	—	—
Kew	89·4	328	e 11 42?	-78	—	—	—	e 44·7
Shasta	z. 92·6	43	i 13 21	+ 6	—	—	—	—
Hungry Horse	92·7	33	i 13 13	- 2	—	—	—	—
Mineral	z. 93·3	43	e 13 26	+ 8	—	—	—	—
Reno	z. 94·9	43	e 13 33	+ 8	—	—	—	—
Lick	z. 95·0	46	e 13 31	+ 5	—	—	—	—
Bozeman	96·0	34	e 13 31	+ 1	—	—	—	—
Eureka	97·3	41	e 13 31	- 5	—	—	e 17 33	PP
Tinemaha	z. 97·4	44	e 13 42	+ 5	—	—	—	—
Woody	z. 97·8	46	e 13 34	- 4	—	—	i 13 43	P
Isabella	z. 98·1	46	e 13 37	- 3	—	—	e 13 44	P
China Lake	z. 98·5	45	13 40	- 2	—	—	i 13 48	P
Pasadena	z. 99·2	46	e 13 50	+ 5	—	—	—	—
Huancayo	160·2	57	e 20 43	PKP <sub>2</sub>	—	—	—	—

Oct. 13d. 18h. 18m. 19s. Epicentre 41°·1N. 44°·0E.

Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 17.

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1955

616

Oct. 13d. 21h. 51m. 0s. Epicentre 12°·0N. 86°·7W.

A = +·0563, B = -·9768, C = +·2066;  $\delta = -1$ ;  $h = +6$ ;  
D = -·998, E = -·057; G = +·012, H = -·206, K = -·978.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Balboa Heights	7·7	112	e 1 52	- 4	—	—	—	—
Merida	9·3	343	2 16	- 1	e 4 7	+ 2	—	e 4·4
Oaxaca	10·9	298	—	—	e 5 15	SS	—	e 5·6
Vera Cruz	11·6	310	e 2 49	- 1	e 5 6	+ 5	—	—
Chinchina	13·0	122	i 3 10	+ 1	i 6 3	+28	—	7·0
Tacubaya	14·1	303	i 3 25	+ 2	i 6 6	+ 4	—	e 7·0
Bogota	14·5	119	i 3 38	+10	i 6 13	+ 2	i 5 32	7·0
San Juan	20·9	70	i 4 48	+ 2	—	—	i 5 7	PP
Columbia	22·5	12	i 5 7	+ 5	e 9 18	+13	i 9 34	SS
Dallas	22·7	338	i 5 7	+ 3	—	—	—	e 12·2
Chapel Hill	24·8	15	i 5 27	+ 2	—	—	—	—
Trinidad	24·8	90	e 5 21?	- 4	—	—	—	—
Fayetteville	24·9	346	i 5 24	- 2	—	—	e 5 35	?
St. Vincent	24·9	84	e 5 25	- 1	—	—	—	—
Lubbock	25·6	330	5 33	+ 1	—	—	—	—
Huancayo	26·4	154	i 5 40	0	e 10 18	+ 6	—	—
Washington	z. 28·1	16	i 5 55	0	—	—	e 7 20	?
Morgantown	28·2	11	i 5 56	0	—	—	—	e 15·6
Cleveland	29·7	8	i 6 11k	+ 1	e 11 28	+22	—	—
Philadelphia	29·7	18	e 6 57	PP	e 12 33	SS	—	e 15·4
Tucson	30·0	316	e 6 13	+ 1	—	—	e 6 33	?
Palisades	31·0	19	i 6 22a	+ 1	e 11 56	+30	e 7 46	PPP
Buffalo (Larkin)	31·6	11	e 6 24	- 2	—	—	—	e 15·3
Boulder	32·4	333	e 6 31	- 3	—	—	—	—
Weston	33·1	21	e 6 40	0	e 12 22	+23	—	e 15·6
La Paz	33·8	147	e 6 43	- 3	12 20	+10	e 8 20	PPP
Barratt	z. 34·3	312	e 6 56	+ 6	—	—	i 9 29	PcP
Ottawa	34·6	14	i 6 51k	- 2	12 32	+10	8 29	PPP
Boulder City	34·8	318	e 6 55	+ 1	—	—	e 7 10	?
Palomar	z. 34·8	313	e 6 53	- 1	—	—	i 9 26	PcP
Riverside	35·5	313	e 7 0	0	—	—	i 9 27	PcP
Pasadena	36·1	313	i 7 6	+ 1	(e 13 12)	PcS	i 9 29	PcP
Salt Lake City	36·2	327	i 7 6	0	—	—	—	e 13·2
Shawinigan Falls	36·4	16	e 7 9	+ 1	e 8 35	PP	e 8 49	PPP
Kirkland Lake	z. 36·5	8	e 7 8a	- 1	—	—	—	—
China Lake	36·6	316	i 7 8	- 2	—	—	—	—
Isabella	z. 37·1	315	e 7 13	- 1	—	—	i 9 33	PcP
Woody	z. 37·4	315	e 7 14	- 2	—	—	i 9 31	PcP
Seven Falls	37·5	18	e 7 13k	- 4	—	—	—	—
Eureka	37·7	322	i 7 18	- 1	—	—	i 9 34	PcP
Tinemaha	37·7	317	e 6 52	-27	—	—	i 9 34	PcP
Halifax	38·1	27	e 7 37	+15	—	—	—	—
Fresno	z. 38·6	315	e 7 25	- 1	—	—	—	—
Bozeman	39·4	333	i 7 32	- 1	—	—	e 7 53	?
Reno	z. 40·1	319	e 7 40	+ 1	—	—	—	—
Lick	z. 40·2	315	e 7 41	+ 1	—	—	i 9 44	PcP
Butte	N. 40·4	332	i 7 40	- 1	—	—	—	e 24·3
Berkeley	z. 40·9	315	e 7 55	+ 9	—	—	e 9 43	PcP
Mineral	z. 41·7	319	e 7 51	- 1	—	—	—	—
Shasta	z. 42·4	319	e 7 56	- 2	i 9 59	PPP	i 9 49	PcP
Hungry Horse	42·8	333	e 7 59	- 2	i 10 0	PPP	i 9 50	PcP
Victoria	47·5	327	8 32	- 6	—	—	—	—
Resolute Bay	62·8	358	—	—	e 23 34	SS	—	e 34·4
College	67·1	336	i 10 53	- 4	—	—	—	—
Kew	78·5	40	—	—	e 27 0?	SS	—	e 38·0
Triest	88·7	44	e 12 38	-19	e 23 50	+ 7	e 16 20	PP
Rome	88·8	48	e 30 16	PKKP	—	—	—	e 45·6
Messina	E. 92·1	50	e 36 1	?	—	—	—	e 45·2
Matusiro	115·8	321	e 27 55	?	—	—	—	e 60·6
Quetta	z. 131·0	31	e 19 13	[- 1]	—	—	—	—

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1955

617

Oct. 14d. 0h. 55m. 56s. Epicentre 16°·4S. 172°·8W.

A = -·9523, B = -·1203, C = -·2806;  $\delta = +8$ ;  $h = +5$ ;  
D = -·125, E = +·992; G = +·278, H = +·035, K = -·960.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Apia		2·8	20	e 0 42	- 5	(e 1 22)	0	1 12	S	e 1·4
Onerahi	E.	22·4	208	e 4 52	-10	—	—	—	—	—
Karapiro	N.	23·8	204	e 5 14	- 1	—	—	—	—	—
Tuai	N.	24·0	200	4 53	-24	—	—	—	—	—
Wellington		27·0	201	e 5 29	-16	—	—	e 5 34	?	e 13·1
Cobb River	E.	27·6	204	e 5 50	- 1	—	—	—	—	—
Christchurch		29·7	202	e 9 46	?	—	—	14 4	Q	15·6
Brisbane		33·5	245	i 6 44	+ 1	i 12 14	+ 9	—	—	—
Riverview		36·7	235	e 7 15	+ 5	e 12 48	- 6	—	—	e 16·0
Matusiro		70·1	320	e 11 11	- 5	e 20 30	+ 3	e 15 23	PPP	e 28·7
Berkeley	Z.	71·9	40	e 11 29	+ 2	—	—	—	—	—
Lick	Z.	71·9	41	e 11 27	0	—	—	—	—	—
Pasadena	Z.	72·3	45	e 11 28	- 1	—	—	—	—	e 36·1
Barratt	Z.	72·5	47	e 11 35	+ 5	—	—	—	—	—
Fresno	Z.	72·7	42	e 11 32	0	—	—	—	—	—
Woody	Z.	72·7	44	i 11 30	- 2	—	—	i 12 2	PcP	—
Palomar	Z.	72·8	46	i 11 32	0	—	—	i 11 52	PcP	—
Riverside	Z.	72·8	46	e 11 31	- 1	—	—	—	—	—
Isabella	Z.	72·9	44	i 11 33	0	—	—	i 11 52	PcP	—
China Lake	Z.	73·6	44	i 11 38	+ 1	—	—	i 11 47	PcP	—
Shasta	Z.	73·6	38	e 11 36	- 1	—	—	—	—	—
Mineral	Z.	73·8	38	e 11 39	+ 1	—	—	—	—	—
Tinemaha	Z.	73·9	43	e 11 39	0	—	—	e 12 11	?	—
Reno	Z.	74·4	40	e 11 44	+ 2	—	—	—	—	—
Boulder City		75·6	45	e 11 32	-16	e 11 50	P	e 12 21	?	—
Tucson		76·5	50	e 11 54	0	—	—	—	—	e 38·3
Eureka		76·8	42	i 11 54	- 1	—	—	—	—	—
Lembang	Z.	78·2	266	e 12 1	- 2	—	—	—	—	—
Zô-Sè		79·1	307	12 8	0	22 17	+10	—	—	—
Salt Lake City		80·1	42	e 12 13	0	—	—	—	—	—
Hong Kong		81·2	296	—	—	e 21 22	-67	—	—	—
Nanking		81·3	307	e 12 21	+ 1	e 22 42	+12	—	—	—
Butte	N.	82·5	38	e 12 26	0	—	—	—	—	e 38·0
Hungry Horse		82·9	35	e 12 27	- 1	—	—	i 12 37	PcP	—
Bozeman		83·2	38	e 12 29	0	—	—	e 12 41	PcP	e 44·5
College		83·2	10	e 12 28	- 1	—	—	—	—	—
Boulder		84·1	46	e 12 34	0	—	—	—	—	—
Fayetteville		90·6	53	e 13 6	+ 1	—	—	—	—	—
La Paz		98·8	110	13 42	- 1	—	—	—	—	50·9
Resolute Bay		102·6	15	e 13 17	-43	—	—	—	—	45·2
Collmberg	Z.	144·9	354	e 19 42	[+ 3]	—	—	—	—	—
Raciborz	Z.	145·3	348	e 19 34	[- 6]	—	—	—	—	—
Jena	Z.	145·4	355	e 19 40	[0]	—	—	—	—	—
Uccle		145·6	3	i 19 42	[+ 2]	—	—	—	—	—
Karlsruhe	Z.	147·5	359	19 52	[+ 9]	—	—	—	—	—
Stuttgart		147·7	358	e 19 48	[+ 4]	e 20 12	?	e 20 28	?	—
Ksara		149·0	309	e 19 19	[- 27]	e 33 35	SKSP	i 19 59	PKP <sub>2</sub>	—
Jerusalem		150·3	306	i 19 56	[+ 8]	—	—	i 20 17	?	—
Lwiro		151·8	231	e 20 0 <sub>a</sub>	PKP <sub>2</sub>	—	—	e 21 0	?	—
Granada		157·2	23	24 16 <sub>k</sub>	PP	44 18	SS	—	—	—
Malaga		157·3	25	e 18 58	[- 60]	—	—	e 23 50	PP	89·0
Almeria		157·9	21	24 18	PP	44 13	SS	—	—	92·2

Oct. 14d. 1h. 27m. 18s. Epicentre 41°·3N. 44°·0E.

Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, pp. 17-18.

Oct. 14d. 2h. 38m. 19s. Epicentre 41°·3N. 44°·0E.

Loc. cit., 1h., p. 18.

Oct. 14d. 6h. 1m. 34s. Epicentre 36°·4N. 70°·3E. Depth 140km.

Loc. cit., 2h. 38m., pp. 49-50.

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1955

618

Oct. 14d. 8h. 43m. 0s. Epicentre 3°·5S. 104°·1W.

A = -·2432, B = -·9681, C = -·0606 ;  $\delta = +4$  ;  $h = +7$  ;  
D = -·970, E = +·244 ; G = +·015, H = +·059, K = -·998.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Oaxaca	21·6	19	5 0	+ 6	e 8 52	+ 3	e 5 24	PP	—
Puebla	23·1	14	—	—	e 12 52	PcS	—	—	e 13·0
Tacubaya	23·2	12	e 5 12 <sup>k</sup>	+ 3	e 9 17	- 1	e 9 48	SS	e 11·1
Vera Cruz	23·9	19	e 5 20	+ 4	e 9 34	+ 4	e 10 28	SS	—
Guadalajara	24·0	2	—	—	e 9 52	+20	—	—	e 12·2
Merida	28·1	30	e 6 51	PPP	—	—	—	—	e 13·2
Chinchina	29·7	74	i 6 9	- 1	i 11 6	0	i 7 14	PPP	14·0
Huancayo	29·7	108	e 6 7	- 3	e 11 16	+10	—	—	—
Bogota	31·1	75	i 6 23	+ 1	i 11 24	- 4	i 12 58	PcS	14·0
Galerazamba	32·0	63	e 8 46	?	i 11 34	- 8	i 13 2	PcS	15·0
Tucson	36·1	350	e 7 5	0	e 12 48	+ 3	e 15 26	SSS	e 17·8
Dallas	36·8	10	i 7 12	+ 1	i 13 3	+ 7	—	—	—
La Paz	37·6	113	i 7 16 <sup>a</sup>	- 2	i 13 8	0	i 8 44	PP	i 18·4
Barratt	37·9	343	e 7 25	+ 5	e 13 21	+ 8	—	—	—
Antofagasta	N. 38·2	125	e 8 48	PP	(16 0?)	SS	—	—	16·0
Palomar	Z. 38·6	343	e 7 25	- 1	—	—	—	—	—
Riverside	39·3	342	e 7 31	- 1	i 13 45	+11	—	—	—
Little Rock	E. 39·6	15	e 7 39	+ 4	—	—	—	—	—
Pasadena	39·7	342	e 7 35	- 1	i 13 51	+11	i 9 57	PcP	i 19·0
Fayetteville	40·4	12	i 7 40	- 1	—	—	—	—	—
Boulder City	40·5	347	e 7 44	+ 2	e 13 43	- 9	i 7 52	?	—
China Lake	41·1	343	i 7 48	+ 1	—	—	i 9 53	PcP	—
Isabella	Z. 41·2	342	e 7 46	- 2	—	—	i 9 55	PcP	—
Woody	Z. 41·3	342	e 7 45	- 4	i 7 49	P	i 9 48	PcP	—
Tinemaha	42·4	343	i 7 59	+ 1	i 14 35	+15	e 10 10	PPP	—
Fresno	Z. 42·6	341	e 8 1	+ 2	—	—	—	—	—
Santa Lucia	N. 43·1	138	e 8 10	+ 6	e 14 30	0	e 12 26	?	e 20·0
Columbia	43·2	28	e 8 2	- 2	i 14 32	0	e 9 41	PP	e 18·7
Boulder	43·3	359	i 8 4	- 1	—	—	—	—	—
San Juan	43·3	58	i 8 1	- 4	—	—	—	—	—
Lick	Z. 43·8	340	e 8 8	- 1	—	—	—	—	—
St. Louis	43·8	16	i 8 7	- 2	i 14 42	+ 2	i 18 8	ScS	—
Florissant	43·9	16	e 8 14	+ 4	14 46	+ 4	i 18 12	ScS	—
Eureka	44·1	347	i 8 10	- 2	—	—	i 9 54	PP	—
Berkeley	44·4	339	i 8 16	+ 2	e 14 57	+ 8	e 18 30	SSS	e 21·3
Salt Lake City	44·6	352	e 8 16	0	e 14 54	+ 2	e 9 52	PP	e 18·3
Reno	Z. 45·2	343	e 8 19	- 1	—	—	—	—	—
Chapel Hill	45·7	29	e 8 24	0	—	—	—	—	—
Mineral	Z. 46·5	342	e 8 30	- 1	—	—	—	—	—
Shasta	Z. 47·0	341	e 8 32	- 3	—	—	—	—	—
Morgantown	48·3	25	i 8 42	- 3	—	—	—	—	—
Pittsburgh	49·0	24	—	—	15 56	+ 1	—	—	—
Washington	Z. 49·0	28	i 8 52	+ 2	—	—	—	—	e 25·5
Bozeman	49·3	354	i 8 53	0	—	—	—	—	e 27·1
Butte	N. 49·8	352	e 8 57	+ 1	e 16 11	+ 5	e 19 41	SS	e 21·5
Pennsylvania	50·2	26	—	—	e 16 20	+ 9	—	—	—
Philadelphia	50·7	29	e 12 52	?	e 17 25	?	—	—	e 20·7
Buffalo (Larkin)	51·6	24	e 9 8	- 2	—	—	—	—	—
Fordham	N. 52·0	29	—	—	e 16 35	- 1	e 20 30	SS	—
Palisades	52·2	29	i 9 16 <sup>a</sup>	+ 1	e 16 38	- 1	i 20 29	SS	e 25·2
Hungry Horse	52·3	352	e 9 14	- 1	—	—	i 9 21	?	—
Seattle	53·4	345	9 24 <sup>k</sup>	0	e 17 30	+35	—	—	e 28·1
Victoria	54·4	344	e 9 28	- 3	e 17 18	+ 9	—	—	—
Weston	54·4	30	i 9 18	-13	i 17 12	+ 3	—	—	e 25·1
Ottawa	54·8	24	e 9 30	- 4	17 16	+ 2	20 54	SS	—
Kirkland Lake	Z. 55·6	19	e 9 36	- 4	—	—	—	—	—
Shawinigan Falls	57·0	25	e 9 49	- 1	—	—	—	—	—
Halifax	60·0	32	e 18 23	PS	e 22 29	SS	e 24 59	SSS	e 32·8
College	75·3	342	e 11 45	- 2	e 21 23	- 3	e 12 41	?	e 32·5
Resolute Bay	78·2	2	e 12 7	+ 4	e 21 49	- 8	e 29 59	SSS	e 32·9

Continued on next page.

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1955

619

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Malaga	99.9	54	e 13 36	-12	—	—	—	e 47.1
Riverview	100.3	235	e 13 51	+ 1	i 24 33	[+ 5]	e 27 3	PS e 47.2
Granada	100.5	53	13 54 <sub>a</sub>	+ 3	24 30	[+ 1]	e 27 0	PS 48.1
Kew	101.3	38	—	—	e 36 0?	SSS	—	e 47.0
Almeria	101.4	53	e 13 49	- 6	e 25 13	-19	35 25	? 47.5
Triest	111.7	42	e 14 23	P	e 25 6	[-13]	e 18 52	? —
Matusiro	114.1	309	e 18 50	[+ 9]	i 35 19	SS	29 14	PS 52.1
Messina	E. 115.2	49	e 26 49	?	e 36 11	SS	e 29 23	PS e 54.9
Ksara	132.0	46	e 21 35	PP	e 25 35	?	e 38 15	? —
Lwiro	132.6	96	e 19 24	[+ 7]	—	—	—	e 67.8
Lembang	z. 146.7	252	i 19 43 <sub>k</sub>	[+ 1]	—	—	—	—
Quetta	152.1	17	e 19 50	[- 1]	e 30 16	{-14}	e 23 18	PKS —
Shillong	z. 153.2	326	e 19 56 <sub>k</sub>	[+ 4]	—	—	—	—

Oct. 16d. 9h. 56m. 9s. Epicentre 35°·6N. 140°·9E. Depth about 40km.

Intensity II-III at Tyosi, Kashiwa, Kakioka, Osima, and Ajiro.

Seismo. Bull. Cent. Met. Obs., Japan, for Oct., 1955, Tokyo, 1956, pp. 20, 21, with macroseismic chart, p. 20.

Oct. 16d. 19h. 20m. 52s. Epicentre 42°·25N. 144°·5E. Depth about 40km.

Intensity IV at Kusiro; II-III at Obihiro and Nemuro.

Loc. cit., 9h., pp. 21, 22, with macroseismic chart.

Oct. 18d. 7h. 2m. 43s. Epicentre 41°·3N. 45°·6E.

Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 18.

Oct. 19d. 1h. 45m. 29s. Epicentre 40°·4N. 140°·3E.

Intensity V at Akita; IV at Aomori, Sakata, and Hukaura; II-III at Hatinohe and Mizusawa. Much damage and many casualties.

Epicentre 40°·3N. 140°·2E.

Seismo. Bull. of Cent. Met. Obs., Japan, for Oct., 1955, Tokyo, 1956, p. 22-25, with macroseismic chart, p. 22.

$$A = -0.5876, B = +0.4878, C = +0.6456; \quad \delta = +2; \quad h = -2;$$

$$D = +0.639, E = +0.769; \quad G = -0.497, H = +0.412, K = -0.764.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Aomori	0.6	39	e 0 12	0 <sub>g</sub>	e 0 25	- 1	—	—
Akita	0.7	194	0 11 <sub>k</sub>	- 3 <sub>g</sub>	e 0 18	-10	(e 0 18)	P —
Hatinohe	0.9	99	i 0 20	0	0 35	+ 1	—	—
Morioka	1.0	136	i 0 17 <sub>k</sub>	- 3 <sub>g</sub>	e 0 32	- 1 <sub>g</sub>	—	—
Hakodate	1.4	12	i 0 29	+ 1 <sub>g</sub>	i 0 52	+ 6	—	—
Mizusawa	1.4	153	0 26	- 1	0 46	0	—	—
Sakata	1.5	194	0 28	0	0 46	- 2*	—	—
Miyako	1.5	119	e 0 26 <sub>k</sub>	- 2	0 48	0*	—	—
Mori	1.7	6	e 0 33	- 1 <sub>g</sub>	1 1	+ 5 <sub>g</sub>	—	—
Muroran	2.0	14	e 0 39	- 1 <sub>g</sub>	e 1 6	0 <sub>g</sub>	—	—
Isinomaki	2.1	158	e 0 37	0	1 3	- 1	—	—
Yamagata	2.1	179	0 35	- 2	1 0	- 4	—	—
Sendai	2.2	168	e 0 36 <sub>a</sub>	- 2	e 1 2	- 4	—	—
Tomakomai	2.3	24	e 0 43	+ 1*	e 1 23	+ 7 <sub>g</sub>	e 0 48	P <sub>g</sub> —
Suttsu	2.4	358	e 0 41	0	e 1 24	+ 5 <sub>g</sub>	—	—
Hokusima	2.6	177	e 0 43	- 1	e 1 21	0*	—	—
Niigata	2.6	202	e 0 42	- 2	e 1 18	+ 1	—	—
Urakawa	2.6	46	e 0 51	- 1 <sub>g</sub>	e 1 21	0*	—	—
Aikawa	2.8	215	e 0 46	- 1	1 16	- 6	—	—
Inawasiro	2.8	183	0 46	- 1	i 1 18	- 4	i 0 56	P <sub>g</sub> —
Sapporo	2.8	16	e 0 48	+ 1	e 1 27	0*	e 0 54	P <sub>g</sub> —
Obihiro	z. 3.3	40	e 1 1	+ 2*	—	—	—	—
Shirakawa	3.3	181	e 0 52	- 1	i 1 37	+ 2	—	—
Onahama	3.5	172	e 0 51	- 6	i 1 37	- 3	—	—
Takada	3.6	207	e 1 4	0*	1 46	+ 4	—	—

Continued on next page.

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1955		620										
		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
		3.7	24	e 1	5	- 1*	—	—	—	—	—	—
		3.8	185	e 1	0	- 1	e 1	49	+ 2	e 1	18	P <sub>g</sub>
		4.0	48	e 1	9	- 2*	e 2	4	+ 1*	—	—	—
		4.0	178	e 1	5	+ 1	e 1	51	- 1	e 1	47	S
		4.0	223	e 1	2	- 2	e 1	48	- 4	—	—	—
		4.1	194	e 1	7	+ 2	e 1	59	+ 4	—	—	—
		4.1	205	e 1	5	0	i 1	57	+ 2	—	—	—
	E.	4.2	182	e 1	8	+ 1	2	5	- 4*	—	—	—
		4.2	204	i 1	3 <sub>a</sub>	- 4	e 1	54	- 3	i 1	16	P*
		4.3	190	e 1	13	- 3*	2	5	+ 5	—	—	—
		4.3	200	e 1	6	- 2	e 2	37	+ 15 <sub>g</sub>	—	—	—
		4.4	215	1	7	- 3	e 2	26	+ 1 <sub>g</sub>	2	5	S
		4.5	184	e 1	14	+ 3	e 2	15	- 3*	—	—	—
	E.	4.5	205	e 1	13	+ 2	e 2	27	- 2 <sub>g</sub>	—	—	—
	E.	4.5	193	e 1	14	+ 3	e 2	21	+ 3*	—	—	—
		4.7	38	e 1	29	- 5 <sub>g</sub>	e 2	27	+ 3*	—	—	—
		4.7	186	e 1	21	- 2*	i 2	25	+ 1*	i 1	32	P <sub>g</sub>
		4.8	218	e 1	48	+ 12 <sub>g</sub>	—	—	—	—	—	—
	N.	4.9	197	e 1	18	+ 1	e 2	13	- 2	—	—	—
		4.9	52	—	—	—	e 2	5	- 10	—	—	—
		4.9	211	e 1	12	- 5	—	—	—	—	—	—
		5.0	194	e 1	20	+ 2	e 2	22	+ 4	e 1	58	?
		5.0	186	e 1	19	+ 1	i 2	24	+ 6	—	—	—
		5.2	203	e 1	39	- 5 <sub>g</sub>	e 2	42	+ 4*	—	—	—
		5.4	191	e 1	18	- 6	e 2	34	+ 6	—	—	—
		5.4	218	e 1	39	+ 4*	—	—	—	—	—	—
	N.	5.4	192	e 1	22	- 2	e 2	29	+ 1	e 2	51	S <sub>g</sub>
		5.5	184	1	27	+ 2	e 2	30	0	—	—	—
		5.6	196	e 1	26	- 1	i 3	5	0 <sub>g</sub>	e 2	38	S
		5.7	210	e 1	35	+ 7	—	—	—	—	—	—
		5.7	187	e 1	28	0	i 2	38	+ 3	i 3	11	S <sub>g</sub>
		5.8	208	e 1	33	+ 4	c 3	15	+ 3 <sub>g</sub>	e 2	29	S <sub>g</sub>
		5.8	217	e 1	36	+ 7	—	—	—	e 2	1	P <sub>g</sub>
		5.9	213	e 1	35	+ 4	e 2	31	- 9	—	—	—
		6.0	201	—	—	—	e 2	43	0	e 4	22	?
		6.0	214	e 1	33	+ 1	e 2	56	- 6*	e 3	53	?
		6.0	197	e 1	37	+ 5	i 3	15	- 3 <sub>g</sub>	—	—	—
		6.3	210	e 1	43	+ 7	e 2	59	+ 9	—	—	—
		6.4	209	—	—	—	e 3	0	+ 7	—	—	—
		6.5	216	e 1	41	+ 2	e 3	6	+ 11	—	—	—
		6.5	224	e 1	47	+ 8	e 3	1	+ 6	—	—	—
		6.9	215	e 1	49	+ 4	e 3	16	+ 11	—	—	—
		7.0	217	e 1	47	+ 1	e 3	16	+ 8	—	—	—
		7.1	209	e 1	58	- 6*	e 3	32	- 3*	—	—	—
		7.4	217	e 1	57	+ 5	e 3	33	- 11*	—	—	—
		7.5	220	e 1	51	- 2	e 3	21	+ 1	e 3	18	S
		7.8	209	—	—	—	e 3	58	+ 2*	e 4	20	S <sub>g</sub>
		7.8	222	e 1	57	- 1	e 3	30	+ 2	—	—	—
		7.8	218	1	57	- 1	3	27	- 1	—	—	—
		8.5	233	—	—	—	e 3	42	- 3	e 4	43	S <sub>g</sub>
	Z.	8.7	229	e 2	7	- 3	e 3	54	+ 4	—	—	—
		8.7	221	e 2	7	- 3	e 4	17	- 5*	—	—	4.6
	N.	8.9	225	e 2	14	+ 2	e 3	54	- 1	e 4	44	S <sub>g</sub>
	E.	9.6	220	—	—	—	e 5	1	+ 12*	—	—	e 5.2
		10.0	227	e 2	24	- 3	e 5	42	+ 12 <sub>g</sub>	—	—	e 6.4
		10.4	232	e 2	38	+ 4	—	—	—	—	—	—
		11.7	292	e 2	50	- 1	—	—	—	—	—	—
		18.0	245	4	13	0	7	41	+ 9	—	—	—
		19.2	251	e 4	28	0	8	4	+ 5	—	—	—
		25.6	266	e 5	56	+ 24	—	—	—	—	—	—
	E.	28.5	239	—	—	—	e 10	31	- 15	—	—	—
		29.4	221	i 6	3	- 4	—	—	—	—	—	—
		46.8	34	i 8	33	0	—	—	—	—	—	—
		59.2	285	e 10	3	- 2	e 18	11	- 1	—	—	—
		59.6	15	e 10	6	- 2	—	—	—	e 11	7	PcP e 30.0

Continued on next page.

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1955

621

		$\Delta$ c	Az. e	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Kiruna		63.1	338	i 10 29	- 3	—	—	—	e 32.5
Upsala	z.	69.6	333	i 11 12	- 1	—	—	—	—
Shasta	z.	69.8	54	i 11 14	0	—	—	—	—
Hungry Horse		69.9	43	i 11 15	0	—	—	—	—
Lick	z.	72.3	56	e 11 28	- 1	—	—	—	—
Bozeman		73.2	44	e 11 38	+ 3	—	—	—	—
Fresno	z.	73.8	56	e 11 39	+ 1	—	—	—	—
Tinemaha	z.	74.6	54	e 11 44	+ 1	—	—	—	—
Woody	z.	75.0	56	i 11 44	- 1	—	—	i 11 53	PcP
Isabella	z.	75.3	56	e 11 46	- 1	—	—	—	—
Pasadena	z.	76.5	57	e 11 50	- 4	—	—	—	—
Riverside	z.	77.1	56	e 11 58	+ 1	—	—	—	—
Palomar	z.	77.8	57	e 12 4	+ 3	—	—	—	—
Ksara		78.5	305	e 12 7	+ 3	e 23 36	?	e 25 50	?
Jena	z.	78.6	330	e 12 4	- 1	—	—	—	—
Jerusalem		80.3	304	i 12 14	0	—	—	—	—
Stuttgart		81.3	330	e 12 18	- 2	—	—	e 12 31	PcP
Triest		81.9	325	e 11 45	- 38	e 22 12	- 24	e 15 14	PP
Kew		82.3	336	—	—	e 37 31	P'P'	—	—
Tucson		82.3	54	e 12 25	0	—	—	—	—
Rome		85.4	324	e 19 21	?	e 22 41	[- 22]	—	e 46.8
Ottawa		88.7	24	e 12 56	- 1	—	—	—	—
Fayetteville		88.9	41	i 12 57	- 1	—	—	e 13 21	?

Oct. 19d. 2h. 4m. 23s. Epicentre 35°·4N. 140°·3E. Depth 40-50km.  
Intensity V at Katsuura; IV at Yokohama; II-III at Tyosi, Kashiwa, Tokyo, Kakioka, and Ajiro.  
Seismo. Bull. Cent. Met. Obs., Japan, for Oct., 1955, Tokyo, 1956, pp. 25-26, with macroseismic chart.

Oct. 19d. 9h. 54m. 43s. Epicentre 49°·5N. 155°·5E. (as on 1953, April 15d.).

A = -·5933, B = +·2704, C = +·7582;  $\delta$  = -1;  $h$  = -5;  
D = +·415, E = +·910; G = -·690, H = +·314, K = -·652.

		$\Delta$ c	Az. e	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Kurilsk		6.7	233	e 1 44	+ 2	—	—	—	—
Yuzno-Sakhlinsk		8.9	258	e 2 15	+ 3	—	—	—	—
Nemuro		9.2	232	e 2 16	0	e 3 57	- 6	—	4.6
Abashiri		9.4	239	e 2 25	+ 7	—	—	e 2 49	?
Kusiro		10.1	234	e 2 24	- 5	e 4 17	- 8	e 2 36	PP
Wakkanai	N.	10.2	252	e 2 30	- 1	e 4 43	+ 16	—	—
Magadan		10.4	347	i 2 40	+ 6	i 4 48	+ 16	—	—
Asahigawa		10.7	242	e 2 32	- 6	—	—	—	—
Obihiro	z.	10.8	237	e 2 43	+ 4	—	—	—	—
Urakawa		11.5	235	e 2 48	0	e 4 45	- 14	e 5 19	SS
Sapporo		11.7	242	e 2 54	+ 3	i 5 19	SS	e 2 59	PP
Tomakomai		11.9	239	e 3 0	+ 6	i 5 16	+ 7	—	—
Muroran		12.4	240	e 3 1	0	—	—	—	—
Suttsu		12.5	243	e 3 12	+ 10	—	—	e 7 9	?
Mori		12.8	240	e 3 13	+ 7	e 5 23	- 7	e 6 9	SSS
Hakodate		12.9	239	e 3 8	+ 1	—	—	—	—
Hatinohe		13.3	233	e 3 12	- 1	e 5 27	- 15	—	e 7.0
Aomori		13.5	236	e 3 13	- 2	e 4 18	?	e 3 27	PPP
Miyako		13.8	229	e 3 29	+ 10	—	—	—	—
Morioka		14.1	231	e 3 22	- 1	—	—	—	—
Mizusawa		14.6	230	3 31	+ 1	6 8	- 5	e 3 37	PP
Akita		14.7	234	e 3 31	0	e 6 10	- 6	e 7 24	?
Sendai		15.4	228	e 3 41	+ 1	e 6 40	+ 8	e 3 48	PP
Hokusima		16.0	228	e 3 52	+ 4	e 6 55	+ 9	—	9.8
Inawasiro		16.3	229	e 3 54	+ 2	i 6 58	+ 5	i 3 59	PP

Continued on next page.

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1955

622

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Onahama		16.4	226	e 3 58	+ 5	e 6 53	- 3	—	—	
Niigata		16.6	232	e 4 27	+31	—	—	—	9.2	
Shirakawa		16.6	228	e 3 57	+ 1	—	—	—	—	
Aikawa		16.9	234	e 4 3	+ 4	—	—	—	8.5	
Mito		17.1	225	e 4 6	+ 4	i 7 24	SS	—	—	
Utunomiya		17.2	227	e 4 3	0	e 7 19	+ 5	e 4 16	PP	9.9
Kakioka	E.	17.3	226	e 4 2	- 2	e 7 8	- 8	—	—	—
Takada		17.6	232	e 4 12	+ 4	e 7 24	+ 1	—	—	10.2
Maebasi		17.7	228	e 4 7	- 3	e 7 27	+ 1	e 4 37	PPP	—
Kumagaya		17.8	227	4 12	+ 1	e 7 30	+ 2	—	—	—
Nagano		17.9	231	i 4 15 <sub>a</sub>	+ 3	e 7 28	- 2	i 4 49	PPP	10.3
Matsuro		18.0	231	i 4 12 <sub>a</sub>	- 1	i 7 33	+ 1	i 5 41	?	e 8.2
Oiwake		18.0	229	e 4 14	+ 1	—	—	—	—	—
Titibu	N.	18.0	228	e 4 15	+ 2	—	—	—	—	—
Tokyo		18.0	226	4 17	+ 4	e 7 33	+ 1	i 7 53	SS	—
Wazima		18.1	235	e 4 16	+ 2	—	—	—	—	—
Matumoto	N.	18.4	230	e 4 21	+ 3	e 7 48	+ 7	—	—	e 11.1
Toyama		18.4	233	e 4 19	+ 1	e 7 41	0	—	—	—
Hunatu		18.6	227	e 4 23	+ 2	e 7 54	+ 8	—	—	—
Kohu		18.6	228	e 4 18	- 3	e 7 52	+ 6	—	—	—
Mera	E.	18.6	224	e 4 28	+ 7	e 7 46	0	—	—	—
Misima		18.8	226	e 4 36	+13	e 8 0	+10	—	—	e 9.3
Osima		18.9	225	e 4 21	- 3	e 7 55	+ 2	e 4 31	PP	e 10.4
Iida		19.0	229	e 4 28	+ 2	—	—	—	—	—
Shizuoka		19.2	227	e 4 28 <sub>a</sub>	0	e 7 44	-15	—	—	—
Hukui		19.4	233	e 4 33	+ 3	—	—	—	—	—
Gihu		19.6	231	e 4 33	+ 1	e 8 13	+ 5	—	—	10.4
Omaesaki		19.6	227	e 4 35	+ 3	i 8 18	+10	—	—	e 10.2
Nagoya	E.	19.7	230	4 33	- 1	—	—	—	—	—
Hikone		20.0	232	4 36	- 1	8 28	+11	—	—	10.1
Kameyama		20.2	231	4 40 <sub>a</sub>	+ 1	e 8 36	+15	e 8 4	?	e 10.6
Kyoto		20.5	232	e 4 47	+ 5	e 9 0	SS	—	—	e 11.0
Toyooka		20.6	235	e 4 40	- 3	e 8 25	- 4	—	—	—
Nara		20.7	232	e 4 45	+ 1	—	—	e 6 23	?	—
Osaka		20.9	232	e 4 48	+ 2	e 8 43	+ 8	e 6 31	?	12.3
Kobe		21.0	233	e 4 48	+ 1	i 8 37	0	e 8 46	S	e 10.2
Owase		21.0	230	4 45	- 2	e 9 10	SS	—	—	—
Changchun		21.4	266	e 4 53	+ 2	8 43	- 2	—	—	—
Sumoto		21.4	233	e 4 49	- 2	e 8 45	0	—	—	11.9
Himeji	N.	21.6	234	e 5 24	PPP	e 8 50	+ 1	—	—	—
Tokusima		21.8	233	4 58	+ 2	e 9 12	+20	—	—	—
Takamatu		21.9	234	e 4 57	0	e 8 59	+ 5	—	—	e 10.5
Hamada		22.5	238	e 5 5	+ 3	e 9 10	+ 5	—	—	e 11.5
Hirosima		22.7	237	e 5 5	+ 1	e 9 5	- 4	—	—	e 11.8
Muroto		22.7	232	e 5 6	+ 2	9 11	+ 2	—	—	13.0
Koti		22.8	234	e 5 6	+ 1	e 9 11	0	e 5 28	PP	11.1
Matuyama	N.	23.0	236	e 5 10	+ 3	e 9 14	0	—	—	—
Unalaska		23.8	65	i 5 16	+ 1	—	—	—	—	—
Ooita		24.0	236	i 5 23 <sub>k</sub>	+ 6	9 36	+ 4	e 5 44	PP	—
Hukuoka		24.4	239	e 5 23	+ 2	e 9 39	0	e 6 38	?	e 12.3
Saga	N.	24.8	238	i 5 29	+ 4	—	—	—	—	—
Miyazaki		25.2	235	e 5 34	+ 5	e 9 55	+ 3	—	—	13.4
Nagasaki	E.	25.4	238	e 5 30 <sub>k</sub>	- 1	e 10 6	+10	—	—	—
Tomie		26.1	240	e 5 37	0	e 10 2	- 5	—	—	13.6
Peking		29.2	266	e 6 5	0	10 52	- 6	—	—	—
Zô-Sè		31.6	247	i 6 27 <sub>a</sub>	+ 1	11 33	- 2	—	—	—
Irkutsk		31.8	295	6 29	+ 1	11 49	+11	7 46	PPP	—
Nanking		32.4	251	i 6 33 <sub>a</sub>	- 1	11 43	- 5	—	—	—
Taiyuan		32.7	266	e 6 40	+ 4	—	—	—	—	—
College		33.0	41	i 6 40	+ 1	e 11 59	+ 2	e 7 12	?	—
Wuwei		39.2	273	e 7 33	+ 2	—	—	—	—	—
Hong Kong		42.3	245	7 57 <sub>a</sub>	0	e 14 15	- 4	—	—	—
Baguio		43.4	233	i 8 6 <sub>a</sub>	0	e 14 28	- 7	—	—	—
Manila		44.8	231	i 8 0 <sub>?</sub>	-17	i 14 47	- 8	—	—	—
Honolulu		46.1	110	e 8 53	PcP	e 15 25	+11	—	—	e 19.0

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1955

623

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Semipalatinsk		46.4	301	e 8 30	0	—	—	i 10 23	PP	—
Resolute Bay		47.7	20	i 8 41 <sub>a</sub>	+ 1	e 15 36	0	i 10 10	PcP	e 22.9
Horseshoe Bay		50.3	57	9 2	+ 2	—	—	—	—	—
Victoria		50.7	58	9 4	+ 1	16 18	0	i 19 20	?	e 24.7
Seattle		51.8	58	9 13	+ 1	i 16 39	+ 6	e 10 53	PP	—
Sverdlovsk		52.9	317	9 19	- 1	16 45	- 3	11 22	PP	—
Banff		53.4	52	i 9 6	-18	—	—	—	—	—
Frunse		53.8	296	i 9 27	+ 1	i 17 13	PS	i 10 33	PcP	i 23.3
Shillong		54.0	268	i 9 25 <sub>a</sub>	- 3	i 17 0	- 3	17 19	PPS	24.8
Hungry Horse		55.9	54	i 9 42	0	e 17 27	- 2	i 11 40	PP	—
Shasta		55.9	65	i 9 42	0	e 17 31	+ 2	e 17 55	PPS	—
Mineral	Z.	56.6	65	i 9 47	0	—	—	—	—	—
Berkeley		57.8	68	e 9 56	+ 1	e 17 52	- 2	i 19 41	ScS	—
Tashkent		57.9	298	e 9 55	- 1	i 17 50	- 5	e 19 35	ScS	—
Butte	N.	58.1	55	e 9 58	0	e 18 0	+ 2	e 19 46	ScS	e 25.2
Kiruna		58.2	342	i 9 58	0	e 18 7	+ 8	e 13 34	PPP	e 27.3
Reno	Z.	58.2	65	e 9 59	+ 1	—	—	—	—	—
Santa Clara	E.	58.3	68	e 10 7	+ 8	e 18 4	+ 3	—	—	—
Lick	Z.	58.5	68	e 10 1	+ 1	—	—	—	—	—
Bozeman		59.1	55	e 10 7	+ 3	e 18 11	0	e 39 45	P'P'	—
Bokaro	E.	59.2	271	i 10 9	+ 4	i 18 15	+ 3	12 21	PP	28.2
Dehra Dun		59.8	282	e 10 9	0	18 24	+ 4	i 18 10	S	25.4
Fresno	Z.	60.0	67	e 10 11	0	—	—	—	—	—
Stalinabad		60.0	295	i 10 10	- 1	i 18 20	- 3	12 28	PP	—
Scoresby Sund		60.3	359	i 10 14	+ 1	i 18 27	+ 1	i 10 59	PcP	30.3
Eureka		60.5	63	i 10 14	0	—	—	e 38 50	P'P'	—
Tinemaha	Z.	60.7	66	i 10 16 <sub>a</sub>	+ 1	e 18 34	+ 2	i 18 46	PPS	—
Woody	Z.	61.3	68	i 10 19	- 1	—	—	—	—	—
Isabella	Z.	61.5	68	e 10 21 <sub>a</sub>	0	—	—	e 39 37	P'P'	—
Salt Lake City		62.0	59	e 10 24	0	i 18 49	+ 1	e 20 16	ScS	e 26.2
Pulkovo		62.4	332	i 10 26	- 1	e 18 49	- 4	i 20 16	ScS	—
Pasadena		62.7	69	i 10 29	0	i 18 57	0	e 39 36	P'P'	e 28.8
Moscow		63.1	326	10 31	- 1	18 57	- 5	12 53	PP	—
Riverside		63.3	68	e 10 32 <sub>a</sub>	- 1	e 19 0	- 4	e 39 26	P'P'	—
Boulder City		63.5	65	e 10 35	+ 1	e 19 7	0	e 10 48	?	—
Helsinki		63.6	335	—	—	e 18 59	- 9	—	—	e 27.3
Palomar	Z.	64.1	68	e 10 37 <sub>a</sub>	- 1	—	—	i 10 54	?	—
Rapid City	E.	64.3	52	e 10 40	+ 1	i 19 18	+ 1	e 13 20	PP	e 26.8
Upsala		65.8	338	i 10 49 <sub>a</sub>	0	e 19 29	- 6	i 11 21	PcP	e 30.3
Boulder		66.1	56	i 10 53	+ 2	—	—	—	—	—
Ashkabad		66.4	301	i 10 54	+ 1	e 19 41	- 2	—	—	—
Reykjavik	Z.	66.7	359	i 10 57 <sub>a</sub>	+ 2	—	—	—	—	—
Quetta		66.8	290	e 10 55	- 1	i 19 43	- 5	i 11 26	PcP	—
Ivigut	N.	68.0	12	e 11 3	0	e 19 59	- 3	e 20 19	PS	—
Tucson		68.5	65	i 11 6	0	e 20 14	+ 6	e 39 21	P'P'	e 28.1
Djakarta		69.7	233	i 11 12 <sub>a</sub>	- 2	e 20 18	- 4	—	—	—
Lembang		69.8	232	i 11 10 <sub>k</sub>	- 4	e 20 18	- 5	—	—	—
Copenhagen		70.7	339	i 11 19	- 1	e 20 37	+ 3	i 21 38	PPS	34.8
Madras	E.	70.7	268	i 11 20 <sub>a</sub>	0	i 20 31	- 3	13 58	PP	33.6
Poona		70.8	276	i 10 21	-59	i 20 32	- 3	13 53	PP	29.8
Bombay		71.2	277	i 11 25	+ 2	e 20 37	- 3	e 11 46	PcP	—
Warsaw		71.5	332	i 11 25	+ 1	e 20 40	- 3	e 11 45	PcP	e 35.3
Goris		71.6	310	i 11 27	+ 2	i 20 47	+ 3	14 7	PP	—
Kirkland Lake	Z.	71.6	36	e 11 25 <sub>a</sub>	0	—	—	—	—	—
Simferopol		73.0	321	i 11 33	0	20 56	- 4	14 20	PP	—
Hamburg		73.2	339	i 11 38 <sub>k</sub>	+ 3	—	—	—	—	e 38.3
Chicago		73.6	44	e 11 32	- 5	e 21 0	- 7	e 16 12	PPP	e 34.4
Iasi	E.	73.6	326	e 11 37	0	—	—	—	—	—
Byton	N.	73.8	333	i 11 42	+ 4	—	—	—	—	—
Raciborz		74.3	333	i 11 43	+ 2	e 16 47	PPP	e 11 51	PcP	—
Skalnate Pleso		74.4	331	e 11 44	+ 2	e 21 18?	+ 2	e 22 9	PPS	e 38.3
Kodaikanal	E.	74.5	268	e 11 43	+ 1	—	—	—	—	—
Collmberg		74.6	337	e 11 37	- 6	e 21 39	+21	e 14 34	PP	e 39.8
Florissant	N.	74.6	48	i 11 44	+ 1	i 21 18	0	i 21 39	SKS	—
Witteveen	Z.	74.7	341	i 11 46 <sub>k</sub>	+ 3	—	—	—	—	—

Continued on next page.

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1955

624

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Fayetteville	74.8	52	i 11 44 <sup>k</sup>	0	e 21 18	- 2	e 21 43	SKS
St. Louis	74.8	48	i 11 43	- 1	i 21 20	0	i 11 55	PcP
Focsani	75.1	325	e 11 48	+ 2	—	—	—	—
Jena	75.3	337	e 11 46	- 1	e 21 24	- 2	e 14 49	PP
Prague	75.3	335	i 11 48	+ 1	e 21 23	- 3	i 14 37	PP
Colombo	E. 75.4	264	11 48	+ 1	21 24	- 3	—	—
Ottawa	75.5	35	i 11 48 <sup>a</sup>	0	21 18	-10	22 19	PPS
Shawinigan Falls	75.6	32	e 11 49	+ 1	e 14 0	?	e 12 9	PcP
De Bilt	75.7	342	e 11 50	+ 1	e 21 32	+ 2	—	—
Seven Falls	75.7	31	i 11 46	- 3	21 23	- 7	22 23	PPS
Cheb	75.9	336	i 10 51	-59	i 21 22?	-10	e 14 44	PP
Dallas	76.0	56	i 12 22	+31	i 22 2	ScS	—	—
Campulung	E. 76.2	326	e 11 53	+ 1	—	—	—	—
Hurbanovo	76.2	332	i 11 55	+ 3	e 21 39	+ 3	e 22 31	PPS
Budapest	76.3	331	11 50	- 2	22 0	ScS	12 7	PcP
Rathfarnham Castle	76.4	349	i 11 54 <sup>a</sup>	+ 1	e 21 41	+ 3	e 14 44	PP
Cleveland	76.5	40	i 11 55 <sup>a</sup>	+ 1	i 21 37	- 2	i 22 2	SKS
Bucharest	76.6	325	e 11 56	+ 2	i 21 39	- 1	i 26 23	SS
Brisbane	76.7	182	i 11 53	- 2	i 21 36	- 5	—	—
Little Rock	76.8	52	e 11 57	+ 2	e 21 42	0	e 22 4	SKS
Timisoara	77.1	329	e 12 1	+ 4	e 21 48	+ 2	e 22 16?	ScS
Uccle	77.1	342	i 11 57	0	e 21 44	- 2	e 22 2	SKS
Kalossa	77.2	331	11 58	+ 1	—	—	—	—
Kew	77.3	345	i 12 0	+ 2	e 21 52	+ 4	e 22 35	PS
Karlsruhe	z. 77.8	338	i 12 2 <sup>a</sup>	+ 1	—	—	e 12 29	?
Stuttgart	77.9	338	i 12 2 <sup>a</sup>	+ 1	e 21 52	- 2	e 27 5	SS
Pittsburgh	78.0	40	i 12 3	+ 1	i 21 52	- 3	i 22 15	SKS
Belgrade	78.2	329	i 12 4 <sup>a</sup>	+ 1	e 22 28	PS	e 18 31	?
Istanbul	78.2	322	i 12 3	0	e 21 53	- 4	e 15 4	PP
Sofia	79.1	326	e 12 10	+ 2	e 22 5	- 2	e 24 30	?
Zürich	79.3	338	e 12 11 <sup>a</sup>	+ 2	e 22 2	- 7	e 12 26	PcP
Basle	79.4	338	e 12 11 <sup>a</sup>	+ 2	e 22 12	+ 2	e 13 0	?
Chur	z. 79.6	337	e 12 0?	-10	—	—	—	—
Triest	79.6	334	e 12 8	- 2	e 22 33	+21	e 15 16	PP
Weston	79.7	33	i 12 13 <sup>a</sup>	+ 2	i 22 13	0	15 11	PP
Palisades	80.0	36	i 12 13	0	i 22 13	- 4	i 12 34	pP
Fordham	80.1	36	e 12 13	0	e 22 14	- 4	e 12 25	pP
Neuchatel	80.1	339	e 12 15	+ 2	—	—	—	—
Halifax	80.2	27	i 12 15 <sup>a</sup>	+ 1	i 22 17	- 2	i 24 28	?
Philadelphia	80.4	37	e 12 15	0	e 22 15	- 6	e 27 24	SS
Salo	80.5	336	e 12 14 <sup>a?</sup>	- 1	e 22 15	- 7	i 12 18	PcP
Washington	z. 80.5	39	i 12 15	0	e 22 49	+27	i 15 15	PP
Oropa	81.1	338	e 12 18	0	e 22 34	+ 6	—	—
Pavia	81.2	337	e 12 21 <sup>a</sup>	+ 2	e 22 34	+ 5	e 18 59	?
Bologna	81.3	335	e 12 25	+ 5	e 22 24	- 6	—	—
Ksara	81.3	313	i 12 22 <sup>a</sup>	+ 2	23 29	PS	15 31	PP
Florence	82.0	335	i 12 24 <sup>a</sup>	+ 1	i 22 33	- 4	i 23 45	PPS
Mobile	82.2	51	i 12 27	+ 3	i 22 41	+ 2	—	—
Columbia	82.9	44	e 12 29	+ 1	i 22 43	- 3	i 15 39	PP
Athens	83.0	324	e 12 28 <sup>a</sup>	0	e 22 43	- 4	—	—
Riverview	83.0	184	i 12 28 <sup>a</sup>	0	i 22 45	- 2	i 28 2	SS
Jerusalem	83.2	312	i 12 32	+ 3	e 22 47	- 2	—	—
Taranto	83.2	329	—	—	e 22 8	-41	—	—
Rome	83.4	333	i 12 32 <sup>a</sup>	+ 2	i 22 57	+ 6	i 24 3	PPS
Tacubaya	85.0	66	e 12 29	- 9	e 22 57	[- 4]	e 23 30	ScS
Messina	85.8	329	i 12 43 <sup>a</sup>	+ 1	e 23 11	- 4	28 49	SS
Cuglieri	86.0	335	e 12 47	+ 4	—	—	—	—
Barcelona	86.5	340	e 13 7	+21	e 23 20	- 2	—	—
Melbourne	E. 87.4	188	i 12 51	+ 1	e 23 26	- 4	i 13 13	?
Toledo	89.2	344	i 13 0 <sup>a</sup>	+ 1	23 44	- 3	29 4	SS
Merida	89.3	58	i 25 32	PPS	i 26 23	?	e 27 25	?
Lisbon	91.1	348	i 13 10 <sup>k</sup>	+ 2	23 39	[ 0]	—	—
Cobb River	E. 91.5	167	—	—	e 23 54	[ +12]	—	—
Comitan	91.6	63	e 22 25	?	—	—	—	—
Granada	91.7	343	i 13 15	+ 5	23 43	[ 0]	i 24 12	S

Continued on next page.

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1955

625

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Almeria	91.8	342	i 13 10	- 1	24 2	- 9	16 46	PP	42.8
Wellington	92.0	166	—	—	23 44	[ - 0]	i 24 22	S	c 43.3
Malaga	92.3	344	i 13 12 <sub>a</sub>	- 1	i 24 12	- 3	i 16 52	PP	44.4
Christchurch	93.9	168	e 22 2	?	i 23 52	[ - 3]	i 25 50	PS	e 44.3
San Juan	103.0	40	e 18 14	[ - 5]	—	—	—	—	—
Galerazamba	105.3	52	e 14 18	+ 6	i 24 58	[ + 6]	i 18 41	PP	49.3
Chinchina	110.0	56	i 19 11	PP	25 13	[ + 1]	i 34 39	SS	54.3
Bogota	111.2	54	e 19 23	PP	i 25 40	[ + 23]	i 29 13	SKSP	49.3
Lwiro	114.8	298	e 18 46 <sub>a</sub>	[ + 3]	e 29 30	SKSP	—	—	—
La Paz	131.8	63	e 19 29	[ + 14]	i 22 43	PKS	i 21 43	PP	64.3
Pretoria	z. 133.2	280	i 19 20 <sub>k</sub>	[ + 2]	—	—	—	—	—
Kimberley	z. 137.4	280	i 19 18	[ - 8]	—	—	—	—	—

Oct. 19d. 17h. 0m. 36s. Epicentre 33°·0N. 140°·5E. Depth about 160km.  
Seismo. Bull. Cent. Met. Obs., Japan, for Oct. 1955, Tokyo, 1956, pp. 28-29.

Oct. 20d. 13h. 10m. 40s. Epicentre 35°·3N. 140°·5E. Depth about 50km.  
Intensity V at Katsuura; IV at Tokyo and Yokohama; II-III at Tyosi, Kakioka, Osima, Ajiro, Utunomiya, and Kohu.  
Seismo. Bull. Cent. Met. Obs., Japan, for Oct., 1955, Tokyo, 1956, pp. 30-32, with macro-seismic chart.

Oct. 20d. 20h. 35m. 31s. Epicentre 41°·2N. 43°·9E.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, pp. 18, 19.

Oct. 20d. 22h. 19m. 45s. Epicentre 41°·2N. 44°·0E.  
*Loc. cit.*, 20h., p. 19.

Oct. 20d. 22h. 21m. 20s. Epicentre 41°·2N. 43°·9E.  
*Loc. cit.*, 22h. 19m., p. 19.

Oct. 21d. 2h. 34m. 9s. Epicentre 41°·2N. 43°·9E.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 19.

Oct. 21d. 4h. 32m. 19s. Epicentre 4°·3N. 95°·5E. Depth of focus 0·015.

A = -·0956, B = +·9926, C = +·0745;  $\delta$  = -6; h = +7;  
D = +·995, E = +·096; G = -·007, H = +·071, K = -·997.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Djakarta	15.4	132	e 3 29	- 2	e 6 14	- 4	—	—
Lembang	16.4	132	i 3 41 <sub>a</sub>	- 3	e 6 41	0	e 15 37	ScS
Bandung	16.5	132	e 3 16	-29	e 4 59	?	e 15 56	ScS
Madras	E. 17.4	301	i 3 53 <sub>k</sub>	- 3	7 8	+ 5	4 8	PP
Kodaikanal	E. 18.8	289	i 4 15	+ 3	7 39	+ 6	4 42	PPP
Hyderabad	E. 21.2	309	i 4 38 <sub>k</sub>	+ 1	i 8 25	+ 5	e 4 56	PP
Shillong	21.4	351	i 4 33 <sub>k</sub>	- 6	i 8 28	+ 5	5 2	PP
Bokaro	E. 21.6	335	e 4 42	+ 1	i 8 33	+ 6	5 16	PP
Poona	Z. 25.4	306	i 5 18	+ 1	e 10 2	+30	8 12	?
Hong Kong	25.5	44	i 5 18 <sub>a</sub>	0	e 9 41	+ 8	—	—
Bombay	26.5	305	e 5 28	+ 1	e 9 56	+ 6	6 19	PP
Baguio	27.4	62	i 5 37 <sub>a</sub>	+ 2	i 10 15	+11	—	—
Dchra Dun	30.7	330	e 6 5	0	i 11 2	+ 5	12 42	SS
Sian	32.3	21	e 6 21	+ 2	e 11 25	+ 3	—	—
Tungkwai	33.2	23	e 6 26	- 1	—	—	—	—
Nanking	35.2	36	6 44	0	e 12 15	+ 8	—	—
Zô-Sè	36.0	39	6 50	0	e 12 29	+10	—	—
Quetta	37.3	317	i 7 1 <sub>a</sub>	0	i 12 44	+ 5	i 8 24	PP
Peking	40.2	25	i 7 27	+ 2	13 31	+ 9	—	—
Perth	Z. 40.9	153	—	—	i 13 53	PS	i 17 19	SSS

Continued on next page.

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1955

626

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Matusiro		50.7	45	i 8 46 <sub>a</sub>	- 2	16 2	+10	10 41	PP	20.1
Rabaul	z.	57.3	98	i 10 34	+57	e 10 49	?	e 12 45	PPP	—
Melbourne	E.	62.1	137	i 10 9	0	—	—	i 10 32	pP	—
Ksara		62.5	306	10 15	+ 3	18 46	SP	—	—	—
Jerusalem		62.6	304	i 9 54	-19	e 18 32	+ 3	—	—	—
Brisbane		63.8	123	i 10 20	- 1	—	—	i 10 39	pP	—
Riverview		64.7	130	i 10 30 <sub>a</sub>	+ 3	i 19 2	+ 7	i 19 32	sS	—
Lwiro		66.9	266	e 10 41	0	—	—	e 12 3	?	—
Istanbul		69.5	312	e 10 55	- 2	e 19 55	+ 3	—	—	—
Pretoria	z.	71.6	241	e 11 9	0	—	—	—	—	—
Bucharest		72.3	315	—	—	i 20 32	+ 8	i 20 59	PS	—
Athens		73.0	308	i 11 17 <sub>a</sub>	0	i 20 36	+ 4	—	—	—
Grahamstown	z.	74.9	234	i 11 27	- 1	—	—	—	—	—
Kimberley	z.	75.3	239	i 11 31 <sub>k</sub>	0	—	—	—	—	—
Hurbanovo		78.3	318	e 12 9	+22	e 21 7	-23	e 21 51	ScS	—
Raciborz	z.	78.6	320	i 11 49 <sub>a</sub>	0	—	—	e 12 8	PcP	—
Messina		79.4	308	i 11 53 <sub>k</sub>	0	i 21 49	+ 7	e 14 51	PP	—
Upsala	z.	80.2	330	i 11 56 <sub>a</sub>	- 2	i 12 14	PcP	i 14 58	PP	—
Kiruna		80.4	338	i 12 38	pP	i 21 55	+ 2	i 15 1	PP	e 39.7
Prague		81.0	320	i 12 2	0	i 22 4	+ 5	e 23 14	SPP	—
Triest		81.2	315	e 12 1 <sub>k</sub>	- 2	e 22 13	+12	e 22 55	PS	42.2
Rome		81.9	312	i 12 7 <sub>a</sub>	0	i 22 4	- 4	e 27 27 <sub>?</sub>	SS	e 34.3
Cheb		82.3	320	—	—	i 22 19	+ 7	e 23 9	PS	—
Copenhagen		82.5	326	i 12 10	0	e 22 22	+ 8	—	—	48.7
Jena		82.8	321	e 12 11	0	e 22 23	+ 6	e 15 22	PP	—
Florence		82.9	313	i 12 11 <sub>a</sub>	- 1	i 22 36	+18	e 15 24	PP	—
Christchurch		83.7	134	—	—	i 22 29	+ 3	—	—	—
Hamburg	z.	83.9	323	i 12 17	0	—	—	—	—	—
Chur		84.1	316	i 12 18	0	e 22 33	+ 3	—	—	—
Stuttgart		84.3	318	i 12 19 <sub>a</sub>	0	e 22 41	+ 9	e 23 52	PPS	—
Wellington		84.8	132	—	—	i 22 41	+ 4	—	—	—
Zürich		84.8	317	e 12 21	0	e 22 45	+ 8	—	—	—
Karlsruhe	z.	84.9	319	e 12 22 <sub>a</sub>	0	—	—	—	—	—
Oropa		85.2	315	e 12 28	+ 5	e 22 29	[- 3]	—	—	—
Basle		85.4	317	e 12 24	0	—	—	—	—	—
Witteveen	z.	85.9	322	i 12 27 <sub>a</sub>	0	—	—	—	—	—
De Bilt		86.8	322	—	—	e 23 5	+ 9	—	—	e 42.7
Uccle		87.4	321	e 12 51	+17	i 23 9	+ 7	e 22 59	SKS	—
Kew		90.3	322	i 12 48	0	i 23 36	+ 8	—	—	e 42.7
Rathfarnham C.	z.	93.6	324	e 13 8	+ 5	i 15 54	?	i 17 31	PP	—
Scoresby Sund		94.8	343	i 13 9	+ 1	i 24 24	+17	e 23 44	SKS	—
College		97.1	23	e 13 17	- 2	e 23 47	[+ 5]	e 26 15	PS	e 43.5
Resolute Bay		100.9	3	e 13 48	+12	e 24 9	[+ 8]	e 17 36	PP	e 54.8
Victoria		117.4	28	18 32	[+ 1]	—	—	—	—	—
Hungry Horse		121.6	23	i 18 39	[ 0]	i 20 12	PP	e 28 40	PKKP	—
Shasta	z.	123.4	34	e 18 43	[+ 1]	—	—	—	—	—
Butte	N.	124.1	23	e 18 45	[+ 2]	—	—	e 20 29	PP	—
Mineral	z.	124.1	34	e 18 45	[+ 2]	—	—	—	—	—
Bozeman		124.9	22	e 18 48	[+ 3]	—	—	e 20 37	PP	—
Berkeley	z.	125.4	36	e 18 49	[+ 3]	—	—	—	—	—
Reno	z.	125.6	33	e 18 48	[+ 2]	—	—	—	—	—
Lick	z.	126.1	36	i 18 50	[+ 3]	—	—	—	—	—
Seven Falls		127.4	348	i 18 46 <sub>k</sub>	[- 4]	—	—	e 19 4	pP'	—
Fresno	z.	127.6	36	e 18 53	[+ 3]	—	—	—	—	—
Kirkland Lake	z.	127.6	356	e 18 52	[+ 2]	—	—	—	—	—
Eureka		127.7	31	i 18 51	[+ 1]	—	—	i 20 52	PP	—
Tinemaha	z.	128.2	34	e 18 53	[+ 2]	—	—	e 20 46	PP	—
Shawinigan Falls		128.3	350	i 18 53	[+ 2]	—	—	e 19 10	pP'	—
Salt Lake City		128.6	26	e 18 55	[+ 3]	e 22 10	SKP	e 20 57	PP	—
Woody	z.	128.8	36	e 18 45	[- 7]	e 22 10	SKP	e 20 54	PP	—
Isabella	z.	129.1	36	e 18 54	[+ 1]	e 21 1	PP	e 19 14	pP	—
China Lake	z.	129.5	35	e 18 52	[- 2]	i 22 13	SKP	i 21 9	PP	—
Ottawa		129.9	352	i 18 57 <sub>k</sub>	[+ 2]	i 22 15	PKS	21 10	PP	—
Pasadena	z.	130.3	37	e 18 46	[- 9]	e 22 15	SKP	e 21 15	PP	—
Riverside	z.	130.9	37	e 18 48	[- 8]	i 22 17	SKP	e 21 19	PP	—

Continued on next page.

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1955

627

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Palomar	z.	131.6	37	e 19	1	[+ 3]	i 22	21	SKP	e 21	26	PP	—
Boulder		131.9	22	e 19	1	[+ 3]	i 22	23	SKP	—	—	—	—
Weston		132.0	347	e 19	1	[+ 2]	—	33	PKS	—	—	—	e 71.9
Palisades		133.9	349	e 21	31	PP	e 22	31	PKS	e 23	3	pPKS	e 64.3
Tucson		135.9	33	e 19	0	[- 6]	i 22	34	SKP	i 19	10	PKP	—
Morgantown		136.1	355	i 19	8	[+ 2]	i 22	36	SKP	—	—	—	—
Fayetteville		138.8	12	e 19	13	[+ 2]	e 22	41	PKS	e 21	59	PP	—
Dallas		141.3	17	i 19	12	[- 4]	—	—	—	—	—	—	—
Columbia		141.8	355	e 19	19	[+ 2]	—	—	—	—	—	—	—
San Juan		151.1	322	e 19	35	[+ 3]	—	—	—	i 20	12	?	—
St. Vincent		151.1	307	e 19	41	[+ 9]	—	—	—	—	—	—	—
Tacubaya		152.4	31	i 19	43	[+ 9]	i 26	41	[+15]	—	—	—	—
La Paz	z.	159.8	232	e 19	45	[+ 2]	20	25	PKP <sub>1</sub>	e 24	6	PP	—
Huancayo		168.0	228	e 19	53	[+ 2]	—	—	—	—	—	—	—

Oct. 21d. 19h. 2m. 41s. Epicentre 20°·7S. 179°·1W. Depth of focus 0·090.

A = -·9361, B = -·0147, C = -·3514;  $\delta$  = -2;  $h$  = +5;  
D = -·016, E = +1·000; G = +·351, H = +·006, K = -·936.

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Apia		9.8	47	i 2	19	+ 2	4	8	+ 1	e 3	12	?	—
Nouméa		13.5	261	i 2	57 <sub>a</sub>	+ 4	i 5	20	+ 7	—	—	—	—
Onerahi	E.	16.0	200	i 3	21	+ 3	i 6	3	+ 7	—	—	—	—
Auckland	N.	17.0	197	i 2	29?	-58	i 4	54?	-80	i 6	59?	?	—
Karapiro	N.	17.8	194	i 3	35	+ 1	e 6	4	-23	i 7	13	SS	—
Tuaiti	N.	18.3	189	i 3	37	- 2	i 6	39	+ 4	—	—	—	—
New Plymouth	E.	19.2	196	i 3	51	+ 4	i 6	51	+ 1	e 6	28	?	—
Wellington		21.1	193	i 4	4	- 1	i 7	2	-19	e 7	44	PcP	—
Cobb River	E.	21.4	197	e 6	45	?	e 7	20	- 6	i 7	16	?	—
Kaimata	N.E.	23.2	198	i 4	21	- 3	i 7	47	- 8	—	—	—	—
Christchurch		23.8	195	i 4	26	- 3	i 8	2	- 2	i 7	45	PcP	—
Brisbane		26.3	250	i 4	53	+ 2	i 7	43	-61	—	—	—	—
Riverview		29.4	237	i 5	18 <sub>a</sub>	0	i 9	34	+ 2	i 6	58	pP	—
Rabaul		32.4	297	i 5	43	0	i 10	13	- 5	i 8	6	PcP	—
Melbourne	E.	35.4	233	i 6	8	0	i 10	58	- 5	i 7	51	pP	—
Macquarie Is.		37.6	201	e 9	12	?	e 11	33	- 2	—	—	—	—
Hawaii Vol. Ob.		46.2	32	i 7	33	- 1	—	—	—	i 9	31	pP	—
Honolulu		46.5	27	e 7	36	0	i 13	41	- 1	e 9	35	pP	e 19.0
Perth	z.	58.6	244	i 9	2	0	i 16	19	- 2	9	44	PcP	—
Manila		68.5	296	i 10	5	0	—	—	—	—	—	—	—
Baguio		69.8	297	i 10	3k	- 9	e 18	27	- 8	—	—	—	—
Matusiro		69.8	324	i 10	11k	- 1	18	28	- 7	12	32	pP	—
Mizusawa	E.	70.2	328	10	18	+ 3	19	20	SP	—	—	—	—
Bandung		72.0	269	i 10	45	+20	i 19	15	+15	e 23	9	sS	—
Lembang		72.0	269	i 10	25	0	i 18	55	- 5	e 12	35	pP	—
Djakarta		73.0	270	e 10	30k	- 1	e 19	4	- 6	e 12	41	pP	—
Unalaska		75.1	8	i 10	41	- 2	—	—	—	—	—	—	—
Yuzno-Sakhlinsk		75.6	334	i 10	46	+ 1	i 19	41	+ 2	i 13	0	pP	—
Petropavlovsk		76.0	346	i 10	46	- 2	i 19	39	- 4	i 13	0	pP	—
Z0-Sè		77.0	310	i 10	52k	- 1	19	51	- 2	13	11	pP	—
Hong Kong		77.9	300	i 10	59k	+ 1	e 20	4	+ 1	e 13	20	pP	—
Vladivostok		77.9	326	i 10	58	0	—	—	—	i 13	12	pP	—
Santa Clara		78.9	43	i 11	5	+ 2	e 20	15	+ 2	i 13	18	pP	—
Berkeley		79.0	42	i 11	4k	0	i 20	18	+ 4	e 13	16	pP	—
Lick	z.	79.1	43	i 11	5k	+ 1	i 14	16	sP	i 13	18	pP	—
Nanking		79.3	310	i 11	5k	0	i 20	18	+ 1	13	19	pP	—
Pasadena		79.6	48	i 11	6k	- 1	i 20	21	+ 1	i 13	17	pP	—
Fresno		80.0	44	i 11	9k	0	e 20	25	+ 1	e 13	22	pP	—
Riverside		80.0	48	i 11	8k	- 1	i 20	26	+ 2	i 13	21	pP	—
Woody	z.	80.0	46	i 11	9k	0	i 20	26	+ 2	i 13	22	pP	—

Continued on next page.

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1955

628

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Palomar	z.	80.1	49	i 11 10k	+ 1	i 20 28	+ 3	e 13 22	pP	—
Isabella	z.	80.2	46	i 11 20k	+10	e 20 28	+ 2	i 13 24	pP	—
Shasta	z.	80.7	40	i 11 12k	0	e 40 20	SKP,P'	e 13 26	pP	—
China Lake	z.	80.9	46	i 11 14k	+ 1	i 20 37	+ 4	i 13 26	pP	—
Mineral	z.	80.9	41	i 11 13k	0	e 20 34	+ 1	e 13 26	pP	—
Tinemaha		81.2	45	i 11 15k	0	i 20 32	- 4	e 13 27	pP	—
Reno	z.	81.6	42	i 11 26k	+ 9	e 37 46	P'P'	i 13 41	pP	—
Changchun		81.9	323	i 11 19	+ 1	e 20 36	- 7	—	—	—
Corvallis	z.	82.5	37	i 11 21	0	i 20 40	- 9	i 13 36	pP	—
Boulder City		82.9	47	e 11 22	- 1	i 20 47	- 6	e 13 47	pP	—
Magadan		83.7	345	i 11 25	- 2	e 20 56	- 4	—	—	—
Tucson		83.9	52	i 11 29	+ 1	i 21 7	+ 5	i 13 44	pP	e 32.5
Eureka		84.0	44	i 11 27	- 2	e 29 8	PKKP	i 13 43	pP	—
Victoria		84.9	34	11 33	0	—	—	i 13 49	pP	—
Seattle		85.0	35	i 11 35	+ 1	21 0	[ 0]	i 13 51	pP	—
Chihuahua		85.8	58	e 11 33	- 5	e 21 15	- 5	e 20 59	SKS	—
Salt Lake City		87.4	44	i 11 44	- 1	e 21 13	[- 2]	i 14 2	pP	—
Sian		87.5	308	11 49	+ 3	21 43	+ 7	e 20 15	?	—
Tacubaya		87.8	68	e 11 41	- 6	e 21 39	0	e 14 7	pP	—
College		88.6	13	i 11 48	- 3	i 21 40	- 6	e 14 3	pP	—
Oaxaca		89.0	72	e 11 51	- 2	e 21 28	[+ 3]	e 21 52	S	—
Butte	N.	89.6	40	i 11 55	- 1	i 21 53	- 2	i 14 12	pP	—
Hungry Horse		89.9	37	i 11 55	- 2	i 21 57	0	i 14 12	pP	—
Bozeman		90.3	41	e 11 59	0	i 21 32	[- 1]	i 14 16	pP	e 47.6
Vera Cruz		90.4	70	e 12 18	+19	e 21 33	[ 0]	e 22 8	S	—
Banff		90.6	34	11 58	- 2	—	—	i 14 17	pP	—
Boulder		90.7	48	i 12 3	+ 3	—	—	i 14 22	pP	—
Comitan		92.9	74	—	—	22 19	- 4	—	—	—
Rapid City	E.	94.6	44	i 14 36	pP	i 22 40	+ 2	i 21 49	SKS	—
Dallas		94.9	57	e 14 36	pP	—	—	—	—	—
Merida		96.7	70	e 13 12	+44	e 22 48	- 7	e 21 59	SKS	—
Shillong	z.	97.8	294	i 12 31k	- 2	—	—	—	—	—
Fayetteville		98.0	55	i 12 32	- 2	e 22 9	[- 5]	e 14 52	pP	—
Huancayo		98.3	106	e 12 37	+ 2	i 22 19	[+ 4]	i 14 55	pP	—
Irkutsk		98.3	323	i 12 32	- 3	e 23 10	+ 1	14 50	pP	—
Little Rock		99.0	56	—	—	e 22 13	[- 5]	e 26 21	sSKS	e 43.1
Florissant		101.7	53	e 26 39	PS	i 22 25	[- 6]	e 23 42	S	—
St. Louis		101.8	53	i 15 9	pP	e 23 38	0	i 26 42	PS	—
Bokaro		102.6	291	e 17 35	PP	e 26 39	PS	i 31 0	SS	—
La Paz		102.8	113	e 13 9	+14	i 22 33	[- 3]	15 11	pP	—
Chinchina		104.3	90	e 17 31	PP	i 22 37	[- 6]	i 25 44	SP	—
Madras	E.	104.4	279	e 17 33	PP	e 22 48	[+ 4]	i 24 5	S	—
Bogota		105.7	91	i 17 41	PP	i 22 44	[- 5]	i 20 14	PPP	—
Galerazamba		106.6	84	i 27 30	PS	i 22 55	[+ 2]	i 23 50	?	—
Columbia		107.8	60	e 17 45	PP	i 22 54	[- 4]	i 28 36	PKKP	—
Resolute Bay		108.3	16	e 17 18	[- 2]	e 22 49	[- 11]	e 20 20	PPP	—
Cleveland		109.0	52	—	—	i 22 59	[- 4]	i 26 37	sSKS	—
Chapel Hill		109.8	58	e 17 53	PP	—	—	—	—	—
Pittsburgh		109.9	53	—	—	i 23 2	[- 5]	i 24 4	SKKS	—
Dehra Dun	N.	110.9	296	e 18 9	PP	i 33 0	SS	—	—	—
Kirkland Lake	z.	111.1	45	e 17 24 <sub>a</sub>	[- 2]	—	—	—	—	—
Poona	z.	111.8	282	e 17 28	[+ 1]	—	—	—	—	—
Washington	z.	111.9	55	e 27 5	SP	—	—	—	—	—
Semipalatinsk		112.4	317	i 17 26	[- 2]	—	—	—	—	—
Bombay	E.	112.8	282	e 18 29	PP	e 33 29	SS	i 31 8	?	—
Philadelphia		113.5	54	e 22 33	?	i 24 13	SKKS	e 28 22	PS	e 46.8
Ottawa		113.7	48	i 17 29k	[- 2]	23 21	[- 1]	18 34	PP	—
Palisades		114.6	53	e 18 36	PP	e 23 22	[- 3]	e 33 57	SS	e 45.3
Frunse		115.6	308	i 17 33	[- 1]	i 29 46	PPS	i 18 49	PP	—
Shawinigan Falls		115.9	47	i 17 33	[- 2]	—	—	—	—	—
Weston		116.6	52	17 35	[- 1]	23 29	[- 3]	i 14 36 <sub>a</sub>	pP	—
San Juan		117.2	79	i 17 36	[- 1]	i 23 30	[- 5]	e 18 55	PP	—
Seven Falls		117.2	47	i 17 30k	[- 7]	e 23 35	[ 0]	28 47	PS	—
Tashkent		119.4	306	i 17 41	[- 1]	e 19 16	PP	e 20 11	pP'	—
Stalinabad		119.6	303	17 41	[- 1]	26 27	SKKS	19 53	pP'	—

Continued on next page.

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1955

629

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Quetta	120.3	294	i 17	44k	[ 0]	e 23	49	[+ 4]	i 20	16	pP'	—
Grahamstown	120.9	205	i 17	34a	[-11]	—	—	—	—	—	—	—
Halifax	122.3	50	i 17	45a	[- 2]	24	43	SKKS	e 29	57	SPP	—
Pietermaritzburg	122.4	210	i 17	46k	[- 2]	—	—	—	—	—	—	—
Sverdlovsk	123.6	325	i 17	48	[- 2]	28	21	SKSP	i 19	40	PP	—
Kimberley	125.7	206	i 27	23	PKKP	—	—	—	—	—	—	—
Pretoria	126.8	211	i 18	26k	[+30]	—	—	—	e 27	29	PKKP	—
Ashkabad	127.8	302	i 17	58	[ 0]	i 21	23	PKS	i 20	11	PP	—
Scoresby Sund	128.4	10	i 17	57	[- 2]	i 21	23	PKS	e 32	8	PPS	—
Kiruna	131.3	350	i 17	50	[-15]	i 21	29	PKS	i 37	16	SS	—
Reykjavik	134.0	14	18	9a	[- 1]	—	—	—	—	—	—	—
Moscow	135.6	331	18	11	[- 2]	21	44	PKS	20	43	pP'	—
Pulkovo	135.7	339	e 18	10	[- 3]	e 24	14	[-12]	i 21	45	PKS	—
Goris	137.0	306	e 18	6	[- 9]	e 24	16	[-12]	e 18	15	?	—
Upsala	139.1	347	i 18	9	[-10]	e 38	42	SS	i 20	40	pP'	—
Aberdeen	143.5	3	i 18	25	[- 3]	e 44	49	SSS	i 22	27	PP	—
Simferopol	143.5	319	i 18	25	[- 3]	24	35	[- 3]	i 20	51	pP'	—
Copenhagen	144.0	349	i 18	26	[- 2]	39	47	SS	21	48	PP	—
Lwiro	144.4	233	i 18	28	[- 1]	—	—	—	—	—	—	—
Warsaw	144.9	338	i 18	28	[- 2]	e 22	21	?	e 22	1	PP	—
Lwow	145.6	333	i 18	29	[- 2]	i 24	43	[+ 2]	i 20	55	pP'	—
Iasi	145.9	327	e 18	26	[- 5]	e 24	35	[- 7]	e 20	54	pP'	—
Durham	146.0	3	i 18	33	[+ 2]	40	23	SS	—	—	—	—
Ksara	146.4	300	i 18	32	[ 0]	22	1	PP	20	59	pP'	—
Hamburg	146.5	350	i 18	31k	[- 1]	e 22	1	PP	20	57	pP'	—
Bacau	146.6	327	e 18	36	[+ 4]	e 20	38	?	e 21	6	pP'	—
Focsani	147.0	325	e 18	39	[+ 6]	—	—	—	e 21	13	pP'	—
Rathfarnham Castle	147.0	8	i 18	31k	[- 2]	e 40	9	SS	i 21	1	pP'	—
Krakow	147.1	337	i 18	34	[+ 1]	i 20	57	?	i 21	3	pP'	—
Jerusalem	147.4	297	i 18	31a	[- 3]	—	—	—	i 21	2	pP'	—
Raciborz	147.6	339	e 18	33a	[- 1]	i 18	51	PKP <sub>2</sub>	i 21	1	pP'	—
Witteveen	147.6	353	i 18	34k	[ 0]	—	—	—	i 21	3	pP'	—
Skalnate Pleso	147.7	336	i 18	36	[+ 2]	e 22	26	PP	i 21	2	pP'	—
Bucharest	148.5	324	e 18	39	[+ 4]	i 25	2	[+17]	i 21	26	pP <sub>2</sub> '	—
Campulung	148.5	326	e 18	36	[+ 1]	e 18	15	?	e 21	8	pP'	—
De Bilt	148.5	355	i 18	40k	[+ 5]	e 46	31	SSS	i 21	7	pP'	—
Istanbul	148.7	317	e 18	34k	[- 1]	e 32	32	PSKS	e 21	3	pP'	—
Jena	148.7	347	i 18	34	[- 1]	e 24	51	[+ 6]	i 21	7	pP'	—
Prague	148.8	343	i 18	35k	[- 1]	e 24	51	[+ 5]	i 21	3	pP'	—
Cheb	149.3	345	i 18	37	[+ 1]	e 32	40	SP	i 21	3	pP'	—
Kew	149.3	2	i 18	35	[- 1]	e 24	31	[-15]	i 21	9	pP'	—
Budapest	149.5	335	e 18	36	[ 0]	—	—	—	e 22	32	PP	—
Hurbanovo	149.5	337	i 18	38	[+ 2]	e 24	54	[+ 8]	i 20	56	pP'	—
Uccle	149.9	356	e 18	35	[- 2]	e 22	23	PP	e 21	3	pP'	—
Timisoara	150.0	331	i 18	19?	[-18]	—	—	—	—	—	—	—
Szeged	150.1	333	18	39	[+ 2]	24	21	[-26]	e 22	51	PP	—
Kalossa	150.3	334	e 18	40	[+ 2]	—	—	—	e 20	50	?	—
Belgrade	151.0	330	e 18	37a	[- 2]	e 29	29	SKKKS	e 21	53	PKS	—
Karlsruhe	151.1	350	i 18	39k	[ 0]	i 22	17	PKS	e 21	9	pP'	—
Sofia	151.1	324	e 18	38	[- 1]	i 18	48	?	e 19	32	?	—
Stuttgart	151.2	348	i 18	38k	[- 1]	e 28	19	SKKS	i 21	9	pP'	—
Basle	152.7	350	e 18	40k	[- 1]	e 22	4	PKS	e 21	11	pP'	—
Zürich	152.7	349	e 18	40k	[- 1]	e 19	1	PKP <sub>2</sub>	e 21	11	pP'	—
Chur	153.0	347	e 18	41k	[- 1]	—	—	—	e 21	11	pP'	—
Triest	153.0	340	i 18	40a	[- 2]	e 33	0	SP	e 21	11	pP'	—
Neuchatel	153.3	351	e 18	42	[ 0]	—	—	—	e 21	12	pP'	—
Athens	153.8	316	e 18	40k	[- 3]	i 22	49	PP	e 21	10	pP'	—
Salo	154.0	344	e 19	0k	[+17]	e 22	16	PKS	e 21	12	pP'	—
Oropa	154.5	348	e 19	5	[+21]	—	—	—	e 27	47	PKKP	—
Pavia	154.7	346	i 18	43k	[- 1]	e 31	33	PKKS	e 21	14	pP'	—

Continued on next page.

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1955

630

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Bologna	154.8	342	e 21 27	pP'	—	—	—	—
Florence	z. 155.4	342	i 18 42k	[- 3]	e 22 24	PKS	i 21 13	pP'
Taranto	155.9	328	—	—	e 25 21	[+ 27]	e 29 49	SKKP
Rome	z. 156.7	338	i 18 45k	[- 1]	e 22 22	PKS	i 21 14	pP'
Messina	158.5	327	i 18 47k	[- 2]	e 42 13	SS	i 21 19	pP'
Lisbon	160.1	24	i 18 50k	[ 0]	i 19 35	PKP <sub>2</sub>	21 21	pP'
Toledo	z. 160.4	11	e 18 50	[- 1]	i 23 22	PP	21 20	pP'
Granada	163.1	12	i 18 51	[- 2]	29 30	SKKS	27 18	PPP
Malaga	163.4	15	i 18 52	[- 2]	31 16	?	23 36	PP
Almeria	163.7	10	18 52	[- 2]	43 44	SS	23 28	PP

Oct. 21d. 20h. 55m. 17s. Epicentre 42°·6N. 47°·0E.

Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 20

Oct. 21d. 23h. 9m. 42s. Epicentre 0°·5S. 123°·4E.

A = -·5505, B = +·8348, C = -·0087;  $\delta = +2$ ;  $h = +7$ ;  
D = +·835, E = +·550; G = +·005, H = -·007, K = -1·000.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Manila	15.2	351	i 3 43	+ 5	—	—	—	—
Bandung	16.9	248	e 4 31	+32	e 7 49	+42	—	e 9.6
Baguio	17.1	351	e 3 41k	-21	i 7 7	- 5	—	—
Djakarta	17.5	251	e 4 3	- 4	e 7 18	- 3	—	e 8.6
Hengchun	22.6	354	5 0	- 3	9 17	+10	—	—
Tawu	22.9	354	5 6	0	9 17	+ 4	—	—
Taitung	23.3	355	5 11	+ 1	9 57	SS	—	—
Hsinkong	23.6	355	e 5 12	- 1	9 27	+ 2	—	—
Hong Kong	24.4	339	i 5 20 <sub>a</sub>	- 1	—	—	—	—
Hwalien	24.4	356	5 20	- 1	9 55	+16	—	—
Taipei	25.5	356	5 35	+ 3	10 15	+18	—	—
Rabaul	29.0	98	i 6 0	- 4	e 16 53	ScS	i 7 7	PPP
Z6-Sè	31.5	356	6 22	- 4	11 28	- 6	7 24	PP
Perth	32.0	192	i 6 45	+15	i 12 3	+21	i 13 40	SS
Nanking	32.7	353	6 34 <sub>a</sub>	- 2	e 11 53	+ 1	6 46	?
Sian	37.2	340	e 7 15	0	—	—	—	—
Linfen	38.1	344	e 7 26	+ 4	—	—	—	—
Brisbane	39.0	136	i 7 27	- 3	i 13 29	0	—	—
Matusiro	z. 39.4	19	i 7 28	- 5	13 21	-14	9 35	PcP
Shillong	40.0	313	e 7 36	- 2	i 13 56	+12	9 16	PP
Lanchow Univ.	40.8	335	e 7 46	+ 1	—	—	—	—
Tatung	41.5	348	e 7 52	+ 2	—	—	—	—
Melbourne	E. 42.1	154	i 7 53	- 2	e 14 19	+ 3	e 17 36	SS
Riverview	42.1	145	i 7 54k	- 1	i 14 17	+ 1	i 8 2	pP
Mizusawa	N. 42.7	20	e 8 11	+11	e 14 27	+ 3	—	e 19.8
Wuwei	42.8	336	e 7 49	-12	—	—	—	—
Bokaro	43.8	306	e 8 13	+ 4	i 14 39	- 1	9 53	PP
Madras	E. 44.9	289	i 8 22 <sub>a</sub>	+ 4	i 14 52	- 4	10 7	PP
Kodaikanal	E. 46.9	284	i 8 34	0	15 52	PPS	10 34	PP
Hyderabad	E. 47.7	294	e 8 49k	+ 9	i 15 38	+ 2	10 51	PP
Poona	52.2	294	e 9 13	- 2	e 16 24	-15	19 20	ScS
New Delhi	N. 52.8	307	e 9 19	0	i 16 31	-16	10 37	PcP
Dehra Dun	52.9	310	e 9 19	- 1	i 16 43	- 5	11 7	PP
Bombay	E. 53.3	294	e 9 24	+ 1	e 17 1	+ 7	11 33	PP
Onerahi	E. 58.8	132	e 10 4	+ 2	e 19 8	+61	—	—
Kaimata	N.E. 59.9	141	e 10 18	+ 8	—	—	—	—
Cobb River	E. 60.1	139	e 10 7	- 4	e 18 25	+ 1	e 20 6	ScS
Karapiro	N. 60.6	134	10 18	+ 3	e 18 26	- 4	—	—
Christchurch	61.2	141	e 10 21	+ 2	e 18 38	0	e 22 48	SS
Wellington	61.5	138	e 10 18	- 3	i 18 43	+ 1	—	e 25.3

Continued on next page.

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1955

631

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Quetta		61.7	305	e 10 15	- 7	i 18 38	- 6	e 39 41	P'P'
Tuai	N.	62.1	134	e 10 23	- 2	e 18 54	+ 5	—	—
Honolulu		79.5	68	e 12 15	+ 5	e 22 24	+13	—	e 37.4
Ksara		88.2	304	i 12 57	+ 3	23 21	[- 1]	22 39	?
Jerusalem		88.8	302	i 12 50	- 7	—	—	i 14 2	?
College		90.0	25	e 13 57	+54	e 23 24	[- 9]	e 25 21	PPS
Pietermaritzburg	Z.	92.4	240	e 12 54?	-20	—	—	—	—
Istanbul		93.6	311	e 13 16	- 3	e 23 51	[- 2]	e 17 8	PP
Iasi		94.4	317	e 13 31	+ 8	e 24 30	- 3	e 17 19	PP
Pretoria	Z.	94.5	244	e 13 56	+33	—	—	—	—
Lwiro		94.6	268	e 13 33?	+ 9	—	—	e 17 51	?
Grahamstown	Z.	95.4	237	i 13 18?	-10	—	—	—	—
Kiruna		95.4	338	e 13 22	- 6	e 31 8	SS	i 26 24	PPS
Bucharest		95.6	314	e 17 39	PP	i 24 6	[+ 2]	i 26 32	PPS
Kimberley	Z.	97.3	241	i 13 36	0	—	—	—	—
Athens		98.0	308	e 17 41	PP	—	—	i 17 47	?
Warsaw		98.0	323	e 17 51	PP	e 24 12	[- 5]	e 19 51	PPP
Upsala		98.4	331	e 13 43	+ 2	e 32 18?	SPS	i 17 42	PP
Raciborz		100.2	321	e 13 43	- 6	—	—	e 17 38	PP
Copenhagen		102.2	327	27 29	PS	25 40	+ 1	24 40	SKS
Prague		102.5	321	e 18 26	PP	e 24 42	[+ 3]	e 28 36	PPS
Resolute Bay		102.6	10	e 13 58	- 2	e 24 28	[-12]	e 18 31	PP
Taranto		102.6	311	—	—	e 37 18	SSS	—	—
Jena		104.0	323	e 14 12?	+ 6	e 24 38?	[- 8]	e 18 29	PP
Triest		104.0	317	e 18 43a	PP	e 24 47	[+ 1]	e 25 50	S
Hamburg		104.2	326	e 30 18	PKKP	—	—	—	—
Messina		104.3	309	e 16 48	?	e 24 50	[+ 3]	e 18 33	PP
Victoria		105.6	39	e 14 12	- 1	—	—	—	—
Rome		105.8	314	e 17 56	PKP	e 24 58	[+ 4]	33 13	SS
Florence		106.2	316	i 18 56	PP	e 27 54	PS	—	—
Stuttgart		106.2	321	e 17 49	PKP	e 24 48	[- 7]	e 18 53	PP
Seattle	Z.	106.6	40	e 17 38	?	—	—	e 18 50	PP
Pavia		107.3	318	e 18 39	PP	e 31 32	?	e 21 4	PPP
De Bilt		107.4	325	—	—	e 33 48	SS	—	—
Shasta		108.5	47	e 14 32	+ 6	—	—	e 19 1	PP
Aberdeen		108.9	332	i 28 30	PS	e 25 10	[+ 2]	e 34 18	SS
Mineral	Z.	109.2	47	e 18 34	[+ 2]	—	—	—	—
Berkeley		109.4	50	e 18 34	[+ 2]	e 28 24	PS	e 18 6	?
Santa Clara	E.	109.8	50	—	—	e 28 30	PS	—	—
Lick	Z.	110.0	50	e 14 35	+ 2	—	—	e 18 1	?
Kew		110.8	326	e 21 10	PPP	i 26 31	{+20}	i 28 34	PS
Reno	Z.	110.8	48	e 18 39	[+ 4]	—	—	e 19 15	PP
Hungry Horse		111.5	37	e 18 34	[- 2]	e 25 17	[- 1]	e 14 36	P
Fresno	Z.	111.6	50	e 18 51	[+15]	—	—	e 15 6	?
Woody	Z.	112.6	51	i 18 41	[+ 3]	i 19 24	PP	e 14 56	P
Tinemaha		112.7	50	e 18 41	[+ 3]	i 25 41	[+18]	i 19 34	PP
Isabella	Z.	112.9	51	e 19 39	PP	—	—	e 29 39	PKKP
Rathfarnham Castle		113.0	330	e 19 35a	PP	e 25 14	[-10]	e 33 48	PKKS
Butte	N.	113.4	39	e 18 42	[+ 2]	e 26 29	{ 0}	e 29 11	PS
China Lake	Z.	113.5	51	i 18 42	[+ 2]	i 25 33	[+ 7]	e 14 59	P
Eureka		113.6	47	i 18 40	[ 0]	—	—	i 19 48	PP
Mount Wilson	Z.	113.6	53	e 14 59	P	—	—	—	—
Pasadena		113.6	53	e 18 40	[ 0]	e 25 27	[ 0]	e 19 31	PP
Riverside		114.2	53	e 18 44	[+ 3]	e 25 32	[+ 3]	i 19 44	PP
Bozeman		114.5	39	e 18 45	[+ 3]	—	—	—	—
Palomar	Z.	114.8	53	e 18 46	[+ 3]	—	—	i 19 51	PP
Boulder City		115.6	50	e 19 2	[+18]	—	—	—	—
Salt Lake City		116.0	44	i 18 47	[+ 2]	—	—	i 19 55	PP
Toledo		118.3	316	19 54	PP	—	—	—	64.8
Almeria		118.4	312	18 45	[- 5]	36 15	SS	20 3	PP
Malaga		119.9	313	e 20 17	PP	—	—	—	58.6
Tucson		120.0	53	e 18 53	[ 0]	e 30 7	PS	—	—
Kirkland Lake	Z.	128.4	20	e 19 15k	[+ 6]	e 32 33	PPS	—	e 47.4
Fayetteville		130.3	40	i 19 14	[+ 1]	e 22 28	PKS	e 21 24	PP
Dallas		130.4	46	i 19 15	[+ 2]	—	—	—	—

Continued on next page.

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

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1955

632

	$\Delta$ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.	
Seven Falls	132.0	13	e 19	4	[-12]	i 22	38	PKS	e 39	23	SS	—
Shawinigan Falls	132.0	15	i 19	16k	[0]	i 22	39	PKS	—	—	—	—
Ottawa	132.2	18	e 19	14	[-2]	22	34	PKS	19	45	pP'	—
Buffalo (Larkin)	133.4	22	i 19	17	[-1]	i 22	38	PKS	—	—	—	—
Cleveland	133.4	26	e 19	18a	[0]	i 22	47	PKS	e 33	0	PKKS	—
Tacubaya	134.2	63	i 22	5	PP	e 23	6	PKS	—	—	—	—
Pittsburgh	z. 135.0	25	i 19	22	[+1]	i 22	52	PKS	—	—	—	—
Morgantown	135.6	26	e 19	24	[+2]	i 22	45	PKS	—	—	—	—
Halifax	135.7	7	e 19	22	[-1]	e 22	50	PKS	—	—	—	e 56.3
Weston	136.3	16	e 19	16	[-8]	26	23	[-10]	22	57	PKS	e 55.4
Palisades	136.8	19	e 19	24	[-1]	e 26	19	[-15]	e 22	17	PP	e 65.8
Washington	137.5	24	i 19	30	[+4]	i 23	4	PKS	—	—	—	e 71.1
Chapel Hill	139.1	28	e 19	22	[-7]	—	—	—	—	—	—	—
Columbia	139.6	32	e 19	24	[-6]	i 23	5	PKS	i 19	31	PKP	—
Merida	141.9	56	e 21	44	?	—	—	—	—	—	—	—
La Plata	144.7	178	—	—	—	42	0	SS	—	—	—	69.2
Huancayo	157.6	124	e 20	1	[+3]	e 38	54	?	e 48	56	?	—
Galerazamba	158.8	61	e 20	11	[+12]	i 27	0	[-3]	i 24	23	PP	74.3
La Paz	159.6	147	i 20	3	[+3]	i 31	18	{+8}	i 24	23	PP	77.8
San Juan	160.0	27	e 20	1	[0]	e 31	44	{+32}	e 24	27	PP	e 67.8
Chinchina	160.5	77	i 29	58	?	i 31	18	{+3}	i 34	38	PSKS	75.3
Bogota	162.1	77	e 20	6	[+3]	i 31	27	{+3}	i 20	55	PKP <sub>2</sub>	84.3

Oct. 22d. 7h. 0m. 0s. Epicentre 36°·5N. 140°·7E. Depth 40-60km.  
Intensity IV at Tukumasan; II-III at Mito, Kakioka, Utunomiya, and Tokyo.  
Seismo. Bull. Cent. Met. Obs., Japan, for Oct., 1955, Tokyo, 1956, p. 32, with macro-seismic chart.

Oct. 22d. 22h. 6m. 57s. Epicentre 6°·1S. 148°·3E.

A = -·8461, B = +·5225, C = -·1055;  $\delta = +2$ ;  $h = +7$ ;  
D = +·525, E = +·851; G = +·090, H = -·055, K = -·994.

	$\Delta$ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.	
Rabaul	4.3	64	i 1	2	-6	i 1	56	-4	—	—	—	
Brisbane	21.7	168	i 4	56	+1	i 8	59	+8	—	—	—	
Riverview	27.7	175	i 5	56a	+4	i 10	41	+8	i 11	55	SS	e 13.4
Melbourne	e. 31.7	185	i 6	28	+1	—	—	—	—	—	—	
Baguio	35.4	310	i 7	1a	+1	i 12	35	+1	—	—	—	
Perth	z. 39.7	226	—	—	—	i 16	16	SS	i 18	10	?	i 19.2
Karapiro	N. 40.2	146	e 7	38	-2	—	—	—	—	—	—	—
Lembang	z. 40.4	267	e 7	35	-6	—	—	—	—	—	—	—
Tuai	N. 41.7	146	9	8	PP	—	—	—	—	—	—	—
Wellington	42.3	150	e 7	53k	-4	e 17	9	SS	i 17	43	ScS	e 18.0
Christchurch	43.0	154	—	—	—	14	3?	-26	(e 18	3?)	SSS	e 18.0
Matusiro	43.5	348	i 8	5k	-2	14	36	0	(17	55)	SS	17.9
Hong Kong	43.7	311	e 8	10?	+2	e 14	43?	+4	—	—	—	—
Z6-S6	45.2	327	e 8	20	0	e 14	59	-2	—	—	—	—
Nanking	47.2	325	8	37k	+1	e 15	32	+3	—	—	—	—
Peking	54.6	330	9	30	-2	e 17	11	0	—	—	—	—
Shillong	z. 63.2	302	10	31a	-1	—	—	—	—	—	—	—
Quetta	85.6	301	e 12	24	-17	e 23	3	[-2]	e 24	5	PS	—
Shasta	z. 93.4	50	e 13	17	-1	—	—	—	—	—	—	—
Fresno	z. 95.2	54	e 13	27	0	—	—	—	—	—	—	—
Woody	z. 95.8	55	e 13	30	+1	—	—	—	i 17	2	PP	—
Mount Wilson	z. 96.4	56	e 13	29	-3	—	—	—	—	—	—	—
Tinemaha	z. 96.4	54	e 13	37	+5	—	—	—	—	—	—	—
China Lake	z. 96.9	55	e 13	35	+1	—	—	—	i 17	8	PP	—
Riverside	z. 97.0	57	e 13	33	-2	—	—	—	e 16	33	?	—
Eureka	98.3	51	e 13	38	-3	—	—	—	—	—	—	—
Hungry Horse	99.6	42	e 13	53	+7	—	—	—	—	—	—	—
Resolute Bay	102.8	14	e 24	28	?	e 27	10	PS	e 33	6	SS	e 48.6
Ksara	112.0	304	e 18	31	[-6]	—	—	—	e 31	51	?	—
Copenhagen	119.4	333	20	17	PP	—	—	—	22	47	PPP	55.0

Continued on next page.

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

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1955

633

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Triest	124.4	323	e 18 39	[-22]	e 32 56	?	e 28 36 PKKP	—
De Bilt	125.0	333	—	—	e 38 3?	PSS	—	e 58.0
Messina	E. 126.6	314	e 31 12	PS	e 28 22	SKKKS	e 43 8 SSS	—
Florence	E. 126.8	322	e 24 19	PPP	e 32 41	PPS	e 29 8 ?	—
Rome	127.0	319	e 20 42	PP	e 26 41	[+29]	e 32 37 PPS	e 58.0
Huancayo	133.0	113	e 19 25	[+7]	—	—	—	—
St. Vincent	150.1	74	e 19 53?	[+5]	—	—	—	—

Oct. 23d. 3h. 47m. 8s. Epicentre 36°·7N. 141°·0E. Depth about 70km.  
Intensity IV at Mito; II-III at Onahama, Kakioka, Utunomiya, and Tsubasan.  
Seismo. Bull. Cent. Met. Obs., Japan, for Oct., 1955, Tokyo, 1956, p. 33, with macro-seismic chart.

Oct. 23d. 17h. 38m. 24s. Epicentre 39°·0N. 69°·8E.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 50.

Oct. 24d. 4h. 10m. 40s. Epicentre 37°·8N. 122°·1W.

A = -·4210, B = -·6711, C = +·6103;  $\delta = +8$ ;  $h = -1$ ;  
D = -·847, E = +·531; G = -·324, H = -·517, K = -·792.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Berkeley	0.1	246	i 0 8 <sub>a</sub>	0	—	—	—	—
San Francisco	N. 0.2	257	i 0 10	0	—	—	—	—
Branner	Z. 0.4	185	i 0 15	+ 2	—	—	—	—
Santa Clara	0.5	162	i 0 15	+ 1	—	—	—	—
Lick	Z. 0.6	141	i 0 17 <sub>a</sub>	+ 2	—	—	—	—
Ukiah	1.6	327	e 0 26	- 4	i 0 44	- 7	(i 0 53) S	i 0.9
Fresno	2.1	119	i 0 38	+ 1	i 1 4	0	—	—
Reno	Z. 2.5	46	i 0 42 <sub>a</sub>	- 1	—	—	—	—
Mineral	2.6	9	0 40 <sub>k</sub>	- 4	i 1 15	- 2	i 0 54 PP	—
Shasta	Z. 2.9	356	i 0 44 <sub>a</sub>	- 4	—	—	i 0 48 P	—
Ferndale	E. 3.2	330	—	—	e 1 20	-12	—	—
Tinemaha	3.2	103	i 0 54 <sub>a</sub>	+ 2	i 1 32	0	—	—
Arcata	E. 3.4	334	e 0 55	0	e 1 27	-10	e 1 3 PP	—
Woody	Z. 3.4	128	i 1 5	PP	—	—	—	—
Isabella	3.7	126	i 1 0 <sub>a</sub>	0	—	—	—	—
Haiwee	3.8	115	i 1 1	0	i 1 56	- 1*	—	—
Santa Barbara	Z. 3.9	149	i 1 3	+ 1	i 1 44	- 6	—	—
Fort Tejon	Z. 4.0	137	i 1 4	0	—	—	—	—
China Lake	4.2	117	i 1 6 <sub>a</sub>	- 1	—	—	—	—
Mount Wilson	Z. 4.9	136	i 1 14 <sub>k</sub>	- 3	i 2 15	0	i 1 25 PP	—
Pasadena	Z. 4.9	138	e 1 16	- 1	—	—	—	—
Eureka	5.1	69	i 1 17	- 3	—	—	—	—
Boulder City	6.1	105	e 1 6	-28	(i 2 46)	+ 1	e 1 48 PPP	i 2.8
Corvallis	Z. 6.8	353	e 1 45	+ 1	—	—	—	e 3.5
Salt Lake City	8.5	67	e 2 7	0	e 3 45	0	i 2 18 PP	i 4.2
Seattle	9.8	359	e 2 29	+ 5	i 4 29	+12	e 3 0 ?	5.7
Butte	N. 10.8	38	e 2 45	+ 6	e 4 23	-19	—	e 5.5
Tucson	10.8	118	e 2 37	- 2	e 4 38	- 4	i 2 45 PP	i 5.7
Bozeman	11.4	43	e 2 51	+ 4	—	—	i 3 27 ?	e 5.7
Horseshoe Bay	11.6	356	2 58	+ 8	—	—	—	—
Hungry Horse	12.1	27	i 2 58	+ 1	—	—	—	e 6.4
Rapid City	E. 15.6	60	e 3 41	- 2	—	—	e 4 39 ?	e 7.2
Lubbock	17.0	98	4 3	+ 2	—	—	—	—
Dallas	21.2	96	i 4 49	0	—	—	—	—
Fayetteville	22.4	86	i 5 1	- 1	e 11 55	L	—	(e 11.9)
Terre Haute	27.1	76	i 5 35	-11	i 10 48	+24	—	—
College	31.0	339	e 6 21	0	—	—	—	—
Morgantown	32.8	74	i 6 37	0	—	—	—	—
Comitan	34.1	121	e 9 58	?	e 12 14	0	—	—
Ottawa	35.1	62	e 6 51	- 6	—	—	—	18.3
Resolute Bay	39.1	11	e 7 29	- 2	e 12 38	-53	—	e 20.1
Huancayo	66.2	129	i 10 49	- 3	—	—	—	—
La Paz	N. 74.1	126	e 11 44	+ 4	—	—	—	—
Matusiro	Z. 75.3	305	e 11 36	-11	—	—	—	—

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1955

634

Oct. 24d. 5h. 3m. 35s. Epicentre 30°·2S. 179°·3W.

A = -·8657, B = -·0106, C = -·5005;  $\delta = +5$ ;  $h = +2$ ;  
D = -·012, E = +1·000; G = +·500, H = +·006, K = -·866.

		$\Delta$		P.		O-C.	S.		O-C.	Supp.	
		°	°	m.	s.	s.	m.	s.	s.	m.	s.
Onerahi	E.	7·7	222	i 2	14	0*	i 3	35	+10	—	—
Tuai	N.	9·1	198	e 2	25	+11	e 3	49	-11	—	—
New Plymouth	E.	10·4	210	e 2	45	+11	i 4	27	-5	—	—
Wellington		12·1	202	e 2	56	-1	e 4	51	-23	—	—
Cobb River	E.	12·7	208	e 3	2	-3	e 5	2	-26	—	—
Kaimata	N.E.	14·4	209	e 3	24	-3	5	37	-32	—	—
Apia		17·7	25	e 4	35	+25	e 7	47	+21	—	—
Brisbane		24·4	269	i 5	21	0	—	—	—	—	—
Riverview		25·3	254	i 5	26 <sub>a</sub>	-4	e 9	54	0	i 10	15
Matusiro	Z.	77·4	326	i 11	57 <sub>k</sub>	-1	—	—	—	—	—
Lick	Z.	86·1	42	i 12	45	+1	—	—	—	—	—
Berkeley	Z.	86·2	42	i 12	46	+2	—	—	—	—	—
Mount Wilson	Z.	86·2	47	i 12	46 <sub>k</sub>	+2	—	—	—	i 13	3
Palomar	Z.	86·5	48	i 12	47 <sub>k</sub>	+1	—	—	—	i 12	56
Riverside	Z.	86·5	47	i 12	47 <sub>k</sub>	+1	—	—	—	—	PcP
Woody	Z.	86·7	45	i 12	48 <sub>k</sub>	+1	—	—	—	—	—
Fresno	Z.	86·8	44	e 12	49	+2	—	—	—	—	—
Isabella	Z.	86·9	45	i 12	49 <sub>k</sub>	+1	—	—	—	—	—
China Lake	Z.	87·6	46	i 12	53 <sub>k</sub>	+2	—	—	—	—	—
Shasta	Z.	88·0	40	e 12	53	0	—	—	—	—	—
Tinemaha	Z.	88·0	44	i 12	54	+1	—	—	—	—	—
Mineral	Z.	88·2	40	e 12	54	0	—	—	—	—	—
Reno	Z.	88·7	42	e 12	57	0	—	—	—	—	—
Eureka		90·9	44	i 13	7	0	—	—	—	—	—
Salt Lake City		94·2	45	e 13	20	-2	—	—	—	—	—
Huancayo		95·8	107	i 13	27	-2	—	—	—	—	—
Hungry Horse		97·5	38	e 17	43	PP	—	—	—	—	—
College		97·8	13	e 13	38	0	—	—	—	—	—
La Paz		99·1	115	e 18	25?	PKP	—	—	—	—	—
Kirkland Lake	Z.	117·7	48	e 18	42 <sub>a</sub>	[-6]	—	—	—	—	—
Ottawa		119·9	52	i 18	46 <sub>a</sub>	[-7]	—	—	—	21	46
Quetta	Z.	123·5	288	i 18	52 <sub>a</sub>	[-7]	—	—	—	—	—
Seven Falls		123·6	51	i 18	48 <sub>k</sub>	[-12]	—	—	—	—	—
Lwiro		138·1	225	e 22	14	PP	—	—	—	—	—
Reykjavik	Z.	143·1	16	i 19	30	[-6]	—	—	—	—	—
Upsala	Z.	148·2	344	i 19	41	[-4]	—	—	—	i 19	48
Jena	Z.	157·7	342	e 20	28	PKP <sub>2</sub>	—	—	—	—	—
Stuttgart		160·3	343	e 19	53	[-8]	—	—	—	e 20	40

Oct. 24d. 20h. 10m. 34s. Epicentre 38°·5N. 21°·1E.

Felt in Aetolia (Intensity V at Agrinion, Vonitsa, Astakos, Amphiloehia, Agelokastron, Stamna, and Paravola; IV+ at Mytikas, Aetolikon, and Katouna; IV at Thermon, Makrinou, and Katochi; III at Messolonghi, Neochori, and Naupactos, in Preveza (IV+ at Preveza; IV at Neo Philipias), in Arta IV, in Achaia (III at Patras), in Corinthia (III at Corinth), and on Leukas (III at Leukas). Not felt at Tannia, Lamia, or Karpenission. Area of felt shaking 100,000km.<sub>2</sub>

Greek Seismo. Institute Bull., No. 6, for 1955, Athens, 1956, p. 61.

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

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1955

685

Oct. 25d. 16h. 34m. 20s. Epicentre 16°·0N. 95°·7W.

A = -·0955, B = -·9570, C = +·2739;  $\delta = -1$ ;  $h = +6$ ;  
D = -·995, E = +·099; G = -·027, H = -·273, K = -·962.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Oaxaca	1·5	316	i 0 29 <sub>a</sub>	+ 1	i 0 47	- 2	—	—
Vera Cruz	3·3	352	i 0 51 <sub>k</sub>	- 2	1 27	- 8	i 1 42	S
Puebla	3·9	322	e 1 1	- 1	(1 54)	+ 4	—	—
Tacubaya	4·8	316	i 1 15 <sub>k</sub>	0	i 2 13	+ 1	—	—
Merida	7·6	48	i 1 54 <sub>k</sub>	- 1	i 3 21	- 2	—	—
Guadalajara	8·7	304	—	—	e 3 20	-30	—	—
Manzanillo	8·8	292	e 2 17	+ 6	4 5	+12	—	—
Chihuahua	15·9	324	e 3 44	- 3	—	—	—	—
Dallas	16·9	357	e 4 0	+ 1	e 7 9	+ 2	—	—
Lubbock	18·4	344	4 22	+ 4	—	—	—	—
Fayetteville	20·1	4	i 4 38	0	e 8 41	SS	—	—
Galerazamba	20·5	102	—	—	i 8 17	-10	i 8 51	SS
Tucson	21·3	322	i 4 50	0	e 8 55	+12	e 6 29	?
Columbia	22·3	34	e 5 19	+18	i 9 16	+14	—	—
Chinchina	22·5	117	i 5 6	+ 4	i 9 18	+13	i 16 23	ScS
Bogota	24·0	116	i 5 20	+ 3	i 9 40	+ 8	5 49	PP
Lincoln	24·8	358	—	—	e 9 57	+11	—	—
Barratt	25·3	315	i 5 30 <sub>a</sub>	0	—	—	—	—
Boulder	25·4	343	e 5 32	+ 1	—	—	—	—
Palomar	25·8	316	i 5 34 <sub>a</sub>	0	—	—	—	—
Boulder City	26·3	323	e 5 40	+ 1	—	—	—	—
Riverside	26·6	317	i 5 40 <sub>a</sub>	- 2	—	—	—	—
Chicago	26·7	14	e 5 41	- 2	e 10 19	+ 2	—	—
Pasadena	27·2	316	i 5 46 <sub>a</sub>	- 1	e 10 32	+ 7	e 9 36	?
China Lake	27·8	319	i 5 53 <sub>a</sub>	0	—	—	—	—
Cleveland	28·2	23	i 5 56	0	e 10 51	+10	—	—
Isabella	28·3	318	i 5 56 <sub>a</sub>	- 1	—	—	—	—
Salt Lake City	28·4	334	e 6 0	+ 2	e 9 56	-49	—	—
Woody	28·6	318	i 5 58 <sub>a</sub>	- 2	—	—	—	—
Rapid City	28·8	349	e 7 5	PPP	e 11 1	+10	—	—
Tinemaha	29·0	321	i 6 4 <sub>a</sub>	0	—	—	—	—
Eureka	29·4	327	i 6 8	+ 1	—	—	—	—
Fresno	29·8	319	e 6 10	- 1	—	—	—	—
Philadelphia	29·8	33	e 7 0	PP	e 12 8	+61	—	—
Lick	31·3	318	e 6 24	0	—	—	i 16 41	ScS
Palisades	31·3	33	—	—	e 13 34	SSS	i 16 48	ScS
Reno	31·6	323	i 6 27	+ 1	—	—	—	—
Berkeley	32·0	318	e 6 30	0	e 11 48	+ 6	e 14 28	?
Bozeman	32·3	340	e 6 33	0	e 11 55	+ 9	e 7 8	?
Butte	33·2	338	e 6 42	+ 2	e 12 12	+12	—	—
Mineral	33·2	322	e 6 41	+ 1	—	—	—	—
Ottawa	33·8	26	i 6 46 <sub>a</sub>	0	12 20	+10	—	—
Shasta	33·8	322	e 6 44	- 2	—	—	—	—
Huancayo	34·3	143	e 6 48	- 2	e 12 21	+ 4	e 14 12	SS
Kirkland Lake	34·6	18	i 6 54 <sub>a</sub>	+ 1	—	—	—	—
Hungry Horse	35·7	339	i 7 2	0	—	—	—	—
Shawinigan Falls	36·0	27	i 7 6 <sub>k</sub>	+ 1	—	—	—	—
Saskatoon	37·1	349	—	—	e 13 23	PcS	—	—
Banff	38·6	340	7 15	-11	—	—	—	—
La Paz	42·2	139	i 7 52	- 4	17 26	SS	9 52	PcP
Resolute Bay	58·7	0	e 10 1	- 1	e 18 8	+ 2	—	—
College	60·1	337	i 10 9	- 2	e 18 31	+ 7	i 10 54	PcP
Rathfarnham C.	77·0	38	i 11 48	- 8	—	—	i 12 22	PcP
Kew	81·0	39	e 12 20	+ 2	e 22 31	+ 4	e 23 5	PS
Malaga	81·6	54	i 12 22 <sub>k</sub>	+ 1	e 22 32	- 1	—	—
Granada	82·2	54	i 12 32 <sub>a</sub>	+ 8	22 38	- 1	12 50	?
Uccle	84·0	39	e 12 34	+ 1	e 22 58	+ 1	—	—
De Bilt	84·1	38	e 12 36	+ 2	e 23 4	+ 6	e 12 46	PcP
Alicante	84·2	52	12 33	- 1	22 55	- 4	—	—
Stuttgart	87·6	40	e 12 51	0	e 23 22	[+ 4]	e 16 16	PP
Ksara	112·3	42	19 23	PP	—	—	29 22	PKKP
Quetta	131·2	20	e 19 15	[+ 1]	e 26 2	[-21]	i 22 42	PKS

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1955

636

Oct. 25d. 22h. 1m. 27s. Epicentre  $33^{\circ}7'N$ ,  $134^{\circ}4'E$ .  
Intensity IV at Matunaga ; II-III at Tokusima, Takamatu, Sumoto, and Okayama.  
Seismo. Bull. Cent. Met. Obs., Japan, for Oct., 1955, Tokyo, 1956, p. 34, with macroseismic chart.

Oct. 26d. 8h. 15m. Epicentre  $22^{\circ}8'N$ ,  $121^{\circ}E$ .  
Intensity V at Taitung ; IV at Hsinkong ; II-III at Alishan and Taichung.  
Seismo. Bull. of the Taiwan Weather Bureau for Oct.-Dec., 1955, Vol. 2, No. 4, Taiwan, China, p. 11.

Oct. 26d. 11h. 12m. } Epicentre  $23^{\circ}9'N$ ,  $122^{\circ}3'E$ .  
and 11h. 15m. }  
Intensity, for first shock, IV at Hwalien, Ilan, and Taipei ; II-III at Hsinkong, Hsinchu, and Taichung. Second shock II-III at Ilan Hwalien, Hsingkong, Taipei, and Taichung.  
*Loc. cit.*, 8h., pp. 11, 12.

Oct. 27d. 12h. 26m. Epicentre  $24^{\circ}1'N$ ,  $122^{\circ}9'E$ .  
Intensity II-III at Taipei.  
*Loc. cit.*, 11h., p. 12.

Oct. 28d. 9h. 29m. 35s. Epicentre  $41^{\circ}0'N$ ,  $141^{\circ}8'E$ . Depth 70-80km.  
Intensity IV at Hatinohe ; II-III at Aomori, Miyako, and Tanabe.  
Seismo. Bull. Cent. Met. Obs., Japan, for Oct., 1955, Tokyo, 1956, p. 35, with macroseismic chart.

Oct. 30d. 2h. 1m. 44s. Epicentre  $30^{\circ}1'S$ ,  $177^{\circ}2'W$ .

$$A = -.8656, B = -.0423, C = -.4990 ; \quad \delta = +5 ; \quad h = +2 ;$$

$$D = -.049, E = +.999 ; \quad G = +.498, H = +.024, K = -.867.$$

		$\Delta$	Az.	P.		O - C.	S.		O - C.	Supp.	
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.
Onerahi	E.	9.0	230	i 2	21	+ 8	e 3	55	- 3	—	—
Karapiro	N.	9.8	216	e 2	32	+ 8	i 4	13	- 4	—	—
Tuai	N.	9.8	207	e 2	30	+ 6	e 4	8	- 9	—	—
New Plymouth	E.	11.4	217	2	53	+ 6	4	44	-12	—	—
Wellington		12.9	208	e 3	3	- 4	5	8	-25	—	—
Cobb River	E.	13.6	214	e 3	13	- 4	e 5	22	-28	—	—
Kaimata	N.E.	15.4	213	e 3	36	- 4	e 5	57	-35	—	—
Christchurch		15.6	208	e 3	40	- 3	e 6	10	-27	—	—
Apia		17.0	18	e 4	20	+19	e 7	27	+17	—	—
Brisbane		26.2	268	i 5	22	-16	e 10	10	+ 1	—	—
Matusiro	Z.	78.4	325	i 11	53 <sub>a</sub>	-11	—	—	—	—	—
Barratt	Z.	84.8	48	i 12	39 <sub>k</sub>	+ 2	—	—	—	—	—
Pasadena		84.8	46	i 12	38 <sub>k</sub>	+ 1	—	—	—	e 12	45
Berkeley	Z.	84.9	41	i 12	39	+ 1	—	—	—	—	PcP
Lick	Z.	84.9	41	i 12	38	0	—	—	—	i 12	50
Palomar	Z.	85.1	47	i 12	40 <sub>k</sub>	+ 1	—	—	—	—	—
Riverside	Z.	85.2	46	i 12	40 <sub>k</sub>	+ 1	—	—	—	—	—
Woody	Z.	85.4	44	i 12	41 <sub>k</sub>	+ 1	—	—	—	i 12	45
Fresno	Z.	85.6	43	e 12	41	0	—	—	—	—	PcP
Isabella	Z.	85.6	44	i 12	43 <sub>k</sub>	+ 2	—	—	—	—	—
China Lake	Z.	86.2	45	i 12	45 <sub>k</sub>	+ 1	i 13	22	?	i 14	7
Shasta	Z.	86.8	38	e 12	47	0	—	—	—	—	—
Mineral	Z.	87.0	39	i 12	48	0	—	—	—	—	—
Reno	Z.	87.4	41	i 12	51	+ 1	—	—	—	—	—
Tucson		88.3	51	i 12	57	+ 2	—	—	—	—	—
Eureka		89.6	43	i 13	0	- 1	—	—	—	—	—
Salt Lake City		92.9	44	e 13	17	+ 1	—	—	—	—	—
Bozeman		96.3	40	e 17	32	PP	—	—	—	—	—
Hungry Horse		96.4	37	e 17	31	PP	—	—	—	—	—
College		97.4	12	e 13	29	- 8	—	—	—	—	—

Continued on next page.

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1955

687

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.
Ottawa	118.4	52	e 18 43 <sub>a</sub>	[- 7]	—	—	—
Seven Falls	122.1	51	e 18 44 <sub>a</sub>	[- 13]	—	—	—
Quetta	z. 125.2	287	e 18 51	[- 12]	—	—	—
Kiruna	z. 140.9	350	i 19 15	[- 17]	—	—	—
Upsala	z. 148.6	346	i 19 38	[- 7]	—	—	i 19 42 PKP <sub>2</sub>
Jerusalem	152.2	282	i 19 55	[+ 4]	—	—	i 21 9 ?
Rathfarnham C.	z. 155.9	14	i 18 30	?	—	—	i 29 7 ?
Collmberg	z. 157.5	343	e 19 59	[+ 1]	—	—	e 20 21 PKP <sub>2</sub>
Prague	N. 158.2	340	i 20 24	PKP <sub>2</sub>	—	—	i 20 50 ?
Stuttgart	160.8	347	e 19 52	[- 10]	—	—	e 20 35 PKP <sub>2</sub>

Oct. 30d. 13h. 47m. 43s. Epicentre 39°·2N. 71°·0E.

Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 51.

Oct. 30d. 19h. 20m. 46s. Epicentre 21°·0S. 178°·9W. Depth of focus 0·090.

A = -·9342, B = -·0179, C = -·3563;  $\delta = 0$ ;  $h = +4$ ;  
D = -·019, E = +1·000; G = +·356, H = +·007, K = -·934.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Apia	9.8	45	e 2 17	0	i 4 5	- 2	—	—
Onerahi	E. 15.9	200	i 3 20	+ 3	i 6 4	+ 9	—	—
Karapiro	N. 17.6	195	i 3 34	+ 1	e 6 35	+ 11	—	—
Tuai	N. 18.1	190	e 3 35	- 2	e 6 26	- 6	—	—
New Plymouth	E. 19.0	197	e 3 50	+ 4	—	—	—	—
Wellington	21.0	193	i 4 2	- 2	e 7 14	- 6	—	—
Cobb River	E. 21.3	198	e 4 6	- 1	e 7 20	- 5	—	—
Kaimata	N.E. 23.0	198	4 20	- 2	7 45	- 7	—	—
Christchurch	23.6	196	e 4 14?	- 13	—	—	—	—
Brisbane	26.4	250	i 4 53	+ 1	i 8 44	- 1	—	—
Riverview	29.4	238	i 5 21k	+ 3	i 9 30	- 2	i 14 48	ScS
Rabaul	z. 32.7	297	i 5 44	- 2	i 15 3	ScS	i 8 13	PcP
Baguio	70.0	297	i 10 5	- 9	—	—	—	—
Matusiro	z. 70.1	324	i 10 13k	- 1	—	—	i 11 47	?
Lembang	z. 72.2	269	e 10 21	- 5	—	—	—	—
Hong Kong	z. 78.2	300	11 0k	+ 1	—	—	—	—
Berkeley	z. 79.1	42	i 11 5	+ 1	—	—	—	—
Lick	z. 79.2	43	i 11 6	+ 1	—	—	—	—
Nanking	79.6	310	11 7	0	—	—	—	—
Pasadena	79.6	47	i 11 7k	0	i 11 12	PcP	e 13 23	pP
Barratt	z. 79.9	49	i 11 9k	+ 1	—	—	—	—
Fresno	z. 80.0	44	i 11 10	+ 1	—	—	e 13 22	pP
Woody	z. 80.0	46	i 11 9k	0	i 11 19	PcP	i 13 21	pP
Palomar	z. 80.1	49	i 11 11k	+ 2	—	—	e 13 23	pP
Riverside	z. 80.1	48	i 11 9k	0	i 11 14	PcP	e 13 17	pP
Shasta	z. 80.7	40	e 11 13	+ 1	—	—	e 13 25	pP
China Lake	z. 80.9	46	i 11 14	+ 1	i 14 12	sP	i 13 27	pP
Mineral	z. 81.0	41	e 11 14	0	—	—	e 11 28	PcP
Reno	z. 81.6	42	i 11 19	+ 2	—	—	—	—
Changchun	82.2	323	e 11 32	+ 12	—	—	—	—
Tucson	83.9	52	i 11 30	+ 2	—	—	e 13 42	pP
Eureka	84.0	44	i 11 29	0	e 20 40	- 23	e 13 43	pP
Salt Lake City	87.4	44	e 11 46	+ 1	—	—	—	—
Sian	87.8	308	e 11 51	+ 4	—	—	—	—
College	88.8	13	i 11 49	- 3	—	—	i 14 5	pP
Butte	N. 89.6	40	e 11 56	0	—	—	i 14 16	pP
Hungry Horse	90.0	37	i 11 57	0	e 15 41	PP	e 14 21	pP
Bozeman	90.4	40	e 12 0	+ 1	—	—	—	—
Boulder	91.4	48	i 12 5	+ 1	—	—	—	—
Ottawa	113.7	48	i 17 31	[ 0]	—	—	—	—

Continued on next page.

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1955

638

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Seven Falls	117.2	47	e 17 32k	[- 5]	—	—	—	—
Quetta	z. 120.6	293	i 17 45k	[+ 1]	—	—	—	—
Kiruna	z. 131.6	350	i 18 3	[- 2]	i 20 35	SKP	i 18 13	?
Upsala	z. 139.4	347	i 18 11	[- 9]	i 20 58	SKP	—	—
Lwiro	144.4	233	i 18 31	[+ 2]	—	—	e 19 20	?
Warsaw	z. 145.2	338	i 18 32	[+ 2]	—	—	—	—
Iasi	146.2	327	e 18 35	[+ 3]	—	—	—	—
Hamburg	z. 146.7	350	i 18 34	[+ 2]	—	—	i 18 37	PKP <sub>1</sub>
Ksara	146.7	300	i 18 36	[+ 4]	e 22 4	PKS	—	—
Rathfarnham C.	z. 147.2	8	i 18 34k	[+ 1]	e 22 6	PP	e 20 52	pPKP
Jerusalem	147.7	297	i 18 35	[+ 1]	—	—	i 18 39	PKP <sub>1</sub>
Witteveen	z. 147.9	354	i 18 39k	[+ 5]	—	—	—	—
Raciborz	148.0	339	e 18 42	[+ 8]	—	—	e 21 26	pPKP
Collmborg	z. 148.3	346	e 18 35	[ 0]	i 18 39	PKP <sub>2</sub>	e 21 3	pP'
Istanbul	z. 149.0	316	e 18 40	[+ 4]	e 22 16	PKS	—	—
Jena	149.0	347	i 18 35	[- 1]	—	—	e 21 4	pPKP
Prague	149.1	343	e 18 38	[+ 2]	e 24 45	[- 1]	e 20 35	pPKP
Uccle	150.1	356	i 18 44	[+ 7]	—	—	i 18 52	PKP <sub>2</sub>
Karlsruhe	z. 151.4	350	e 18 40	[+ 1]	i 18 48	PKP <sub>2</sub>	e 18 59	?
Stuttgart	z. 151.5	349	i 18 40k	[+ 1]	i 18 48	PKP <sub>2</sub>	e 18 58	?
Basle	153.0	350	e 18 50	[+ 8]	—	—	e 19 5	PKP <sub>2</sub>
Zürich	153.0	349	e 18 44	[+ 2]	—	—	—	— e 78.8

Oct. 31d. 1h. 5m. 52s. Epicentre 51°-5N, 175°-2W.

A = -0.6229, B = -0.0523, C = +0.7806;  $\delta = +8$ ;  $h = -6$ ;  
D = -0.084, E = +0.996; G = -0.778, H = -0.065, K = -0.625.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Unalaska	5.8	63	i 1 35	+ 6	i 2 39	+ 1	—	—
College	19.5	36	e 4 28	- 3	i 8 14	+ 8	e 7 40	?
Honolulu	33.0	150	—	—	e 12 36	+39	—	e 14.4
Matusiro	36.0	264	i 7 5 <sub>a</sub>	0	12 44	0	8 27	PP
Shasta	z. 37.4	86	e 7 18	+ 2	—	—	i 9 51	PcP
Mineral	z. 38.1	85	e 7 24	+ 2	—	—	e 7 33	?
Hungry Horse	38.5	70	i 7 26	0	e 13 20	- 2	i 9 39	PcP
Resolute Bay	38.7	25	e 7 37	+10	e 13 23	- 2	e 9 1	PP
Berkeley	39.2	89	e 7 49	+18	e 13 34	+ 2	e 16 38	SSS
Reno	z. 39.7	85	e 7 58	+22	—	—	—	e 18.9
Changchun	39.8	283	e 8 13	+37	—	—	—	—
Lick	z. 39.9	89	e 7 34	- 3	—	—	i 8 4	?
Butte	N. 40.5	72	e 7 43	+ 1	e 13 55	+ 3	(e 17 18)	SSS
Fresno	z. 41.4	88	e 7 58	+ 8	—	—	—	—
Bozeman	41.6	72	i 7 52	+ 1	—	—	—	—
Eureka	42.1	83	i 7 57	+ 2	—	—	—	—
Woody	z. 42.7	89	i 8 0 <sub>a</sub>	0	i 13 37	ScP	—	—
China Lake	z. 43.4	88	i 8 7	+ 1	i 13 41	ScP	—	—
Salt Lake City	43.9	78	e 8 11	+ 1	—	—	—	—
Pasadena	44.1	90	e 8 11	- 1	e 14 41	- 4	(e 18 8)	SS
Riverside	z. 44.7	90	e 8 15	- 1	—	—	i 8 37	?
Boulder City	45.0	86	e 8 58	+39	—	—	—	—
Palomar	z. 45.4	90	i 8 25	+ 3	—	—	i 10 7	PP
Barratt	z. 46.0	91	e 8 28	+ 1	—	—	—	—
Boulder	48.3	75	e 8 46	+ 1	—	—	—	—
Tucson	50.0	87	e 8 58	0	—	—	e 11 17	PP
Zô-Sê	50.2	272	e 9 1	+ 1	e 16 11	0	—	—
Nanking	51.1	274	e 8 50	-16	—	—	—	—
Chicago	57.5	62	—	—	e 17 42	- 8	e 19 36	ScS
Fayetteville	57.5	72	i 9 53	0	e 17 50	0	e 10 20	?
Dallas	58.2	76	e 9 58	0	—	—	—	—
Kiruna	60.4	353	i 10 11	- 2	e 18 25	- 3	e 22 8?	SS
Cleveland	61.0	59	i 10 18 <sub>a</sub>	0	i 18 30	- 5	—	—
Ottawa	61.2	52	i 10 18k	- 1	18 37	- 1	i 11 19	PcP
Shawinigan Falls	61.8	50	e 10 21	- 2	—	—	—	—

Continued on next page.

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1955

639

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Manila	62.4	258	e 10 26	- 1	—	—	—	—
Seven Falls	62.4	48	e 10 25	- 2	18 46	- 7	—	28.8
Pittsburgh	z. 62.6	59	i 10 32	+ 4	—	—	—	—
Morgantown	63.2	60	i 10 32	0	—	—	—	—
Pennsylvania	63.4	57	i 10 50	+16	e 19 39	PPS	—	—
Washington	z. 65.2	58	e 10 44	- 1	—	—	—	—
Palisades	65.3	55	i 10 46 <sub>a</sub>	0	i 19 20	- 9	e 19 58	PPS e 39.1
Weston	65.6	52	i 10 48 <sub>k</sub>	0	—	—	e 32 24	? e 34.6
Chapel Hill	66.3	62	i 10 3	-49	—	—	e 10 48	P e 38.5
Columbia	66.6	64	i 10 54	0	i 19 44	- 1	—	— e 33.8
Halifax	67.5	46	i 10 57 <sub>a</sub>	- 3	—	—	e 6 38	? e 33.6
Upsala	68.5	353	i 11 4	- 2	—	—	—	— e 35.1
Shillong	72.2	289	i 11 27	- 2	e 20 43	- 8	—	—
Rathfarnham C.	z. 75.2	7	i 11 44 <sub>k</sub>	- 2	e 14 0	PP	i 11 54	PcP
Dehra Dun	76.3	302	e 11 58	+ 6	i 21 37	0	—	—
De Bilt	76.8	0	e 11 56	+ 1	e 21 38	- 4	—	— e 39.1
Collmberg	z. 77.3	355	e 11 56	- 2	—	—	—	—
Kew	77.3	3	—	—	e 30 8?	SSS	—	— e 40.1
Jena	E. 77.8	356	e 12 1?	0	—	—	e 12 37	? e 40.1
Prague	78.5	354	e 12 16	+12	i 12 47	? e 13 20	? e 13 20	? e 40.1
Iasi	79.7	344	e 12 19	+ 8	—	—	—	—
Stuttgart	80.0	357	e 12 10	- 3	e 22 14	- 3	e 15 31	PP e 40.1
Quetta	82.1	309	e 12 23	- 1	i 22 36	- 2	—	— e 41.3
Salo	N. 83.1	356	e 13 17	?	e 22 3	?	e 15 56	PP e 41.1
Florence	84.9	355	e 12 52 <sub>a</sub>	+14	e 23 20	+14	e 24 16	PPS e 41.1
Istanbul	85.4	342	e 12 43	+ 3	e 23 3	[ 0 ]	—	—
Rome	86.7	354	i 12 48 <sub>a</sub>	+ 1	e 23 13	[ + 1 ]	e 24 20	PS
San Juan	87.1	64	i 12 49	0	—	—	—	—
Galerazamba	87.8	76	e 13 6	+14	i 23 44	+10	—	— 43.1
Poona	z. 88.0	298	i 12 53	0	—	—	—	—
Messina	E. 90.2	352	e 13 16	+12	e 23 50	- 6	—	— e 49.4
Alicante	90.4	4	13 2	- 2	23 31	[ - 4 ]	16 37	PP e 42.8
Ksara	90.7	334	13 9	+ 3	25 34	PPS	16 48	PP
Almeria	91.8	6	16 55	PP	24 8	- 3	—	— 50.2
Chinchina	92.1	79	—	—	i 24 16	+ 3	—	— 50.1
Jerusalem	92.8	334	i 13 1?	-15	—	—	i 13 39	? e 49.4
Bogota	93.3	78	—	—	i 24 15	- 9	—	— 51.1
La Paz	113.4	87	e 19 31	PP	—	—	—	— 56.6
Lwiro	126.9	329	i 19 8 <sub>a</sub>	[ + 2 ]	—	—	e 19 24	? e 42.8
Pretoria	z. 148.7	316	i 19 50 <sub>k</sub>	[ + 5 ]	—	—	—	—
Pietermaritzburg	z. 151.0	309	i 19 56	[ + 7 ]	—	—	—	—
Kimberley	z. 152.8	319	i 20 0	[ + 8 ]	—	—	—	—

Nov. 1d. 7h. 44s. Epicentre 38°N. 21°0E. Magnitude 5. Poorly recorded up to 85°. Seismo. Institute Bulletin for 1955, National Observatory of Athens, 1956, p. 63.

Nov. 1d. 23h. 46m. 20s. Epicentre 40°7N. 143°7E. Focus at Base of Superficial Layers.

Intensity II-III at Morioka.

Epicentre 40°5N. 144°25E. Depth about 40km. Seismo. Bull. Cent. Met. Obs., Japan for 1955, Nov., Tokyo 1956, pp. 9-11.

$$A = -0.6128, B = +0.4501, C = +0.6495; \quad \delta = -4; \quad h = -2; \\ D = +0.592, E = +0.806; \quad G = -0.523, H = +0.385, K = -0.760.$$

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Urakawa	1.6	334	i 0 28 <sub>k</sub>	+ 2	e 0 49	+ 3	—	—
Hatinohe	1.7	265	i 0 27 <sub>a</sub>	- 1	i 0 47	- 2	i 0 58	? e 42.8
Miyako	1.7	233	0 27	- 1	e 0 49	0	e 0 37	? e 41.3
Aomori	2.2	266	i 0 36	+ 1	e 1 15	+14	—	—
Morioka	2.2	244	i 0 35 <sub>a</sub>	0	e 1 7	+ 6	e 0 44	? e 41.1
Kusiro	2.3	12	e 0 34	- 2	i 1 0	- 4	e 0 47	? e 49.4
Obihiro	2.3	350	e 0 36	0	i 1 4	0	e 0 46	? e 42.8
Tomakomai	2.4	319	e 0 42	+ 4	e 1 18	+12	—	—
Hakodate	2.5	297	i 0 41	+ 2	i 1 16	+ 7	—	—
Mizusawa	E. 2.5	233	0 40	+ 1	i 23	+14	—	—

Continued on next page.

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1955

640

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
				m.	s.		m.	s.		m.	s.	
Muroran		2.6	309	e 0	40 <sup>a</sup>	- 1	e 1	20	+ 9	—	—	—
Mori		2.8	302	e 0	44	+ 1	e 1	16	0	i 1	6	?
Isinomaki		2.9	220	0	45	0	e 1	33	+14	—	—	—
Akita		3.0	252	0	47	+ 1	e 1	26	+ 4	i 1	32	?
Nemuro		3.0	27	e 0	44	- 2	e 1	14	- 8	e 1	55	?
Sapporo		3.0	324	i 0	45 <sup>a</sup>	- 1	e 1	24	+ 2	e 0	59	PP
Asahigawa		3.2	342	e 0	50	+ 1	e 1	31	+ 4	e 2	50	?
Abashiri		3.3	7	e 0	47	- 4	i 1	27	- 2	—	—	—
Sendai		3.3	223	0	49	- 2	e 1	27	- 2	e 1	0	PP
Sakata		3.5	241	e 0	50	- 3	1	35	+ 1	—	—	—
Yamagata		3.6	228	e 0	53	- 2	1	35	- 2	1	49	SS
Hokusima		3.9	222	e 0	57	- 2	e 1	47	+ 3	—	—	—
Inawasiro		4.2	223	1	5	+ 2	1	57	+ 5	i 1	12	PP
Onahama		4.3	212	1	6	+ 1	2	2	+ 8	—	—	—
Shirakawa		4.5	219	e 1	8	0	e 1	58	- 2	—	—	—
Niigata		4.6	234	e 1	24	PP	e 2	20	SS	e 2	33	SSS
Aikawa		5.0	240	e 1	15	0	e 2	22	+10	—	—	—
Mito		5.0	212	1	14	- 1	e 2	7	- 5	i 2	43	SSS
Wakkanai		5.0	343	—	—	—	e 2	7	- 5	—	—	e 4.0
Utunomiya		5.1	218	e 1	14	- 2	e 2	13	- 2	—	—	e 4.8
Kakioka	E.	5.3	213	e 1	16	- 3	2	20	0	—	—	—
Maebasi		5.6	222	e 1	25 <sup>a</sup>	+ 2	e 2	32	+ 5	i 1	34	PP
Takada		5.6	232	e 1	25	+ 2	e 2	25	- 2	—	—	—
Kumagaya		5.7	218	e 1	22	- 2	e 2	29	- 1	—	—	—
Nagano	N.	5.9	229	i 1	30	+ 3	e 2	44	+ 9	i 2	9	?
Tokyo		5.9	213	e 1	27	0	i 2	30	- 5	—	—	—
Matusiro		6.0	228	i 1	27 <sup>a</sup>	- 2	i 2	39	+ 2	i 3	4	SSS
Oiwake		6.0	225	e 1	33	+ 4	e 2	21	-16	—	—	—
Titibu	E.	6.0	219	e 1	26	- 3	e 2	33	- 4	—	—	—
Yokohama		6.2	213	e 1	25	- 7	i 2	58	SS	—	—	—
Matumoto		6.3	228	1	40	+ 7	e 3	3	SS	i 2	25	?
Wazima		6.3	240	e 1	32	- 1	—	—	—	—	—	—
Kohu	E.	6.5	220	1	41	+ 5	e 2	59	+ 9	—	—	—
Mera		6.5	210	e 1	38	+ 2	e 2	47	- 3	—	—	—
Ajiro		6.7	215	e 1	52	PP	e 3	24	SS	—	—	—
Misima		6.7	216	e 1	39	0	e 3	2	+ 7	e 2	47	S
Osima		6.8	212	e 2	9	+29	e 2	49	- 8	e 3	28	SSS
Kanazawa		6.9	236	e 2	21	+40	—	—	—	—	—	—
Iida		7.0	224	e 1	57	PP	e 3	35	SSS	—	—	—
Shizuoka		7.1	218	e 1	40	- 4	e 3	4	- 1	—	—	—
Hukui		7.5	234	e 1	50	0	—	—	—	—	—	—
Gihu		7.6	228	e 1	54	+ 3	—	—	—	—	—	—
Nagoya		7.7	226	e 1	56	+ 3	3	41	SS	—	—	—
Hikone		8.0	230	1	56	- 1	3	45	SS	—	—	—
Kameyama		8.2	227	e 2	5	+ 5	e 2	48	?	—	—	—
Kyoto		8.5	231	e 2	5	+ 1	e 3	54	SS	—	—	—
Toyooka		8.7	237	2	5	- 1	e 3	9	?	e 4	47	?
Osaka		8.9	230	e 2	29	+20	e 3	31	-18	e 4	24	SSS
Sumoto		9.5	231	e 2	24	+ 6	—	—	—	—	—	e 4.8
Takamatu		10.0	234	e 2	21	- 3	e 4	21	+ 4	—	—	e 4.7
Koti		10.8	232	e 2	35	0	e 5	5	SS	—	—	5.8
Hamada		10.9	242	e 2	58	+21	e 6	47	L	—	—	(e 6.8)
Hirosima		11.0	238	e 2	33	- 5	—	—	—	—	—	—
Ooita	E.	12.2	236	e 2	53	- 1	e 5	35	+25	—	—	7.4
Hukuoka		12.8	240	e 3	8	+ 6	e 5	34	+ 9	e 5	46	SS
Saga	N.	13.0	240	e 3	39	+34	—	—	—	—	—	—
Kagosima		14.0	234	e 3	30	+12	—	—	—	e 7	44	?
Zô-Sè		20.6	249	4	39	0	8	37	+15	—	—	e 8.6
Nanking		21.8	255	e 4	48	- 3	e 8	58	+13	—	—	—
College		45.0	34	e 8	15	+ 1	e 14	53	+ 3	e 18	19	ScS
Shillong		45.4	267	i 8	16 <sup>a</sup>	- 1	i 14	56	0	9	52	PcP
Chatra	E.	48.2	272	e 8	44	+ 5	—	—	—	—	—	—
Lembang	Z.	57.8	224	e 9	46	- 4	—	—	—	—	—	—
Resolute Bay		58.6	15	e 9	53	- 3	e 18	0	+ 4	e 19	1	?
Quetta		61.6	287	e 10	15 <sup>a</sup>	- 1	e 18	39	+ 4	i 10	25	pP

Continued on next page.

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1955

641

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Poona	z.	63.0	272	i 10 23	- 3	—	—	—	—
Kiruna		63.8	339	e 10 31	0	e 19 4	+ 2	e 10 57	PcP e 31.7
Hungry Horse		67.9	45	e 10 57	0	—	—	—	—
Butte	N.	70.1	46	e 11 20	+ 9	—	—	—	—
Bozeman		71.2	46	e 11 19	+ 1	—	—	—	—
Eureka		72.2	53	e 11 23	0	—	—	—	—
Pasadena	z.	74.1	59	e 12 1	+26	—	—	—	—
Warsaw		75.0	328	e 11 39	- 1	—	—	e 11 48	pP e 41.7
Boulder City		75.1	55	e 12 12	PcP	—	—	—	—
Raciborz	z.	77.8	328	e 11 56	0	—	—	—	—
Collmberg	z.	78.8	331	e 11 59	- 2	—	—	—	—
Prague		79.3	330	i 12 20	+16	e 13 7	?	e 15 12	PP
Jena	z.	79.6	332	e 12 4	- 1	—	—	e 12 14	pP
Ksara		80.5	306	e 12 14	+ 4	e 23 11	PPS	—	—
Jerusalem		82.3	305	i 12 20	0	—	—	i 12 30	pP
Stuttgart		82.3	332	e 12 19	- 1	—	—	e 12 29	pP e 43.7
Triest		83.1	327	e 12 42	+18	e 22 49	+ 9	e 16 1	?
Rome		86.7	326	—	—	23 12	- 3	—	e 47.0
Fayetteville		86.9	43	e 12 52	+ 9	—	—	—	—
Messina		88.3	322	e 16 45	PP	e 23 18	[+ 5]	—	47.2

Nov. 1d. 23h. 47m. Epicentre  $16^{\circ}24'N$ .  $98^{\circ}39'W$ .  
Seismological Bulletin, National University of Mexico, Tacubaya for Nov. 1955, p. 1.

Nov. 2d. 4h. 52m. Epicentre  $33^{\circ}S$ .  $177^{\circ}W$ . Magnitude 5.9. Depth of focus 150km.  
New Zealand Seismo. Report for 1955, Bull. No. 136, New Zealand Department of Scientific and Industrial Research, Wellington, 1961, p. 56.

Nov. 2d. 7h. 37m. 59s. Epicentre  $40^{\circ}5'N$ .  $142^{\circ}1'E$ . Depth of focus 60km.  
Intensity IV at Hatinohe, Miyako, and Morioka; II-III at Aomori, Urakawa, and Hukushima.  
Seismo. Bull. Cent. Met. Obs., Japan, for Nov., 1955, Tokyo, 1956, pp. 11, 12, with macroseismic chart.

Nov. 2d. 19h. 58m. 11s. Epicentre  $36^{\circ}3'N$ .  $141^{\circ}8'E$ . Depth of focus 40-60km.  
Intensity II-III at Tyosi and Shirakawa.  
*Loc. cit.*, 7h., pp. 13, 14, with macroseismic chart.

Nov. 3d. 5h. 11m. Epicentre  $41^{\circ}3'N$ .  $43^{\circ}6'E$ .  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 20.

Nov. 3d. 23h. 32m. 33s. Epicentre  $34^{\circ}7'N$ .  $136^{\circ}1'E$ . Depth of focus 60km.  
Intensity IV at Nara and Kameyama; II-III at Hikone, Kyoto, Nagoya, and Gihu.  
*Loc. cit.*, 2d., pp. 14, 15, with macroseismic chart.

Nov. 4d. 22h. 44m. 5s. Epicentre  $34^{\circ}4'S$ .  $70^{\circ}1'W$ . Depth of focus 0.015.

$$A = +.2814, B = -.7775, C = -.5624; \quad \delta = -1; \quad h = 0;$$

$$D = -.940, E = -.340; \quad G = -.191, H = +.529, K = -.827.$$

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Santiago		1.0	334	i 0 22	- 1	i 0 41	0	—	—
Santa Lucia	N.	1.1	333	i 0 23	- 1	0 41	- 2	—	—
Concepción	N.	2.9	212	e 0 45	- 1	i 1 19	- 2	—	—
Copiapo	E.	7.0	358	e 1 45	+ 4	i 2 57	- 3	—	—
Buenos Aires		9.6	95	2 17	+ 1	4 4	+ 2	—	—
La Plata		10.0	96	i 2 23	+ 2	i 4 7	- 5	—	—
Antofagasta	N.	10.7	358	e 2 35	+ 4	e 4 49	+20	—	i 6.1
La Paz		17.9	6	i 4 6k	+ 4	i 7 29	+15	i 4 27	pP 10.4
Punta Arenas	N.	18.8	182	i 4 10	- 2	i 7 31	- 2	—	—
Huancayo		22.7	347	i 4 55	+ 4	e 7 25	?	—	—

Continued on next page.

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1955

642

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Bogota		39.0	354	i 7	15	0	i 13	11	+ 7	i 7	35	pP	17.9
Chinchina		39.5	351	i 7	20	0	i 13	22	+10	—	—	—	16.9
Galerazamba		45.2	353	i 8	7	+ 1	i 14	28	- 7	i 8	29	pP	—
St. Vincent		48.0	12	e 8	23	- 5	—	—	—	—	—	—	—
San Juan		52.6	5	i 9	0k	- 3	e 16	19	+ 1	i 9	30	pP	e 21.5
Comitan		54.5	334	e 9	18	+ 1	16	57	+13	—	—	—	—
Oaxaca		57.1	329	e 9	35	0	e 17	27	+ 9	e 10	5	pP	—
Merida		58.1	338	i 14	19	?	—	—	—	—	—	—	—
Vera Cruz		58.8	331	e 9	44	- 3	e 17	40	0	—	—	—	—
Puebla		59.5	329	e 9	57	+ 5	—	—	—	—	—	—	—
Tacubaya		60.2	328	e 9	56	- 1	e 18	1	+ 3	e 11	59	PP	—
Guadalajara		63.2	325	e 10	18	+ 1	—	—	—	—	—	—	—
Columbia		68.8	350	i 10	50	- 2	i 19	49	+ 5	i 11	28	pP	e 28.0
Chapel Hill		70.4	352	e 11	0	- 2	—	—	—	—	—	—	—
Chihuahua		71.3	327	i 11	3	- 4	—	—	—	—	—	—	—
Dallas		71.4	336	i 11	7	- 1	—	—	—	e 11	47	sP	—
Little Rock		71.9	341	e 11	12	+ 1	e 11	27	PcP	e 11	49	pP	—
Fayetteville		73.6	340	i 11	19	- 2	—	—	—	—	—	—	—
Philadelphia		74.1	356	—	—	—	e 20	56	+11	e 21	38	sS	e 32.8
Morgantown		74.2	352	i 11	23	- 1	—	—	—	i 13	25	PP	—
St. Louis		75.0	344	i 11	28	- 1	i 20	56	+ 1	i 11	57	pP	—
Palisades		75.1	357	i 11	33a	+ 3	i 21	2	+ 6	i 21	50	SKS	e 35.4
Florissant		75.2	344	11	29	- 1	i 21	4	+ 7	12	6	pP	—
Pennsylvania		75.2	354	i 11	41	+11	e 21	9	+12	e 21	38	SKS	—
Tucson		76.6	325	i 11	37k	- 1	e 22	9	PS	i 12	13	pP	e 35.2
Grahamstown	z.	76.9	121	i 11	35a	- 5	—	—	—	—	—	—	—
Buffalo (Larkin)		77.3	354	i 11	41	- 1	—	—	—	—	—	—	—
Chicago		77.5	347	e 11	41	- 2	e 21	21	- 1	e 12	19	pP	e 32.5
Kimberley	z.	78.0	117	i 11	45a	- 1	—	—	—	—	—	—	—
Halifax		78.8	5	i 11	49k	- 1	—	—	—	—	—	—	—
Ottawa		79.6	356	e 11	55	+ 1	e 21	55	+11	22	40	PS	—
Barratt		79.8	322	i 11	54a	- 1	i 21	52	+ 6	i 12	21	pP	—
Palomar	z.	80.4	322	e 12	0	+ 1	—	—	—	—	—	—	—
Shawinigan Falls		80.6	358	e 11	58	- 2	e 14	58	PP	i 12	40	sP	—
Boulder		80.9	333	i 12	0	- 1	—	—	—	—	—	—	—
Seven Falls		81.1	0	e 11	58?k	- 4	22	6?	+ 6	12	29?	pP	—
Riverside		81.2	322	i 12	2k	- 1	e 22	9	+ 8	i 12	32	pP	—
Boulder City		81.5	325	i 12	4k	0	—	—	—	—	—	—	—
Pasadena		81.7	321	i 12	5k	- 1	e 22	10	+ 4	i 12	34	pP	e 38.7
Pietermaritzburg	z.	81.7	120	i 12	7a	+ 1	—	—	—	—	—	—	—
Pretoria	z.	82.2	116	i 12	8k	0	—	—	—	—	—	—	—
Kirkland Lake	z.	82.6	353	e 12	10k	0	—	—	—	—	—	—	—
Isabella	z.	83.0	322	i 12	11k	- 1	—	—	—	—	—	—	—
Christchurch		83.7	221	i 12	18a	+ 2	i 22	33	+ 7	—	—	—	—
Rapid City	E.	83.7	337	i 12	17	+ 1	e 22	34	+ 8	e 12	47	pP	—
Tinemaha		84.0	323	i 12	18	+ 1	e 22	37	+ 8	e 12	41	pP	—
Wellington		84.0	223	12	16	- 1	i 22	30	+ 1	e 12	47	pP	—
Salt Lake City		84.1	329	e 12	17a	- 1	e 22	34	+ 4	i 13	2	sP	e 39.5
Tuai	N.	84.2	226	e 12	29	+11	e 22	37	+ 6	—	—	—	—
Fresno	z.	84.6	322	e 12	19	- 1	—	—	—	e 12	47	pP	—
Eureka		84.8	326	i 12	22k	+ 1	e 15	36	PP	i 12	53	pP	—
Kaimata	N.E.	85.0	221	e 12	24	+ 2	—	—	—	—	—	—	—
Cobb River	E.	85.3	222	e 12	31	+ 7	e 22	42	0	—	—	—	—
Karapiro	N.	85.8	226	12	24	- 2	e 22	50	+ 4	—	—	—	—
Lick	z.	86.0	321	e 12	27	0	i 15	52	PP	i 13	1	pP	—
Santa Clara		86.1	321	e 12	28a	0	e 22	52	+ 3	—	—	—	—
Berkeley		86.7	321	e 12	30k	0	e 22	52	- 3	e 13	1	pP	e 41.5
Reno		86.7	324	e 12	30	0	e 23	0	+ 5	—	—	—	—
Bozeman		87.9	333	e 12	37a	+ 1	e 16	8	PP	i 13	10	pP	—
Onerahi	E.	87.9	227	e 12	29	- 7	e 22	35	[-15]	—	—	—	—

Continued on next page.

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1955

643

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Butte	N.	88.7	332	e 12 40	0	—	—	e 15 24	PP	—
Shasta	Z.	88.9	323	i 12 40	- 1	i 13 20	sP	e 13 6	pP	—
Hungry Horse		91.2	332	i 12 51k	- 1	e 23 14	[+ 4]	i 13 19	pP	—
Apia		91.7	252	e 13 0	+ 6	—	—	—	—	—
Malaga		93.5	47	e 13 3	+ 1	e 23 43	SKKS	i 16 13	PP	43.5
Granada		94.3	47	e 13 38k	pP	23 41	[+14]	17 23	PP	44.1
Almeria		94.8	48	13 10	+ 2	24 16	+ 9	17 0	PP	—
Alicante		96.9	48	13 3	-15	24 14	-11	17 5	PP	e 46.4
Riverview		101.9	214	i 17 49	PP	i 25 3	- 4	i 19 59	PPP	—
Rathfarnham C.	Z.	103.3	34	e 20 13	PPP	—	—	—	—	—
Kew		105.1	37	—	—	e 24 30	[+ 9]	e 25 47	S	—
Rome		107.1	51	e 19 7	PP	i 24 34	[+ 4]	i 26 10	S	52.4
Florence		107.3	49	—	—	e 24 35	[+ 4]	—	—	e 53.2
Messina		107.3	55	e 18 22	PP	e 24 23	[- 8]	e 28 44	PPS	49.9
Stuttgart		108.7	43	e 18 25	[+12]	e 26 13	SKKS	e 19 36	PP	—
Triest		109.8	48	e 14 25	P	e 26 22	SKKS	e 18 50	PP	—
Resolute Bay		110.0	353	i 18 56k	PP	e 24 43	[+ 1]	e 38 27	SSS	e 62.9
Jena	Z.	111.1	42	e 19 32	PP	e 21 45	PPP	e 20 11	?	—
Athens		112.8	59	—	—	e 26 42	S	—	—	—
Perth	Z.	113.8	186	—	—	i 28 40	PS	—	—	e 46.1
College		115.7	332	e 14 41	P	e 25 29	[+25]	e 18 25	PKP	e 44.0
Istanbul		117.9	58	e 20 15?	PP	e 25 21	[+ 9]	e 24 42	?	—
Upsala	Z.	118.0	35	i 18 31	[ 0]	—	—	i 28 51	PKKP	—
Jerusalem		118.7	70	i 18 35	[+ 2]	—	—	i 19 7	pPKP	—
Ksara		120.1	68	19 35	[+59]	23 7	PPP	20 34	PP	—
Kiruna		121.5	26	i 18 38	[ 0]	i 36 36	SS	i 19 14	pPKP	—
Moscow		127.3	43	e 20 55	PP	—	—	—	—	—
Goris		129.9	64	e 19 0	[+ 5]	e 28 2	SKKS	e 31 1	SKSP	—
Lembang	Z.	139.0	177	e 19 10	[- 1]	—	—	e 22 14	PP	—
Petropavlovsk		141.0	314	e 22 32	PP	—	—	—	—	—
Colombo	E.	141.1	128	e 22 45	PP	e 29 5	SKKS	e 42 0	SS	—
Magadan		143.3	326	e 19 25	[+ 6]	—	—	—	—	—
Quetta		143.6	84	e 19 21a	[+ 1]	i 41 17	SS	e 19 50	pPKP	—
Bombay	E.	143.7	106	e 19 19	[- 1]	e 29 11	SKKS	—	—	—
Poona	Z.	144.3	107	i 19 20	[- 1]	—	—	—	—	—
Stalinabad		146.9	71	e 19 27	[+ 2]	—	—	—	—	—
Tashkent		147.4	66	e 19 29	[+ 3]	e 29 40	SKKS	—	—	—
Frunse		151.3	62	i 19 34	[+ 2]	i 29 48	SKKS	i 22 58	PKS	—
Yuzno-Sakhlinsk		152.3	307	e 19 32	[- 2]	i 23 29	PP	i 20 19	PKP <sub>2</sub>	—
Dehra Dun		152.9	90	e 19 49	[+15]	i 30 15	SKKS	i 34 21	PS	—
Semipalatinsk		153.1	44	e 19 35	[ 0]	—	—	—	—	—
Bokaro		156.5	110	e 19 46	[+ 7]	i 30 30	SKKS	e 24 26	PP	—
Matusiro		156.9	284	19 39	[- 1]	e 30 24?	SKKS	i 20 9	pPKP	—
Manila		157.9	210	e 19 54	[+13]	—	—	—	—	—
Chatra	E.	159.1	105	i 24 40	PP	i 30 40	SKKS	—	—	—
Baguio		159.7	211	i 19 47	[+ 4]	—	—	—	—	—
Irkutsk		161.7	11	19 45	[ 0]	44 55	SS	24 18	PP	—
Shillong		162.1	115	19 46	[ 0]	—	—	i 19 58	?	—
Hong Kong		167.4	198	e 19 54	[+ 4]	e 34 55?	PS	e 44 35?	SS	—
Zô-Sè		170.0	254	e 19 52	[ 0]	—	—	—	—	—
Nanking		172.2	255	e 20 8	[+15]	—	—	e 25 12	PP	—

Nov. 5d. 3h. 53m. Epicentre 19°·5S. 169°·0E. Depth of focus 150km.  
Seismo. Observatory Bull. No. E-136, New Zealand Department of Scientific and Industrial Research, Geophysics Division, Wellington, 1961, p. 57.

Nov. 5d. 7h. 19m. } Epicentre 24°·5N. 109°·0W.  
8h. 10m. }  
Seismo. Bull. for Nov., 1955, National University of Mexico, Tacubaya, p. 2.

Nov. 5d. 12h. 15m. Epicentre 40°·3S. 173°·7E. Depth of focus 145km. Magnitude 5.5.  
*Loc. cit.*, 3h., p. 57.

Nov. 7d. 19h. 49m. Epicentre 41°·2N. 44°·0E.  
Bull. of the Seismo. Stations of the U.S.S.R., Oct.-Dec., 1955, Moscow, 1957, p. 20.

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1955

644

Nov. 10d. 1h. 44m. 5s. Epicentre 15°·6S. 173°·6W. Depth of focus 0·005.  
(as on 1952, April 8d.).

A = -·9576, B = -·1074, C = -·2673;  $\delta$  = -2;  $h$  = +6;  
D = -·111, E = +·994; G = +·266, H = +·030, K = -·964.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Apia		2·5	45	e 0 42	+ 3	1 11	+ 2	—	—
Onerahi	E.	22·8	206	e 4 58	0	e 9 1	+ 3	e 16 2	ScS
Auckland	N.	23·6	204	i 5 5	- 1	i 9 15	+ 3	i 10 8	ScS
Karapiro	N.	24·2	201	e 5 13	+ 2	e 9 22	0	16 4	ScS
Tuai	N.	24·5	198	e 5 17	+ 3	e 9 33	+ 6	e 16 3	ScS
New Plymouth	E.	25·8	202	e 5 33	+ 6	e 9 50	+ 1	e 15 57	ScS
Wellington		27·5	199	i 5 39 <sub>a</sub>	- 3	i 10 8	- 9	i 12 30	ScS
Cobb River	E.	28·0	202	e 5 44	- 3	e 10 19	- 6	e 16 16	ScS
Kaimata	N.E.	29·8	203	e 6 3	0	—	—	e 6 23	pP
Christchurch		30·2	200	i 5 55	- 11	i 10 55	- 5	e 7 13	PP
Brisbane		33·1	243	i 6 29	- 3	i 12 7	+ 22	—	—
Rabaul		35·5	285	i 6 49	- 3	e 12 15	- 7	i 9 21	PcP
Riverview		36·6	234	i 7 0 <sub>a</sub>	- 2	i 12 30	- 9	i 7 20	pP
Honolulu		39·7	23	e 7 29	+ 1	e 12 39	- 47	—	e 15·8
Melbourne	E.	42·7	231	i 7 50	- 2	i 14 1	- 10	—	e 16·9
Perth	Z.	65·6	242	e 6 55	?	i 18 10	?	i 12 18	PP
Matusiro		68·9	320	10 59	- 1	i 19 51	- 7	i 11 28	pP
Mizusawa	N.	68·9	324	—	—	19 54	- 4	—	—
Unalaska		69·4	4	i 11 1	- 2	e 19 57	- 7	—	—
Manila		71·2	292	i 11 13	- 1	i 22 57	?	—	—
Santa Clara		71·6	41	e 11 16 <sub>a</sub>	0	e 20 30	+ 1	e 21 30	PPS
Berkeley		71·8	41	i 11 17 <sub>k</sub>	- 1	i 20 32	0	e 13 59	PP
Lick	Z.	71·8	41	i 11 22	+ 4	—	—	e 13 48	PP
Ukiah		71·9	39	e 11 20	+ 2	e 20 30	- 3	—	—
Baguio		72·3	293	i 11 22	+ 2	—	—	i 11 34	pP
Pasadena		72·3	46	i 11 20 <sub>k</sub>	0	i 20 38	+ 1	i 14 3	PP
Petropavlovsk		72·5	343	i 11 20	- 2	i 20 36	- 4	i 11 54	pP
Barratt		72·6	48	i 11 23	+ 1	i 20 44	+ 3	—	—
Dalton	Z.	72·6	46	i 11 20	- 2	—	—	i 11 37	PcP
Fresno		72·7	43	e 11 21	- 2	e 20 43	+ 1	—	—
Palomar	Z.	72·8	47	e 11 23	0	—	—	—	—
Riverside		72·8	46	i 11 22	- 1	i 20 44	+ 1	i 14 8	PP
Isabella	Z.	72·9	44	e 11 22	- 2	e 20 27	- 17	i 11 40	pP
Shasta		73·4	38	e 11 24	- 3	e 20 50	0	e 14 14	PP
Yuzno-Sakhlinsk		73·6	330	e 11 28	0	21 26	+ 34	i 12 0	pP
Mineral	Z.	73·7	39	e 11 27	- 2	—	—	—	—
Tinemaha		73·9	43	i 11 31	+ 1	i 20 56	+ 1	—	—
Reno	E.	74·3	40	i 11 33	+ 1	i 21 3	+ 3	—	—
Corvallis	Z.	75·3	35	i 11 37	- 1	i 21 10	- 1	—	—
Boulder City		75·6	46	e 11 38 <sub>k</sub>	- 2	e 21 14	0	i 11 50	PcP
Tucson		76·6	51	i 11 44 <sub>k</sub>	- 1	i 21 27	+ 2	i 12 5	pP
Eureka		76·7	42	i 11 44 <sub>k</sub>	- 2	e 31 7	PKKP	e 39 1	P'P'
Vladivostok		76·8	322	e 11 47	+ 1	21 47	+ 20	12 19	pP
Bandung		77·4	266	e 11 51	+ 1	e 21 25	- 9	—	—
Lembang		77·4	266	e 11 47	- 3	e 21 30	- 4	e 22 15	sS
Guadalajara		77·8	64	e 11 53	+ 1	—	—	—	—
Seattle		77·8	33	i 11 53	+ 1	i 21 41	+ 3	e 12 7	pP
Victoria		77·8	32	11 51	- 1	21 22	- 16	—	—
Zō-Sè		77·9	307	e 11 53	+ 1	21 35	- 4	i 21 57	ScS
Djakarta		78·3	267	e 11 56 <sub>a</sub>	+ 1	e 21 38	- 5	—	—
Horseshoe Bay		78·5	31	e 11 53	- 3	—	—	—	—
Salt Lake City		80·0	43	e 12 3 <sub>a</sub>	- 1	i 22 3	+ 2	i 12 26	pP
Hong Kong		80·1	296	e 12 7 <sub>?</sub>	+ 3	22 1	- 1	—	e 33·6
Nanking		80·2	307	e 12 6	+ 1	22 2	- 1	i 22 14	ScS
Tacubaya		81·0	67	e 12 8	- 1	e 21 59	- 13	i 12 40	pP

Continued on next page.

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1955

645

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Changchun		81.2	320	e 12	12	+ 2	22	12	- 2	—	—	—
Butte	N.	82.3	38	i 12	15 <sub>a</sub>	- 1	i 22	23	- 2	i 12	39	pP e 33.2
Oaxaca		82.4	70	e 12	19	+ 3	e 22	33	+ 7	—	—	—
College		82.6	11	i 12	13 <sub>k</sub>	- 4	i 22	22	- 6	i 23	2	ScS e 34.3
Hungry Horse		82.7	35	e 12	16 <sub>k</sub>	- 2	e 22	26	- 3	i 12	44	pP —
Bozeman		83.0	39	e 12	17 <sub>a</sub>	- 3	e 22	30	- 2	i 12	31	pP e 35.1
Vera Cruz		83.7	68	i 12	19 <sub>a</sub>	- 4	i 22	34	- 5	i 13	55	PP —
Boulder		84.1	46	e 12	24	- 1	—	—	—	—	—	—
Peking		85.4	314	i 12	31	- 1	22	59	+ 3	22	44	SKS —
Kwanting		85.9	314	e 12	38	+ 4	23	5	+ 4	—	—	—
Comitan		86.4	72	e 12	35	- 1	e 22	55	[+ 1]	e 23	23	pS —
Taiyuan		87.1	310	e 12	45	+ 5	—	—	—	—	—	—
Rapid City	E.	87.3	43	i 12	43	+ 2	i 22	59	[- 1]	e 16	9	PP e 43.1
Tatung		87.5	313	e 12	48	+ 6	—	—	—	—	—	—
Sian		88.6	306	e 12	55	+ 8	23	28	+ 2	e 23	7	SKS —
Merida		90.0	68	e 12	46	- 8	e 24	23	PS	e 23	10	SKS —
Fayetteville		90.8	53	i 12	53	- 4	e 23	19	[- 3]	e 16	34	PP —
Little Rock	N.	91.8	54	e 13	2	0	e 23	28	[+ 1]	—	—	—
Santa Lucia	N.	92.0	125	e 13	15	+12	e 24	6	+ 9	e 23	30	SKS —
Yinchuan		92.0	309	e 13	36	pP	23	23	[- 5]	—	—	—
Lanchow		93.2	306	—	—	—	23	33	[- 2]	—	—	—
Florissant		94.5	51	e 13	13	- 1	i 23	40	[- 2]	e 17	1	PP —
St. Louis		94.5	51	i 13	13	- 1	i 23	41	[- 1]	i 17	2	PP —
Huancayo		94.6	104	i 13	17	+ 2	e 24	16	- 3	i 23	29	SKS e 40.4
Wuwei		94.6	308	e 14	44	?	e 23	41	[- 2]	—	—	—
Sining		94.9	306	—	—	—	e 23	44	[ 0]	—	—	—
Changyeh		96.4	308	—	—	—	23	51	[- 2]	—	—	—
Terre Haute		96.9	51	i 23	44	SKS	(i 23	44)	[- 11]	e 30	5	SS —
Irkutsk		97.4	322	13	28	0	23	54	[- 4]	e 14	2	pP —
Chinchina		99.0	87	i 13	38	+ 3	i 24	3	[- 3]	17	40	PP —
La Paz		99.9	110	i 13	43	+ 4	i 24	12	[+ 2]	i 17	50	PP e 48.3
Columbia		100.6	58	e 13	44	+ 2	i 25	15	+ 5	e 17	52	PP e 43.0
Shillong		100.6	294	e 13	45	+ 3	24	9	[- 5]	17	29	PP 37.5
La Plata	E.	101.0	131	17	49	PP	25	1	-12	19	31	PPP 51.5
Cleveland		101.7	50	e 13	47 <sub>k</sub>	0	e 24	14	[- 5]	e 25	19	S —
Resolute Bay		102.0	16	i 13	47 <sub>k</sub>	- 1	e 25	23	+ 2	e 17	58	PP —
Chapel Hill		102.6	56	i 18	7	PP	—	—	—	—	—	—
Pittsburgh		102.7	51	—	—	—	i 24	22	[- 2]	—	—	—
Kirkland Lake	Z.	103.8	44	e 13	55 <sub>a</sub>	- 1	—	—	—	—	—	—
Buffalo (Larkin)		104.0	49	i 13	55	- 2	—	—	—	—	—	—
Pennsylvania		104.3	51	i 18	18	PP	e 24	30	[- 1]	—	—	—
Bokaro		105.6	291	e 18	18	PP	i 24	37	[ 0]	e 27	34	PS —
Ottawa		106.4	47	e 14	9 <sub>a</sub>	P	24	35	[- 6]	18	32	PP —
Fordham		107.3	52	e 18	40	PP	e 24	41	[- 3]	—	—	—
Palisades		107.3	51	i 14	11	P	i 24	45	[+ 1]	e 15	1	sP e 49.9
Colombo	E.	107.7	272	—	—	—	i 24	45	[- 1]	(32	20)	SS 32.3
Shawinigan Falls		108.6	46	i 14	18 <sub>a</sub>	P	e 18	33	PP	18	23	PKP —
Seven Falls		109.9	45	e 14	19 <sub>a</sub>	P	24	46?	[- 10]	18	51?	PP 45.2
San Juan		111.0	76	e 19	0	PP	—	—	—	—	—	—
Semipalatinsk		112.1	318	e 18	18	[- 10]	i 24	59	[- 5]	i 26	2	SKKS —
Dehra Dun	N.	113.3	297	e 19	44	PP	i 25	9	[ 0]	i 26	11	SKKS —
New Delhi	N.	114.0	295	—	—	—	i 25	8	[- 4]	i 26	15	SKKS —
Halifax		115.0	48	—	—	—	i 25	14	[- 2]	i 29	30	PS —
Poona	Z.	115.8	283	e 18	36	[+ 1]	—	—	—	—	—	—
Frunse		116.4	310	e 18	36	[ 0]	i 25	18	[- 3]	i 26	34	SKKS —
Bombay		116.8	284	e 17	25	[- 72]	i 25	21	[- 1]	i 26	34	SKKS —
Tashkent		120.4	309	18	45	[+ 1]	e 25	33	[- 2]	e 20	6	PP —
Stalinabad		121.1	306	i 18	53	[+ 8]	i 25	36	[- 1]	—	—	—
Scoresby Sund		122.4	11	i 20	24	PP	i 30	21	PS	i 36	57	SS —
Quetta		122.9	296	e 18	48	[- 1]	i 25	45	[+ 2]	e 36	51	SS —

Continued on next page.

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1955		646								
		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$\circ$	$\circ$	m. s.	s.	m. s.	s.	m. s.	m.	
Kiruna		127.0	353	—	—	i 37 54	SS	—	e 51.9	
Grahamstown	z.	127.7	201	i 18 43	[-15]	—	—	—	—	
Reykjavik	z.	127.7	15	e 19 2	[+ 4]	—	—	—	—	
Ashkabad		129.3	306	e 19 1	[ 0]	—	—	i 21 36	PP	
Kimberley	z.	132.5	202	i 19 8	[+ 1]	—	—	—	—	
Pulkovo		132.5	344	e 21 28	PP	26 6	[- 4]	28 12	SKKS	
Moscow		133.3	336	19 9	[ 0]	e 26 11	[- 1]	21 35	PP	
Helsinki		133.5	347	—	—	e 22 27	PKS	e 39 14	SS	
Pretoria	z.	133.8	208	e 19 11	[+ 1]	—	—	—	—	
Upsala		135.0	352	i 19 13	[+ 1]	i 22 36	PKS	i 19 39	pPKP	
Goris		137.8	312	19 36	pPKP	i 22 44	PKS	—	—	
Aberdeen		138.0	7	i 19 25	[+ 7]	i 22 52	PKS	i 22 4	PP	
Copenhagen		139.7	355	i 19 11	[-10]	40 25	SS	i 22 14	PP	
Durham		140.4	7	19 32	[+10]	i 23 0	PKS	40 35	SS	
Rathfarnham Castle		141.1	12	e 19 24	[+ 1]	e 42 38	SS	i 19 58	pPKP	
Warsaw		141.6	346	i 19 16	[- 8]	i 29 10	SKKS	i 22 26	PP	
Hamburg		142.0	356	e 19 20	[- 5]	e 23 7	PKS	e 22 34	PP	
Simferopol		142.5	327	i 19 23	[- 3]	i 29 17	SKKS	e 20 1	pPKP	
Witteveen	z.	142.8	0	e 19 23	[- 3]	—	—	—	—	
Lwow		143.0	341	i 19 25	[- 1]	i 41 3	SS	i 20 0	pPKP	
De Bilt		143.6	1	i 19 29 <sub>a</sub>	[+ 1]	e 41 10	SS	i 22 46	PP	
Kew		143.8	7	e 19 23 <sub>a</sub>	[- 5]	e 28 14	SKKS	i 19 47	pPKP	
Iasi		143.9	335	e 19 25	[- 3]	—	—	—	e 69.9	
Collnberg		144.0	353	e 19 26	[- 2]	e 33 19	PS	e 22 13	PP	
Raciborz		144.3	347	e 19 27 <sub>a</sub>	[- 2]	e 23 42	PKS	i 19 57	pPKP	
Jena		144.5	354	e 19 26	[- 3]	e 26 11	[-19]	e 20 7	pPKP	
Skalnate Pleso		144.6	344	i 19 27	[- 2]	i 22 52	PP	i 20 8	pPKP	
Bacau		144.7	335	e 19 30	[+ 1]	—	—	—	e 67.3	
Uccle		144.8	2	e 19 26	[- 4]	e 33 0	PS	i 19 52	pPKP	
Prague		145.0	351	i 19 29	[- 1]	e 28 46	SKKS	i 19 51	pPKP	
Cheb		145.2	353	e 19 31	[+ 1]	—	—	e 21 40	?	
Focsani		145.3	334	e 19 36	[+ 5]	—	—	—	—	
Hurbanovo		146.4	346	e 19 34	[+ 2]	e 22 56	PP	i 20 18	pPKP	
Campulung		146.5	336	e 19 39	[+ 6]	—	—	—	—	
Karlsruhe		146.6	358	i 19 34 <sub>k</sub>	[+ 1]	e 23 4	PP	i 20 8	pPKP	
Bucharest		146.8	334	i 19 39	[+ 6]	e 29 42	SKKS	—	—	
Stuttgart		146.8	357	e 19 32 <sub>k</sub>	[- 1]	e 27 43	sSKS	e 20 10	pPKP	
Szeged		147.3	342	19 38	[+ 4]	23 3	PP	20 12	pPKP	
Kalossa		147.4	344	19 39	[+ 5]	e 24 55	?	e 20 3	pPKP	
Ksara		147.8	310	i 19 36 <sub>k</sub>	[+ 1]	23 4	PKS	20 4	pPKP	
Istanbul		147.9	327	e 19 35	[ 0]	e 23 24	PKS	(41 55?)	SS	
Basle		148.1	358	e 19 37	[+ 2]	—	—	e 20 40	?	
Zürich		148.2	357	e 19 35	[ 0]	—	—	—	—	
Belgrade		148.5	341	e 19 37 <sub>a</sub>	[+ 1]	e 33 14	PS	e 23 16	PP	
Neuchatel		148.7	359	e 19 54	PKP <sub>2</sub>	—	—	—	—	
Jerusalem		149.2	307	i 19 39 <sub>a</sub>	[+ 2]	—	—	i 23 13	PP	
Sofia		149.3	335	e 19 37 <sub>?</sub>	[ 0]	—	—	i 21 3	?	
Triest		149.4	350	e 19 37 <sub>k</sub>	[ 0]	e 26 13	[-24]	e 23 15	PP	
Salo		149.9	354	i 19 43 <sub>a</sub>	[+ 5]	e 30 3	SKKS	i 20 15	pPKP	
Oropa		150.0	358	i 19 53	PKP <sub>2</sub>	—	—	—	—	
Pavia		150.4	356	e 19 41 <sub>k</sub>	[+ 2]	e 23 3	PKS	e 43 25	SS	
Padova		150.8	352	e 19 49	[+10]	e 23 50	PKS	e 30 5	PKKP	
Bologna		150.9	353	e 19 41	[+ 2]	e 28 11	SKKS	e 19 56	PKP <sub>2</sub>	
Prato		151.5	353	e 19 42	[+ 2]	—	—	e 42 32	SS	
Florence		151.6	353	e 19 39 <sub>k</sub>	[- 1]	e 30 10	SKKS	i 20 31	pPKP	
Athens		153.0	329	e 19 42 <sub>k</sub>	[ 0]	—	—	e 19 58	pPKP	
Lisbon	z.	153.2	28	e 19 44 <sub>k</sub>	[+ 1]	i 23 38	PP	i 20 6	PKP <sub>2</sub>	
Rome		153.2	350	i 19 42 <sub>k</sub>	[- 1]	30 12	SKKS	20 4	pPKP	
Toledo	z.	154.1	19	i 19 46 <sub>k</sub>	[+ 2]	i 23 49	PP	i 20 10	pPKP	
Messina		156.1	342	i 19 47 <sub>k</sub>	[ 0]	e 24 8	PP	i 20 47	PKP <sub>2</sub>	
Reggio Calabria	n.	156.1	342	e 20 22	pPKP	—	—	—	—	
Alicante		156.5	14	i 19 37	[-10]	e 26 24	[-21]	20 9	PKP <sub>2</sub>	
Granada		156.7	20	i 19 53	[+ 6]	26 17	[-28]	20 27	pPKP	
Malaga		156.9	22	i 19 48 <sub>k</sub>	[ 0]	26 44	[- 1]	i 20 18	PKP <sub>2</sub>	
Almeria		157.4	19	i 19 50	[+ 2]	26 52	[+ 6]	i 20 24	PKP <sub>2</sub>	

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1955

647

Nov. 10d. 5h. 10m. Epicentre 28°·5S. 178°·5W. Magnitude 6·75.  
New Zealand Seismo. Report for 1955. Department of Scientific and Industrial Research,  
Geophysics Division, No. E-134, Wellington, 1961, p. 58.

Nov. 10d. 8h. 42m. Epicentre 37°·25N. 36°·75E. Poorly recorded up to 39°.  
Intensity IV at Chora; III at Limin Vatheos, Kalymos, and Kos.  
Seismo. Institute Bull. for 1955, National Observatory of Athens, 1956, p. 64.

Nov. 10d. 9h. 7m. Repetition. Very weak.  
Intensity III at Chora, Limin Vatheos, and Kalymos.  
*Loc. cit.*, 8h., pp. 64, 65.

Nov. 10d. 13h. 0m. Repetition. Very weak.  
Intensity IV at Chora.  
*Loc. cit.*, 8h., p. 65.

Nov. 10d. 22h. 6m. Repetition. Very weak.  
Intensity III at Limin Vatheos.  
*Loc. cit.*, 8h., p. 65.

Nov. 11d. 6h. 5m. Epicentre 15°53'N. 96°9'W.  
Seismo. Bull., National University of Mexico, Tacubaya for 1955, Nov., p. 3.

Nov. 11d. 8h. 31m. 9s. Epicentre 32°·2S. 14°·2W.

A = +·8219, B = -·2080, C = -·5303;  $\delta = 0$ ;  $h = +1$ ;  
D = -·245, E = -·969; G = -·514, H = +·130, K = -·848.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Kimberley	z.	33·6	95	i 6 42 <sub>a</sub>	- 2	—	—	—	—
Grahamstown	z.	34·1	103	e 6 53?	+ 5	—	—	—	—
La Plata		36·4	254	i 7 7	- 1	12 45	- 5	8 27	PP 15·0
Pretoria	z.	37·4	91	i 7 15	- 1	—	—	—	—
Lwiro		50·2	62	i 9 0	0	e 15 54	-17	—	—
La Paz		51·1	274	9 8	+ 2	—	—	—	—
Tananarive		56·6	92	e 9 46	- 1	—	—	—	25·4
Huancayo		59·3	275	i 10 6	0	e 18 26	+12	e 12 9	PP —
Bogota		67·6	291	i 11 3	+ 2	i 20 13	+16	i 13 52	PP 32·8
Chinchina		69·0	290	i 11 6	- 3	i 22 31	?	i 13 41	PP 32·8
San Juan		70·7	308	e 11 19	- 1	—	—	—	—
Rome		77·7	20	—	—	e 26 58?	SS	—	e 38·6
Florence		79·1	18	e 12 32	+24	—	—	—	—
Ksara		80·8	40	i 12 23	+ 6	e 13 3	?	e 16 3	? —
Triest		81·5	19	e 16 9	PP	e 23 21	PS	e 19 1	? —
Stuttgart		83·2	15	e 12 31	+ 2	—	—	—	—
Kew		84·1	9	—	—	i 20 54	?	i 21 19	? e 33·4
Jena	z.	85·8	16	e 12 42?	0	—	—	—	—
Quetta	z.	98·7	60	e 13 44	+ 2	—	—	e 17 46	PP —
Kiruna		103·0	13	—	—	e 32 55	SS	—	e 45·8
Bozeman		116·7	309	e 19 58	PP	—	—	—	—
Eureka		118·0	301	e 20 1	PP	—	—	—	—
College		136·8	333	e 19 26	[+ 1]	—	—	—	—
Matusiro	z.	156·8	72	e 20 28	[+ 31]	—	—	—	—

Nov. 11d. 18h. 27m. } Epicentre 37°·25N. 26°·75E.  
20h. 4m. } Magnitude 5.  
Intensity IV at Chora; III at Limin Vatheos.  
Seismo. Institute Bull. for 1955, National Observatory of Athens, 1956, p. 65.

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1955

648

Nov. 12d. 5h. 32m. 14s. Epicentre 25°·3N. 34°·5E.

A = +·7460, B = +·5127, C = +·4250;  $\delta = 0$ ;  $h = +3$ ;  
D = +·566, E = -·824; G = +·350, H = +·241, K = -·905.

	$\Delta$	Az.	P.		O - C.	S.		O - C.	Supp.		L.
			m.	s.	s.	m.	s.	s.	m.	s.	m.
Jerusalem	6·5	5	i 1	38 <sub>a</sub>	- 1	i 3	1	+ 6	—	—	—
Ksara	8·6	8	i 2	10	+ 1	4	4	+16	—	—	—
Athens	15·6	327	i 3	42 <sub>k</sub>	- 1	i 6	37	0	i 4	1	PP
Istanbul	16·4	345	i 3	52	- 1	—	—	—	—	—	—
Goris	17·3	32	i 4	6	+ 2	i 7	26	+10	4	26	PP
Tiflis	18·5	25	i 4	20	+ 1	i 7	54	+10	—	—	—
Simferopol	19·6	359	i 4	32	0	i 8	14	+ 6	e 4	58	PP
Sofia	19·7	335	e 4	32	- 2	e 8	17	+ 7	i 4	47	PP
Bucharest	20·3	342	e 4	42	+ 2	i 8	33	+10	i 5	59	?
Reggio Calabria	20·4	313	e 4	46	+ 5	i 8	33	+ 8	—	—	e 9·8
Messina	20·6	313	i 4	44 <sub>a</sub>	+ 1	i 8	35	+ 6	i 5	11	PP
Taranto	20·9	321	4	16	-30	8	41	+ 6	—	—	—
Campulung	21·4	341	e 4	54	+ 3	e 8	54	+ 9	—	—	—
Bacau	22·1	346	e 5	1	+ 2	e 9	7	+ 9	—	—	—
Belgrade	22·6	333	i 5	4 <sub>a</sub>	+ 1	e 9	17	+10	e 5	26	PP e 19·0
Iasi	22·6	348	e 5	4	+ 1	e 9	13	+ 6	—	—	—
Timisoara	23·1	336	e 4	22	-46	i 8	31	-45	—	—	—
Ashkabad	23·8	52	i 5	18	+ 3	9	35	+ 7	—	—	—
Szeged	23·9	335	5	23	+ 7	9	37	+ 7	5	48	PP
Rome	24·6	318	i 5	23 <sub>k</sub>	0	i 9	50	+ 8	e 5	55	PP i 12·2
Budapest	25·3	335	5	32	+ 2	9	43	-11	10	43	SS 17·8
Lwow	25·8	344	i 5	34	0	e 10	9	+ 7	i 6	7	PP i 12·6
Hurbanovo	26·0	334	e 5	43	+ 7	e 10	13	+ 7	e 6	29	PP
Skalnate Pleso	26·3	339	i 5	41	+ 2	e 10	23	+12	i 6	29	PP e 12·8
Triest	26·3	326	e 5	41	+ 2	e 10	13	+ 2	e 6	23	PP e 14·1
Florence	26·4	320	e 5	40	0	i 10	31	+19	i 6	22	PP
Prato	26·6	320	e 5	49	+ 7	e 10	16	0	—	—	—
Bologna	26·8	321	e 5	55	+11	—	—	—	e 7	14	?
Raciborz	27·8	337	e 5	50 <sub>?</sub>	- 3	e 11	16	SS	e 6	33	PP
Lwiro	27·9	192	e 5	54 <sub>k</sub>	0	e 13	30	L	—	—	(e 13·5)
Salo	28·0	322	e 5	56	+ 1	e 10	51	+13	e 6	40	PP
Pavia	28·5	321	e 6	43	PP	e 11	25	+39	—	—	e 13·4
Warsaw	28·8	343	e 6	1	- 1	e 10	54	+ 3	e 6	56	PP e 11·5
Quetta	29·0	73	i 6	4 <sub>k</sub>	0	—	—	—	i 9	14	PcP i 11·8
Prague	29·2	333	i 6	4 <sub>a</sub>	- 1	i 11	3	+ 5	i 7	7	PP i 14·8
Chur	29·3	324	e 6	10	+ 4	e 6	28	PP	e 6	47	PPP
Cheb	30·1	331	i 6	13	0	i 11	14	+ 2	i 7	2	PP e 15·6
Zürich	30·1	324	e 6	17	+ 4	e 12	39	SS	7	46	PPP
Moscow	30·5	3	6	17	0	11	20	+ 2	9	3	PcP
Stuttgart	30·7	326	e 6	18	- 1	e 11	18	- 3	e 6	55	PP e 19·8
Basle	30·8	333	e 6	19	- 1	e 13	3	SS	—	—	—
Collmburg	30·8	333	e 6	18	- 2	e 11	20	- 3	e 7	17	PP e 13·0
Neuchatel	30·8	322	e 6	19	- 1	e 13	0	SS	—	—	—
Jena	31·1	331	e 6	20	- 2	e 11	23	- 5	e 6	52	PP
Karlsruhe	z. 31·3	326	e 6	22 <sub>k</sub>	- 2	e 7	23	PP	e 7	34	PPP
Stalinabad	31·7	57	i 6	28	+ 1	e 13	32	SS	—	—	—
Alicante	32·3	302	6	34	+ 1	e 11	47	+ 1	7	40	PP e 15·7
Tashkent	32·9	52	e 6	38	0	e 13	43	SS	e 7	51	PP
Almeria	33·5	299	e 6	49	+ 6	e 12	19	+14	8	5	PP 21·7
Hamburg	33·7	334	i 6	43 <sub>k</sub>	- 2	—	—	—	e 10	37	? e 14·4
Copenhagen	34·4	338	i 6	52 <sub>k</sub>	+ 1	i 12	21	+ 2	—	—	17·2
Uccle	34·4	326	e 6	54	+ 3	e 12	18	- 1	—	—	—
Granada	34·5	299	i 6	55 <sub>a</sub>	+ 3	i 12	19	- 1	8	18	PP i 20·8
Pulkovo	34·6	356	i 6	51	- 2	e 12	20	- 2	i 8	7	PP
Witteveen	z. 34·6	330	e 6	52	- 1	—	—	—	—	—	—
De Bilt	34·8	328	e 6	52	- 2	e 12	25	0	e 8	5	PP
Malaga	35·1	298	i 6	57 <sub>a</sub>	0	i 12	29	- 1	i 8	27	PPP 18·0
Toledo	35·3	304	i 6	50	- 9	e 12	34	+ 1	8	21	PP
Upsala	36·5	346	i 7	7	- 2	e 12	48 <sub>?</sub>	- 3	e 8	29	PP e 17·1
Sverdlovsk	36·7	24	7	9	- 1	12	55	+ 1	8	43	PP

Continued on next page.

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1955

649

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Poona	z.	37.0	92	i 7 15	+ 2	—	—	—	—
Frunse		37.1	52	i 7 15	+ 1	e 13 0	- 1	i 8 39	PP
Kew		37.2	324	e 7 14	- 1	i 13 9	+ 7	e 8 50	PP
New Delhi		38.0	75	i 7 7	-14	e 12 51	-23	8 28	PP
Dehra Dun		38.6	72	e 7 29	+ 3	i 13 28	+ 5	—	—
Lisbon		39.0	301	i 7 31k	+ 1	—	—	i 9 6	PP
Aberdeen		41.2	330	i 13 41	ScP	i 14 1	- 1	i 16 28	SS
Rathfarnham C.	z.	41.3	324	i 7 41a	- 8	i 9 47	PcP	i 8 55	PP
Hyderabad	k.	41.5	92	e 7 57k	+ 7	e 14 17	+10	9 36	PP
Sempalatinsk		43.0	42	i 8 4	+ 1	e 14 30	+ 1	i 9 49	PP
Kodaikanal	E.	43.3	102	e 8 7	+ 2	—	—	—	—
Kiruna		43.4	353	i 8 11k	+ 5	i 14 41	+ 6	i 9 50	PP
Chatra	E.	47.0	76	e 8 37	+ 2	—	—	—	—
Pretoria	z.	51.1	187	i 9 6k	0	—	—	—	—
Shillong		51.4	77	i 9 6k	- 3	e 16 24	- 4	10 13	PcP
Reykjavik	z.	53.0	333	i 9 21	0	—	—	—	—
Kimberley	z.	54.5	190	i 9 31a	- 1	—	—	—	—
Pietermaritzburg	z.	54.7	184	i 9 2?	-31	—	—	—	—
Irkutsk		58.2	43	9 57k	- 1	e 18 1	+ 2	—	—
Grahamstown	z.	58.8	188	i 10 15a	+13	—	—	—	—
Hong Kong		71.9	73	e 11 26	- 1	—	—	—	—
Resolute Bay		75.1	348	i 11 45a	- 1	e 20 46	-38	14 11	PP
Lembang	z.	77.8	104	i 11 58k	- 3	—	—	—	—
Baguio		79.7	77	i 11 48	-23	—	—	—	—
Ulegorsk		81.9	39	e 12 24	+ 1	e 22 38	+ 2	—	—
Matusiro		85.4	52	i 12 40	0	e 23 3	[ 0]	28 19	SS
Ottawa		85.4	318	i 12 40k	0	16 2	PP	13 3	pP
Kirkland Lake	z.	86.4	322	e 12 45	0	—	—	—	—
College		90.1	1	i 13 2	- 1	—	—	i 14 8	?
Chapel Hill		92.6	312	i 13 16	+ 1	—	—	—	—
Hungry Horse		101.5	339	e 13 56	+ 1	—	—	—	—
Eureka		109.9	336	e 18 22	[-11]	—	—	—	—

Nov. 12d. 8h. 57m. Epicentre 44°N. 147°E. Probably very deep.

Intensity II-III at Nemuro.

Seismo. Bull. Cent. Met. Obs., Japan, for Nov., 1955, Tokyo, 1956, pp. 15, 16.

Nov. 12d. 10h. 7m. 58s. Epicentre 5°38S. 153°9E. Depth of focus focus 0.010.

A = -0.8942, B = +0.4381, C = -0.0917;  $\delta = -7$ ;  $h = +7$ ;

D = +0.440, E = +0.898; G = +0.082, H = -0.040, K = -0.996.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Rabaul	z.	2.1	303	i 0 35	+ 1	—	—	—	—
Brisbane		22.0	182	i 4 51	+ 4	i 8 44	+ 5	—	—
Riverview		28.5	185	i 5 47a	- 1	—	—	—	—
Melbourne	E.	33.4	193	i 6 32	+ 1	e 11 42	- 2	e 7 4	?
Onerahi	E.	35.6	151	e 6 51	+ 1	e 12 57	+39	—	—
Karapiro	N.	37.9	152	e 7 8	- 1	—	—	—	—
Manila		38.2	302	e 7 11	- 1	—	—	e 9 6	PP
New Plymouth	E.	38.2	154	e 7 12	0	e 13 22	+24	e 8 58	PP
Baguio		39.4	304	i 7 22	0	—	—	—	—
Cobb River	E.	39.4	157	e 7 20	- 2	e 13 52	+36	—	—
Kaimata	N.E.	40.2	160	e 7 31	+ 3	—	—	—	—
Wellington		40.3	156	e 7 27	- 2	e 13 27	- 2	e 9 32	PP
Christchurch		41.4	159	i 7 35a	- 3	e 13 38	- 8	i 10 2	PPP
Matusiro		44.2	342	i 7 58k	- 3	14 12	-14	e 8 24	pP
Perth		44.4	229	i 7 55	- 8	i 14 57	+28	i 10 25	PPP
Bandung		46.0	266	e 8 14	- 1	e 14 52	0	—	—
Lembang		46.1	266	i 8 14a	- 2	e 14 52	- 2	—	—
Djakarta		46.9	267	e 8 22	0	e 15 11	+ 6	—	—
Hong Kong		47.6	307	8 28a	0	e 15 19?	+ 4	e 8 47	pP
Zô-Sè		47.9	321	e 8 29	- 1	15 17	- 2	—	—

Continued on next page.

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1955

650

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Nanking	50.0	320	e 8 46	0	e 15 53	+ 5	—	—
Changchun	55.3	335	e 9 29	+ 3	—	—	—	—
Peking	57.0	326	—	—	e 17 17	- 6	—	—
Sian	57.9	316	e 9 56	+12	17 56	+21	—	—
Tatung	58.6	324	e 9 49	0	—	—	—	—
Shillong	67.6	300	i 10 47 <sub>a</sub>	- 1	i 19 34	- 2	11 11	PcP
Chatra	E. 72.0	300	e 11 18	+ 3	—	—	—	—
Bokaro	72.4	297	e 11 17	0	i 20 32	0	i 21 21	PS
Kodaikanal	E. 77.7	282	e 11 50	+ 2	—	—	—	—
Dehra Dun	80.6	302	e 12 3	0	i 22 0	- 1	16 53	PPP 33.6
College	81.9	22	i 12 6	- 4	—	—	i 12 30	pP
Poona	Z. 82.3	289	i 12 11	- 1	—	—	—	—
Bombay	83.4	290	e 13 17	+59	22 28	- 1	e 15 36	PP
Shasta	Z. 88.7	49	e 12 39	- 5	—	—	—	—
Lick	Z. 88.8	52	i 12 46	+ 2	—	—	i 13 15	pP
Mineral	Z. 89.2	50	e 12 47	+ 1	—	—	—	—
Quetta	90.1	300	e 12 49 <sub>a</sub>	- 1	i 23 31	- 2	e 13 4	pP
Reno	Z. 90.5	50	e 13 8	+16	—	—	—	—
Pasadena	91.2	56	e 12 57	+ 2	—	—	e 13 19	pP e 41.0
Tinemaha	Z. 91.4	53	e 12 55	- 1	—	—	e 13 22	pP
Riverside	Z. 91.8	56	e 12 58	0	e 17 13	PP	i 13 23	pP
Palomar	Z. 92.2	57	e 13 3	+ 3	—	—	e 13 30	pP
Barratt	Z. 92.3	58	e 13 25	pP	—	—	i 13 45	pP
Eureka	93.4	51	e 13 3	- 3	—	—	—	—
Boulder City	94.1	54	e 13 12	+ 3	e 17 22	PP	e 13 33	pP
Hungry Horse	95.3	42	e 13 39	pP	—	—	e 16 15	?
Butte	N. 96.2	44	e 17 8	PP	—	—	—	—
Resolute Bay	100.6	15	e 13 39	+ 1	e 24 2	[- 5]	e 32 15	SS e 43.2
Kiruna	110.2	343	i 21 45	PKS	e 24 57	[+ 7]	e 28 19	PS e 48.0
Kimberley	Z. 120.5	232	i 19 14	[+34]	—	—	—	—
Ottawa	121.3	39	i 18 41 <sub>a</sub>	[- 1]	—	—	—	—
Seven Falls	123.4	35	i 18 38 <sub>k</sub>	[- 8]	—	—	—	—
Collmberg	Z. 123.9	332	e 18 45	[- 2]	—	—	—	—
Lwiro	124.6	264	e 18 50	[+ 2]	—	—	e 19 15	pPKP
Jena	Z. 124.8	332	e 18 50 <sub>?</sub>	[+ 1]	e 20 52	PP	e 19 13	pPKP
Stuttgart	127.4	331	e 18 52	[- 2]	e 20 55	PP	19 19	pPKP
Huancayo	128.0	110	e 18 36	[-19]	e 31 55	PPS	—	—
Florence	E. 129.6	325	e 21 17	PP	e 22 26	PKS	—	—
Rome	130.0	323	e 21 12	PP	e 22 14	PKS	e 32 28	PPS e 52.3
Messina	E. 130.0	317	e 22 14	PKS	e 25 57	[+ 1]	—	—
La Paz	133.1	118	e 19 14	[+10]	i 22 40	PKS	i 23 30	?
San Juan	138.8	68	e 19 15	[ 0]	—	—	—	—
Trinidad	144.5	79	e 19 21	[- 4]	—	—	—	—

Nov. 12d. 11h. 12m. Epicentre 10°N. 126°E. Felt at Surigao.  
Seismo. Bull. Government of India Meteorological Department, Nov., 1955, p. 5.

Nov. 12d. 12h. 19m. Epicentre 22°-5S. 179°-0E. Depth about 600km.  
Seismo. Observatory Bull. No. E-136, New Zealand Department of Scientific and Industrial Research, Geophysics Division, Wellington, 1961, p. 59.

Nov. 12d. 15h. 45m. Epicentre 17°-5S. 167°-5E.  
*Loc. cit.*, 12h., pp. 59, 60.

Nov. 13d. 7h. 27m. } Epicentre 38°-9N. 71°-0E.  
9h. 24m. }  
Magnitude 4.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, pp. 51, 52.

Nov. 13d. 12h. 11s. Epicentre 39°-4N. 72°-4E.  
*Loc. cit.*, 7h. and 9h., p. 53.

Nov. 13d. 23h. 7m. Epicentre 33°-5E. 180°. Depth 285km. Magnitude 5.8.  
*Loc. cit.*, Nov. 12d. 12h., p. 60.

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1955

651

Nov. 14d. 3h. 9m. 19s. Epicentre 14°·4S. 167°·2E. Depth of focus 0·035.

A = -·9449, B = +·2147, C = -·2471;  $\delta = -1$ ;  $h = +6$ ;  
D = +·222, E = +·975; G = +·241, H = -·055, K = -·969.

		$\Delta$ °	Az. °	P.		O-C, s.	S.		O-C, s.	Supp.		L. m.	
				m.	s.		m.	s.		m.	s.		
Rabaul		18·0	303	i 3	55	+ 1	i 7	11	+ 8	e 15	19	ScS	—
Brisbane		18·5	223	i 4	0	0	i 7	23	+11	—	—	—	—
Apia		20·4	91	e 4	18	0	—	—	—	—	—	—	—
Onerahi		22·2	164	e 4	34	- 2	e 5	30	?	—	—	—	—
Auckland	N.	23·3	164	e 4	41?	- 5	—	—	—	—	—	—	—
Riverview		24·2	214	i 4	56 <sub>a</sub>	+ 1	i 8	47	- 5	i 5	34	pP	—
Karapiro	N.	24·5	164	e 5	41?	PP	—	—	—	—	—	—	—
Wellington		27·5	168	i 7	34	?	(e 10	41?)	+55	—	—	—	e 10·7
Manila		54·1	300	i 8	58	- 2	—	—	—	—	—	—	—
Baguio		55·4	302	i 9	8 <sub>a</sub>	- 2	—	—	—	i 10	3	pP	—
Matusiro		57·6	332	i 9	24 <sub>a</sub>	- 2	e 16	55	- 7	10	9	pP	e 23·2
Lembang		58·9	271	i 9	26	- 8	i 17	20	+ 2	—	—	—	—
Djakarta		59·8	271	i 9	35 <sub>a</sub>	- 5	e 17	33	+ 3	—	—	—	—
Nanking		65·5	316	10	17	- 1	—	—	—	—	—	—	—
Changchun		69·5	329	e 10	43	+ 1	—	—	—	—	—	—	—
Peking		72·0	321	e 10	59	+ 1	—	—	—	—	—	—	—
Sian		73·6	313	e 11	23	+16	—	—	—	—	—	—	—
Shillong	Z.	83·4	298	i 12	0 <sub>a</sub>	0	—	—	—	—	—	—	—
Berkeley	Z.	84·0	49	i 12	2 <sub>a</sub>	0	—	—	—	i 12	53	pP	—
Lick	Z.	84·3	49	i 12	3 <sub>a</sub>	- 1	—	—	—	i 12	54	pP	—
Shasta	Z.	85·1	46	i 12	7 <sub>a</sub>	- 1	—	—	—	i 12	57	pP	—
Fresno	Z.	85·4	50	e 12	9 <sub>a</sub>	- 1	—	—	—	i 12	59	pP	—
Mineral	Z.	85·5	46	e 12	8 <sub>a</sub>	- 2	—	—	—	i 12	59	pP	—
Pasadena		85·7	53	i 12	11 <sub>a</sub>	- 1	—	—	—	i 13	2	pP	—
Isabella	Z.	86·0	52	i 12	2 <sub>a</sub>	-10	—	—	—	i 13	3	pP	—
College		86·1	18	i 12	9	- 5	i 13	28	sP	i 12	58	pP	—
Riverside	Z.	86·3	54	i 12	13 <sub>a</sub>	- 1	—	—	—	i 13	4	pP	—
Barratt	Z.	86·4	55	i 12	13 <sub>a</sub>	- 1	—	—	—	i 13	3	pP	—
Reno	Z.	86·4	48	e 12	14	0	—	—	—	e 13	4	pP	—
Tinemaha	Z.	86·7	51	i 12	14 <sub>a</sub>	- 2	—	—	—	i 13	5	pP	—
Chatra	E.	87·8	298	e 12	25	+ 3	—	—	—	—	—	—	—
Boulder City		88·9	52	i 12	26	0	e 14	2	sP	i 13	16	pP	—
Eureka		89·2	49	i 12	28	0	e 38	13	P'P'	i 13	20	pP	—
Tucson		91·0	57	i 12	36	0	—	—	—	i 13	25	pP	—
Hungry Horse		93·4	41	e 12	46	- 2	e 38	8	P'P'	e 13	38	pP	—
Butte	N.	93·6	44	e 12	44	- 4	—	—	—	e 13	40	pP	—
Bozeman		94·6	44	e 12	54	+ 2	—	—	—	e 13	45	pP	—
Poona		97·6	287	i 13	6	0	—	—	—	—	—	—	—
Quetta		105·9	298	e 13	44	+ 2	e 17	35	?	e 17	57	PP	—
San Juan		128·8	77	e 18	37	[ 0]	—	—	—	e 19	31	pPKP	—
Upsala	Z.	129·5	341	i 18	39 <sub>k</sub>	[+ 1]	—	—	—	—	—	—	—
Ksara		132·1	303	18	47	[+ 3]	i 21	59	pPP	i 23	29	PPP	—
Jerusalem		133·0	300	i 18	47	[+ 2]	—	—	—	i 20	40	pPKP	—
Lwiro		135·6	251	i 18	52	[+ 2]	—	—	—	—	—	—	—
Raciborz		136·5	331	e 18	54	[+ 2]	—	—	—	—	—	—	—
Hamburg	Z.	137·1	340	e 18	55	[+ 2]	—	—	—	—	—	—	—
Collmberg	Z.	137·8	336	e 18	55	[+ 1]	—	—	—	e 23	35	pPP	—
Prague		138·2	334	i 18	56	[+ 1]	e 20	14	sPKP	i 19	52	pPKP	—
Jena		138·6	337	i 18	53	[- 2]	—	—	—	e 20	6	pPKP	—
Witteveen	Z.	138·7	342	e 18	57	[+ 1]	—	—	—	—	—	—	—
Cheb	N.	139·0	335	e 18	59	[+ 3]	e 23	17	PKS	e 22	7	PP	—
Uccle		141·2	343	e 19	1	[+ 1]	—	—	—	—	—	—	—
Stuttgart		141·3	337	i 18	57 <sub>a</sub>	[- 3]	e 22	21	PP	e 19	56	pPKP	—
Karlsruhe	Z.	141·4	338	e 19	2 <sub>a</sub>	[+ 2]	—	—	—	e 20	1	pPKP	—
Triest		141·7	330	e 19	3	[+ 2]	e 26	21	[+37]	e 22	51	SKP	—

Continued on next page.

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**1955**

**652**

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Zürich	142.7	336	e 19	1	[- 2]	—	—	—	19	46	pPKP	—
Taranto	143.2	320	e 20	41?	pPKP	—	—	—	—	—	—	—
Salo	143.3	332	e 19	5	[+ 1]	e 22	42	PKS	e 19	44	pPKP	—
Neuchatel	143.6	337	e 19	3	[- 1]	—	—	—	—	—	—	—
Florence	z. 144.3	330	i 19	5 <sub>a</sub>	[- 1]	i 22	25	PP	i 19	50	pPKP	—
Prato	144.3	330	i 19	7	[+ 1]	e 29	51	PKKP	—	—	—	—
Rome	145.0	326	i 19	8 <sub>a</sub>	[+ 1]	e 22	27	PP	i 19	51	pPKP	—
Messina	145.6	319	i 19	8 <sub>k</sub>	[ 0]	e 27	19	sSKS	i 19	58	pPKP	—
Reggio Calabria	N. 145.6	318	e 19	10	[+ 2]	—	—	—	—	—	—	—

Nov. 14d. 12h. 37m.3s. Epicentre 34°·5N, 136°·8E. Depth of focus 20km.  
Intensity IV at Kameyama, Nagoya, and Kyoto; II-III at Tu, Gihu, Owase, Hikone, Osaka, Maizuru, and Nara.  
Seismo. Bull. Cent. Met. Obs., Japan, Nov., 1955, Tokyo, 1956, pp. 16, 17, with macro-seismic chart.

Nov. 14d. 13h. 9m. Epicentre 14°S, 167°E. Depth of focus 200km.  
New Zealand Seismological Report for 1955, No. E-136, New Zealand Department of Scientific and Industrial Research, Geophysics Division, Wellington, 1961, p. 60.

Nov. 14d. 13h. 23m. 21s. Epicentre 17°·4N, 145°·8E. Depth of focus 0·030.

$$A = -0.7897, B = +0.5367, C = +0.2972; \quad \delta = 0; \quad h = +5;$$

$$D = +0.562, E = +0.827; \quad G = -0.246, H = +0.167, K = -0.955.$$

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Mera	18.2	344	3	57	- 2	7	18	+ 7	e 8	2	?	9.2
Osima	18.2	343	e 3	57	- 2	i 7	12	+ 1	—	—	—	—
Omaesaki	18.4	340	e 4	12	+11	e 7	28	+14	e 5	32	?	e 8.8
Ajiro	18.5	343	e 4	4	+ 2	—	—	—	—	—	—	—
Hamamatu	18.6	339	e 6	33	?	—	—	—	—	—	—	—
Misima	18.6	342	e 4	4	+ 1	e 7	20	+ 2	e 8	7	sS	—
Shizuoka	18.6	341	e 3	58	- 5	e 7	23	+ 5	—	—	—	—
Yokohama	N. 18.7	344	e 4	3	- 1	e 7	24	+ 4	e 5	15	sP	—
Tokyo	18.9	345	e 4	9	+ 3	e 7	30	+ 6	e 4	54	pP	—
Yakusima	19.0	316	e 4	7	0	e 7	34	+ 8	—	—	—	—
Hunatu	19.1	342	e 4	5	- 3	e 7	33	+ 5	e 8	15	?	—
Simidu	19.1	325	e 4	5	- 3	e 7	39	+11	e 4	54	pP	—
Kameyama	19.2	336	e 4	14	+ 5	—	—	—	—	—	—	e 9.2
Kohu	N. 19.2	342	e 4	11	+ 2	e 7	46	+16	—	—	—	—
Nagoya	19.3	338	e 4	13	+ 3	e 7	43	+12	—	—	—	—
Kakioka	E. 19.4	346	e 4	18	+ 7	e 7	41	+ 8	—	—	—	—
Koti	19.4	328	e 4	20	+ 9	e 7	45	+12	e 4	57	pP	8.6
Mito	19.4	347	4	10	- 1	7	41	+ 8	—	—	—	—
Miyazaki	19.4	321	e 4	30	+19	e 8	31	?	—	—	—	—
Osaka	19.4	334	e 4	55	pP	e 8	19	pS	—	—	—	—
Sumoto	19.4	332	e 4	35	+24	e 7	40	+ 7	—	—	—	—
Titibu	E. 19.4	344	e 4	10	- 1	e 7	38	+ 5	—	—	—	—
Kumagaya	19.5	344	e 4	11	- 1	e 7	41	+ 6	—	—	—	—
Kobe	19.6	333	e 4	8	- 5	—	—	—	e 10	8	Q	—
Hikone	19.7	336	e 4	35	pP	e 7	49	+10	—	—	—	—
Kagosima	19.7	318	e 4	39	pP	e 8	38	sS	e 5	10	sP	—
Kyoto	19.7	335	e 4	40	pP	e 8	30	sS	—	—	—	—
Utsunomiya	19.7	346	e 4	10	- 4	e 7	43	+ 4	e 8	47	?	—
Maebasi	19.8	344	e 4	17	+ 2	e 7	45	+ 4	e 4	47	pP	—
Takamatu	19.8	330	e 4	13	- 2	—	—	—	e 8	33	?	—
Oiwake	19.9	343	e 4	18	+ 2	e 7	42	0	—	—	—	—
Onahama	19.9	348	e 4	12	- 4	e 7	49	+ 7	—	—	—	—
Matumoto	N. 20.0	341	e 4	35	pP	7	54	+10	—	—	—	—
Matuyama	N. 20.1	327	e 4	44	pP	e 7	52	+ 6	—	—	—	e 8.7
Matusiro	20.2	342	i 4	14	- 5	i 8	30	sS	4	47	pP	9.3

Continued on next page.

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1955

653

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Shirakawa		20.2	347	e 4 15	- 4	e 7 55	+ 7	—	—
Nagano	N.	20.3	342	e 4 23	+ 3	i 7 57	+ 7	i 5 15	pP
Kumamoto	N.	20.5	321	e 4 25	+ 3	—	—	—	—
Toyama		20.6	340	e 4 46	pP	—	—	—	—
Inawasiro		20.7	347	4 23	- 1	i 8 7	+10	i 4 58	pP
Takada		20.7	343	e 4 31	+ 7	e 8 35	pS	—	—
Hokusima		20.8	348	e 4 21	- 4	e 8 5	+ 6	—	—
Saga		21.0	321	e 4 46	pP	i 9 11	sS	i 5 48	sP
Hamada		21.2	328	e 4 44	pP	e 8 59	sS	—	—
Hukuoka		21.2	322	e 4 50	pP	e 8 10	+ 4	i 5 14	pP
									e 9.1
Niigata		21.2	345	e 4 23	- 6	e 8 23	pS	—	—
Sendai		21.2	349	e 4 23	- 6	e 8 13	+ 7	e 4 52	pP
Tomie	E.	21.5	318	e 4 28	- 4	—	—	e 9 12	?
Mizusawa	N.	22.0	350	e 4 38	+ 1	8 33	+13	—	—
Miyako		22.4	352	4 39	- 1	8 33	+ 6	—	—
Rabaul		22.4	163	i 4 40	0	i 8 26	- 1	—	—
Morioka		22.5	351	e 4 41	0	e 8 41	+13	—	—
Akita		22.7	349	e 4 45	+ 2	e 9 15	pS	i 5 25	pP
Hatinohe		23.3	352	e 4 45	- 4	e 8 49	+ 7	—	—
Aomori		23.7	351	e 4 59	+ 6	—	—	e 5 39	pP
Manila		24.0	267	i 4 55	- 1	—	—	i 5 23	pP
Baguio		24.1	271	i 4 59 <sub>a</sub>	+ 2	i 9 4	+ 9	—	—
Urakawa		24.8	355	e 5 5	+ 2	e 9 41	pS	—	—
Mori		25.0	351	e 5 6	+ 1	e 9 22	+12	i 5 45	pP
Muroran		25.1	352	e 5 4	- 2	—	—	—	—
Tomakomai		25.2	353	e 5 41	pP	—	—	—	—
Kusiro		25.5	358	e 5 6	- 3	e 9 24	+ 6	e 10 15	pS
Obihiro	z.	25.5	356	e 5 8	- 1	—	—	—	—
Nemuro		25.8	0	—	—	i 9 28	+ 5	—	—
Sapporo		25.8	353	i 5 9	- 3	i 9 29	+ 6	e 6 9	pP
Zô-Sê		26.1	306	e 5 44	pP	—	—	—	—
Wakkanai		28.1	354	e 5 59	pP	—	—	—	—
Nanking		28.4	306	e 6 8	pP	—	—	—	—
Changchun		31.5	331	e 6 47	pP	—	—	—	—
Peking		34.1	317	e 6 54	pP	—	—	—	—
Tatung		36.0	316	e 7 16	pP	—	—	—	—
Sian		36.9	304	e 7 36	pP	—	—	—	—
Wuwei		42.8	307	e 8 11	pP	—	—	—	—
Lembang		44.7	241	i 7 50 <sub>k</sub>	- 2	e 14 9	- 2	—	—
Djakarta		45.0	242	e 7 57 <sub>k</sub>	+ 2	e 14 30	+14	—	—
Brisbane		45.2	171	i 7 55	- 1	i 14 20	+ 2	—	—
Shillong		50.5	289	i 8 36	- 1	i 15 40	+ 8	9 12	pP
Riverview		51.2	174	i 8 43 <sub>k</sub>	+ 1	i 15 52	+10	i 11 47	PPP
Chatra	E.	54.7	291	e 9 14	+ 6	—	—	—	—
Bokaro		56.1	287	e 9 52	pP	i 16 55	+ 7	i 17 59	sS
Onerahi	E.	59.5	153	e 9 39?	- 3	—	—	—	—
Karapiro	N.	61.8	154	9 57	0	e 19 42	pPS	—	—
Dehra Dun		62.4	296	e 10 33	pP	i 18 18	+10	i 19 19	sS
Tuai	N.	63.2	153	e 10 5	- 1	—	—	—	—
Cobb River	E.	63.4	157	e 10 7	- 1	—	—	—	—
Kaimata	N.E.	64.2	159	e 10 17	+ 4	—	—	—	—
Wellington		64.3	156	e 10 11	- 3	—	—	—	—
College		64.4	26	i 10 11	- 3	—	—	i 10 48	pP
Colombo	E.	65.0	270	10 34	+16	18 54	+14	—	—
Poona	z.	68.0	283	i 10 38	+ 1	—	—	i 11 16	pP
Bombay		68.8	284	e 11 16	pP	e 19 35	+ 9	—	—
Quetta		72.0	297	e 11 1	0	i 20 13	+10	e 11 37	pP
Horseshoe Bay		77.6	42	11 34	+ 1	—	—	—	—
Victoria		77.7	43	11 33	0	—	—	—	—
Seattle		78.6	44	i 11 40	+ 2	—	—	e 12 23	pP

Continued on next page.

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1955

654

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Shasta	z.	80.2	50	i 11	48k	+ 1	—	—	—	i 12	26	pP	—
Resolute Bay		80.6	14	i 11	48k	- 1	e 22	10	PS	e 15	4	PP	—
Mineral	z.	80.9	51	i 11	51k	+ 1	—	—	—	i 12	29	pP	—
Berkeley	z.	81.0	53	e 11	52k	+ 1	—	—	—	e 12	31	pP	—
Lick	z.	81.6	54	i 11	55k	+ 1	—	—	—	—	—	—	—
Reno	z.	82.4	51	i 11	59k	+ 1	—	—	—	e 12	36	pP	—
Fresno	z.	83.2	54	e 12	3	+ 1	—	—	—	e 12	37	pP	—
Hungry Horse		83.7	41	i 12	6	+ 1	e 15	19	PP	i 12	43	pP	—
Tinemaha	z.	84.3	53	i 12	8k	0	—	—	—	i 12	48	pP	—
Isabella	z.	84.6	54	i 12	9k	0	—	—	—	i 12	47	pP	—
Pasadena		85.2	56	i 12	14k	+ 2	—	—	—	i 12	52	pP	—
Eureka		85.3	50	i 12	13	0	—	—	—	e 12	52	pP	—
Butte	N.	85.5	43	i 12	15	+ 1	i 13	8	?	i 12	46	pP	—
Riverside	z.	85.9	56	i 12	15k	- 1	—	—	—	i 12	53	pP	—
Kiruna		86.2	342	i 12	13	- 4	e 23	31	sS	i 12	57	pP	e 40.6
Bozeman		86.6	43	i 12	20	+ 1	—	—	—	i 12	59	pP	—
Barratt	z.	86.9	57	i 12	21k	0	—	—	—	i 12	59	pP	—
Boulder City		87.3	53	i 12	24	+ 1	—	—	—	i 13	2	pP	—
Salt Lake City		87.8	48	i 12	27	+ 2	e 16	28	PP	i 13	5	pP	—
Tucson		91.7	56	i 12	45	+ 2	—	—	—	i 13	28	pP	—
Upsala	z.	92.3	337	e 12	44	- 2	—	—	—	—	—	—	—
Boulder		92.7	47	i 12	49	+ 1	—	—	—	—	—	—	—
Ksara		96.0	308	i 17	41	pPP	—	—	—	e 28	42	PKKP	—
Fayetteville		102.3	46	e 13	32	+ 1	—	—	—	e 17	44	PP	—
Kew		105.2	339	—	—	—	e 23	39? [-22]	—	—	—	—	—
Lwiro		116.4	276	e 20	7	PP	—	—	—	—	—	—	—
Huancayo		140.0	88	e 18	59	[- 3]	—	—	—	—	—	—	—
La Paz		147.5	93	i 19	19	[+ 4]	22	43	PP	i 19	24	PKP <sub>2</sub>	—

Nov. 14d. 17h. 52m. Epicentre  $45^{\circ}7'N$ ,  $26^{\circ}4'E$ . Depth of focus 140km.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 70.

Nov. 15d. 10h. 6m. 47s. Epicentre  $55^{\circ}4'N$ ,  $155^{\circ}6'W$ .

$$A = -.5195, B = -.2357, C = +.8213; \quad \delta = -3; \quad h = -7;$$

$$D = -.413, E = +.911, G = -.748, H = -.339, K = -.570.$$

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
College		10.3	19	i 2	28	- 4	e 4	15	-15	—	—	i 5.2	
Sitka		11.4	73	e 2	45	- 2	e 4	42	-14	i 2	58	PP	e 5.1
Horseshoe Bay		20.5	94	4	42	0	—	—	—	—	—	—	
Victoria		20.8	96	4	46	+ 1	—	—	—	—	—	—	
Seattle		21.9	97	i 4	59k	+ 2	8	49	- 5	—	—	9.1	
Corvallis	z.	23.2	104	i 5	11	+ 2	i 9	29	+11	—	—	—	
Hungry Horse		26.3	88	e 5	39	0	e 10	16	+ 5	i 7	50	?	—
Shasta		26.3	110	e 5	39	0	e 10	23	+12	e 6	20	PP	e 12.8
Petropavlovsk		26.5	284	e 5	39	- 2	i 10	9	- 5	6	16	PP	—
Mineral	z.	27.0	110	e 5	45	0	—	—	—	e 9	4	PcP	—
Ukiah		27.0	114	e 6	4	+19	e 10	25	+ 3	—	—	—	e 11.6
Berkeley		28.4	114	e 5	58	0	e 10	53	+ 8	e 9	9	PcP	e 12.1
Butte	N.	28.4	91	e 5	59	+ 1	i 10	34	-11	i 6	56	PP	i 12.4
Magadan		28.5	301	e 5	58	- 1	i 10	47	+ 1	—	—	—	—
Reno	z.	28.5	109	e 5	57	- 2	—	—	—	—	—	—	—
Saskatoon		28.6	76	e 6	3	+ 3	e 10	51	+ 3	—	—	—	—
Santa Clara		29.0	114	e 6	10	+ 6	e 10	57	+ 3	—	—	—	—
Lick	z.	29.2	114	e 6	4	- 1	—	—	—	e 9	9	PcP	—
Bozeman		29.4	90	e 6	10	+ 3	e 11	4	+ 3	i 11	26	SS	e 13.3
Resolute Bay		30.0	28	e 6	11	- 1	e 11	2	- 8	i 7	6	PP	e 12.2
Fresno	z.	30.5	112	e 6	17	0	—	—	—	e 7	22	PP	—
Eureka		30.6	105	i 6	18	0	i 12	56	ScP	i 7	15	PP	e 13.7
Tinemaha	z.	31.2	110	i 6	25	+ 2	e 11	22	- 7	i 7	23	PP	—
Isabella	z.	32.1	112	i 6	30	- 1	—	—	—	—	—	—	—
Salt Lake City		32.1	99	e 6	33	+ 2	e 11	50	+ 7	—	—	—	e 13.9

Continued on next page.

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## 1955

## 655

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Pasadena		33.4	114	e 6 41	- 1	i 12 7	+ 4	e 8 3	PP	e 14.2
Boulder City		33.8	108	i 6 46	0	—	—	i 7 43	PP	—
Riverside	z.	33.9	113	e 6 46	- 1	—	—	—	—	—
Honolulu		34.1	184	—	—	e 11 53	-21	—	—	e 13.8
Rapid City	E.	34.9	87	e 6 52	- 3	e 12 22	- 5	e 8 22	PP	e 15.9
Barratt		35.3	114	i 6 59	0	i 12 34	+ 1	—	—	—
Yuzno-Sakhlinsk		38.4	284	i 7 25	0	i 13 19	- 1	i 8 59	PP	—
Tucson		38.8	108	e 7 29	+ 1	i 13 45	+19	e 9 11	PP	e 16.8
Kirkland Lake	z.	45.1	66	e 8 21	+ 1	—	—	i 10 7	PP	—
Fayetteville		45.3	89	i 8 20	- 1	e 15 6	+ 4	e 18 40	ScS	—
Florissant		45.6	83	i 8 26	+ 2	e 14 57	- 9	e 18 20	SS	—
St. Louis		45.8	83	e 8 24	- 1	i 15 8	- 1	i 10 14	PP	—
Dallas		46.2	94	e 8 28	0	i 15 4	-11	—	—	—
Vladivostok		46.8	287	e 8 33	0	i 15 20	- 4	—	—	—
Little Rock	E.	47.3	88	e 8 35	- 2	—	—	—	—	—
Matusiro		47.8	276	8 37 <sup>k</sup>	- 4	i 15 35	- 3	i 10 44	PP	21.1
Cleveland		48.7	74	i 8 49 <sup>a</sup>	+ 1	e 15 55	+ 5	e 19 30	SS	—
Ottawa		49.2	66	e 8 50	- 2	15 53	- 5	9 15	pP	23.3
Shawinigan Falls		49.9	64	i 8 57	0	e 15 29	-38	i 10 52	PP	—
Scoresby Sund		50.1	18	e 8 58	- 1	e 16 12	+ 2	e 20 10	SS	24.2
Seven Falls		50.5	62	i 8 53 <sup>?</sup> <sub>a</sub>	- 9	16 1 <sup>?</sup>	-15	10 59 <sup>?</sup>	PP	24.0
Morgantown		50.9	75	i 9 6	+ 1	—	—	—	—	—
Pennsylvania		51.2	72	i 9 19	+12	e 16 38	+13	i 11 13	PP	—
Washington	z.	53.0	73	e 9 21	0	—	—	—	—	e 28.0
Palisades		53.2	69	i 9 23	+ 1	i 16 54	+ 2	i 11 23	PP	e 25.2
Philadelphia		53.2	71	—	—	e 16 53	+ 1	e 19 9	ScS	e 22.4
Fordham		53.3	69	i 9 23	0	e 17 1	+ 7	—	—	—
Chapel Hill		54.0	77	i 9 29	+ 1	—	—	—	—	—
Irkutsk		54.1	312	9 26 <sup>a</sup>	- 3	—	—	—	—	—
Columbia		54.3	80	e 9 27	- 3	e 17 10	+ 3	e 10 11	PcP	e 26.9
Tacubaya		55.3	107	e 9 38	0	—	—	—	—	—
Halifax		55.9	60	i 9 40 <sup>a</sup>	- 2	17 39	+10	e 21 13	SS	—
Kiruna		57.1	2	i 9 48 <sup>k</sup>	- 2	i 17 43	- 2	i 9 59	pP	e 23.2
Peking		57.4	294	e 9 50	- 3	e 17 47	- 2	—	—	—
Tatung		58.8	296	e 10 0	- 2	—	—	—	—	—
Zô-Sê		61.3	284	e 10 19	- 1	18 40	+ 1	—	—	—
Nanking		61.9	286	e 10 23	- 1	18 50	+ 3	—	—	—
Sverdlovsk		64.4	339	e 10 40	0	19 16	- 2	14 45	PPP	—
Semipalatinsk		64.8	324	i 10 43	0	—	—	—	—	—
Upsala		65.0	4	i 10 41	- 3	i 19 24	- 2	i 10 53	pP	e 27.2
Pulkovo		65.1	357	i 10 44	- 1	e 19 25	- 2	i 11 23	PcP	—
Sian		65.5	295	e 10 57	+10	19 33	+ 1	—	—	—
Aberdeen		65.8	16	—	—	i 19 37	+ 2	e 21 37	?	e 35.2
Durham		68.2	16	—	—	i 20 4	0	i 26 24	SSS	—
Moscow		68.7	352	11 9	+ 2	20 16	+ 6	11 24	PcP	—
Rathfarnham Castle		68.8	19	i 11 9	+ 1	e 20 28	+17	i 11 28	PcP	e 33.2
Copenhagen		68.9	7	i 11 9	0	i 20 15	+ 2	21 12	ScS	35.2
Apia		70.3	197	e 11 20	+ 3	—	—	—	—	—
Hamburg		70.8	9	i 11 22	+ 2	e 20 40	+ 5	e 21 50	ScS	e 43.2
Witteveen	z.	71.2	11	i 11 23 <sup>a</sup>	0	—	—	—	—	—
Kew		71.6	16	e 11 27	+ 2	e 20 43	- 1	e 24 36	SS	e 32.2
De Bilt		71.7	12	i 11 36	+10	e 20 45	0	—	—	e 31.2
Hong Kong		72.1	283	11 38	+10	20 53	+ 3	—	—	—
Warsaw		72.7	2	i 11 33	+ 1	e 20 50	- 7	e 11 50	PcP	e 33.2
Uccle		72.9	13	e 11 33	0	e 20 59	0	i 11 44	PcP	e 30.2
Baguio		73.2	275	i 11 36	+ 1	i 21 4	+ 2	—	—	—
Rabaul	z.	73.2	236	i 11 31	- 4	—	—	—	—	—
Collmberg	z.	73.3	8	e 11 34	- 1	—	—	e 14 19	PP	—
Frunse		73.3	324	i 11 35	0	i 21 6	+ 2	i 16 2	PPP	—
Jena		73.5	8	e 11 37	+ 1	e 21 13	+ 7	e 14 16	PP	—

Continued on next page.

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1955

656

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Cheb	74.4	8	i 11 43	+ 1	e 21 28?	+12	i 11 53	PcP	—
Prague	74.6	7	i 11 45	+ 2	e 21 19	+ 1	i 11 57	PcP	—
Raciborz	74.8	4	e 11 45	+ 1	e 14 38	PP	e 11 54	PcP	—
San Juan	74.8	80	i 11 43	- 1	e 21 33	+13	e 15 21	PP	e 30.4
Karlsruhe	z. 75.1	11	e 11 47 <sub>a</sub>	+ 1	e 14 33	PP	e 12 3	PcP	—
Lwow	75.2	0	i 11 47	+ 1	i 21 26	+ 1	—	—	—
Stuttgart	75.4	10	e 11 48	+ 1	e 21 27	0	e 11 58	PcP	e 34.2
Skalnate Pleso	75.8	3	e 11 48	- 2	e 21 29	- 2	i 12 0	PcP	—
Tashkent	76.4	327	e 11 53	0	e 21 35	- 3	e 12 3	PcP	—
Basle	76.5	12	e 11 55	+ 1	—	—	e 12 4	PcP	—
Zürich	76.8	11	e 11 56	+ 1	—	—	e 12 5	PcP	—
Neuchatel	76.9	12	e 11 57	+ 1	—	—	—	—	—
Hurbanovo	77.0	4	e 11 51	- 5	e 21 37	- 8	e 12 57	?	—
Iasi	77.8	358	e 12 1	0	—	—	—	—	—
Oropa	78.4	12	—	—	e 22 8	+ 8	—	—	e 40.2
Salo	78.7	10	e 12 6	0	—	—	e 15 17	PP	—
Triest	78.9	8	e 12 17?	+10	e 21 55	-10	e 15 1	PP	—
Pavia	79.0	11	—	—	e 33 42	Q	—	—	e 40.7
Stalinabad	79.1	326	i 12 9	+ 1	e 22 6	- 1	—	—	—
Campulung	79.7	0	e 12 24	+13	—	—	—	—	—
Simferopol	79.7	353	e 12 11	0	22 10	- 3	e 12 21	PcP	—
Bologna	79.9	10	e 12 23	+11	e 22 13	- 3	—	—	—
Belgrade	80.1	3	e 12 15 <sub>k</sub>	+ 2	e 22 20	+ 2	e 13 28	PcP	e 55.7
Chinchina	80.2	96	i 12 14	0	i 22 31	+12	i 15 11	PP	37.2
Prato	80.5	10	e 12 2	-13	—	—	—	—	—
Bucharest	80.6	359	—	—	e 22 33	+10	e 21 27	?	—
Florence	80.6	10	i 12 26 <sub>k</sub>	+10	i 22 22	- 1	e 15 29	PP	40.9
Shillong	81.1	302	e 12 16	- 2	e 22 22	- 6	—	—	—
Bogota	81.4	94	i 12 23	+ 3	i 22 43	+12	i 13 15	PcP	38.6
Tiflis	81.7	345	12 22	0	i 22 35	+ 1	i 12 33	PcP	—
Toledo	82.0	22	i 12 26	+ 3	e 22 40	+ 3	15 38	PP	38.6
Chatra	82.2	307	e 12 28	+ 4	—	—	—	—	—
Sofia	82.3	1	e 12 21?	- 4	e 22 40	0	—	—	53.7
Ashkabad	82.6	334	i 12 28	+ 2	22 57	ScS	—	—	—
Rome	82.6	9	i 12 36 <sub>a</sub>	+10	e 22 50	+ 7	e 15 45	PP	40.5
Dehra Dun	83.1	316	e 12 31	+ 2	i 22 47	- 1	15 40	PP	35.1
Goris	83.7	343	i 12 34	+ 2	i 23 6	ScS	15 53	PP	—
Alicante	84.2	19	e 12 34	0	i 22 59	0	15 52	PP	e 40.6
Taranto	84.3	6	e 17 4	?	22 49	-11	e 31 34	SSS	—
Granada	84.7	22	i 12 42 <sub>k</sub>	+ 5	i 23 14	+10	13 17	PcP	i 39.6
Malaga	85.0	23	i 12 39 <sub>k</sub>	+ 1	i 23 10	+ 3	i 15 50	PP	43.9
New Delhi	N. 85.0	315	—	—	i 22 57	[- 4]	e 23 24	ScS	—
Almeria	85.3	21	e 12 44	+ 4	23 8	- 2	15 56	PP	39.5
Bokaro	N. 85.4	306	e 12 51	+11	e 22 58	[- 5]	e 15 58	PP	—
Messina	E. 86.5	7	e 13 23	+37	e 23 19	- 3	e 16 8	PP	e 38.1
Reggio Calabria	86.6	7	e 12 54	+ 8	—	—	—	—	—
Athens	87.0	1	i 12 47?	- 1	e 22 38	-49	—	—	—
Quetta	87.3	324	e 12 50	0	i 23 31	+ 2	e 16 14	PP	—
Ksara	90.6	350	i 13 18 <sub>a</sub>	+13	24 27	+27	26 33	PPS	—
Jerusalem	92.7	351	i 13 17	+ 2	i 24 41	+23	—	—	—
Brisbane	93.5	224	e 13 16	- 3	e 24 44	+19	—	—	—
Huancayo	94.3	105	e 13 23	0	—	—	—	—	—
Poona	95.3	314	e 13 28	+ 1	e 24 2	[- 1]	—	—	—
Bombay	95.4	315	e 17 18	PP	e 27 59	?	e 31 40	SS	e 54.2
Riverview	99.8	223	—	—	e 25 14	- 5	e 32 9	SS	—
Kodaikanal	E. 101.1	307	—	—	e 34 34	SSP	—	—	—
La Paz	102.0	102	e 13 31	-26	—	—	e 14 37	?	54.9
Colombo	E. 102.9	303	24 43	SKS	(24 43)	[+ 2]	—	—	e 52.2
Lwiro	126.9	354	e 18 41	[-25]	—	—	e 23 10	PPP	—
Pretoria	z. 150.3	353	i 19 49	[+ 1]	—	—	—	—	—
Kimberley	z. 153.4	359	i 20 0	[+ 8]	—	—	—	—	—
Grahamstown	z. 157.9	355	i 20 32	PKP <sub>2</sub>	—	—	—	—	—

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1955

657

Nov. 15d. 21h. 10m. Epicentre 36°·2N. 68°·3E. Magnitude 4.  
Bull. of the Seismo. Stations of the U.S.S.R. for 1955, Oct.-Dec., Moscow, 1957, pp. 53, 54.

Nov. 15d. 22h. 11m. Epicentre 43°·5N. 87°·0E.  
Seismo. Bull. Government of India Meteorological Department, Nov., 1955, pp. 5, 6.

Nov. 16d. 9h. 5m. 55s. Epicentre 56°·2S. 27°·1W.

A = +·4976, B = -·2546, C = -·8292;  $\delta = 0$ ;  $h = -8$ ;  
D = -·456, E = -·890; G = -·738, H = +·378, K = -·559.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Grahamstown	z. 43·0	81	i 8 3	0	—	—	—	—
Pietermaritzburg	z. 48·0	81	i 8 42	- 1	—	—	—	—
Pretoria	z. 49·8	76	i 8 55	- 1	—	—	—	—
La Paz	50·4	305	i 9 3	+ 2	i 16 8	- 6	i 11 6	PP 22·1
Huancayo	57·6	300	i 9 57	+ 3	e 17 50	- 1	e 19 39	ScS e 24·2
Lwiro	69·8	62	i 11 14k	0	—	—	e 12 42	?
Chinchina	72·7	309	i 11 31	- 1	i 20 45	- 12	—	—
St. Vincent	74·8	325	e 11 47?	+ 3	—	—	—	—
Galerazamba	77·8	312	—	—	i 21 51	- 2	i 22 33	PS 37·1
San Juan	81·3	323	e 12 17	- 3	—	—	e 12 56	PcP
Tamanrasset	83·4	30	12 30k	0	e 22 46	- 5	—	—
Riverview	z. 90·3	178	i 13 4	0	—	—	i 13 27	PcP
Brisbane	96·6	180	e 13 33	0	—	—	—	—
Ksara	104·4	50	—	—	e 24 38	[-10]	e 27 49	PS
Triest	107·2	29	e 14 29	P	e 26 40	S	e 32 49	SS
Fayetteville	108·1	308	e 18 45	PP	—	—	—	—
Tucson	112·9	294	e 18 39	[ 0]	—	—	—	—
Quetta	116·7	75	e 18 45	[- 1]	—	—	e 35 54	SS
Palomar	z. 116·9	290	e 19 23	?	—	—	e 20 5	PP
Riverside	z. 117·7	290	e 18 46	[- 2]	—	—	e 19 20	?
Boulder City	117·9	294	e 18 48	[- 1]	e 22 59	PKS	e 20 3	PP
Pasadena	z. 118·2	290	e 18 50	[+ 1]	—	—	e 19 25	?
Isabella	z. 119·5	291	i 18 51	[- 1]	—	—	e 19 15	?
Salt Lake City	120·1	299	e 18 53	[ 0]	—	—	e 19 32	?
Tinemaha	z. 120·5	292	e 18 54	[ 0]	—	—	e 19 20	?
Eureka	121·1	295	e 18 55	[ 0]	e 19 33	?	e 20 18	PP
Fresno	z. 121·1	291	e 19 14	?	—	—	—	—
Lick	z. 122·4	290	i 18 57	[ 0]	—	—	i 19 24	?
Reno	z. 123·1	293	e 19 40	?	—	—	—	—
Berkeley	z. 123·2	290	e 18 58	[- 1]	—	—	e 19 22	?
Bozeman	123·4	303	e 19 39	?	—	—	—	—
Butte	N. 124·4	303	e 19 0	[- 1]	e 22 27	PKS	i 19 40	?
Mineral	z. 124·7	292	e 19 1	[- 1]	—	—	e 19 37	?
Shasta	z. 125·3	292	i 19 2	[- 1]	—	—	—	—
Hungry Horse	126·8	304	i 19 3	[- 3]	—	—	—	—
Shillong	z. 126·9	99	e 19 3	[- 3]	—	—	—	—
Kiruna	z. 128·6	21	i 19 7	[- 2]	—	—	i 19 39	?
Resolute Bay	138·1	338	e 19 16	[-11]	i 22 49	PKS	—	—
College	150·7	311	i 19 51	[+ 3]	—	—	i 20 26	PKP <sub>2</sub>
Matusiro	z. 157·9	147	e 20 27	PKP <sub>2</sub>	—	—	—	—

Nov. 16d. 18h. 52m. 57s. Epicentre 33°·95N. 135°·55E. Depth of focus 20km.  
Intensity IV at Wakayama; II-III at Owase, Sumoto, Tu, and Nara.  
Seismo. Bull. Cent. Met. Obs., Japan, for Nov., 1955, Tokyo, 1956, p. 18, with macro-seismic chart.

Nov. 17d. 4h. 18m. Epicentre 39°·2N. 70°·3E.  
Bull. of the Seismo. Stations of the U.S.S.R. Oct.-Dec., 1955, Moscow, 1957, p. 54.

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1955

658

Nov. 17d. 6h. 53m. 34s. Epicentre 26°·2S. 70°·2W. Depth of focus 0·005.

A = +·3043, B = -·8453, C = -·4391;  $\delta$  = -6;  $h$  = +3;  
D = -·941, E = -·339; G = -·149, H = +·413, K = -·898.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Copiapo	E.	1·1	186	i 0 12	- 8	—	—	—	—
Antofagasta		2·6	356	e 0 40	- 1	1 24	+12	—	—
Santa Lucia	N.	7·2	183	e 1 45	0	i 3 1	- 5	i 2 18	?
Santiago		7·2	183	e 1 45	0	—	—	—	—
La Paz		9·9	12	i 2 24 <sub>a</sub>	+ 2	i 4 19	+ 7	2 37	PP
Concepción	N.	10·7	188	e 1 44	?	i 4 32	0	e 4 0	?
Buenos Aires		13·1	132	2 55	-10	5 21	- 8	—	—
La Plata		13·6	132	3 14	+ 3	5 38	- 3	—	—
Huancayo		14·9	340	i 3 32	+ 4	i 6 33	+21	—	—
Punta Arenas		26·9	181	—	—	e 10 11	+ 4	e 11 24	SS
Bogota		30·9	352	i 6 14	+ 1	i 11 21	+10	i 6 43	pP
Chinchina		31·5	350	i 6 18	0	i 11 27	+ 7	i 7 33	PP
Galerazamba		37·1	352	i 7 32	+26	i 12 59	+12	—	—
St. Vincent		40·1	14	e 7 32	+ 1	—	—	—	—
Dominica		42·2	13	e 7 47	- 1	—	—	—	—
San Juan		44·5	6	i 8 5 <sub>a</sub>	- 2	i 14 37	0	i 8 26	pP
Comitan		47·3	331	e 8 37	+ 8	e 15 33	+16	—	—
Merida		50·6	336	i 8 58 <sub>k</sub>	+ 4	e 16 9	+ 6	—	—
Tacubaya		53·4	325	i 9 17 <sub>k</sub>	+ 2	16 48	+ 7	—	—
Columbia		60·8	350	i 10 6 <sub>a</sub>	- 2	i 18 22	+ 4	i 10 17	pP
Chapel Hill		62·4	352	i 10 17	- 1	—	—	—	—
Dallas		64·0	335	i 10 27	- 2	i 19 1	+ 2	—	—
Washington		65·1	354	i 10 38 <sub>a</sub>	+ 2	—	—	e 11 16	P <sub>c</sub> P
Fayetteville		66·0	339	i 10 41 <sub>k</sub>	- 1	e 19 26	+ 3	e 10 56	pP
Philadelphia		66·0	356	—	—	i 19 27	+ 4	e 20 33	ScS
Morgantown		66·2	352	i 10 44	+ 1	—	—	—	—
Lubbock		66·7	332	10 46	0	—	—	—	—
Palisades		67·0	357	i 10 48	0	i 19 43	+ 8	i 20 44	ScS
Cleveland		68·2	351	i 14 55 <sub>a</sub>	PPP	e 19 49	0	e 20 52	ScS
Buffalo (Larkin)		69·2	353	i 11 2	0	—	—	—	—
Tucson		69·9	324	i 11 6 <sub>a</sub>	0	e 20 16	+ 6	i 11 18	pP
Halifax		70·8	5	i 11 13 <sub>a</sub>	+ 1	19 41	?	—	—
Ottawa		71·5	356	i 11 15 <sub>a</sub>	- 1	20 34	+ 6	11 41	pP
Shawinigan Falls		72·5	358	i 11 22	0	i 14 20	PP	i 11 32	P <sub>c</sub> P
Seven Falls		73·0	0	e 11 19 <sub>a</sub>	- 6	20 39?	- 6	11 29?	P <sub>c</sub> P
Barratt		73·4	320	i 11 27 <sub>a</sub>	0	i 20 55	+ 5	i 11 44	pP
Boulder		73·6	333	e 11 29	+ 1	—	—	—	—
Kirkland Lake	z.	74·6	353	i 11 33 <sub>a</sub>	- 1	i 12 26	sP	i 11 45	pP
Riverside		74·8	321	i 11 35 <sub>a</sub>	0	i 21 10	+ 5	i 11 45	pP
Boulder City		74·9	324	i 11 36 <sub>a</sub>	0	e 21 14	+ 8	i 11 47	pP
Pasadena		75·4	320	i 11 39 <sub>a</sub>	+ 1	i 21 14	+ 2	i 11 50	pP
Isabella	z.	76·6	321	i 11 46 <sub>a</sub>	+ 1	—	—	i 11 57	pP
Salt Lake City		77·1	329	i 11 48 <sub>k</sub>	0	e 21 37	+ 7	i 12 12	sP
Tinemaha	z.	77·5	322	i 11 51 <sub>a</sub>	+ 1	i 21 41	+ 6	i 12 3	pP
Eureka		78·1	326	i 11 54 <sub>a</sub>	0	e 39 0	P'P'	i 12 8	pP
Fresno	z.	78·2	321	e 11 53	- 1	—	—	i 12 5	pP
Lick	z.	79·6	321	i 12 3	+ 1	—	—	—	—
Berkeley		80·3	321	e 12 6	+ 1	e 22 11	+ 7	e 26 8	?
Bozeman		80·6	332	i 12 8 <sub>k</sub>	+ 1	e 22 20	+12	i 12 20	pP
Grahamstown	z.	81·3	123	i 12 11	0	—	—	—	—
Butte	N.	81·6	332	i 12 13 <sub>a</sub>	+ 1	i 22 24	+ 6	i 12 23	pP
Mineral	z.	81·7	323	e 12 12	- 1	e 15 20	PP	i 12 25	pP
Kimberley	z.	81·8	118	i 12 14	+ 1	—	—	—	—
Shasta	z.	82·4	323	i 12 15	- 1	—	—	i 12 26	pP
Hungry Horse		84·0	332	i 12 25 <sub>a</sub>	0	e 22 45	+ 3	e 15 36	PP
Pietermaritzburg	z.	85·8	121	i 12 40	+ 6	—	—	—	—
Pretoria	z.	85·9	117	e 12 35	+ 1	—	—	—	—
Lisbon		86·2	43	i 12 39 <sub>a</sub>	+ 4	—	—	12 50	pP
Seattle		87·2	328	e 12 43	+ 3	—	—	e 13 5	sP
Malaga		88·1	47	e 12 49	+ 4	i 23 49	ScS	i 16 17	PP

Continued on next page.

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## 1955

## 659

	$\Delta$	Az.	P.		O-C.	S.	O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	m.	s.	m.
Victoria	88.3	328	12	46	0	23 29	+ 6	—	—	—
Granada	88.9	47	i 12	52	+ 4	23 14	[+ 4]	16 35	PP	i 45.2
Horseshoe Bay	88.9	328	12	48	0	—	—	—	—	—
Almeria	89.4	48	i 12	51	0	23 47	+13	16 23	PP	49.1
Christchurch	89.8	220	e 12	53	0	e 23 16	[ 0]	i 23 40	S	e 40.9
Wellington	89.8	223	e 13	8	pP	e 23 38	+ 1	e 23 13	SKS	e 36.4
Toledo	90.1	45	e 12	53	- 1	e 23 54	+14	i 16 32	PP	—
Kaimata N.E.	91.1	221	e 13	0	+ 1	—	—	—	—	—
Alicante	91.6	48	12	51	-10	23 31	[+ 5]	18 29	PPP	—
Rathfarnham C. z.	96.6	33	e 13	26	+ 2	e 14 55	?	e 14 11	sP	—
Lwiro	97.1	96	e 13	30k	+ 4	—	—	e 13 46	pP	—
Kew	98.6	36	e 13	33	0	i 24 10	[+ 6]	e 13 45	pP	e 45.4
Oropa	100.6	44	e 16	56	PP	—	—	—	—	—
Aberdeen	100.8	31	i 23	6	?	i 24 10	[- 5]	i 26 50	PS	e 44.4
Uccle	100.9	38	e 13	44	+ 1	e 24 20	[+ 5]	e 24 48	SKKS	e 46.4
Pavia	101.2	45	e 16	37	?	e 24 18	[+ 1]	e 18 24	PP	e 50.3
Basle	101.2	43	e 18	9	PP	—	—	—	—	—
Zürich	101.7	43	e 18	19	PP	—	—	—	—	—
De Bilt	101.9	38	—	—	—	e 24 26	[+ 6]	e 26 56	PS	e 44.4
Florence	101.9	47	e 14	9	+21	e 24 42	[+22]	e 18 4	PP	e 48.4
Resolute Bay	102.0	354	e 17	51	PP	e 25 32	+11	e 32 11	SS	e 52.9
Karlsruhe	102.4	41	e 13	50?	0	—	—	e 18 17	PP	52.4
Messina E.	102.6	54	e 17	2	?	e 24 27	[+ 4]	e 18 8	PP	—
Stuttgart	102.8	42	e 13	53	+ 1	e 24 31	[+ 7]	e 18 3	PP	e 46.4
Triest	104.3	46	e 14	0	+ 2	e 24 36	[+ 5]	e 18 11	PP	—
Jena z.	105.0	40	e 14	1	0	—	—	e 18 14?	PP	—
Hamburg	105.2	38	e 18	21	PP	e 28 45	PPS	—	—	e 47.9
Collmburg z.	106.0	40	e 17	48	PP	—	—	—	—	—
Copenhagen	107.3	36	e 18	40	PP	i 28 7	PS	34 26	SS	51.4
College	108.4	334	e 14	17a	P	e 18 18	PKP	e 14 28	pP	e 48.6
Riverview	108.5	216	19	2	PP	i 24 54	[+ 4]	i 28 17	PS	e 50.3
Raciborz z.	108.7	43	e 18	23	[+ 2]	—	—	e 18 40	PP	—
Sofia	109.8	51	e 18	16	[- 7]	—	—	e 31 17	?	62.4
Warsaw	111.0	41	e 19	11	PP	e 28 41	PS	—	—	e 54.4
Lwow	112.2	44	e 18	32?	[+ 4]	i 28 58	PS	i 19 14	PP	—
Kiruna	114.3	25	e 19	22	PP	e 25 25	[+12]	e 26 56	S	e 49.4
Jerusalem	115.7	66	i 19	41	PP	i 29 46	PPS	—	—	—
Ksara	116.8	64	i 19	48a	PP	30 38	PPS	22 18	PPP	—
Pulkovo	117.6	34	e 19	55	PP	e 29 44	PS	e 36 24	SS	—
Moscow	121.2	39	19	2	[+16]	22 42	PKS	20 21	PP	—
Perth	121.8	186	i 20	41	PP	i 30 16	PS	e 49 45	Q	i 58.2
Tiflis	125.2	56	e 18	51	[- 2]	e 25 52	[+ 2]	i 20 53	PP	—
Rabaul z.	129.0	240	i 18	50	[-11]	—	—	i 19 2	PKP	—
Sverdlovsk	133.7	35	19	10	[ 0]	28 34	SKKS	21 39	PP	—
Kizyl-Arvat	133.8	60	19	10	[ 0]	i 22 48	PKS	i 21 39	PP	—
Quetta	142.2	74	e 19	23	[- 2]	i 29 50	SKKS	e 19 36	pPKP	—
Tashkent	143.5	55	i 19	24	[- 3]	e 22 41	PKS	e 32 48	PS	—
Stalinabad	143.6	60	i 19	28	[ 0]	e 32 33	PSKS	—	—	—
Bombay	145.2	94	19	35	[+ 5]	i 22 54	PKS	e 42 1	SSP	—
Colombo E.	145.6	119	19	34	[+ 3]	—	—	—	—	—
Kodaikanal E.	145.6	112	e 19	46	[+15]	—	—	—	—	—
Poona	146.0	96	e 19	35	[+ 3]	—	—	—	—	—
Frunse	146.9	51	i 19	36	[+ 3]	e 29 52	SKKS	i 22 57	PP	—
Semipalatinsk	146.9	35	i 19	35	[+ 2]	i 23 5	PKS	—	—	—
Bandung	147.0	176	e 19	33	[ 0]	—	—	—	—	—
Lembang z.	147.0	176	e 19	34a	[+ 1]	—	—	—	—	—
Djakarta	147.6	174	e 20	22	?	—	—	—	—	—
Hyderabad E.	149.7	100	e 19	49	[+11]	—	—	—	—	—
Dehra Dun	151.8	74	e 19	50	[+ 9]	i 25 14	?	i 21 11	?	—
Irkutsk	153.7	8	19	46	[+ 3]	—	—	23 39	PP	—

Continued on next page.

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1955

660

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Matusiro	153.7	300	e 19 50	[+ 7]	30 0	SKKS	20 18	PKP <sub>2</sub> i 70.4
Chatra	E. 159.8	83	e 20 3	[+12]	—	—	—	—
Shillong	163.9	88	e 19 56	[+ 1]	e 30 16	SKKS	i 20 48	PKP <sub>2</sub> —
Peking	165.3	340	20 6	[+ 9]	—	—	—	—
Z0-Sè	168.9	298	20 2	[+ 3]	—	—	—	—
Nanking	170.2	308	20 4	[+ 4]	—	—	—	—
Sian	172.0	5	e 20 30	PKP <sub>2</sub>	—	—	e 25 48	PP —
Hong Kong	N. 174.4	226	e 25 46?	PP	—	—	—	e 90.4

Nov. 17d. 17h. 43m. 40s. Epicentre 42°·5N. 142°·75E. Depth of focus 160km.  
Intensity II-III at Hatinohe.  
Seismo. Bull. Cent. Met. Obs., Japan, for 1955, Nov., Tokyo, 1956, p. 19.

Nov. 19d. 5h. 39m. Epicentre 14°·0S. 179°·0W.  
New Zealand Seismo. Report No. E-136 for 1955, N.Z. Department of Scientific and Industrial Research, Geophysics Division, Wellington, 1961, p. 61.

Nov. 19d. 8h. 25m. 33s. Epicentre 18°·4S. 169°·4E.

A = -·9333, B = +·1747, C = -·3137;  $\delta = -2$ ;  $h = +5$ ;  
D = +·184, E = +·983; G = +·308, H = -·058, K = -·950.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Nouméa	4.7	215	1 23 <sub>a</sub>	+ 9	i 2 4	- 6	—	—
Brisbane	17.5	236	i 4 8	+ 1	i 7 14	- 7	—	—
Onerahi	E. 17.8	167	e 4 13	+ 2	e 7 41	+13	—	—
Apia	18.7	78	e 4 28	+ 6	—	—	e 4 54	PPP —
Karapiro	N. 20.1	166	i 4 35	- 3	—	—	—	—
Tuai	N. 21.4	163	e 4 47	- 4	e 8 37	- 8	—	—
Riverview	22.4	223	i 4 59 <sub>k</sub>	- 3	i 8 51	-13	i 5 28	PP i 10.7
Cobb River	E. 22.8	173	e 5 3	- 2	e 8 47	-24	—	—
Wellington	23.2	170	5 7	- 2	i 9 0	-18	—	—
Kaimata	N.E. 24.1	176	e 5 17	- 1	—	—	—	—
Manila	57.9	301	e 9 54	- 2	—	—	—	—
Baguio	59.2	303	i 10 4	- 1	—	—	—	—
Lembang	61.1	272	i 10 20 <sub>k</sub>	+ 2	e 18 26	-11	—	—
Matusiro	62.1	332	i 10 25 <sub>a</sub>	0	i 18 36	-13	—	i 25.9
Berkeley	Z. 85.1	48	i 12 40 <sub>a</sub>	+ 1	—	—	—	—
Lick	Z. 85.3	48	e 12 41 <sub>a</sub>	+ 1	—	—	—	—
Fresno	Z. 86.4	50	i 12 46 <sub>a</sub>	+ 1	—	—	—	—
Shasta	Z. 86.4	45	i 12 45 <sub>a</sub>	0	—	—	—	—
Pasadena	86.5	52	i 12 46 <sub>a</sub>	0	—	—	i 13 0	? —
Woody	Z. 86.6	51	i 12 47 <sub>a</sub>	+ 1	—	—	i 16 10	PP —
Mineral	Z. 86.7	46	i 12 47 <sub>a</sub>	0	—	—	—	—
Isabella	Z. 86.9	51	i 12 48 <sub>a</sub>	0	—	—	e 16 13	PP —
Barratt	Z. 87.0	54	i 12 48 <sub>a</sub>	0	—	—	—	—
Riverside	Z. 87.0	53	i 12 48 <sub>a</sub>	0	—	—	e 16 15	PP —
Palomar	Z. 87.1	54	i 12 49 <sub>a</sub>	0	—	—	—	—
Reno	Z. 87.6	47	i 12 52 <sub>a</sub>	+ 1	—	—	—	—
Tinemaha	Z. 87.7	50	i 12 52 <sub>a</sub>	0	—	—	—	—
College	89.2	17	i 12 56	- 3	—	—	e 16 31	PP —
Victoria	89.4	38	13 0	0	—	—	—	—
Boulder City	89.7	52	i 13 1	0	—	—	i 13 19	? —
Eureka	90.3	48	i 13 4	0	—	—	i 16 39	PP —
Tucson	91.4	56	i 13 10	+ 1	—	—	e 16 50	PP —
Salt Lake City	93.7	48	e 13 20	0	—	—	—	—
Hungry Horse	95.0	41	e 13 24	- 2	—	—	e 17 17	PP —
Butte	N. 95.1	43	e 13 26	0	—	—	—	—
Bozeman	96.0	44	e 13 30	0	—	—	—	—
Quetta	Z. 109.5	296	e 18 31	[- 1]	—	—	—	—
Ottawa	120.3	48	i 18 50 <sub>k</sub>	[- 3]	—	—	—	—
Kimberley	Z. 121.9	217	i 18 52 <sub>a</sub>	[- 4]	—	—	—	—
Seven Falls	123.5	45	i 18 49 <sub>k</sub>	[-10]	—	—	—	—

Continued on next page.

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1955

661

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Kiruna	z.	126.8	346	i 19 3k	[- 3]	—	—	—	—
San Juan		127.5	81	i 19 4	[- 3]	—	—	—	—
Upsala	z.	133.9	341	i 22 32	PKS	—	—	—	—
Ksara		135.9	300	e 20 10	[+47]	—	—	e 22 41	PKS
Lwiro		136.1	246	e 19 23a	[ 0]	—	—	i 22 38	PKS
Prague		142.6	333	i 19 32	[- 3]	—	—	i 23 10	PKS
Jena		143.1	336	e 19 31	[- 5]	—	—	e 22 31	PP
Witteveen	z.	143.1	342	i 19 32k	[- 4]	—	—	—	—
Cheb	N.	143.4	335	i 19 35	[- 1]	e 22 13	PP	e 20 2	PKP <sub>2</sub>
Rathfarnham C.	z.	145.0	355	i 19 37	[- 2]	—	—	e 20 6	PKP <sub>2</sub>
Uccle		145.6	343	e 19 40	[ 0]	e 26 43	[- 5]	e 22 59	PP
Karlsruhe	z.	145.8	338	e 19 41a	[ 0]	—	—	e 19 49	PKP <sub>2</sub>
Stuttgart		145.8	336	e 19 37	[- 4]	—	—	e 19 55	PKP <sub>2</sub>
Triest		146.2	329	e 19 39a	[- 2]	e 22 42	PKS	e 19 51	PKP <sub>2</sub>
Zürich		147.1	336	e 19 44	[+ 1]	—	—	e 20 13	PKP <sub>2</sub>
Chur		147.2	334	e 19 41	[- 2]	—	—	—	—
Basle		147.4	337	e 19 41	[- 2]	e 31 16	{+72}	—	—

Nov. 21d. 10h. 37m. Epicentre 39°·3N. 72°·1E.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 54.

Nov. 21d. 20h. 25m. 33s. Epicentre 39°·4N. 118°·0W.

A = -·3638, B = -·6841, C = +·6322;  $\delta = +2$ ;  $h = -1$ ;  
D = -·883, E = +·469; G = -·297, H = -·558, K = -·775.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Reno		1.4	265	i 0 24a	- 3	i 0 43	- 3	—	—
Eureka		1.6	92	i 0 28	- 2	—	—	—	—
Tinemaha		2.4	184	i 0 39k	- 2	i 1 15	+ 3	—	—
Mineral	z.	2.9	290	i 0 46a	- 2	—	—	—	—
Fresno	z.	3.0	208	e 0 50a	0	—	—	—	—
Lick		3.5	234	e 0 55a	- 2	i 1 39	- 1	—	—
Berkeley	z.	3.6	246	i 0 58a	0	i 1 54	+ 3*	—	—
Shasta	z.	3.6	292	i 0 56a	- 2	—	—	—	—
Santa Clara		3.7	237	e 1 0a	0	i 1 55	+ 1*	i 1 10	P <sub>g</sub>
Isabella		3.8	185	i 1 0	- 1	i 1 59	+ 2*	—	—
Ukiah		4.0	267	e 1 10	+ 6	e 1 51	- 1	—	e 2.0
Boulder City		4.3	143	e 1 6	- 2	i 1 22	P <sub>g</sub>	—	e 2.3
King Ranch	z.	4.3	199	i 1 9	+ 1	—	—	—	—
Fort Tejon	z.	4.6	189	e 1 17	+ 5	i 2 24	+ 4*	—	—
Arcata		4.8	289	e 1 15	0	e 2 20	- 6*	—	—
Salt Lake City		4.9	72	e 1 19	+ 2	i 2 31	+ 2*	i 1 37	P <sub>g</sub>
Pasadena		5.3	181	e 1 23	+ 1	i 2 21	- 4	i 1 37	P*
Riverside		5.5	174	i 1 24	- 1	i 2 54	+ 7*	i 1 42	P*
San Diego		6.8	174	e 2 34	+50	3 49	+ 4 <sub>g</sub>	—	—
Butte	N.	7.7	30	e 1 58	+ 2	e 3 48	- 5*	—	e 4.0
Bozeman		8.1	37	e 2 3	+ 1	—	—	—	i 4.2
Seattle		8.8	341	i 2 17k	+ 6	4 19	- 6*	—	4.9
Tucson		9.3	139	e 2 20	+ 3	i 3 50	-15	i 2 51	P*
Hungry Horse		9.4	17	i 2 21	+ 3	—	—	—	i 4.6
Boulder		9.8	82	i 2 29	+ 5	—	—	—	—
Victoria		9.9	339	2 40	+15	5 21	- 6 <sub>g</sub>	—	—
Lubbock		14.3	109	3 35	+ 9	—	—	—	—
Dallas		18.4	104	i 4 18	0	—	—	—	i 9.6
Fayetteville		19.1	93	i 4 24	- 3	—	—	—	e 10.1
Chicago		23.2	74	e 5 7	- 2	e 9 26	+ 8	—	e 12.2
Terre Haute		23.6	80	i 8 17	PcP	—	—	—	—
College		30.8	336	e 6 18	- 2	—	—	—	e 13.4
Chapel Hill		30.9	84	i 6 19	- 1	—	—	—	—
Resolute Bay		36.9	10	e 7 12	0	e 12 57	- 1	—	e 16.4
Kiruna	z.	68.6	16	e 11 5	- 2	—	—	—	—

Continued on next page.

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1955

662

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
La Paz	72.6	130	11 1	-30	—	—	e 12 19	—
Matusiro	76.9	307	e 11 57	+ 1	e 21 54	+11	—	e 37.8
Uccle	77.0	33	i 11 56	0	—	—	—	—
Jena	z. 79.8	30	e 12 10	- 2	—	—	e 13 4	?
Stuttgart	80.5	32	e 12 14	- 1	—	—	—	—
Granada	82.8	47	12 33	+ 6	—	—	—	—
Triest	84.9	32	e 12 37	- 1	e 23 50	PS	e 14 46	PP

Nov. 21d. 21h. 4m. 5s. Epicentre 36°-78. 179°-0E.

A = -0.8035, B = +0.0140, C = -0.5951;  $\delta = -5$ ;  $h = 0$ ;  
D = +0.017, E = +1.000; G = +0.595, H = -0.010, K = -0.804.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Tuai	N. 2.6	215	i 1 7	+15 <sub>g</sub>	i 1 36	+10 <sub>g</sub>	—	—
Karapiro	N. 3.0	246	i 1 6	+ 6 <sub>g</sub>	1 35	+ 2*	—	—
Onerahi	E. 3.9	283	1 15	- 3 <sub>g</sub>	1 53	+ 3	—	—
New Plymouth	E. 4.6	238	1 20	- 2*	2 1	- 6	—	—
Wellington	5.6	215	i 1 33	+ 6	2 25	- 8	—	—
Cobb River	E. 6.6	227	1 40	- 1	2 38	-20	—	—
Kaimata	N.E. 8.2	223	2 0	- 3	3 11	-27	—	—
Christchurch	8.4	214	2 9	+ 3	3 23	-20	—	—
Noumèa	18.0	319	i 4 15 <sub>a</sub>	+ 2	e 7 28	- 4	—	—
Riverview	22.9	269	i 4 56 <sub>a</sub>	-10	i 8 39	PcP	i 5 13	PP
Brisbane	23.8	285	i 5 6	- 9	—	—	i 6 22	PPP
Apia	24.3	22	e 5 31	+11	e 9 57	+20	—	—
Melbourne	E. 27.0	257	i 5 31	-14	e 9 40	-42	i 5 50	pP
Rabaul	40.7	316	i 13 13	?	i 13 23	?	i 14 20	?
Lembang	71.0	276	i 11 6 <sub>a</sub>	-16	e 19 47	?	—	—
Baguio	76.3	303	i 10 53	-59	—	—	i 11 53	P
Matusiro	E. 82.2	328	—	—	(e 22 42)	+ 3	—	e 22.7
Hong Kong	84.8	303	e 12 27	-10	—	—	—	—
Barratt	z. 91.5	50	i 13 12	+ 2	—	—	—	—
Pasadena	z. 91.6	48	i 13 12	+ 2	—	—	—	—
Palomar	z. 91.8	49	i 13 14	+ 3	—	—	—	—
Riverside	z. 92.0	48	i 13 14	+ 2	—	—	—	—
Isabella	z. 92.5	46	i 13 13	- 1	—	—	—	—
Boulder City	94.9	48	e 12 45	?	e 16 46	PP	i 13 44	P
Tucson	94.9	53	i 13 29	+ 4	—	—	—	—
Eureka	96.6	45	e 11 56	?	—	—	e 17 3	PP
La Paz	97.5	117	e 13 18	-19	24 15	[+ 1]	—	—
Kirkland Lake	z. 123.0	52	i 18 54 <sub>k</sub>	[- 4]	—	—	—	—
Quetta	z. 124.0	284	e 18 50	[-10]	—	—	—	—
Resolute Bay	124.0	19	e 18 52	[- 8]	—	—	—	—
Ottawa	124.8	56	i 18 57 <sub>a</sub>	[- 5]	—	—	—	—
Seven Falls	128.6	55	i 18 59 <sub>k</sub>	[-10]	—	—	—	—
Uvira	131.1	222	e 19 7 <sub>k</sub>	[- 7]	—	—	—	—
Astrida	131.6	223	e 19 5 <sub>k</sub>	[-10]	—	—	—	—
Lwiro	132.4	222	e 19 8 <sub>k</sub>	[- 9]	—	—	—	—
Scoresby Sund	z. 144.4	12	e 19 29	[- 9]	—	—	—	—
Kiruna	z. 146.6	345	i 19 33 <sub>a</sub>	[- 9]	—	—	i 20 37	?
Ksara	149.9	276	i 19 40	[- 7]	—	—	e 20 48	?
Upsala	z. 154.0	338	e 19 51	[- 2]	—	—	—	—
Raciborz	z. 160.8	320	e 20 36	PKP <sub>2</sub>	—	—	—	—
Hamburg	z. 161.5	339	e 20 41	PKP <sub>2</sub>	—	—	—	—
Collmberg	z. 162.4	330	e 20 41	PKP <sub>2</sub>	—	—	e 24 25	PP
Prague	162.6	325	i 20 45	PKP <sub>2</sub>	—	—	e 22 25	?
Rathfarnham C.	z. 163.0	11	e 20 50	PKP <sub>2</sub>	—	—	—	—
Jena	z. 163.2	332	e 20 48	PKP <sub>2</sub>	—	—	e 24 27	PP
Stuttgart	165.8	331	i 20 58	PKP <sub>2</sub>	—	—	e 24 46	PP
Karlsruhe	z. 166.0	334	21 1	PKP <sub>2</sub>	—	—	—	—
Rome	168.4	300	e 24 55	PP	—	—	—	—
Granada	177.8	77	22 5 <sub>k</sub>	PKP <sub>2</sub>	—	—	26 2	PP

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1955

663

Nov. 22d. 2h. 25m. Epicentre 33°·8S. 179°·1W. Depth of focus 285km. Magnitude 5·3.  
New Zealand Seismo. Report for 1955, Department of Scientific and Industrial Research  
Bull. No. E-136, Wellington, N.Z., 1961, p. 62.

Nov. 22d. 3h. 24m. 4s. Epicentre 24°·4S. 122°·6W.

A = -·4912, B = -·7681, C = -·4108;  $\delta = +1$ ;  $h = +4$ ;  
D = -·842, E = +·539; G = +·221, H = +·346, K = -·912.

	$\Delta$	Az.	P.	O - C.	S.	O - C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Huancayo	46·3	83	i 8 30	+ 1	i 15 23	+ 7	(e 18 42)	SS	e 18·7
Antofagasta	47·4	100	e 8 34	- 4	e 15 29	- 3	19 6	SS	22·1
Apia	47·5	274	e 8 41	+ 3	—	—	—	—	—
Oaxaca	48·3	34	e 8 45	0	e 15 45	0	e 16 16	?	23·2
Guadalajara	48·6	24	—	—	15 40	- 9	—	—	—
Tacubaya	49·2	30	i 8 55	+ 3	e 16 1	+ 3	e 18 43	?	e 23·2
La Paz	51·4	92	i 9 10k	+ 1	i 16 31	+ 3	11 12	PP	24·4
Tuai	52·4	239	e 9 18	+ 2	—	—	—	—	—
Karapiro	53·8	240	e 12 29	PPP	—	—	—	—	—
Hawaii Vol. Obs.	54·0	321	e 9 27	- 1	—	—	—	—	—
Wellington	54·1	236	i 9 28k	- 1	e 12 30	PPP	e 23 13	Q	e 26·1
Chinchina	54·2	64	e 9 27	- 2	i 17 21	+15	i 12 49	PPP	26·9
New Plymouth	54·8	238	e 8 12	?	—	—	—	—	—
Onerahi	54·9	242	—	—	e 15 56?	?	—	—	—
Chihuahua	55·1	18	e 9 44	+ 8	e 17 34	+16	e 16 56	?	e 23·9
Bogota	55·3	65	i 9 39	+ 1	i 17 28	+ 7	—	—	26·9
Merida	55·3	38	e 15 56	?	e 20 26	SS	—	—	e 28·0
Christchurch	55·6	233	e 9 36	- 4	e 17 51	+26	e 12 56	PPP	e 25·9
Cobb River	55·7	236	e 9 39	- 1	—	—	—	—	—
Buenos Aires	55·9	116	e 9 49	+ 7	—	—	(21 22)	SS	21·4
La Plata	56·3	117	i 9 46	+ 1	17 32	- 2	13 14	PPP	24·6
Kaimata	56·6	234	e 10 0	+13	—	—	—	—	—
Barratt	57·1	6	i 9 49k	- 1	i 17 50	+ 5	i 18 9	?	—
Honolulu	57·1	320	e 9 54	+ 4	e 18 1	+16	e 20 16	ScS	e 22·7
Tucson	57·5	12	e 9 51k	- 2	e 17 46	- 4	e 12 23	PP	e 24·5
Palomar	57·7	6	i 9 57	+ 2	—	—	—	—	—
Galerazamba	57·9	58	i 10 6	+10	i 18 3	+ 8	i 12 3	PP	27·9
Riverside	58·3	5	i 9 57	- 2	i 18 4	+ 3	i 18 24	PS	—
Pasadena	58·4	4	i 9 59k	- 1	e 18 16	+14	e 12 28	PP	i 24·7
Isabella	59·9	4	e 10 9	- 1	—	—	—	—	—
Woody	59·9	4	i 10 8k	- 2	—	—	—	—	—
Boulder City	60·5	7	i 10 14a	0	—	—	e 11 0	PcP	—
Fresno	60·9	2	e 10 15k	- 2	—	—	e 10 46	?	—
Lubbock	61·0	20	10 18	0	—	—	—	—	—
Tinemaha	61·3	4	i 10 17k	- 3	—	—	—	—	—
Lick	61·4	1	e 10 19k	- 1	—	—	e 10 57	PcP	—
Santa Clara	61·4	1	e 10 22	+ 2	e 18 47	+ 7	—	—	e 26·1
Berkeley	62·0	0	e 10 23k	- 1	e 18 56	+ 8	e 11 3	PcP	i 25·9
Dallas	62·0	24	i 10 22	- 2	—	—	—	—	—
Ukiah	63·2	359	—	—	e 19 11	+ 8	—	—	e 26·5
Reno	63·7	2	e 10 36k	0	—	—	—	—	—
Eureka	63·9	6	i 10 36k	- 1	e 26 9	SSS	e 38 26	P'P'	—
Mobile	64·0	33	i 10 37k	- 1	i 19 18	+ 5	—	—	—
Mineral	64·4	1	i 10 39k	- 1	—	—	i 11 14	PcP	—
Shasta	64·8	0	e 10 41	- 2	—	—	—	—	—
Little Rock	65·5	27	e 10 47	0	—	—	—	—	—
Salt Lake City	65·6	9	e 10 47a	- 1	—	—	—	—	e 29·6
Fayetteville	65·9	25	i 10 48	- 2	e 19 40	+ 3	—	—	—
Boulder	66·1	14	e 10 50	- 1	—	—	—	—	—
San Juan	69·5	58	e 11 11k	- 1	—	—	—	—	—
St. Louis	69·7	26	i 11 11	- 3	20 22	0	i 11 51	?	—
Florissant	69·8	26	i 11 13	- 1	e 20 23	0	—	—	—
Columbia	70·2	36	i 11 16	- 1	i 20 28	0	e 12 28	?	e 39·3
Rapid City	70·4	15	e 11 16	- 2	e 20 29	- 1	e 11 47	PcP	e 29·7
Bozeman	70·5	8	e 11 19k	+ 1	e 20 37	+ 5	e 25 19	SS	e 29·0

Continued on next page.

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1955

664

		$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. -s.	O-C. s.	Supp. m. s.	L. m.
St. Vincent		70.5	65	e 11 16	- 2	—	—	—	—
Butte	N.	70.7	7	i 11 18 <sub>k</sub>	- 2	i 20 37	+ 3	i 11 53	PcP e 29.2
Seattle		71.7	0	i 11 27 <sub>a</sub>	+ 1	e 21 8	+23	—	—
Barbados		71.9	66	e 11 26	- 1	—	—	—	—
Victoria		72.6	359	11 31	0	e 20 59	+ 3	—	—
Chapel Hill		72.8	36	i 11 31	- 1	—	—	—	—
Hungry Horse		72.8	6	i 11 31 <sub>a</sub>	- 1	e 21 3	+ 5	e 14 0	PP
Chicago		73.4	27	e 11 38	+ 2	e 21 9	+ 4	e 26 5	SSP e 39.0
Horseshoe Bay		73.5	0	11 36	0	—	—	—	—
Riverview		73.9	240	i 11 37 <sub>k</sub>	- 2	i 21 14	+ 4	i 11 52	PcP e 35.0
Brisbane		74.5	247	i 11 41	- 1	i 21 24	+ 7	—	—
Morgantown		75.1	33	i 11 47	+ 1	—	—	—	—
Cleveland		75.8	31	i 11 50 <sub>a</sub>	0	i 21 34	+ 3	—	—
Melbourne	E.	77.3	234	i 11 59	+ 1	e 21 33	-15	e 15 25	PP e 36.2
Buffalo		78.2	31	i 12 2	- 1	—	—	—	—
Fordham		79.1	36	e 12 7	- 1	e 22 10	+ 3	—	—
Palisades		79.2	35	i 12 8	0	i 22 12	+ 4	e 22 47	PS e 40.2
Ottawa		81.5	31	e 12 23 <sub>k</sub>	+ 2	22 30	- 2	13 6	sP
Kirkland Lake	Z.	81.7	27	e 12 22 <sub>a</sub>	0	—	—	—	—
Sitka		81.9	353	e 12 23	0	e 22 38	+ 2	e 17 5	PPP e 34.2
Shawinigan Falls		83.8	32	i 12 32 <sub>a</sub>	0	—	—	—	—
Seven Falls		85.1	33	e 12 34 <sub>k</sub>	- 5	23 17 [ 0]	—	28 58 <sub>?</sub>	SS
College		91.1	350	i 13 6 <sub>a</sub>	- 2	e 24 6	+ 2	i 16 43	PP e 34.3
Resolute Bay		100.5	7	e 13 49	- 2	e 25 27	+ 2	e 17 57	PP e 42.1
Petropavlovsk		102.8	323	e 20 39	PPP	e 27 24	PS	—	—
Magadan		109.1	328	e 21 18	PPP	—	—	—	—
Yuzno-Sakhlinsk		110.5	313	e 19 10	PP	e 34 53	SS	—	—
Matusiro		111.2	302	19 16	PP	e 25 34 [+17]	—	28 51	PS e 45.7
Vladivostok		117.3	307	e 20 0	PP	e 29 48	PS	—	—
Kimberley	Z.	118.5	147	i 18 50	[ 0]	—	—	—	—
Zô-Sè		123.9	292	e 20 46	PP	e 30 51	PS	—	—
Nanking		126.0	293	e 20 55	PP	—	—	—	—
Aberdeen	E.	126.6	36	e 21 56 <sub>?</sub>	PP	—	—	i 39 30	P'P' e 69.7
Durham		127.4	39	—	—	37 11	?	—	52.2
Kew		128.7	43	e 19 10	[ 0]	e 22 30	PKS	e 21 16	PP e 64.9
Kiruna		131.0	18	i 19 14	[ 0]	i 22 38	PKS	i 21 33	PP e 60.9
Uccle		131.7	43	e 19 17	[+ 2]	e 22 42	PKS	e 21 36	PP
De Bilt		131.9	41	e 19 14	[- 2]	e 39 26	SS	e 21 36	PP e 74.9
Hamburg		134.2	38	e 19 22	[+ 2]	e 22 54	PKS	i 21 54	PP
Sian		134.5	295	—	—	e 22 54	PKS	—	—
Karlsruhe		134.7	44	e 19 19	[- 2]	e 22 54	PKS	e 22 1	PP
Copenhagen		134.8	34	e 19 23	[+ 2]	21 56	PP	e 24 20	PPP 65.9
Irkutsk		135.0	321	19 22	[+ 1]	22 55	PKS	40 5	SS
Oropa		135.1	49	e 19 31	[+ 9]	e 29 8 [+16]	—	e 23 33	PKS
Stuttgart		135.2	44	e 19 16	[- 6]	e 26 44 [+13]	—	e 22 4	PP
Pavia		136.0	50	e 19 23	[ 0]	e 40 30	SS	e 22 29	PP
Jena	Z.	136.1	41	e 19 25	[+ 2]	e 29 9 [+11]	—	e 22 3	PP
Collmborg	Z.	136.8	40	e 19 26	[+ 1]	—	—	e 22 8	PP
Salo		136.9	49	e 19 1 <sub>?</sub>	[-24]	e 28 50 [-12]	—	e 22 56	PKS
Florence		137.8	51	e 19 24	[- 3]	e 22 59	PKS	e 22 15	PP
Prague		138.1	41	e 19 26	[- 1]	i 23 2	PKS	i 22 19	PP
Rome		139.0	54	e 19 19	[-10]	e 29 6 [- 9]	—	e 22 19	PP
Triest		139.1	48	e 19 24	[- 5]	e 26 24 [-14]	—	e 22 54	PP
Pulkovo		139.9	21	e 19 26	[- 4]	e 23 0	PKS	i 22 26	PP
Raciborz	Z.	140.3	40	e 19 33	[+ 2]	—	—	—	—
Warsaw		140.8	35	i 19 33	[+ 1]	e 23 6	PKS	i 22 32	PP e 81.9
Uvira		140.9	131	e 19 29	[- 3]	—	—	—	—
Lwiro		141.6	130	e 19 32	[- 1]	—	—	e 22 33	PP
Astrida		142.0	131	e 19 31	[- 3]	—	—	—	—
Messina		142.0	59	e 19 32	[- 2]	29 33 { 0}	—	e 22 47	PP
Taranto		142.9	55	19 30	[- 6]	28 50 {-48}	—	22 53	PP
Lwow		143.7	37	19 37	[ 0]	i 42 58	SSP	i 22 54	PP
Belgrade		143.8	46	e 19 36 <sub>k</sub>	[- 1]	e 23 18	PKS	e 27 27	?
Moscow		145.5	20	19 39	[- 1]	—	—	23 3	PP
Sofia		146.5	49	e 20 46	[+64]	—	—	—	—

Continued on next page.

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1955

665

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Campulung		146.6	43	e 19 47	[+ 5]	—	—	—	—
Iasi		147.1	39	e 19 47	[+ 4]	—	—	e 20 15	?
Sverdlovsk		147.5	357	19 42	[- 1]	—	—	23 12	PP
Bucharest		147.6	44	e 19 49	[+ 5]	e 22 3	?	e 23 48	PP
Athens		148.3	57	i 19 50 <sub>a</sub>	[+ 5]	—	—	e 20 5	PKP <sub>2</sub>
Shillong	Z.	148.8	280	e 19 47 <sub>a</sub>	[+ 2]	—	—	—	—
Istanbul	Z.	151.1	48	e 19 56	[+ 7]	e 26 52	[- 3]	e 23 46	PP
Simferopol		152.1	37	i 19 52	[+ 1]	e 23 42	PP	i 20 4	PKP <sub>2</sub>
Chatra	E.	153.1	282	i 19 56	[+ 4]	—	—	—	—
Kodaikanal	E.	156.3	237	e 20 32	PKP <sub>2</sub>	—	—	—	—
Frunse		156.8	327	i 19 57	[ 0]	i 22 10	?	i 24 6	PP
Ksara		159.1	59	i 20 1 <sub>k</sub>	[+ 1]	24 17	PP	20 39	pPKP
Tiflis		159.8	28	i 20 2	[+ 1]	e 27 9	[+ 4]	i 24 23	PP
Tashkent		160.5	332	e 20 3	[+ 2]	—	—	—	—
Stalinabad		162.9	328	e 20 6	[+ 2]	i 29 34	?	—	—
Bombay	E.	161.7	252	e 20 5	[ 0]	e 34 1	PS	e 24 43	PP
Ashkabad		166.5	357	20 10	[+ 3]	—	—	i 24 57	PP
Quetta		169.8	306	e 20 11	[+ 2]	e 46 14	SS	e 25 8	PP

Nov. 23d. 0h. 2m. Epicentre 41°·3N. 44°·0E.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 21.

Nov. 23d. 2h. 33m. Epicentre 26°·5N. 90°·0E. Magnitude 5.1.  
Seismo. Bull. of Government of India Meteorological Department for Nov., 1955, pp. 6, 7.

Nov. 23d. 3h. 14m. Epicentre 14°N. 90°W. Depth of focus 150km.  
Seismo. Bull. National University of Mexico, Tacubaya, Nov., 1955, p. 5.

Nov. 23d. 6h. 29m. 30s. Epicentre 50°·7N. 157°·2E. Focus at Base of Superficial Layers.

A = -·5862, B = +·2464, C = +·7718;  $\delta$  = +2; h = -6;  
D = +·388, E = +·922; G = -·711, H = +·299, K = -·636.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Petropavlovsk		2.6	20	i 0 44	+ 3	i 1 16	+ 5	i 1 2	?
Magadan		9.6	340	i 2 21	+ 2	i 4 20	+13	—	—
Yuzno-Sakhlinsk		10.2	254	i 2 30	+ 3	i 4 32	+10	i 2 48	?
Nemuro		10.8	231	e 2 36	+ 1	e 4 34	- 2	e 2 49	?
Abashiri		11.0	238	e 2 41	+ 3	e 4 49	+ 8	—	—
Wakkanai	N.	11.6	249	e 2 52	+ 6	e 5 2	+ 6	—	—
Kusiro		11.7	233	e 2 45	- 3	i 4 50	- 8	i 3 51	?
Asahigawa		12.2	241	e 2 56	+ 2	—	—	—	—
Obihiro	Z.	12.3	236	e 2 58	+ 2	—	—	—	—
Urakawa		13.1	235	e 3 7	+ 1	e 5 20	-12	e 3 16	pP
Sapporo		13.2	241	e 3 6 <sub>a</sub>	- 2	i 5 52	+18	e 3 15	pP
Tomakomai		13.5	238	e 3 12	0	e 5 40	- 1	—	—
Muroran		13.9	239	e 3 16	- 1	—	—	—	—
Suttsu		14.0	242	e 3 16	- 2	e 6 15	+22	—	—
Mori		14.3	239	e 3 26	+ 4	5 47	-13	i 3 35	pP
Hakodate		14.5	238	e 3 29	+ 4	—	—	—	—
Hatinohe		14.9	233	e 3 23	- 7	5 54	-21	—	—
Aomori		15.1	235	e 3 31	- 1	6 11	- 8	—	—
Miyako		15.4	230	3 31	- 5	e 6 2	-24	—	—
Morioka		15.7	232	e 3 35	- 5	e 6 18	-15	e 3 45	PP
Mizusawa		16.2	230	3 51	+ 4	6 47	+ 2	—	—
Akita		16.3	234	e 3 48	0	e 6 47	0	e 4 4	PP
Isinomaki		16.6	228	e 3 48	- 4	e 6 40	-14	—	—
Sakata		17.0	233	4 7	+10	7 18	+15	—	—
Sendai		17.0	229	e 3 54	- 3	e 7 4	+ 1	e 4 48	PP

Continued on next page.

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1955

666

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Yamagata		17.3	230	e 4 0	0	e 7 12	+ 2	—	—
Hukusima		17.6	229	e 4 2	- 2	7 21	+ 4	—	12.6
Inawasiro		17.9	229	i 4 11	+ 3	i 7 29	+ 5	i 4 54	PP
Onahama		18.0	226	e 4 11	+ 2	e 7 28	+ 2	—	—
Niigata		18.2	232	e 4 16	+ 4	7 35	+ 4	—	—
Shirakawa		18.2	228	e 4 8	- 4	e 7 32	+ 1	e 4 49	PP
Aikawa		18.5	234	4 14	- 1	7 36	- 1	—	8.9
Mito		18.7	226	4 16	- 2	7 42	0	4 35	PP
Utunomiya		18.8	228	e 4 14	- 5	e 7 40	- 4	e 4 28	pP
Vladivostok		18.8	256	i 4 16	- 3	—	—	i 4 39	sP
Kakioka	E.	19.0	227	e 4 21	- 1	7 42	- 6	—	—
Tyosi	E.	19.1	224	e 4 20	- 3	e 7 52	+ 1	—	e 9.8
Takada		19.2	232	4 20	- 4	7 50	- 3	—	—
Kashiwa		19.4	226	e 4 30	+ 4	—	—	—	e 9.0
Kumagaya		19.4	228	4 25	- 1	e 8 1	+ 4	—	—
Maebasi		19.4	229	i 4 25	- 1	7 54	- 3	e 4 34	PP
Matusiro		19.6	231	i 4 26 <sub>a</sub>	- 2	8 0	- 2	9 2	Q
Nagano		19.6	231	e 4 27 <sub>a</sub>	- 1	e 8 0	- 2	i 5 6	PP
Tokyo		19.6	227	4 26 <sub>a</sub>	- 2	i 8 16	+14	e 5 27	PP
Oiwake		19.7	230	e 4 37	+ 8	e 8 11	+ 7	e 5 27	PP
Titibu	E.	19.7	228	i 4 27	- 2	e 8 6	+ 2	—	—
Wazima		19.7	235	e 4 30	+ 1	e 8 0	- 4	—	—
Yokohama		19.9	226	e 4 28	- 3	e 8 8	0	e 5 2	PP
Matumoto		20.0	231	4 33	+ 1	8 21	+10	—	i 9.5
Toyama		20.0	233	e 4 24	- 8	8 12	+ 1	4 36	PP
Hunatu		20.2	228	e 4 34	- 1	e 8 3	-11	e 7 15	?
Kohu		20.2	229	e 4 34	- 1	e 8 22	+ 8	—	e 11.8
Mera	N.	20.2	225	e 4 24	-11	e 8 14	0	e 4 55	PP
Ajiro		20.4	227	e 4 36	- 1	e 8 26	+ 8	—	8.7
Kanazawa		20.4	234	e 4 25	-12	e 8 31	+13	—	—
Misima		20.4	227	i 4 41 <sub>a</sub>	+ 4	i 8 32	+14	5 44	PP
Takayama		20.4	232	e 4 55	+18	—	—	—	e 9.6
Osima		20.5	226	e 4 36	- 2	8 21	+ 1	e 5 4	PP
Iida		20.7	230	i 4 42	+ 2	i 8 30	+ 6	—	e 10.3
Shizuoka		20.8	228	4 41 <sub>a</sub>	0	8 29	+ 3	5 9	PP
Hukui		21.0	234	e 4 43	0	e 8 39	+ 9	—	—
Omaesaki		21.2	228	e 4 47	+ 2	i 8 36	+ 2	—	e 12.6
Gihu		21.3	232	e 4 45	- 1	e 8 35	- 1	—	10.6
Hamamatu		21.4	229	e 4 49	+ 2	e 8 39	+ 1	—	—
Nagoya	E.	21.4	231	4 46	- 1	8 44	+ 6	—	12.5
Tsuruga		21.4	233	e 4 47	0	8 47	+ 9	—	11.8
Hikone		21.6	232	4 49	0	8 43	+ 2	—	10.2
Hatidyozima		21.8	222	e 4 52	+ 1	e 8 50	+ 5	—	e 10.4
Kameyama		21.9	231	e 4 52	0	8 48	+ 1	10 9	Q
Tu		21.9	231	e 4 49	- 3	—	—	—	11.5
Kyoto		22.1	233	e 4 54	0	e 8 49	- 1	—	e 10.6
Toyooka		22.2	235	e 4 54	- 1	e 8 53	+ 1	—	10.4
Nara	E.	22.3	232	4 56	0	9 0	+ 6	—	12.7
Unalaska		22.3	68	e 4 42	-14	i 5 9	P	—	—
Osaka		22.5	233	e 4 59 <sub>a</sub>	+ 1	e 9 2	+ 4	e 11 0	Q
Changchun		22.6	265	4 55	- 4	i 8 54	- 6	5 4	pP
Kobe		22.6	233	e 5 0	+ 1	i 9 3	+ 3	—	—
Owase		22.6	231	e 4 58	- 1	e 9 3	+ 3	—	—
Sumoto		23.0	233	5 2 <sub>a</sub>	- 1	i 9 8	+ 1	—	e 10.7
Himeji	E.	23.2	234	e 5 2	- 3	9 3	- 7	—	11.1
Matsue		23.2	238	e 5 3	- 2	e 9 13	+ 3	—	—
Siomisaki		23.3	230	i 5 7 <sub>a</sub>	+ 1	i 9 17	+ 5	i 9 54	SS
Tokusima		23.4	233	i 5 7	0	i 9 18	+ 4	—	e 11.2
Takamatu		23.5	235	e 5 6	- 2	i 9 14	- 2	e 6 13	PP
Hamada		24.1	239	i 5 14 <sub>a</sub>	+ 1	9 25	- 1	—	e 12.0
Hirosima		24.3	237	5 14	- 1	e 9 26	- 3	e 5 43	PP
Muroto		24.3	233	i 5 15 <sub>a</sub>	0	9 31	+ 2	e 5 55	PP
Koti		24.4	234	e 5 16 <sub>a</sub>	0	e 9 28	- 3	e 5 39	pP
Matuyama	N.	24.6	236	e 5 18	0	e 9 32	- 2	e 6 18	PP
Simidu		25.3	234	i 5 26 <sub>a</sub>	+ 1	9 45	- 1	—	e 10.8
									12.1

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1955

667

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Simonoski	25.4	239	e 5	28 <sub>a</sub>	+ 2	—	—	—	—	—	—
Ooita	25.6	237	e 5	32	+ 4	e 9	52	+ 1	i 5	47	pP e 10.9
Hukuoka	26.0	239	e 5	32 <sub>a</sub>	+ 0	e 9	59	+ 1	e 5	55	pP e 14.6
Saga	26.3	239	i 5	40	+ 6	i 10	24	+21	i 6	0	pP —
Kumamoto	26.4	238	e 5	35	+ 0	e 9	56	- 8	—	—	13.2
Unzendake	26.7	238	e 5	40 <sub>a</sub>	+ 2	e 9	53	-16	e 11	51	SSS —
Miyazaki	26.8	235	5	40	+ 1	10	11	+ 1	—	—	12.8
Nagasaki	26.9	239	e 5	40 <sub>a</sub>	+ 0	e 10	13	+ 0	e 6	18	PP e 13.3
Kagosima	27.5	236	5	44 <sub>a</sub>	- 1	10	22	0	—	—	11.3
Tomie	E. 27.6	240	e 5	49	+ 3	e 10	27	+ 3	—	—	e 13.6
Yakusima	28.4	235	e 5	50	- 4	e 10	34	- 3	—	—	—
Peking	30.4	265	6	9	- 2	i 11	1	- 7	—	—	—
College	31.4	42	i 6	18 <sub>a</sub>	- 2	i 11	20	- 4	e 6	40	pP i 13.0
Tatung	32.2	268	e 6	26	- 1	—	—	—	—	—	—
Irkutsk	32.3	294	6	27 <sub>a</sub>	- 1	e 14	11	SSS	7	52	PPP —
Zô-Sè	33.1	248	i 6	34 <sub>a</sub>	- 1	i 11	49	- 2	6	57	sP —
Nanking	33.8	251	i 6	40 <sub>a</sub>	- 1	11	57	- 5	i 6	56	pP —
Taiyuan	33.9	265	e 6	43	+ 1	e 12	1	- 2	—	—	—
Paotow	34.0	271	e 6	42	- 1	—	—	—	—	—	—
Taipei	37.5	240	7	13	+ 1	12	52	- 7	—	—	—
Hwalien	38.3	239	e 7	21	+ 2	13	20	+ 9	—	—	—
Sian	38.5	264	e 7	21	0	—	—	—	—	—	—
Sitka	38.8	54	i 7	22	- 1	i 13	31	+13	e 9	13	PP e 17.9
Alishan	39.1	240	e 7	35	+ 9	13	27	+ 4	—	—	—
Hsingkong	39.1	239	e 7	24	- 2	13	22	- 1	—	—	—
Wuwei	40.2	273	e 7	35	0	e 13	39	0	—	—	—
Sining	41.5	272	e 7	49	+ 3	—	—	—	—	—	—
Hong Kong	43.8	246	8	3 <sub>a</sub>	- 1	e 14	28?	- 4	—	—	—
Baguio	45.0	234	i 8	13	- 1	i 14	48	- 2	—	—	—
Honolulu	45.6	113	e 8	38	+19	e 15	0	+ 2	e 9	48	PcP e 18.9
Resolute Bay	46.2	20	i 8	23 <sub>a</sub>	- 1	e 15	11	+ 4	e 10	22	PP e 25.2
Manila	46.4	232	i 9	22	+57	i 16	2	+52	—	—	—
Semipalatinsk	46.8	301	i 8	26	- 2	i 18	18	ScS	i 10	22	PP —
Alberni	47.9	60	e 8	36	- 1	—	—	—	—	—	—
Hawaii Vol. Obs.	48.7	112	e 8	46	+ 3	—	—	—	—	—	—
Victoria	49.1	60	8	45	- 1	15	58	+10	9	3	pP —
Seattle	50.2	60	i 8	56 <sub>a</sub>	+ 1	i 16	13	+10	—	—	—
Sverdlovsk	52.8	317	i 9	13	- 1	i 16	31	- 8	i 10	28	PcP —
Frunse	54.3	296	i 9	24	- 1	i 16	56	- 3	i 11	36	PP —
Hungry Horse	54.3	55	i 9	24 <sub>a</sub>	- 1	i 17	2	+ 3	i 9	43	pP —
Shasta	54.4	67	i 9	25 <sub>a</sub>	- 1	e 17	6	+ 6	i 9	42	pP —
Rabaul	Z. 54.9	186	i 9	27	- 3	—	—	—	—	—	—
Ukiah	54.9	69	e 9	35	+ 5	e 17	13	+ 6	e 10	8	pP e 17.6
Mineral	Z. 55.1	67	i 9	30 <sub>a</sub>	- 1	e 17	12	+ 2	e 39	32	P'P' —
Shillong	E. 55.2	269	e 9	30 <sub>a</sub>	- 2	i 17	5	- 6	11	32	PP —
Saskatoon	55.6	48	9	41	+ 6	17	44	PS	9	53	pP —
Berkeley	56.3	70	i 9	39	- 1	i 17	12	-14	i 9	56	pP 26.0
Butte	N. 56.5	57	i 9	39 <sub>a</sub>	- 2	e 17	0	-28	i 9	54	pP e 23.7
Reno	Z. 56.7	67	i 9	42 <sub>a</sub>	- 1	—	—	—	—	—	—
Santa Clara	56.8	70	e 9	40	- 3	i 17	38	+ 6	—	—	e 25.7
Lick	Z. 57.0	70	i 9	44	- 1	e 39	35	P'P'	i 10	0	pP —
Chatra	E. 57.3	273	i 9	45	- 2	—	—	—	i 13	30	PPP —
Kiruna	57.4	342	i 9	44	- 4	e 17	39	- 1	e 12	0	PP i 27.0
Bozeman	57.5	56	i 9	48 <sub>k</sub>	0	i 17	47	+ 5	i 10	4	pP e 36.8
Tashkent	58.3	298	e 9	50	- 4	e 18	17	PS	e 13	32	PPP —
Fresno	Z. 58.5	69	i 9	54 <sub>a</sub>	- 1	—	—	—	i 10	10	pP —
Eureka	58.9	64	i 9	58 <sub>a</sub>	0	e 18	7	+ 7	i 39	13	P'P' —
Scoresby Sund	59.1	0	i 9	58	- 2	i 18	6	+ 3	—	—	27.5
Tinemaha	59.2	68	i 9	59 <sub>a</sub>	- 1	i 18	13	+ 9	e 39	20	P'P' —
Woody	Z. 59.8	70	i 10	2 <sub>a</sub>	- 2	—	—	—	i 39	21	P'P' —
Isabella	Z. 60.1	69	i 10	4 <sub>a</sub>	- 2	e 39	17	P'P'	i 10	18	pP —
Bokaro	60.3	272	i 10	5 <sub>a</sub>	- 3	i 18	19	+ 1	12	16	PP 28.6
Sale Lake City	60.4	61	i 10	8 <sub>k</sub>	0	i 18	24	+ 5	i 10	28	pP e 25.5
Stalinabad	60.5	296	i 10	5	- 4	i 18	13	- 8	10	33	PcP —
Dehra Dun	60.6	283	e 10	9	- 1	i 18	14	- 8	12	49	PP 27.9

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1955

668

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Pasadena		61.3	70	i 10 13 <sub>a</sub>	- 1	i 18 35	+ 4	i 10 30	pP	i 25.5
Pulkovo		61.8	333	i 10 16	- 2	i 12 34	PP	i 14 12	PPP	—
Riverside		61.9	70	i 10 13 <sub>a</sub>	- 5	i 18 42	+ 4	i 10 32	pP	—
Boulder City		62.0	67	i 10 18 <sub>a</sub>	- 1	i 18 45	+ 5	e 19 12	sS	—
Moscow		62.6	326	e 10 19	- 4	i 18 40	- 7	10 44	sP	—
Palomar	z.	62.6	70	i 10 22 <sub>a</sub>	- 1	e 39 23	P'P'	i 10 43	sP	—
Helsinki		62.9	335	e 14 32	PPP	i 18 45	- 6	—	—	e 28.5
Barratt		63.2	70	i 10 25 <sub>a</sub>	- 2	i 18 58	+ 3	i 10 43	pP	—
Akureyri	N.	63.9	358	—	—	e 19 0	- 4	—	—	e 31.5
Upsala		65.0	339	i 10 38	+ 9	i 19 13	- 4	i 15 10	PcS	e 29.5
Reykjavik		65.5	0	i 10 42 <sub>a</sub>	0	—	—	i 10 51	pP	e 33.5
Ivigtut		66.6	13	—	—	i 19 36	0	i 20 0	PS	i 25.8
Ashkabad		66.7	302	i 10 49	- 1	i 19 36	- 2	13 18	PP	—
Bergen		66.9	345	e 10 56	+ 5	e 19 58	+18	—	—	e 28.0
Tucson		67.0	67	i 10 50 <sub>a</sub>	- 2	e 19 43	+ 2	i 11 7	pP	e 27.5
Quetta		67.4	290	e 10 52	- 2	i 19 42	- 4	e 11 5	pP	—
Hyderabad	E.	69.6	273	i 11 7 <sub>a</sub>	- 1	i 20 8	- 4	13 41	PP	33.5
Apia		69.8	148	e 11 36	pP	—	—	—	—	—
Kirkland Lake	z.	69.9	37	i 11 8 <sub>a</sub>	- 2	—	—	—	—	—
Copenhagen		70.0	340	i 11 10 <sub>k</sub>	0	i 20 14	- 3	24 42	SS	32.5
Tiflis		70.7	313	i 11 13	- 1	i 20 20	- 5	i 11 38	PcP	—
Warsaw		70.9	333	—	—	e 20 26	- 2	i 20 57	PS	e 30.5
Aberdeen		71.1	348	i 11 17	0	i 20 28	- 2	i 14 19	PP	38.3
Lubbock		71.1	60	11 19	+ 2	—	—	—	—	—
Djakarta		71.3	234	e 11 21	+ 3	e 20 36	+ 4	—	—	—
Lembang		71.4	233	i 11 19 <sub>a</sub>	0	e 20 38	+ 5	—	—	—
Bandung		71.5	233	e 11 27	+ 8	e 20 45	+11	—	—	—
Goris		71.7	310	i 11 19	- 1	i 20 35	- 2	11 36	PcP	—
Poona		71.7	277	i 11 19 <sub>a</sub>	- 1	i 20 33	- 4	11 41	PcP	29.1
Madras	E.	71.8	268	i 11 21 <sub>a</sub>	0	i 20 33	- 5	14 3	PP	29.4
Chicago		71.9	45	e 11 25	+ 3	e 20 39	0	i 21 8	sS	e 28.8
Bombay		72.1	278	11 22	- 1	i 20 37	- 4	14 1	PP	—
Lwow		72.1	330	14 8	PP	i 20 37	- 4	15 51	PPP	—
Chihuahua		72.4	66	i 11 17 <sub>k</sub>	- 8	i 20 35	-10	i 21 1	PS	—
Edinburgh	E.	72.5	349	—	—	21 0	SKS	—	—	—
Hamburg	z.	72.5	340	e 11 25	0	—	—	—	—	e 36.5
Simferopol		72.7	321	e 11 26	0	i 21 12	+24	14 12	PP	i 30.1
Florissant		73.0	49	e 11 28	0	i 20 54	+ 2	i 11 45	PcP	—
Fayetteville		73.2	53	i 11 28	- 1	e 20 55	+ 1	e 11 47	pP	—
Iasi		73.2	327	e 11 32	+ 3	—	—	—	—	39.5
Nouméa		73.2	171	11 29 <sub>a</sub>	0	e 21 7	+13	—	—	—
St. Louis		73.2	49	i 11 28	- 1	i 20 55	+ 1	i 11 44	PcP	—
Durham		73.4	347	i 11 33	+ 3	i 20 53	- 3	11 57	PcP	—
Raciborz		73.6	334	e 11 30	- 2	e 21 1	+ 3	e 15 19	PP	e 32.7
Collmberg		73.9	338	e 11 32	- 1	e 20 21	-41	e 16 46	PPP	e 34.5
Ottawa		73.9	36	i 11 31 <sub>a</sub>	- 2	21 0	- 2	11 59	pP	—
Skalnate Pleso		73.9	332	i 11 34	+ 1	e 21 0	- 2	e 11 46	pP	—
Witteveen	z.	73.9	342	i 11 34 <sub>a</sub>	+ 1	—	—	—	—	—
Bacau		74.0	327	e 11 35	+ 1	—	—	—	—	—
Shawinigan Falls		74.0	33	i 11 32	- 2	i 21 4	+ 1	e 12 13	sP	—
Seven Falls		74.1	32	e 11 27 <sub>k</sub>	- 8	—	—	—	—	—
Dallas		74.4	57	i 11 33	- 3	—	—	e 14 0	PP	—
Jena		74.6	338	e 11 34	- 4	e 21 1	- 9	i 11 45	pP	—
Prague		74.7	336	i 11 37	- 1	i 14 36	PP	i 12 3	PcP	e 37.5
Cleveland		74.8	42	i 11 37	- 2	e 21 9	- 3	i 11 56	pP	—
De Bilt		74.8	342	i 11 40 <sub>a</sub>	+ 1	i 21 13	+ 1	e 14 28	PP	e 33.0
Buffalo (Larkin)		74.9	39	i 11 38	- 1	—	—	—	—	—
Cheb		75.2	337	e 11 39 <sub>?</sub>	- 2	e 21 13	- 3	i 14 51	PP	e 33.5
Little Rock	E.	75.2	53	e 11 41	0	e 21 15	- 1	i 11 54	PcP	—
Rathfarnham Castle		75.4	350	i 11 41	- 1	i 21 19	+ 1	e 14 33	PP	e 35.7
Hurbanovo		75.6	333	e 11 45	+ 2	i 21 24	+ 3	e 14 27	PP	e 41.5
Kodaikanal	E.	75.6	269	i 11 45 <sub>a</sub>	+ 2	i 21 13	- 8	14 39	PP	35.5
Budapest		75.7	332	11 43	- 1	21 27	+ 5	i 11 49	PcP	39.0
Campung	N.	75.8	327	e 11 48	+ 4	—	—	—	—	—
Vienna		75.8	334	e 11 44	0	i 21 26	+ 3	i 14 42	PP	37.5

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1955

669

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
				m.	s.		m.	s.		m.	s.		
Bucharest		76.2	326	e 11	48	+ 1	i 21	23	- 4	e 21	57	PS	—
Uccle		76.2	343	e 11	46	- 1	i 21	6	-21	i 12	0	pP	e 31.5
Kew		76.4	346	e 11	46	- 2	e 21	24	- 5	i 12	11	pP	34.0
Pittsburg	z.	76.4	41	i 11	48	0	—	—	—	—	—	—	—
Szeged		76.5	331	11	49	+ 1	e 21	16	-15	14	47	PP	e 38.5
Kalossa		76.6	332	11	49	0	—	—	—	—	—	—	e 39.5
Timisoara		76.6	330	e 12	44	+55	e 22	14	+42	e 22	52	PS	e 41.5
Colombo	e.	76.7	264	11	50	0	21	28	- 5	—	—	—	32.7
Pennsylvania		76.9	40	i 11	56	+ 5	e 21	34	- 1	—	—	—	—
Morgantown		77.0	42	i 11	52	+ 1	i 21	42	+ 6	—	—	—	—
Karlsruhe		77.1	340	e 11	53k	+ 1	e 21	40	+ 3	i 12	3	PcP	—
Stuttgart		77.2	339	e 11	50	- 2	e 21	32	- 6	i 12	5	pP	e 35.5
Belgrade		77.7	330	e 11	52a	- 3	e 21	39	- 5	e 12	34	PcP	e 43.0
Brisbane		78.0	184	i 11	55	- 2	i 21	45	- 2	—	—	—	—
Istanbul		78.0	322	i 11	57a	0	i 21	47	0	e 16	51	PPP	—
Palisades		78.3	37	i 11	57	- 1	i 21	49	- 1	e 15	0	PP	e 36.3
Fordham		78.5	37	e 11	57	- 2	e 21	52	0	e 14	57	PP	—
Halifax		78.6	28	i 11	57a	- 3	i 21	52	- 1	e 28	0	sSS	e 41.5
Sofia		78.6	327	i 12	2	+ 2	e 23	3	PPS	e 18	1	?	45.2
Zürich		78.6	339	e 12	0	0	e 21	53	0	—	—	—	—
Basle		78.7	340	e 12	0	0	e 20	19	?	—	—	—	—
Philadelphia		78.7	38	e 12	12?	+12	e 21	59?	+ 5	e 26	51?	SS	e 30.7
Triest		78.9	335	e 12	0a	- 2	i 21	52	- 4	e 15	45	PP	45.0
Washington	z.	78.9	40	e 12	35?	+33	—	—	—	—	—	—	—
Neuchatel		79.3	340	e 12	3	- 1	22	3	+ 3	—	—	—	—
Salo		79.8	337	e 12	29	pP	e 17	37	PPP	e 12	37	pP	—
Guadalajara		80.0	70	e 12	4	- 4	e 22	6	- 2	—	—	—	e 36.5
Oropa		80.4	339	e 12	12	+ 2	e 22	17	+ 5	i 12	32	pP	47.5
Padova		80.5	336	12	3	- 7	22	24	+11	—	—	—	—
Pavia		80.5	338	e 12	10a	0	e 22	16	+ 3	e 15	42	PP	—
Bologna		80.6	336	e 12	13k	+ 2	e 22	22	+ 8	e 31	24	SSS	—
Chapel Hill		80.6	43	i 12	10	- 1	22	20?	+ 6	—	—	—	—
Mobile		80.6	52	i 12	12a	+ 1	—	—	—	i 12	26	pP	—
Ksara		81.2	314	i 12	10?	- 4	22	20?	0	—	—	—	—
Columbia		81.3	46	i 12	14a	0	i 22	22	+ 1	—	—	—	i 39.6
Florence		81.3	336	i 12	12a	- 2	i 22	20	- 1	i 15	15	PP	i 33.6
Prato		81.3	336	i 12	13	- 1	i 22	19	- 2	—	—	—	—
Taranto		82.6	330	12	12	- 9	—	—	—	—	—	—	—
Athens		82.7	325	i 12	19a	- 3	i 22	32	- 4	e 22	55	sS	—
Rome		82.7	334	i 12	13	- 9	i 22	29	- 7	i 12	38	pP	—
Jerusalem		83.2	313	i 12	24k	0	e 22	45	+ 4	—	—	—	—
Tacubaya		83.5	67	i 12	17	- 9	e 22	47	+ 3	i 15	17	PP	—
Riverview		84.4	185	i 12	31a	+ 1	i 22	53	0	i 12	36	PcP	e 36.6
Messina		85.2	331	i 12	31a	- 3	e 22	46	[- 7]	i 12	42	pP	40.5
Reggio Calabria	n.	85.3	330	e 12	29	- 6	—	—	—	i 12	41	pP	—
Merida		87.7	59	i 12	42k	- 5	e 23	3	[- 6]	e 23	24	S	—
Toledo		88.3	346	i 12	48a	- 1	i 23	17	[+ 4]	16	17	PP	42.8
Auckland	N.	88.6	166	e 13	15	pP	23	20	[+ 5]	i 23	51	pS	e 41.0
Melbourne	E.	88.8	190	e 12	53	+ 1	e 23	38	+ 3	i 13	14	pP	—
Alicante		89.2	343	12	47	- 7	i 23	20	[+ 1]	16	20	PP	e 42.6
Karapiro	N.	89.7	166	12	58	+ 2	e 23	25	[+ 3]	e 23	59	ScS	—
Comitan		90.1	64	e 12	54	- 4	e 23	26	[+ 2]	e 23	48	S	—
Lisbon		90.1	349	i 13	2k	+ 4	23	30?	[+ 6]	23	53	S	47.0
Perth	z.	90.1	214	i 13	1	+ 3	i 23	43	- 4	e 24	52	?	—
New Plymouth	E.	90.6	167	e 12	55	- 5	e 23	51	0	e 24	36	sScS	—
Granada		90.8	345	i 13	5a	+ 4	i 23	31	[+ 3]	13	25	PcP	i 44.8
Tuai	N.	90.9	164	e 13	0	- 2	e 23	30	[+ 1]	e 23	48	pSKS	—
Almeria		91.0	344	i 13	3	+ 1	23	34	[+ 4]	16	36	PP	42.6
Malaga		91.4	345	i 13	2a	- 2	23	38	[+ 6]	i 16	20	PP	41.4
Cobb River	E.	92.4	168	—	—	—	e 24	5	- 2	e 24	46	sScS	—
Wellington		92.9	167	i 13	15a	+ 4	i 23	35	[- 5]	i 24	10	S	e 33.5
Christchurch		94.8	169	e 13	24	+ 4	e 23	50	[- 1]	e 16	24	PP	43.5
San Juan		101.4	42	e 13	53	+ 4	—	—	—	e 18	2	PP	—
Galerazamba		103.7	53	e 18	16	PP	i 24	34	[- 1]	i 20	39	PPP	48.5
St. Vincent		108.1	40	e 18	38?	PP	—	—	—	—	—	—	—

Continued on next page.

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1955

670

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Chinchina	108.4	57	e 14 20	P	i 24 58	[+ 2]	i 18 58	PP	49.5
Bogota	109.6	56	e 14 30	P	i 25 8	[+ 7]	i 19 9	PP	55.5
Astrida	114.9	299	e 18 39	[+ 2]	e 27 19	SKKS	—	—	—
Uvira	116.0	299	e 18 40	[ 0]	e 27 2	SKKS	—	—	—
Huancayo	122.6	67	e 18 54	[+ 2]	e 25 58	[+ 9]	e 20 41	PP	—
La Paz	130.3	63	19 11	[+ 4]	i 22 31	PKS	i 21 30	PP	59.0
Pretoria	z. 134.0	283	e 18 58	[-16]	—	—	i 19 16	PKP	—
Kimberley	z. 138.2	283	i 19 17	[- 5]	—	—	—	—	—
Grahamstown	z. 140.2	277	i 19 16	[- 9]	—	—	—	—	—
La Plata	150.1	72	19 48	[+ 6]	30 12	SKKS	i 19 56	pPKP	70.4

Nov. 23d. 8h. 34m. Epicentre  $23^{\circ}0'N$ ,  $122^{\circ}9'E$ . Depth of focus 60km.  
Intensity II-III at Ilan, Taipei, Taitung, and Hwalien.  
Seismo. Bull. Taiwan Weather Bureau for Oct.-Dec., 1955, Vol. 2, No. 4, Taipei, Taiwan, China, p. 13.

Nov. 23d. 9h. 4m. Epicentre  $41^{\circ}3'N$ ,  $43^{\circ}9'E$ .  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 21.

Nov. 23d. 23h. 2m. Epicentre  $41^{\circ}9'N$ ,  $44^{\circ}1'E$ .  
*Loc. cit.*, 9h., p. 21.

Nov. 24d. 0h. 21m. Epicentre  $41^{\circ}9'N$ ,  $44^{\circ}1'E$ .  
*Loc. cit.*, 23d. 9h., p. 22.

Nov. 24d. 4h. 51m. 24s. Epicentre  $19^{\circ}2'N$ ,  $121^{\circ}1'E$ .

$$A = -.4882, B = +.8092, B = +.3269; \quad \delta = +1; \quad h = +5;$$

$$D = +.856, E = +.517; \quad G = -.169, H = +.280, K = -.945.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Hengchun	2.8	353	e 0 52	+ 1*	1 36	+ 4 <sub>g</sub>	—	—
Baguio	2.8	191	i 0 47 <sub>a</sub>	0	i 1 26	- 1*	—	—
Tawu	3.2	356	0 53	+ 1	1 17	- 15	—	—
Kaohsiang	3.5	347	1 33	S	2 10	+ 14 <sub>g</sub>	—	—
Taitung	3.6	0	0 54	- 4	1 40	- 2	—	—
Hsingkong	3.9	3	e 1 3	+ 1	1 45	- 5	—	—
Tainan	3.9	347	e 1 6	+ 4	1 32	- 18	—	—
Alishan	4.3	356	e 1 13	+ 5	2 2	+ 2	—	—
Manila	4.6	182	i 1 12	0	i 2 12	+ 5	—	—
Hwalien	4.8	5	1 18	+ 3	2 10	- 2	—	—
Taichung	5.0	355	e 1 18	0	2 17	- 1	—	—
Hsinchu	5.6	358	e 1 45	- 7 <sub>g</sub>	2 49	- 1*	—	—
Ilan	5.6	6	e 1 31	+ 4	2 26	- 7	—	—
Taipei	5.8	3	e 1 40	- 4*	2 36	- 2	—	—
Hong Kong	7.2	297	i 1 47 <sub>k</sub>	- 2	—	—	—	—
Zô-Sè	11.9	0	e 2 51	- 3	e 5 8	- 1	—	—
Nanking	13.0	351	e 3 7	- 2	e 5 40	+ 5	—	—
Kagosima	E. 15.0	33	3 40 <sub>a</sub>	+ 5	6 36	+ 13	—	—
Tomie	15.0	26	e 3 36	+ 1	e 6 36	+ 13	—	—
Kumamoto	16.0	30	e 3 48	0	6 57	+ 11	—	—
Saga	N. 16.2	28	3 57	+ 7	—	—	—	—
Hukuoka	16.6	28	e 3 53	- 3	e 7 11	+ 11	e 6 17	? e 8.3
Ooita	N. 16.8	32	e 4 12	+ 14	—	—	—	—
Simidu	17.2	36	e 4 3	0	e 7 11	- 3	—	—
Koti	18.1	35	e 4 11	- 3	e 7 35	0	—	—
Sian	18.5	326	e 4 28	+ 9	—	—	—	—
Takamatu	19.0	35	e 4 22	- 4	e 8 5	+ 10	e 5 12	PP
Sumoto	19.4	36	4 29 <sub>k</sub>	- 1	e 8 6	+ 2	—	—
Kobe	19.8	36	e 4 35	0	—	—	—	—
Toyooka	19.8	36	e 4 39	+ 4	e 8 27	+ 14	—	—

Continued on next page.

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1955		671								
		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Osaka		20.0	37	e 4 38	+ 1	—	—	—	—	
Owase		20.0	39	e 4 34	- 3	—	—	—	—	
Taiyuan		20.0	340	e 4 36	- 1	—	—	—	—	
Kyoto		20.4	36	e 4 40	- 1	e 8 28	+ 3	—	—	
Kameyama		20.7	38	4 44	0	8 40	+ 9	4 59	PP	
Hikone		20.9	37	4 46	0	8 38	+ 3	—	—	
Tsuruga		21.0	36	4 48	+ 1	8 40	+ 3	—	—	
Gihu		21.2	37	e 4 49	0	—	—	—	—	
Nagoya	E.	21.2	38	e 4 49	0	—	—	—	—	
Peking		21.2	349	4 46	- 3	8 40	- 1	—	—	
Hukui		21.4	35	e 4 51	0	—	—	—	—	
Kwanting		21.5	348	e 4 50	- 2	—	—	—	—	
Omaesaki	E.	21.6	41	e 5 3	+ 9	—	—	—	—	
Shizuoka		21.9	41	e 4 55	- 2	9 12	+18	e 5 19	PP	
Tatung		21.9	344	e 5 4	+ 7	—	—	—	—	
Misima	N.	22.4	41	e 5 6	+ 4	e 9 10	+ 6	—	—	
Toyama		22.4	36	e 5 2	0	e 9 15	+11	—	—	
Hunatu		22.5	40	e 5 0	- 2	e 8 57	- 8	—	—	
Kohu		22.5	40	e 5 2	0	e 9 6	+ 1	—	—	
Matumoto	N.	22.5	38	e 5 7	+ 5	—	—	—	—	
Mera	Z.	22.8	43	e 5 16	+11	—	—	—	—	
Matusiro		22.9	37	15 2 <sup>k</sup>	- 4	i 9 10	- 3	—	9.4	
Oiwake		22.9	38	e 5 7	+ 1	e 9 36	SS	—	—	
Nagano	N.	23.0	37	e 5 7	0	e 10 18	SSS	e 7 21	?	
Titibu	E.	23.0	40	i 5 6	- 1	—	—	—	—	
Yokohama		23.0	42	e 5 3	- 4	e 9 35	+21	—	—	
Tokyo	E.	23.2	41	e 5 26	+17	e 9 45	+27	e 6 10	PPP	
Kumagaya		23.3	40	e 5 7	- 3	e 9 56	+36	—	—	
Maebasi		23.3	39	5 8	- 2	e 9 41	+21	5 47	PP e 10.9	
Paotow		23.4	338	e 5 8	- 3	—	—	—	—	
Utunomiya		23.9	40	e 5 10	- 6	—	—	—	—	
Mito	E.	24.1	41	e 5 20	+ 2	—	—	—	—	
Niigata		24.3	36	e 5 41	+21	—	—	—	—	
Inawasiro		24.7	38	e 5 21	- 3	—	—	e 6 25	PPP	
Onahama		24.8	40	e 5 22	- 3	—	—	—	—	
Hokusima		25.0	38	e 5 31	+ 4	—	—	—	—	
Sendai		25.6	38	e 5 31	- 1	—	—	—	—	
Akita		26.2	35	5 34	- 4	e 6 14	PP	e 6 46	PPP	
Morioka		26.8	36	e 5 40	- 4	—	—	—	—	
Shillong		27.8	289	i 5 51 <sup>k</sup>	- 2	e 10 22	-13	6 33	PP 11.2	
Lembang	Z.	29.1	208	e 6 11	+ 7	—	—	—	—	
Obihiro		30.1	33	e 6 28	+15	—	—	—	—	
Chatra	E.	32.1	290	e 6 30	- 1	—	—	—	—	
Rabaul	Z.	38.4	124	i 7 35	+10	—	—	—	—	
Dehra Dun		40.5	294	e 7 46	+ 4	i 13 45	- 7	—	—	
Poona	Z.	44.6	277	e 8 13	- 3	—	—	—	—	
Bombay		45.6	278	e 8 50	+26	e 18 38	SS	e 10 21	PP	
Quetta		50.0	294	e 8 56	- 2	i 16 5	- 4	—	—	
Brisbane		55.8	145	e 9 32	- 9	—	—	i 9 37	P	
College		73.3	26	i 11 29	- 6	—	—	—	—	
Kiruna	Z.	76.4	337	i 11 49 <sup>a</sup>	- 4	—	—	i 12 5	PcP e 37.6	
Upsala	Z.	80.2	330	i 12 11	- 3	—	—	—	—	
Resolute Bay		83.6	9	i 12 28 <sup>a</sup>	- 3	—	—	e 15 35	PP	
Collmberg	Z.	86.0	323	e 12 43	0	—	—	—	—	
Hungry Horse		96.7	34	i 13 32	- 1	—	—	—	—	
Mineral	Z.	96.9	43	e 13 31	- 3	—	—	—	—	
Eureka		101.0	42	e 13 51	- 2	—	—	e 17 3	?	
Woody	Z.	101.2	46	i 17 16	?	—	—	i 18 9	PP	
Palomar	Z.	103.9	47	e 16 1	?	—	—	—	—	
Tucson		108.7	45	e 18 20	{ -11}	—	—	—	—	
Huancayo		162.6	68	e 20 8	{ + 5}	—	—	—	—	
La Paz		170.8	75	e 20 28	{ +18}	—	—	25 22	PP	

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1955

672

Nov. 24d. 11h. 10m. 35s. Epicentre 50°·7N. 157°·2E. Focus at Base of Superficial Layers.  
(as on 23d.).

A = -·5862, B = +·2464, C = +·7718;  $\delta = +2$ ;  $h = -6$ ;  
D = +·388, E = +·922; G = -·711, H = +·299, K = -·636.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Matusiro		19·6	231	i 4 28 <sub>a</sub>	0	i 8 4	+ 2	—	e 9·1
College		31·4	42	i 6 19	- 1	—	—	i 6 33	pP
Baguio		45·0	234	i 8 13	- 1	—	—	—	—
Resolute Bay		46·2	20	i 8 24 <sub>k</sub>	0	—	—	e 11 42	?
Horseshoe Bay		48·7	59	8 43	0	—	—	—	e 22·4
Victoria		49·1	60	8 47	+ 1	—	—	—	—
Hungry Horse		54·3	55	i 9 26	+ 1	—	—	i 9 40	pP
Shasta	z.	54·4	67	e 9 27	+ 1	e 11 42	PP	e 9 42	pP
Mineral		55·1	67	e 9 32	+ 1	—	—	i 9 44	pP
Shillong	z.	55·2	269	i 9 30	- 2	—	—	—	—
Berkeley	z.	56·3	70	i 9 56	pP	—	—	—	—
Butte	n.	56·5	57	e 9 42	+ 1	—	—	—	—
Reno	z.	56·7	67	e 9 44	+ 1	—	—	e 9 58	pP
Lick	z.	57·0	70	i 9 46	+ 1	i 10 55	PcP	i 10 1	pP
Kiruna	z.	57·4	342	i 9 44	- 4	—	—	i 10 28	?
Bozeman		57·5	56	i 9 50	+ 2	—	—	i 10 5	pP
Fresno	z.	58·5	69	e 9 56	+ 1	—	—	e 10 11	pP
Eureka		58·9	64	i 10 0	+ 2	e 43 30	SKPP'	e 38 9	P'P'
Tinemaha	z.	59·2	68	i 10 1 <sub>a</sub>	+ 1	—	—	i 10 16	pP
Woody	z.	59·8	70	i 10 4 <sub>a</sub>	0	—	—	i 10 19	pP
Isabella	z.	60·1	69	i 10 6 <sub>a</sub>	0	—	—	i 10 21	pP
Salt Lake City		60·4	61	i 10 10	+ 2	i 10 37	sP	i 10 25	pP
Pasadena		61·3	70	i 10 14 <sub>a</sub>	0	—	—	i 10 28	pP
Riverside	z.	61·9	70	i 10 18	0	—	—	i 10 32	pP
Boulder City		62·0	67	e 10 19	0	—	—	i 10 34	pP
Palomar	z.	62·6	70	i 10 24	+ 1	—	—	i 10 38	pP
Barratt	z.	63·2	70	i 10 27	0	—	—	i 10 41	pP
Boulder		64·5	58	i 10 35	- 1	—	—	—	—
Upsala	z.	65·0	339	i 10 38	- 1	—	—	—	—
Tucson		67·0	67	i 10 52	0	i 24 35	SS	i 11 7	pP
Quetta	z.	67·4	290	e 10 53	- 1	—	—	e 11 20	PcP
Kirkland Lake	z.	69·9	37	i 11 10 <sub>a</sub>	0	—	—	—	—
Lembang	z.	71·4	233	e 11 21 <sub>k</sub>	+ 2	—	—	—	—
Poona	z.	71·7	277	i 11 20	0	—	—	—	—
Fayetteville		73·2	53	i 11 30 <sub>k</sub>	+ 1	—	—	e 11 45	pP
Ottawa		73·9	36	i 11 32 <sub>a</sub>	- 1	—	—	—	—
Shawinigan Falls		74·0	33	i 11 33	- 1	—	—	e 11 43	pP
Seven Falls		74·1	32	i 11 30 <sub>7a</sub>	- 5	—	—	—	—
Dallas		74·4	57	i 11 36	0	—	—	—	—
Jena	z.	74·6	338	e 11 36	- 2	—	—	e 14 29	PP
Stuttgart		77·2	339	e 11 51	- 1	—	—	—	—
Brisbane		78·0	184	i 11 56	- 1	—	—	i 12 12	pP
Palisades		78·3	37	i 11 58	0	—	—	—	—
Basle		78·7	339	e 12 12	pP	e 20 43	-71	—	—
Triest		78·9	335	e 11 55	- 7	e 21 47	- 9	e 15 40	pPP
Neuchatel		79·4	339	e 12 3	- 1	—	—	—	—
Chapel Hill		80·6	43	i 12 12	+ 1	—	—	—	—
Tacubaya		83·5	67	e 12 44	pP	—	—	—	—
Riverview		84·4	185	i 12 36 <sub>a</sub>	+ 6	e 29 39	SSP	—	—
Huancayo		122·6	67	e 18 55	[+ 3]	—	—	e 19 11	pPKP
La Paz	n.	130·3	63	e 19 19	[+ 12]	—	—	22 1	PP

Nov. 24d. 15h. 8m. Epicentre 41°·5N. 44°·1E.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 22.

Nov. 24d. 15h. 29m. 23s. Epicentre 41°·4N. 44°·0E.  
Loc. cit., 15h. 8m., pp. 22, 23.

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

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1955

673

Nov. 24d. 15h. 29m. 31s. Epicentre 41°·3N. 44°·0E.  
*Loc. cit.*, 15h. 8m., p. 23.

Nov. 24d. 22h. 22m. 23s. Epicentre 36°·7N. 70°·5E. Depth 200km.  
*Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 55.*

Nov. 25d. 8h. 33m. 20s. Epicentre 42°·4N. 143°·1E. Depth of focus 0·005.

Intensity V at Urakawa and Obihiro ; IV at Tomakomai and Kusiro ; II-III at Sapporo, Muroran, Mori, Hatinohe, Nemuro, and Iwamizawa. Depth of focus 60km.  
*Seismo. Bull. Cent. Met. Obs., Japan, for Nov., 1955, Tokyo, 1956, pp. 19-21, with macro-seismic chart.*

A = -·5923, B = +·4447, C = +·6718 ;  $\delta = -11$  ;  $h = -3$  ;  
D = +·600, E = +·800 ; G = -·537, H = +·403, K = -·741.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Urakawa		0·3	229	i 0 10	- 2	i 0 18	- 2	—	—
Obihiro		0·6	6	i 0 15 <sub>k</sub>	+ 1	i 0 26	+ 1	—	—
Kusiro		1·1	57	i 0 20 <sub>a</sub>	0	i 0 36	0	—	—
Tomakomai		1·2	262	e 0 23	+ 1	i 0 40	+ 2	—	—
Asahigawa		1·5	339	e 0 28	+ 2	e 0 52	+ 7	—	—
Sapporo		1·5	299	i 0 25 <sub>k</sub>	- 1	i 0 44	- 1	i 0 33	?
Abashiri		1·6	269	e 0 35	+ 8	i 0 56	+ 9	—	—
Muroran		1·6	269	i 0 27 <sub>k</sub>	0	i 0 46	- 1	—	—
Hakodate		1·9	253	i 0 32	+ 1	i 0 53	- 1	—	—
Mori	E.	1·9	263	i 0 32 <sub>a</sub>	+ 1	e 0 56	+ 2	—	—
Nemuro		2·0	61	e 0 34	+ 2	e 0 57	0	—	—
Hatinohe		2·2	214	e 0 34 <sub>a</sub>	- 1	i 0 59	- 3	—	—
Suttsu		2·2	282	e 0 40	+ 5	e 1 3	+ 1	—	—
Aomori		2·3	229	0 37	0	i 1 4	0	—	—
Miyako	E.	2·8	198	e 0 44	0	1 12	- 5	—	—
Morioka		3·0	210	e 0 46	- 1	e 1 18	- 4	—	—
Wakkanai	N.	3·2	242	—	—	e 1 15	-12	e 1 46	?
Akita		3·5	222	e 0 54	0	e 1 36	+ 2	—	—
Mizusawa		3·6	206	0 55	0	1 35	- 2	—	—
Isinomaki		4·2	200	—	—	e 1 43?	- 9	—	—
Sakata		4·3	217	e 1 29	?	e 2 6	+12	—	—
Sendai		4·4	203	e 1 6	0	e 1 54	- 3	—	—
Yamagata		4·6	208	e 1 8	- 1	e 1 57	- 5	—	—
Hokusima		5·0	205	e 1 13	- 1	e 2 11	- 1	—	—
Inawasiro		5·3	207	1 18	- 1	i 2 17	- 2	e 1 40	?
Niigata		5·4	216	e 1 45	+25	e 2 51	+29	—	—
Onahama		5·7	198	e 1 19	- 5	e 2 25	- 4	—	—
Shirakawa		5·7	204	—	—	e 2 23	- 6	—	—
Mito		6·3	200	e 1 31	- 1	e 2 39	- 5	—	3·1
Utunomiya		6·3	204	e 1 31	- 1	e 2 38	- 6	—	—
Kakioka		6·5	201	e 1 29	- 6	3 42	+53	—	—
Takada		6·5	217	e 1 42	+ 7	—	—	—	—
Maebasi		6·7	209	e 1 41	+ 3	e 2 55	+ 1	e 2 29	?
Kumagaya		6·8	206	e 1 41	+ 2	e 2 53	- 3	—	—
Nagano	N.	6·8	215	e 1 42	+ 3	—	—	—	e 3·8
Matusiro		6·9	215	i 1 39 <sub>k</sub>	- 2	2 48	-11	—	—
Tyosi	E.	6·9	196	—	—	e 2 40	-19	—	e 3·5
Wazima	N.	6·9	226	e 1 44	+ 3	—	—	—	—
Oiwake		7·0	212	e 1 56	+14	—	—	—	—
Titibu	E.	7·1	208	e 1 50?	+ 6	—	—	—	—

Continued on next page.

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1955

674

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Tokyo	N.	7.2	202	e 1	50	+ 5	i 3	5	- 1	—	—	—
Matumoto		7.3	215	e 1	53	+ 7	—	—	—	—	—	—
Toyama		7.3	221	e 1	47	+ 1	—	—	—	—	—	—
Yokohama		7.4	202	e 1	50	+ 2	e 3	48	L	—	—	(e 3.8)
Hunatu		7.6	208	e 2	5	+15	e 3	13	- 3	—	—	—
Kohu	E.	7.6	209	e 2	4	+14	e 3	16	0	—	—	—
Mera	N.	7.9	200	e 2	13	+18	—	—	—	—	—	—
Misima	E.	7.9	206	e 2	4	+ 9	e 3	30	+ 7	—	—	—
Iida		8.0	213	e 2	9	+13	—	—	—	—	—	—
Osima	N.	8.1	202	—	—	—	e 3	18	-10	—	—	—
Nagoya		8.6	216	e 2	25	+21	e 3	49	+ 8	—	—	e 4.5
Omaesaki	N.	8.6	208	e 3	13	?	—	—	—	—	—	—
Kameyama		9.1	217	e 2	16	+ 5	e 4	1	+ 8	—	—	—
Kyoto		9.3	221	e 2	14	0	—	—	—	—	—	—
College		43.9	35	i 8	1	- 1	—	—	—	—	—	—
Shillong	Z.	45.0	265	i 8	9 <sub>a</sub>	- 2	—	—	—	—	—	—
Resolute Bay		57.1	16	i 9	40 <sub>k</sub>	- 2	—	—	—	—	—	—
Lembang	Z.	58.7	222	e 9	50	- 3	—	—	—	—	—	—
Quetta	Z.	60.7	285	e 10	5 <sub>a</sub>	- 2	—	—	—	—	—	—
Kiruna	Z.	62.0	339	i 10	13	- 3	—	—	—	—	—	—
Poona	Z.	62.6	271	e 10	18	- 2	—	—	—	—	—	—
Shasta	Z.	66.9	56	e 10	48	+ 1	—	—	—	e 11	0	pP
Hungry Horse		67.0	45	i 10	48	0	—	—	—	e 11	8	PcP
Mineral	Z.	67.6	55	e 10	51	- 1	—	—	—	—	—	—
Upsala	Z.	68.8	334	i 10	57	- 2	—	—	—	i 11	16	PcP
Butte	N.	69.3	46	e 11	3	+ 1	—	—	—	—	—	—
Lick	Z.	69.4	58	e 11	6	+ 3	—	—	—	—	—	—
Eureka		71.5	53	i 11	17	+ 1	—	—	—	—	—	—
Tinemaha	Z.	71.7	56	e 11	18	+ 1	—	—	—	—	—	—
Woody	Z.	72.2	58	i 11	19 <sub>a</sub>	- 1	—	—	—	—	—	—
Isabella	Z.	72.5	58	i 11	22	0	—	—	—	—	—	—
Salt Lake City		73.1	50	e 12	5	pPcP	—	—	—	—	—	—
Pasadena	Z.	73.6	59	e 11	29	+ 1	—	—	—	e 12	15	pPcP
Riverside	Z.	74.2	58	e 11	31	- 1	—	—	—	—	—	—
Palomar	Z.	75.0	59	e 11	36	0	—	—	—	—	—	—
Barratt	Z.	75.5	59	e 11	40	+ 1	—	—	—	—	—	—
Collmberg	Z.	77.1	330	e 11	47	- 1	—	—	—	—	—	—
Jena	Z.	77.9	331	e 11	52	0	—	—	—	—	—	—
Tucson		79.5	56	e 12	2	+ 1	—	—	—	—	—	—
Stuttgart		80.6	331	e 12	6	- 1	—	—	—	—	—	—
Triest		81.4	327	e 12	5	- 6	e 22	12	- 4	e 15	10	PP
Fayetteville		86.0	43	i 12	35	0	—	—	—	—	—	—
Ottawa		86.0	26	e 12	34	- 1	—	—	—	—	—	—

Nov. 25d. 12h. 3m. Epicentre 39°·5N. 67°·7E.

Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 55.

Nov. 25d. 12h. 14m. Epicentre 41°·3N. 43°·9E.

Loc. cit., 12h. 3m., p. 23.

Nov. 25d. 16h. 38m. Epicentre 43°·2N. 78°·5E. Depth of focus 15km.

Loc. cit., 12h. 3m., p. 56.

Nov. 27d. 7h. 5m. Epicentre 24°·5S. 177°·5W. Depth of focus 100km.

New Zealand Seismo. Report for 1955, Department of Scientific and Industrial Research, Geophysics Division, Wellington, N.Z., 1961, p. 63.

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

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1955

675

Nov. 27d. 19h. 30m. 37s. Epicentre 23°·1N. 123°·8E.

A = -·5122, B = +·7651, C = +·3901;  $\delta$  = -10;  $h$  = +4;  
D = +·831, E = +·556; G = -·217, H = +·324, K = -·921.

		$\Delta$ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.
				m.	s.		m.	s.		m.	s.	
Hwalien		2·2	295	0	37	-	1	0	59	-	7	---
Hsingkong		2·3	268	e	0 37	-	3	1	1	-	8	---
Ilan		2·5	312	e	0 46	+	3	1	9	-	5	---
Taitung		2·5	264	0	43	0		0	58	-	16	---
Alishan		2·8	280	e	1 6	+10 <sub>g</sub>		1	37	+	5 <sub>g</sub>	---
Tawu		2·8	256	0	46	-	1	---	---	---	---	---
Taipei		2·9	314	e	0 51	-	1*	1	30	0*		---
Hengchun		3·0	250	0	57	-	3 <sub>g</sub>	1	37	-	2 <sub>g</sub>	---
Tainan		3·3	270	e	1 1	+	2*	1	39	+	4	---
Baguio		7·3	205	i	1 49k	-	1	i	3 38	-	3*	---
Z0-Sè		8·4	344	e	2 0	-	6	e	3 51	+	8	---
Manila		8·8	198	i	2 5	-	6	i	4 2	+	9	---
Hong Kong	z.	9·0	267	e	2 11?	-	2	---	---	---	---	---
Yakusima		9·5	38	e	2 21	+	1	---	---	---	---	6·4
Nanking		10·0	335	e	2 24	-	3	e	4 35	+	13	---
Kagosima		10·4	34	e	2 46	+	12	e	4 24	-	8	e 6·1
Tomie	E.	10·5	24	e	2 30	-	5	---	---	---	---	e 6·0
Kumamoto		11·5	30	e	2 45	-	3	---	---	---	---	7·6
Saga	N.	11·6	28	3	17	+	27	---	---	---	---	---
Hukuoka		12·0	28	e	3 5	+	10	e	5 59	Q		e 7·7
Ooita	E.	12·2	32	e	3 18	+	20	e	5 50	+	34	i 3 41 ?
Koti	N.	13·5	37	e	3 19	+	4	---	---	---	---	e 6·8
Hamada		13·8	30	e	3 15	-	4	---	---	---	---	e 8·8
Takamatu		14·4	36	e	3 34	+	7	---	---	---	---	e 7·0
Osaka		15·4	39	e	3 58	+	18	---	---	---	---	---
Nara		15·6	40	e	3 49	+	6	---	---	---	---	---
Kameyama		16·1	40	e	3 57	+	8	e	6 59	+	10	---
Hikone		16·3	39	3	56	+	4	7	29	?		e 10·0
Nagoya	N.	16·6	41	e	3 52	-	4	e	7 38	?		---
Linfen		16·8	323	e	4 10	+	12	---	---	---	---	---
Omaesaki	E.	17·0	44	e	4 15	+	14	---	---	---	---	---
Sian		17·2	314	e	4 16	+	13	---	---	---	---	---
Shizuoka		17·4	44	4	9	+	3	e	7 20	+	1	---
Taiyuan		17·6	329	e	4 8	0		---	---	---	---	---
Misima		17·8	44	4	15	+	4	e	7 39	+	11	---
Toyama		17·8	37	e	4 27	+	16	---	---	---	---	e 8·9
Kohu		17·9	42	e	4 14	+	2	e	7 44	+	14	---
Hunatu		18·0	43	e	4 8	-	5	e	7 37	+	5	---
Matumoto	E.	18·0	40	e	4 15	+	2	e	8 1	?		---
Peking		18·1	341	e	4 7	-	7	7	34	-	1	---
Matusiro		18·3	40	i	4 16k	-	1	7	35	-	4	8·8
Mera		18·3	46	e	4 17	0		e	7 50	+	11	---
Nagano	N.	18·4	39	i	4 19	+	1	e	7 39	-	2	e 4 28 PP
Oiwake		18·4	41	e	4 19	+	1	---	---	---	---	---
Kwanting		18·5	340	e	4 7	-	12	---	---	---	---	---
Yokohama		18·5	45	i	4 20	+	1	e	7 58	+	14	e 4 43 PP
Maebasi		18·7	41	e	4 23	+	1	e	7 56	+	8	e 4 39 PP
Tokyo	E.	18·7	44	e	4 22	0		e	7 54	+	6	---
Kumagaya		18·8	42	e	4 24	+	1	e	7 57	+	7	---
Kakioka	E.	19·3	44	e	4 26	-	3	---	---	---	---	---
Utunomiya		19·3	42	e	4 25	-	4	e	7 59	-	3	---
Mito		19·6	44	e	4 29	-	3	i	8 3	-	5	e 5 46 ?
Shirakawa		19·9	42	e	4 20	-	16	e	8 5	-	10	---
Inawasiro		20·1	40	e	4 33	-	5	e	8 19	0		---
Onahama		20·2	43	e	4 34	-	5	8	20	-	1	---

Continued on next page.

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1955

676

		$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Hukusima		20.5	40	e 4 37	- 5	e 8 20	- 7	—	—
Changchun		20.8	3	e 4 39	- 6	—	—	—	—
Sendai		21.1	40	e 4 45	- 3	e 8 32	- 7	e 5 37	PP
Akita		21.6	36	e 5 19	+25	8 55	+ 6	i 9 32	SS
Lanchow		21.6	311	e 4 57	+ 3	—	—	—	—
Morioka		22.2	38	—	—	i 9 1	+ 1	—	—
Miyako	E.	22.6	39	—	—	e 7 52	?	—	—
Aomori		22.8	35	e 4 57	- 8	—	—	—	—
Hatinohe		23.0	36	e 5 4	- 3	e 9 15	+ 1	—	—
Sining		23.4	310	e 5 13	+ 2	—	—	—	—
Wuwei		23.4	314	e 5 17	+ 6	—	—	—	—
Urakawa		24.8	35	e 5 23	- 2	e 9 45	- 1	—	—
Changyeh		25.3	314	e 5 47	+17	—	—	—	—
Obihiro	Z.	25.5	34	e 5 31	- 1	—	—	—	—
Kusiro		26.2	36	e 5 32	- 6	—	—	—	—
Shillong	Z.	29.2	282	i 6 4	- 1	—	—	—	—
Chatra	E.	33.4	284	i 6 38	- 4	e 12 0	- 3	—	—
Lembang		33.7	210	e 6 48	+ 3	e 12 15	+ 7	i 8 9	PP
Dehra Dun		41.3	290	e 7 48	- 1	i 14 3	- 1	14 26	PS
Colombo	E.	45.2	256	e 13 43	?	e 18 13	SS	—	e 17.3 e 25.4
Poona	Z.	46.8	274	e 8 33	0	—	—	—	—
Bombay	E.	47.6	275	e 8 44	+ 5	e 15 35	0	—	—
Quetta		50.9	291	e 9 4	- 1	e 16 24	+ 3	—	—
Brisbane		57.6	149	i 9 54	0	—	—	i 10 7	?
College		68.7	27	i 11 4	- 3	—	—	i 11 16	PcP
Kiruna		73.8	337	i 11 35	- 3	—	—	i 11 48	PcP
Jerusalem		77.1	299	i 11 56	- 1	—	—	i 12 43	PcP
Upsala		78.1	330	i 12 0 <sup>a</sup>	- 2	—	—	i 12 12	?
Resolute Bay		79.4	10	e 12 7	- 2	—	—	—	e 40.4
Raciborz	Z.	82.1	321	e 12 23	- 1	—	—	e 12 54	PcP
Scoresby Sund	Z.	83.6	349	i 12 31	0	—	—	—	—
Prague		84.2	322	i 12 33	- 1	i 17 7	PP	i 12 51	PcP
Collmberg	Z.	84.4	324	e 12 34	- 2	—	—	—	—
Hamburg	Z.	84.8	327	i 12 37	0	—	—	e 12 49	PcP
Jena	E.	85.4	324	e 12 36	- 4	—	—	—	—
Triest		86.8	319	e 13 3	+16	e 23 40	+15	e 16 11	PP
Taranto		87.1	313	—	—	e 22 23?	?	—	—
Stuttgart		87.8	323	e 12 50	- 2	—	—	e 13 3	PcP
Rome		89.5	316	—	—	e 23 39	-11	e 24 7	?
Shasta	Z.	91.7	44	e 13 10	0	—	—	e 13 23	PcP
Hungry Horse		92.1	34	i 13 13	+ 1	e 16 56	PP	i 13 26	PcP
Mineral	Z.	92.4	44	i 13 13	- 1	—	—	—	—
Berkeley	Z.	93.3	46	e 13 17	- 1	—	—	—	—
Lick	Z.	94.0	47	e 13 21	0	—	—	—	—
Reno	Z.	94.0	44	e 13 21	0	—	—	—	—
Butte	N.	94.4	36	i 13 23	0	—	—	—	—
Bozeman		95.4	35	e 13 27	- 1	—	—	—	—
Fresno	Z.	95.5	46	e 13 28	0	—	—	—	—
Eureka		96.4	42	e 13 33	+ 1	—	—	e 17 20	PP
Woody	Z.	96.8	47	i 13 31	- 3	e 17 8	PP	i 13 44	PcP
Isabella	Z.	97.0	47	i 13 34	- 1	—	—	e 17 20	PP
Pasadena		98.1	48	e 13 39	- 1	—	—	e 17 31	PP
Boulder City		99.3	45	e 13 45	0	e 17 43	PP	e 13 57	PcP
Palomar	Z.	99.5	48	e 13 47	+ 1	—	—	e 17 47	PP
Barratt	Z.	100.0	48	e 13 52	+ 4	—	—	e 17 48	PP
Tucson		104.2	46	e 18 21	PP	—	—	—	—
Huancayo		158.7	62	i 20 2	[+ 3]	—	—	e 20 38	PKP <sub>2</sub>
La Paz	N.	167.0	62	e 20 8	[+ 11]	—	—	21 13	PKP <sub>2</sub>

Nov. 30d. 0h. 10m. Epicentre 21°-0S, 174°-5E.

New Zealand Seismo. Report for 1955, Department of Scientific and Industrial Research  
No. E-136, Wellington, N.Z., 1961, pp. 63, 64.

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1955

677

Dec. 1d. 2h. 44m. 2s. Epicentre 35°·25S. 180°.  
New Zealand Seismo. Obs. Bull. for 1955, E-136, Wellington, 1961, p. 64.

Dec. 1d. 22h. 57m. 26s. Epicentre 35°·6N. 140°·5E. Depth 70-80km.  
Intensity II-III at Tokyo, Ajiro, and Osima.  
Seismo. Bull. Cent. Met. Obs., Japan, for Dec., 1955, Tokyo, 1956, pp. 10-11, with macroseismic chart.

Dec. 2d. 14h. 26m. 39s. Epicentre 36°·3N. 137°·1E. Depth about 280km. Unfelt.  
Seismo. Bull. Cent. Met. Obs., Japan, for Dec., 1955, Tokyo, 1956, pp. 11, 12.

Dec. 3d. 0h. 57m. 49s. Epicentre 38°·3N. 69°·7E.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 56.

Dec. 3d. 14h. 27m. 47s. Epicentre 33°·8N. 135°·1E. Depth about 20km.  
Intensity V at Sumoto; IV at Wakayama, Tokushima, Siomisaki, Takamatu, Kobe, Owase, Nara, Osaka, Muroto, and Tu; II-III at Himeji, Okayama, Koti, Kyoto, Kameyama, Yonago, Hikone, Tottori, Sakai, Matsunaga, Nagoya, Matsue, and Iida.  
Seismo. Bull. Cent. Met. Obs., Japan, for Dec., 1955, Tokyo, 1956, pp. 12-15, with macroseismic chart.

Dec. 4d. 2h. 1m. 31s. Epicentre 35°·0S. 180°

$$A = -.8210, B = 0; \quad C = -.5710; \quad \delta = +8; \quad h = 0;$$

$$D = 0, E = +1.000; \quad G = +.571, H = 0, K = -.821.$$

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Tuai	N.	4.4	211	1 11	+ 1	2 1	- 1	—	—
Karapiro	N.	4.6	230	1 16	+ 4	2 7	0	—	—
Onerahi	E.	4.7	260	i 1 6	- 8	—	—	—	—
Tongariro	Z.	5.5	220	1 24	- 1	—	—	—	—
New Plymouth	E.	6.2	228	e 1 41	+ 6	—	—	—	—
Wellington		7.5	212	1 51	- 2	3 9	-11	—	—
Cobb River	E.	8.3	222	1 59	- 5	3 29	-11	—	—
Kaimata	N.E.	10.0	219	e 2 26	- 1	e 4 5	-17	—	—
Christchurch		10.2	212	e 2 50	+19	e 4 21	- 6	—	—
Riverview	N.	23.8	265	—	—	e 9 30	+ 2	e 10 26	SS
Brisbane		24.2	281	i 5 19	0	e 10 5	+30	—	—
Rabaul	Z.	40.1	314	i 7 37	- 2	—	—	—	—
Lembang	Z.	71.7	274	e 11 31	+ 5	—	—	—	—
Matusiro		81.2	327	12 15	- 4	23 0	PS	e 27 36	SS
Hong Kong		84.5	302	e 12 16?	-20	—	—	—	e 34.1
Barratt	Z.	89.8	49	i 13 2	0	—	—	—	—
Pasadena	Z.	89.9	47	e 13 2	0	—	—	i 13 23	?
Palomar	Z.	90.1	48	e 13 4	+ 1	e 13 18	?	e 13 30	?
Lick	Z.	90.1	43	e 13 4	+ 1	—	—	e 13 22	?
Berkeley	Z.	90.2	42	e 13 4	0	—	—	—	—
Woody	Z.	90.6	46	i 13 6	+ 1	—	—	i 13 25	?
Isabella	Z.	90.7	46	i 13 6	0	—	—	i 13 25	?
Tinemaha	Z.	91.9	45	e 13 13	+ 2	—	—	—	—
Shasta	Z.	92.1	40	e 13 12	0	—	—	—	—
Mineral	Z.	92.3	41	e 13 13	0	—	—	—	—
Boulder City		93.1	48	e 13 19	+ 2	—	—	—	—
Tucson		93.2	52	e 13 19	+ 2	e 30 24	SS	e 13 38	?
Tacubaya		93.7	69	e 16 8	?	—	—	—	—
Eureka		94.8	44	e 13 25	0	—	—	e 18 8	?
Huancayo		94.8	108	e 13 29	+ 4	—	—	—	—
College		102.7	14	e 13 58	- 2	—	—	i 18 18	PP
Kirkland Lake	Z.	121.3	50	e 18 54	[- 1]	—	—	—	—
Resolute Bay		122.2	18	i 18 54k	[- 3]	e 36 57	SS	—	e 61.0
Palisades		123.1	60	i 18 59	[ 0]	—	—	—	e 58.3
Ottawa		123.2	55	i 18 58a	[- 1]	—	—	28 47	PKKP
Quetta	Z.	124.4	285	e 18 59a	[- 2]	—	—	—	—
Shawinigan Falls		125.5	54	e 19 2	[- 1]	—	—	e 19 21	?
Seven Falls		127.0	54	e 19 3	[- 3]	—	—	i 19 23	?
Astrida		133.3	223	e 19 18k	[ 0]	e 22 41	PKS	—	—
Lwiro		134.1	222	e 18 17	[-63]	e 22 45	PKS	—	—

Continued on next page.

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1955

678

		$\Delta$	Az	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Kiruna	z.	145.2	347	i 19 35	[- 5]	—	—	i 20 14	?
Reykjavik	z.	148.0	18	i 19 43	[- 1]	—	—	—	—
Jerusalem		150.5	274	i 19 46	[- 2]	—	—	i 19 59	PKP <sub>2</sub>
Ksara		150.5	278	i 19 49	[+ 1]	—	—	e 23 32	PP
Upsala	z.	152.6	341	i 19 55	[+ 4]	—	—	i 20 6	PKP <sub>2</sub>
Jena	z.	162.0	336	e 20 0	[- 3]	—	—	e 20 46	PKP <sub>2</sub>
Stuttgart		164.7	336	e 20 3	[- 3]	—	—	e 20 58	PKP <sub>2</sub>

Dec. 4d. 14h. 2m. 5s. Epicentre 33°·5N. 48°·7E.

A = +·5515, B = +·6278, C = +·5493;  $\delta$  = +2;  $h$  = +1;  
D = +·751, E = -·660; G = +·363, H = +·413, K = -·836.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Baku		7.0	8	e 1 47	+ 1	—	—	—	—
Tiflis		8.8	341	i 2 16	+ 5	i 4 40	-11*	i 2 19	PP
Ashkabad		9.0	58	2 17	+ 4	i 4 7	+ 9	—	—
Makhach-Kala		9.5	355	i 2 26	+ 6	i 4 21	+11	i 3 28	?
Ksara		10.7	275	2 41	+ 3	i 3 30	?	—	5.8
Jerusalem		11.5	265	i 2 49	+ 1	i 5 14	SS	—	—
Quetta		15.9	97	e 3 49	+ 2	e 6 45	+ 1	—	—
Simferopol		16.1	320	e 3 54	+ 5	—	—	—	—
Stalinabad		17.0	67	e 4 1	0	i 7 22	+12	—	—
Tashkent		18.1	58	e 4 14	0	—	—	—	—
Bucharest		20.6	309	e 4 50	+ 7	e 8 38	+ 9	e 5 3	PP
Athens		20.8	290	i 4 45 <sub>a</sub>	0	i 9 6	SS	e 9 27	SSS
Iasi		21.1	317	e 4 49	+ 1	—	—	—	—
Sofia		21.9	302	e 4 58	+ 1	e 9 0	+ 6	—	—
Moscow		23.6	344	5 14	+ 1	—	—	—	—
Belgrade		24.5	306	e 5 22 <sub>k</sub>	0	e 9 54	+14	e 5 51	PP
Lwow		24.5	319	i 5 23	+ 1	i 9 45	+ 5	i 5 52	PP
Sverdlovsk		24.8	16	5 26	+ 1	10 40	SS	6 15	PPP
Dehra Dun		25.1	89	e 5 33	+ 5	e 9 56	+ 5	10 45	SS
Bombay	E.	26.0	118	e 5 37	+ 1	e 10 1	- 5	e 6 20	PP
Taranto		26.0	295	5 5	-31	10 10	+ 4	e 11 10	SS
Poona	z.	27.0	117	e 5 44	- 1	—	—	—	—
Reggio Calabria		27.1	289	e 5 57	+11	e 10 23	- 1	—	—
Messina		27.2	290	e 5 48	+ 1	e 10 31	+ 6	e 6 34	PP
Pulkovo		29.0	341	e 6 2	- 2	e 12 50	SSS	i 6 54	PP
Triest		29.3	305	e 6 11	+ 5	e 11 23	+24	e 7 21	PPP
Rome		29.7	297	e 6 23	+13	e 11 17	+11	e 7 9	PP
Prague		30.1	314	e 6 15	+ 3	e 11 5	- 7	i 7 2	PP
Florence		30.8	301	e 6 20	0	e 11 17	- 6	e 7 5	PP
Collnberg	z.	31.4	315	e 6 24	- 1	—	—	—	—
Jena		32.1	314	e 6 30	- 1	—	—	—	—
Chur		32.4	306	e 6 48	+14	—	—	—	—
Stuttgart		33.0	310	e 6 37	- 2	—	—	—	—
Upsala	z.	33.4	332	i 6 39	- 3	i 7 7	?	i 7 41	PP
Uccle		36.5	312	e 7 11	+ 2	—	—	—	e 27.9
Kiruna		38.1	343	i 7 21	- 1	—	—	i 8 51	PP
Shillong		38.2	90	e 7 21	- 2	e 13 8	- 9	8 48	PP
Lwiro		40.2	212	e 7 47	+ 7	—	—	—	e 24.6
Almeria		41.6	290	—	—	e 13 55	-13	—	22.9
Rathfarnham C.	z.	43.4	314	i 8 4	- 2	—	—	—	—
Scoresby Sund	z.	52.4	336	i 9 14	- 2	—	—	—	—
Pretoria	z.	62.0	201	i 10 44 <sub>a</sub>	+20	—	—	—	—
Pietermaritzburg	z.	65.1	198	i 10 5?	-40	—	—	—	—
Kimberley	z.	65.9	203	i 10 40	-10	—	—	—	—
Resolute Bay		69.5	350	e 11 3	- 9	—	—	—	e 27.0
Grahamstown	z.	69.6	200	i 11 6?	- 7	—	—	—	—
Matusiro		70.7	59	e 11 16	- 4	e 20 33	- 1	e 25 8	SS
College		81.1	7	i 12 17	- 1	—	—	—	e 28.8
Shawinigan Falls		84.5	324	e 12 35	- 1	—	—	—	—
Ottawa		86.8	324	e 12 48 <sub>k</sub>	- 1	—	—	—	—
Hungry Horse		97.1	348	e 13 34	- 1	—	—	—	—
Eureka		106.0	348	e 17 41	?	—	—	—	—
Huancayo		124.8	279	e 19 6	[+ 4]	—	—	—	—

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1955

679

Dec. 4d. 20h. 49m. 41s. Epicentre 38°·6S. 175°·6E. Depth 160km.  
New Zealand Seismo. Obs. Bull. for 1955, E-136, Wellington, 1961, p. 64.

Dec. 5d. 4h. 21m. 28s. and } Epicentre 41°·5N. 43°·9E.  
4h. 24m. 40s. }  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, pp. 23, 24.

Dec. 5d. 13h. 30m. 53s. Epicentre 34°·7N. 132°·6E.  
Intensity V at Kure; IV at Hirosima, Yonago, Hamada, Matsue, Okayama, Tottori, Sakai, Uwazima, and Matsunaga; II-III at Takamatu, Matuyama, Koti, Simonoseki, Saigo, Sumoto, Himeji, Tokusima, Ooita, Nara, and Sukumo.  
Seismo. Bull. Cent. Met. Obs., Japan, for Dec., 1955, Tokyo, 1956, pp. 15-17, with macroseismic chart.

Dec. 5d. 20h. 14m. Epicentre 23°·6N. 122°·5E. Depth 20km.  
Intensity II-III at Hwalien, Hsinking, Ilan, and Taipei.  
Seismo. Bull. of the Taiwan Weather Bureau for Oct.-Dec., 1955, Vol. 2, No. 4, Taiwan, China, p. 14.

Dec. 5d. 20h. 58m. 13s. Epicentre 41°·3N. 44°·1E.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 24.

Dec. 6d. 4h. 31m. 0s. Epicentre 20°·2S. 70°·2W.

A = +·3181, B = -·8837, C = -·3432;  $\delta = -10$ ;  $h = +5$ ;  
D = -·941, E = -·339; G = -·116, H = +·323, K = -·939.

		$\Delta$		Az.		P.		O-C.		S.		O-C.		Supp.		L. m.
		°	'	m.	s.	s.	m.	s.	s.	m.	s.	m.	s.			
Antofagasta	E.	3·4	183	0	52	-	3	1	28	-	9					
La Paz		4·2	28	i 1	17	+	2*	i 1	56	-	1	i 1	28	P		
Copiapo		7·1	181	e 1	41	-	7	3	8	-	2	i 3	21	SS		
Huancayo		9·5	328	i 2	24	+	4	e 4	21	+	11	(i 4	41)	S*	i 4·7	
Santa Lucia	N.	13·2	182	e 3	19	+	8	i 5	41	+	1	i 5	52	SS	i 7·6	
Santiago		13·2	182	e 3	19	+	8	i 5	52		SS					
Concepción	N.	16·6	185	3	50	-	6	6	24	-	36	e 5	45	?	e 9·6	
Buenos Aires		17·7	146	e 4	8	-	2	7	44		SS					
La Plata		18·2	146	4	30		PP	7	30	-	7	4	42	PPP	8·5	
Bogota		25·0	350	i 5	29	+	2	i 9	55	+	6	i 6	0	PP	13·0	
Chinchina		25·6	348	i 5	35	+	3	i 10	1	+	2				12·0	
Galerazamba		31·2	350	i 6	31	+	8	i 11	37	+	8				15·0	
Punta Arenas	N.	32·9	181					e 11	51	-	5				e 15·0	
St. Vincent		34·3	16	e 6	54	+	4									
San Juan		38·6	6	i 7	25 <sub>a</sub>	-	1	e 13	14	-	9	e 9	6	PP	e 16·5	
Comitan		42·2	328	e 8	24	+	28									
Merida		45·1	334	e 8	19	-	1	i 14	52	-	7	i 15	10	PS		
Oaxaca		45·3	323	e 8	24	+	3	15	0	-	2					
Vera Cruz		46·7	325	e 9	2	+	30	15	22		0	e 9	20	?		
Tacubaya		48·6	322	e 8	45	-	2	e 15	50	+	1					
Columbia		54·9	349	i 9	35 <sub>k</sub>		0	i 17	42	+	26					
Chapel Hill		56·5	351	i 9	46		0	e 17	38	+	1					
Dallas		58·6	334	i 9	59	-	2	i 18	3	-	1					
Little Rock	E.	58·6	339	e 10	2	+	1	e 18	1	-	3	e 11	10	?		
Washington	Z.	59·2	354	i 10	0 <sub>a</sub>	-	5								e 32·2	
Chihuahua		59·7	323	e 10	9		0	e 18	22	+	3					
Philadelphia		60·0	356					e 18	17	-	6	i 20	10	ScS	e 25·6	
Morgantown		60·2	351	i 10	13	+	1	i 18	38	+	13					
Fayetteville		60·4	338	i 10	11	-	2	e 18	13	-	15					
Fordham		60·9	357	e 10	17		0	e 18	34		0					
Palisades		61·0	357	i 10	18		0	i 18	34	-	1	i 10	28	pP	e 30·8	
Pittsburgh		61·0	352	i 10	12	-	6	i 19	53		ScS					
Pennsylvania		61·1	353	i 10	19	+	1									
St. Louis		61·5	342	i 10	19	-	2	i 18	38	-	4	e 22	51	SS		
Florissant		61·7	342	e 10	19	-	3	i 18	41	-	3	i 19	3	PS		
Cleveland		62·3	350	i 10	26 <sub>k</sub>		0	i 18	50	-	2	e 20	1	ScS		
Buffalo (Larkin)		63·3	353	i 10	38	+	5									
Tucson		65·1	322	i 10	43 <sub>k</sub>	-	2	e 19	26	-	1	e 13	31	PP	e 27·1	
Ottawa		65·5	356	e 10	48 <sub>k</sub>	+	1	19	32		0	i 13	10	PP		
Shawinigan Falls		66·5	358	i 10	55	+	1					e 12	30	?		

Continued on next page.

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1955

680

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Seven Falls	67.0	0	e 10 57	0	19 51	+ 1	11 21	PcP	—
Boulder	68.3	332	e 11 4	- 1	—	—	—	—	—
Kirkland Lake	z. 68.6	353	e 11 8	+ 1	—	—	—	—	—
Barratt	68.8	319	i 11 6	- 2	i 20 14	+ 3	—	—	—
Palomar	z. 69.4	319	e 11 12	0	i 11 23	?	i 11 54	?	—
Boulder City	70.0	323	e 11 16	+ 1	—	—	e 12 0	?	—
Pasadena	70.8	319	e 11 20	0	i 20 35	0	e 20 50	PS	e 34.4
Isabella	z. 72.0	320	i 11 26	- 2	—	—	e 11 35	PcP	—
Salt Lake City	72.0	328	e 11 27 <sub>a</sub>	- 1	e 20 50	+ 1	e 25 36	SS	e 32.1
Woody	z. 72.2	320	e 11 48	+19	—	—	—	—	—
Tinemaha	72.8	322	e 11 29	- 3	i 21 0	+ 2	—	—	—
Eureka	73.2	325	i 11 33 <sub>a</sub>	- 2	—	—	—	—	—
Fresno	z. 73.5	320	e 11 35	- 1	—	—	—	—	—
Lick	z. 75.0	320	i 11 47	+ 2	—	—	i 11 57	PcP	—
Bozeman	75.3	332	e 11 47 <sub>a</sub>	0	—	—	e 12 50	?	—
Reno	z. 75.4	322	e 11 47	0	—	—	—	—	—
Berkeley	z. 75.7	320	e 11 55	+ 6	e 21 32	+ 2	—	—	—
Butte	N. 76.3	331	e 11 52 <sub>a</sub>	0	i 13 48	?	e 15 30	?	—
Mineral	z. 76.9	322	e 11 55	- 1	—	—	i 12 48	?	—
Shasta	z. 77.6	322	e 12 0	0	—	—	—	—	—
Hungry Horse	78.7	332	e 12 5 <sub>a</sub>	- 1	e 22 6	+ 3	—	—	—
Lisbon	81.9	44	i 12 25 <sub>k</sub>	+ 2	—	—	e 15 32	PP	37.0
Horseshoe Bay	83.8	328	12 26	- 6	—	—	—	—	—
Malaga	84.0	48	i 12 33 <sub>a</sub>	0	i 23 23	ScS	i 15 49	PP	41.4
Grahamstown	z. 84.6	123	i 12 25 <sub>k</sub>	-11	—	—	—	—	—
Kimberley	z. 84.7	118	i 12 26 <sub>a</sub>	-11	—	—	—	—	—
Granada	84.8	47	i 12 40	+ 3	i 23 19	+14	24 19	PPS	i 43.4
Almeria	85.4	48	i 12 41	+ 1	23 6	[+ 3]	16 5	PP	41.0
Toledo	85.8	45	e 12 38	- 4	23 27	+12	e 16 6	PP	40.3
Alicante	87.5	48	12 48	- 3	i 23 29	- 2	16 16	PP	e 41.6
Pretoria	z. 88.6	117	i 12 53	- 3	—	—	—	—	—
Rathfarnham C.	z. 91.6	33	i 13 0	-10	—	—	—	—	—
Kew	93.8	36	e 17 6	PP	e 23 59	[+ 5]	e 25 57	PS	e 38.0
Christchurch	94.4	220	—	—	31 0?	PSS	—	—	e 44.0
Durham	94.7	33	13 19	- 5	24 53	+17	17 22	PP	—
Resolute Bay	96.0	354	e 13 36	+ 6	e 24 36	-11	16 51	?	49.3
Uccle	96.1	38	—	—	e 24 5	[- 2]	e 26 19	PS	e 46.0
Pavia	96.9	44	e 17 30	PP	e 25 55	PS	—	—	—
Lwiro	97.7	95	e 13 39	+ 1	—	—	e 17 32	PP	—
Florence	97.8	46	e 13 41	+ 3	e 24 20	[+ 4]	i 17 35	PP	e 46.0
Rome	98.0	48	e 13 40 <sub>a</sub>	+ 1	i 24 19	[+ 2]	i 17 36	PP	—
Salo	98.0	44	e 13 46	+ 7	e 23 57?	[- 20]	e 17 43	PP	—
Bologna	E. 98.1	46	e 17 40	PP	e 24 43	-21	—	—	—
Stuttgart	98.3	41	e 13 40	- 1	e 24 19	[ 0]	e 26 36	PS	50.0
Messina	99.0	53	e 13 44	0	24 22	[ 0]	e 17 45	PP	47.0
Triest	100.1	45	e 17 47	PP	e 24 34	[+ 7]	29 25	?	—
Jena	100.4	40	e 13 56?	+ 6	—	—	e 17 54	PP	—
Taranto	101.0	51	e 14 19	+26	24 19	[- 13]	e 30 20	?	—
College	103.0	335	e 14 2	0	—	—	—	—	—
Belgrade	104.4	47	e 18 28 <sub>a</sub>	PP	e 24 49	[+ 1]	e 28 21	PPS	e 60.7
Kiruna	108.8	24	—	—	e 28 33	PS	e 29 46	PPS	—
Jerusalem	113.1	63	i 19 21	PP	—	—	e 21 45	PPP	—
Riverview	113.3	217	18 43	[+ 3]	e 35 12	SS	e 29 9	PS	e 52.8
Ksara	114.0	61	i 19 37 <sub>a</sub>	PP	30 30	PPS	e 29 38	?	—
Perth	z. 127.8	186	e 21 7	PP	—	—	e 36 0	?	i 64.8
Quetta	140.2	67	e 19 30	[- 1]	e 40 51	SS	e 22 30	PP	—
Bombay	E. 145.2	86	i 19 39	[- 1]	e 26 23	[- 24]	e 23 13	PP	—
Poona	z. 146.1	87	e 19 52	[+11]	—	—	—	—	—
Dehra Dun	149.7	64	e 19 57	[+10]	—	—	—	—	—
Hyderabad	E. 150.2	90	i 19 52 <sub>a</sub>	[+ 4]	23 19	PKS	33 49	?	67.2
Matusiro	150.3	309	i 19 53 <sub>k</sub>	[+ 5]	30 14	{ - 6}	23 26	PP	e 60.7
Lembang	z. 153.0	175	e 19 49	[- 3]	—	—	—	—	—
Shillong	z. 162.7	69	e 20 4 <sub>k</sub>	[ 0]	—	—	—	—	—
Zò-Sè	165.1	319	20 2	[- 4]	—	—	—	—	—
Nanking	165.7	327	e 20 7	[+ 1]	—	—	—	—	—
Sian	166.0	3	e 20 25	[+18]	—	—	—	—	—
Hong Kong	175.4	298	e 20 44	[+32]	e 47 10?	SS	—	—	e 80.0

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1955

681

Dec. 7d. 15h. 3m. 12s. Epicentre 26°·4N. 142°·7E.

A = -·7134, B = +·5435, C = +·4422;  $\delta$  = -13;  $h$  = +3;  
D = +·606, E = +·795; G = -·352, H = +·268, K = -·897.

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
			m.	s.		m.	s.		m.	s.		
Torisima	4·6	339	e 1	11 <sub>n</sub>	- 1	2	2	- 5	i 1	19	P*	4·8
Hatidyozima	7·1	340	e 1	59	- 5*	i 3	10	0	i 5	12	?	—
Mera	8·8	344	2	11	0	e 3	56	+ 3	e 2	27	P*	e 4·1
Osima	8·8	342	e 2	11 <sub>k</sub>	0	i 4	56	+ 5 <sub>r</sub>	e 3	40	S	e 6·2
Omaesaki	9·0	336	e 2	14	+ 1	i 4	2	+ 4	—	—	—	e 4·9
Ajio	9·2	341	e 2	17	+ 1	4	36	- 1*	3	58	S	—
Siomisaki	9·2	321	e 2	19	+ 3	e 4	4	+ 1	—	—	—	—
Hamamatu	9·3	334	2	25	+ 8	i 4	14	+ 9	—	—	—	—
Misima	9·3	341	2	19 <sub>a</sub>	+ 2	i 4	4	- 1	—	—	—	—
Shizuoka	9·3	338	2	19 <sub>k</sub>	+ 2	4	6	+ 1	e 3	5	?	—
Tyosi	9·4	351	e 2	21	+ 3	e 4	40	- 3*	e 3	58	S	—
Yokohama	9·4	345	e 2	18	0	e 4	8	+ 1	—	—	—	—
Owase	9·5	325	e 2	22	+ 2	e 4	17	+ 7	—	—	—	—
Tokyo	9·6	346	2	22	+ 1	i 4	10	- 2	—	—	—	—
Hunatu	9·7	341	e 2	24	+ 2	e 4	11	- 4	e 4	38	SS	e 6·1
Kohu	9·9	340	e 2	28	+ 3	e 4	16	- 4	e 4	25	SS	e 5·6
Tu	9·9	329	2	30	+ 5	4	18	- 2	—	—	—	—
Kakioka	N. 10·0	348	e 2	26	- 1	e 4	14	- 8	—	—	—	—
Iida	10·0	337	e 2	36	PP	e 4	20	- 2	—	—	—	—
Kameyama	10·0	329	e 2	27	0	4	15	- 7	—	—	—	5·4
Nagoya	10·0	332	2	35	+ 8	4	16	- 6	(8 31)	PcP	—	8·5
Titibu	10·0	343	e 2	28	+ 1	e 4	19	- 3	—	—	—	—
Kumagaya	10·1	345	2	28	- 1	4	16	- 9	—	—	—	—
Muroto	10·1	315	e 2	29	0	e 4	31	+ 6	—	—	—	4·8
Mito	10·1	350	e 2	27	- 2	4	21	- 4	—	—	—	4·8
Nara	10·2	326	e 2	27	- 4	e 4	26	- 1	e 2	37	PP	e 8·8
Wakayama	10·2	322	e 2	34	+ 3	e 4	28	+ 1	—	—	—	e 5·3
Gihu	10·3	332	e 2	31	- 1	e 4	40	+ 10	—	—	—	5·8
Osaka	10·3	325	e 2	40	+ 8	e 4	36	+ 6	i 4	52	SSS	5·4
Hikone	10·4	330	e 2	35	+ 1	4	43	SS	—	—	—	5·4
Maebasi	10·4	344	e 2	33	- 1	e 4	30	- 2	e 2	53	PPP	—
Sumoto	10·4	322	e 2	37	+ 3	e 4	31	- 1	e 4	44	SS	e 5·2
Tokusima	10·4	319	e 2	35	+ 1	i 4	37	+ 5	—	—	—	e 5·5
Utunomiya	10·4	347	e 2	31	- 3	e 4	20	- 12	(4 48)	SS	—	4·8
Ibukisan	10·5	330	e 2	42	+ 7	—	—	—	—	—	—	—
Kobe	10·5	324	e 2	39	+ 4	e 4	33	- 2	e 4	25	S	e 5·1
Kyoto	10·5	327	e 2	32	- 3	e 4	40	+ 5	—	—	—	—
Oiwake	10·5	341	e 2	34	- 1	e 4	26	- 9	—	—	—	—
Matumoto	10·6	339	e 2	39	+ 3	4	42	+ 5	—	—	—	—
Onahama	10·6	352	e 2	31	- 5	i 4	24	- 13	—	—	—	—
Simidu	10·6	309	e 2	38	+ 2	e 4	53	SS	—	—	—	e 5·3
Koti	10·7	314	2	42 <sub>k</sub>	+ 4	e 4	45	+ 6	—	—	—	5·5
Himeji	10·8	320	2	26	- 13	e 4	50	+ 8	—	—	—	—
Matusiro	10·8	340	i 2	36 <sub>a</sub>	- 3	i 4	32	- 10	—	—	—	5·1
Takayama	E. 10·8	336	e 2	33	- 6	e 4	39	- 3	—	—	—	—
Tsuruga	10·8	330	e 2	43	+ 4	4	42	0	—	—	—	e 5·2
Nagano	10·9	341	e 2	46	+ 6	i 4	56	SS	i 3	0	PPP	e 6·7
Shirakawa	10·9	350	e 2	37	- 3	4	32	- 12	—	—	—	—
Takamatu	10·9	319	e 2	39	- 1	e 4	45	+ 1	—	—	—	e 5·2
Hukui	11·1	332	e 2	49	+ 6	e 4	49	0	—	—	—	—
Kanazawa	11·3	334	e 2	54	+ 8	e 5	13	+ 19	—	—	—	—
Miyazaki	11·3	302	2	49 <sub>a</sub>	+ 3	5	8	+ 14	—	—	—	—
Takada	11·3	342	2	48	+ 2	4	54	0	—	—	—	—
Toyama	11·3	337	e 2	47	+ 1	e 4	58	+ 4	—	—	—	—
Inawasiro	11·4	350	2	44	- 3	i 4	45	- 11	—	—	—	—
Matuyama	N. 11·4	313	e 2	49	+ 2	e 4	49	- 7	e 3	20	?	e 5·6
Hokusima	11·5	351	e 2	44	- 4	e 4	48	- 11	—	—	—	6·9
Yakusima	11·5	293	2	51	+ 3	5	11	SS	e 15	46	ScS	—
Tottori	11·6	323	e 3	3	PP	e 5	12	SS	e 4	11	?	—
Kagosima	11·8	299	e 2	56	+ 3	e 5	25	SS	e 15	51	ScS	e 6·3

Continued on next page.

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**1955**

**682**

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Ooita	E.	11.8	308	e 2 52 <sub>a</sub>	- 1	e 4 55	-11	i 3 0	PP	e 5.7
Hirosima		11.9	314	e 2 54 <sub>a</sub>	0	e 5 10	+ 1	e 3 11	PPP	e 5.7
Niigata		11.9	346	e 2 55	+ 1	e 4 59	-10	—	—	i 5.8
Sendai		11.9	353	2 50 <sub>k</sub>	- 4	i 4 58	-11	e 5 30	SS	6.5
Asosan		12.0	305	e 3 2	+ 7	—	—	—	—	—
Wazima		12.0	337	—	—	e 5 4	- 7	e 5 30	SS	—
Yamagata		12.0	351	e 8 50	PcP	—	—	—	—	e 6.7
Isinomaki		12.1	355	2 53	- 4	4 57	-17	—	—	—
Alkawa		12.2	343	—	—	e 5 3	-13	—	—	7.6
Kumamoto		12.2	304	3 1 <sub>a</sub>	+ 3	5 31	+15	5 34	SS	e 5.9
Matsue		12.2	320	e 2 55	- 3	e 5 23	+ 7	—	—	—
Hamada		12.5	315	i 3 7 <sub>k</sub>	+ 5	5 33	+10	e 8 40	PcP	e 6.4
Unzendake		12.5	303	e 3 6	+ 4	e 5 36	+13	—	—	—
Saigo		12.6	323	e 3 10	+ 7	e 5 50	+24	e 6 23	f	e 9.0
Simonoseki		12.6	309	e 3 10 <sub>k</sub>	+ 7	—	—	—	—	—
Saga		12.7	305	i 3 11 <sub>k</sub>	+ 6	e 15 53	S <sub>c</sub> S	e 3 14	PP	—
Sakata		12.7	350	3 11	+ 6	5 22	- 6	—	—	—
Hukuoka		12.8	307	i 3 7 <sub>a</sub>	+ 1	e 5 22	- 8	e 5 43	SS	i 6.6
Mizusawa		12.8	354	3 10	+ 4	5 23	- 7	—	—	—
Miyako		13.2	358	e 3 7	- 4	e 5 29	-11	e 3 26	PPP	e 6.0
Morioka		13.3	355	e 3 10	- 3	e 5 29	-13	—	—	e 6.0
Akita		13.5	351	e 3 12	- 3	5 34	-13	i 5 55	SS	e 6.6
Tomie		13.6	300	i 3 19 <sub>a</sub>	+ 2	e 5 44	- 6	e 6 9	SS	7.3
Hatinohe		14.1	356	e 3 18	- 5	e 5 51	-11	e 6 33	SSS	e 7.1
Aomori		14.5	354	e 3 31	+ 3	6 6	- 5	e 3 53	PPP	—
Hakodate		15.4	354	e 3 39	- 1	e 6 45	+13	—	—	—
Urakawa		15.7	0	e 3 47	+ 3	e 6 45	+ 6	—	—	e 8.7
Mori		15.8	354	e 3 46	+ 1	e 6 33	- 9	e 4 9	PPP	8.1
Muroran		16.0	355	e 3 45	- 3	e 6 33	-13	—	—	—
Tomakomai		16.1	357	e 3 50	+ 1	e 7 3	SS	—	—	—
Obihiro	Z.	16.5	1	e 3 57	+ 3	—	—	—	—	—
Suttsu		16.5	354	e 3 57	+ 3	e 7 3	+ 5	—	—	e 9.4
Kusiro		16.6	4	e 4 1	+ 5	i 6 49	-11	e 7 30	SSS	9.1
Sapporo		16.7	357	e 3 55 <sub>a</sub>	- 2	e 7 11	+ 8	i 4 16	PP	e 10.8
Nemuro		17.1	7	e 4 3	+ 1	e 7 8	- 4	—	—	e 7.9
Asahigawa		17.4	359	e 4 7	+ 1	e 7 28	+ 9	—	—	—
Abashiri		17.6	4	e 4 14	+ 6	e 7 13	-10	e 7 47	SS	—
Vladivostok		18.9	335	i 4 20	- 4	8 13	SS	—	—	—
Ilan		19.0	270	e 4 53	PPP	8 28	SS	—	—	—
Wakkanai	E.	19.0	358	e 4 26	0	e 7 50	- 5	—	—	e 11.0
Taipei		19.1	271	4 27	0	8 13	+16	—	—	—
Hwalien		19.2	267	4 29	+ 1	7 58	- 1	—	—	—
Z6-S6		19.4	289	i 4 29 <sub>a</sub>	- 1	8 11	+ 7	—	—	—
Hsinkong		19.6	265	e 4 32	0	8 27	SS	—	—	—
Taitung		19.9	264	e 4 40	+ 4	8 45	SS	—	—	—
Alishan		20.0	266	4 56	PP	8 48	SS	—	—	—
Taichung		20.0	268	e 4 42	+ 5	8 28	+11	—	—	—
Tawu		20.2	263	4 40	+ 1	8 36	+15	—	—	—
Henchun		20.5	262	e 4 36	- 6	8 37	+10	—	—	—
Yuzno-Sakhlinsk		20.5	0	i 4 45	+ 3	i 8 34	+ 7	—	—	—
Tainan		20.7	265	e 4 51	+ 7	—	—	—	—	—
Nanking		21.6	291	i 4 51	- 3	8 49	0	5 19	PP	—
Changchun		22.4	325	e 4 57	- 5	8 59	- 5	5 26	PP	—
Baguio		22.8	249	i 5 6 <sub>a</sub>	+ 1	i 9 18	+ 7	—	—	—
Manila		23.4	244	i 5 11	0	e 9 21	0	—	—	—
Futzeling		23.6	288	e 5 9	- 4	—	—	—	—	—
Peking		25.9	308	5 31	- 4	e 10 2	- 2	6 10	PP	—
Hong Kong		26.3	267	e 5 38	- 1	e 10 21	+10	e 9 11	PcP	—
Tungkwan		29.0	294	e 6 0	- 4	—	—	—	—	—
Petropavlovsk		29.2	20	e 6 7	+ 2	e 10 59	+ 1	i 12 20	SS	—

Continued on next page.

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1955

683

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Sian		30.1	293	e 6 10	- 3	11 15	+ 3	—	—
Rabaul	z.	31.8	162	i 6 24	- 4	—	—	—	—
Yinchuan		32.8	301	e 6 43	+ 6	—	—	—	—
Wuwei		35.6	299	e 6 59	- 2	—	—	—	—
Irkutsk		38.6	322	7 24 <sub>a</sub>	- 2	—	—	9 2	PP
Shillong		45.4	281	i 8 20 <sub>a</sub>	- 2	i 14 55	- 9	15 13	PS
Unalaska		46.2	40	i 9 33	+65	i 13 11	?	—	—
Bandung		47.4	231	e 8 52	+14	e 15 46	+14	—	—
Lembang		47.4	231	e 8 36	- 2	e 15 30	- 2	—	—
Djakarta		47.5	232	e 8 36	- 2	e 15 30	- 4	—	e 23.8
Bokaro		51.2	280	i 9 2 <sub>a</sub>	- 5	16 23	- 2	10 58	PP
Semipalatinsk		52.8	314	e 9 16	- 3	e 16 39	- 8	—	—
Honolulu		54.0	82	e 9 45	+17	e 17 9	+ 6	e 19 20	ScS
Brisbane		54.5	169	i 9 30	- 2	i 17 6	- 4	—	—
Dehra Dun		56.3	290	e 9 43	- 2	i 17 30	- 4	17 41	PS
New Delhi		57.5	288	e 9 49	- 4	i 17 42	- 8	i 19 32	ScS
College		57.7	28	i 9 55 <sub>k</sub>	0	—	—	i 10 8	?
Hyderabad	E.	59.8	276	i 10 7 <sub>a</sub>	- 2	18 26	+ 6	12 22	PP
Madras	E.	59.8	270	i 10 8	- 1	i 18 29	+ 9	18 46	PPS
Riverview		60.4	172	e 10 16	+ 3	i 18 31	+ 3	i 11 0	PcP
Tashkent		61.1	304	e 10 14	- 4	18 54	PS	e 12 21	PP
Colombo	E.	62.6	264	10 25	- 3	19 5	+ 9	—	—
Kodaikanal	E.	63.4	268	10 36 <sub>a</sub>	+ 2	19 16	+10	12 55	PP
Perth	z.	63.4	205	i 10 35	+ 1	i 19 17	+11	13 0	PP
Poona		63.5	278	i 10 31 <sub>a</sub>	- 3	i 19 2	- 5	12 55	PP
Melbourne	E.	63.9	178	e 10 29	- 8	i 19 12	0	e 23 13	SS
Sverdlovsk		64.1	323	10 35	- 3	19 10	- 4	13 2	PP
Bombay		64.2	279	i 10 37	- 2	i 19 15	- 1	12 56	PP
Quetta		65.6	293	e 10 46 <sub>a</sub>	- 2	e 19 27	- 6	e 39 30	P'P'
Onerahi	E.	68.7	153	e 11 33	PcP	—	—	—	—
Ashkabad		70.1	303	i 11 14	- 2	—	—	11 40	PcP
Karapiro	N.	71.0	153	11 25	+ 3	e 20 38	+ 1	—	—
Tuai	N.	72.4	152	e 11 48	PcP	e 21 24	ScS	e 22 4	?
Resolute Bay		72.6	14	i 11 30 <sub>a</sub>	- 1	e 20 52	- 4	e 13 58	PP
Cobb River	E.	72.7	157	e 11 33	+ 1	e 20 37	-20	—	—
Horseshoe Bay		72.9	43	11 38	+ 5	—	—	—	—
Kaimata	N.E.	73.5	158	e 11 46	+10	—	—	—	—
Wellington		73.6	155	e 11 38	+ 1	i 20 58	- 9	21 48	PPS
Christchurch		74.8	158	—	—	e 21 18?	- 2	e 33 48	PKKS
Moscow		76.5	326	11 51	- 3	e 26 58	SS	e 30 28	SSS
Shasta	z.	76.8	51	e 11 58	+ 3	—	—	—	—
Kiruna		76.9	341	i 11 54	- 2	i 21 40	- 3	i 22 23	PPS
Mineral	z.	77.5	51	e 12 1	+ 2	—	—	—	—
Berkeley		78.0	54	e 12 5	+ 3	i 21 56	+ 1	e 27 9	SS
Pulkovo		78.0	331	i 12 1	- 1	i 22 21	ScS	e 14 58	PP
Goris		78.3	308	i 12 2	- 1	i 21 56	- 3	27 2	SS
Tiflis		78.4	311	i 12 3	- 1	e 22 0	0	i 22 52	PPS
Lick	z.	78.7	54	e 12 6	0	—	—	i 12 16	PcP
Hungry Horse		78.9	41	i 12 8 <sub>a</sub>	+ 1	e 22 3	- 2	39 4	P'P'
Reno	z.	79.1	51	e 12 10	+ 2	—	—	—	—
Helsinki		80.0	333	—	—	e 22 13	- 4	—	—
Fresno	z.	80.2	54	e 12 17	+ 3	—	—	—	—
Butte	N.	80.9	43	e 12 18 <sub>k</sub>	+ 1	i 22 24	- 2	e 27 32	SS
Isabella	z.	81.7	54	e 12 21	- 1	i 13 1	?	e 15 25	PP
Bozeman		82.0	43	e 12 25 <sub>k</sub>	+ 2	i 22 35	- 2	e 28 27	SS
Pasadena		82.6	56	e 12 28	+ 2	i 22 35	- 8	e 15 54	PP
Scoresby Sund		82.8	355	i 12 28	+ 1	i 22 47	+ 2	—	—
Upsala		83.0	335	i 12 26	- 2	e 22 48?	+ 1	i 15 39	PP
Simferopol		83.8	317	i 12 30	- 2	i 22 54	- 1	15 50	PP
Palomar	z.	83.9	56	e 12 33	0	i 12 49	?	i 15 53	PP
Salt Lake City		83.9	47	e 12 36 <sub>a</sub>	+ 3	e 23 0	+ 4	e 28 26	SS
Boulder City		84.2	53	e 12 37 <sub>k</sub>	+ 3	—	—	e 12 48	?
Barratt	z.	84.4	56	e 12 40	+ 4	—	—	—	—
Iasi		86.3	322	e 12 44	- 1	e 23 25	+ 5	—	—
Warsaw		86.6	328	—	—	i 23 25	+ 2	e 24 20	PS

Continued on next page.

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1955

684

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Lwow	86.7	325	i 12	46	- 1	—	—	—	—	—	—
Copenhagen	87.9	334	e 12	53	0	23 20	[ 0]	16 19	PP	43.8	
Ksara	88.3	307	12	56?	+ 1	23 34?	- 5	—	—	—	
Boulder	88.6	45	i 12	58	+ 2	—	—	—	—	—	
Bucharest	88.8	320	—	—	—	e 23 24	[- 1]	e 23 51	S	—	
Tucson	88.9	54	e 13	8	+10	i 23 30	[+ 4]	i 17 41	?	—	
Reykjavik	89.0	353	e 13	8	+10	—	—	—	—	—	
Skalnate Pleso	89.0	326	e 13	16	+18	e 23 28	[+ 1]	e 23 59	S	e 46.8	
Raciborz	89.4	328	e 12	59	- 1	e 23 39	[+10]	e 16 35	PP	—	
Jerusalem	89.9	306	i 12	54	- 8	e 23 49	- 5	—	—	—	
Budapest	90.7	326	e 23	7	?	e 23 37	[ 0]	—	—	47.3	
Collnberg	90.9	331	e 13	5	- 2	e 23 37	[- 1]	e 16 36	PP	e 46.3	
Hurbanovo	90.9	326	e 16	31	PP	e 24 18	+15	—	—	e 49.1	
Prague	91.1	330	i 13	7	- 1	e 23 48	[+ 9]	e 16 44	PP	e 50.3	
Aberdeen	91.6	342	i 15	31	?	i 24 15	+ 6	i 25 26	PS	46.3	
Belgrade	91.7	323	e 13	11 <sub>a</sub>	+ 1	e 23 40	[- 3]	e 25 18	PS	e 51.6	
Jena	91.8	332	e 13	8	- 3	e 23 51	[+ 8]	e 16 42	PP	e 47.8	
Cheb	92.0	331	i 13	18	+ 6	e 24 17	+ 5	e 16 56	PP	—	
De Bilt	93.4	335	—	—	—	e 23 48?	[- 4]	—	—	e 36.8	
Durham	93.5	340	13	4	-15	23 55	[+ 2]	17 9	PP	—	
Athens	94.2	316	—	—	—	e 23 50	[- 7]	—	—	—	
Stuttgart	94.4	331	i 13	22 <sub>a</sub>	- 1	e 23 56	[- 2]	e 25 48	PS	e 47.8	
Karlsruhe	94.6	332	e 13	24 <sub>k</sub>	0	e 24 0	[+ 1]	e 17 11	PP	—	
Triest	94.6	327	e 13	54	+30	e 24 4	[+ 5]	e 18 57	PPP	46.8	
Uccle	94.8	335	e 13	24	- 1	e 24 1	[+ 1]	e 17 11	PP	e 49.8	
Chur	95.7	330	e 13	25	- 4	—	—	e 13 44	?	—	
Zürich	95.7	331	e 13	30	+ 1	e 13 55	?	e 17 20	PP	—	
Kew	95.9	338	i 13	35	+ 5	i 24 4	[- 2]	i 17 22	PP	e 43.8	
Basle	96.0	331	e 13	29	- 1	—	—	—	—	—	
Rathfarnham Castle	96.2	312	i 17	25	PP	i 24 5	[- 3]	i 26 7	PS	e 42.8	
Salo	96.2	328	e 13	47	+16	e 16 47	?	e 25 35	?	—	
Taranto	96.4	321	12	8	?	e 31 13	SS	16 13	?	e 40.2	
Bologna	96.6	327	e 13	59	+26	e 23 51	[-19]	17 54	?	—	
Neuchatel	96.7	331	e 13	33	0	—	—	e 17 28	PP	—	
Pavia	97.1	329	e 17	32 <sub>a</sub>	PP	e 26 38	PS	e 27 44	?	e 50.1	
Florence	97.2	327	e 13	34 <sub>a</sub>	- 2	i 24 8	[- 5]	i 17 36	PP	e 46.8	
Prato	97.2	327	e 13	58	+22	i 24 9	[- 4]	—	—	—	
Fayetteville	97.9	43	i 13	40 <sub>a</sub>	+ 1	e 24 2	[-14]	—	—	—	
Rome	97.9	325	e 13	42	+ 3	i 24 16	[ 0]	i 17 40	PP	47.4	
Florissant	98.4	39	—	—	—	i 24 19	[ 0]	e 25 5	S	—	
St. Louis	98.5	39	—	—	—	i 24 20	[ 0]	e 25 5	S	—	
Messina	98.9	320	e 13	41	- 2	25 14	+ 3	17 45	PP	—	
Reggio Calabria	98.9	320	e 13	51?	+ 8	—	—	—	—	—	
Ottawa	100.4	26	e 18	8	PP	24 29	[ 0]	32 24	SS	—	
Cleveland	101.0	32	—	—	—	e 24 31	[- 1]	e 32 16	SS	—	
Tacubaya	104.6	59	e 14	5	- 4	e 24 44	[- 5]	e 20 28	PPP	—	
Palisades	104.8	28	i 18	32	PP	i 24 48	[- 2]	e 25 58	S	e 48.6	
Fordham	105.0	28	—	—	—	e 28 31	SPP	e 33 31	PKKS	—	
Philadelphia	105.2	29	e 28	32	PPS	e 25 55	- 9	e 33 27	SS	e 44.0	
Washington	z. 105.2	31	e 18	32 <sub>k</sub>	PP	—	—	—	—	—	
Alicante	106.9	330	18	34	[+ 7]	26 14	- 4	18 44	PP	e 50.9	
Toledo	107.1	334	17	55	?	e 28 5	PS	e 25 5	?	56.6	
Almeria	109.0	331	19	0	PP	34 41	PSS	21 47	PPP	60.0	
Granada	109.3	332	e 14	35 <sub>a</sub>	+ 5	29 44	PPS	i 19 2	PP	54.2	
Malaga	110.0	332	i 19	5 <sub>k</sub>	PP	—	—	i 21 19	PPP	e 59.0	
Lwiro	112.4	279	e 19	22	PP	e 29 3	PS	—	—	—	
Pretoria	z. 121.8	255	i 18	57 <sub>a</sub>	[+ 1]	—	—	—	—	—	
Grahamstown	z. 124.9	246	i 19	1 <sub>a</sub>	[- 1]	—	—	—	—	—	
Kimberley	z. 125.5	252	i 19	3	[ 0]	—	—	—	—	—	
San Juan	127.4	35	e 19	8	[+ 1]	—	—	—	—	—	
Galerazamba	127.8	50	i 22	15	?	i 38 41	PSS	i 32 53	PPS	62.8	
Chinchina	131.5	56	i 19	17	[+ 2]	i 28 31	{+ 2}	i 22 42	SKP	61.8	
Bogota	132.9	54	i 19	27	[+ 9]	i 22 54	SKP	—	—	—	
Huancayo	141.5	76	e 19	30	[- 3]	e 23 16	PKS	e 41 8	SS	e 57.4	
La Paz	149.7	77	i 19	52	[+ 5]	i 30 19	{+ 2}	23 16	PKS	77.3	
La Plata	160.4	120	24	18	PP	30 54	{-20}	34 12	SKKS <sub>2</sub>	74.3	

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1955

685

Dec. 7d. 16h. 5m. 12s. Epicentre 36°·5N. 140°·7E. Depth 50km.  
Intensity IV at Mito and Kakioka; II-III at Tsubasan, Utunomiya, Onahama, Tyosi, and Tokyo.  
Seismo. Bull. Cent. Met. Obs., Japan, for Dec., 1955, Tokyo, 1956, p. 21, with macro-seismic chart.

Dec. 8d. 13h. 51m. 37s. Epicentre 41°·3N. 43°·9E.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 24.

Dec. 8d. 14h. 2m. 25s. Epicentre 41°·2N. 43°·8E.  
*Loc. cit.*, 13h., p. 25.

Dec. 8d. 17h. 35m. 58s. Epicentre 3°·6S. 152°·2E. Depth of focus 0·060.

A = -·8829, B = +·4655, C = -·0623;  $\delta = +8$ ;  $h = +7$ ;  
D = +·466, E = +·885; G = +·055, H = -·029, K = -·998.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		<sup>o</sup>	<sup>o</sup>	m. s.	s.	m. s.	s.	m. s.	m.
Rabaul	Z.	0·6	187	i 0 56	+ 4	—	—	—	—
Nouméa		23·1	145	i 4 32 <sub>k</sub>	- 1	e 8 17	+ 4	—	—
Brisbane		23·8	178	i 4 37	- 2	e 10 22	SS	—	—
Riverview		30·1	182	i 5 34 <sub>k</sub>	- 1	i 10 0	- 4	i 6 56	pP
Melbourne	E.	34·7	190	i 6 1	-13	i 10 59	-15	i 7 19	pP e 16·0
Manila		35·9	301	i 6 24	0	i 11 24	- 8	—	—
Apia		36·9	108	e 6 33	0	—	—	e 8 15	pP
Baguio		37·1	303	i 6 34 <sub>a</sub>	0	i 11 48	- 2	—	—
Onerahi	E.	38·0	150	i 6 43	+ 1	—	—	—	—
New Plymouth	E.	40·5	154	e 7 4	+ 2	e 7 31	?	13 24	PS
Cobb River	E.	41·6	156	e 7 11	0	e 13 3	+ 6	—	—
Tuai	N.	41·7	150	i 7 11	- 1	e 12 54	- 4	e 8 43	pP
Matusiro	Z.	42·0	343	i 7 12 <sub>a</sub>	- 2	i 12 7	ScP	8 59	pP
Kaimata	N.E.	42·4	159	7 17	0	e 13 11	+ 3	—	—
Wellington		42·6	155	i 7 18 <sub>k</sub>	- 1	e 13 8	- 3	e 8 45	pP
Christchurch		43·7	158	e 7 29	+ 1	—	—	e 9 55	PP e 19·0
Bandung		44·5	264	—	—	e 13 31	- 7	—	—
Lembang		44·5	264	i 7 32 <sub>a</sub>	- 2	i 13 32	- 6	e 8 56	pP
Hong Kong		45·2	306	i 7 40 <sub>a</sub>	0	e 13 52	+ 4	—	—
Djakarta		45·3	265	e 7 42	+ 2	e 13 48	- 1	—	—
Zô-Sè		45·5	322	i 7 40	- 2	—	—	—	—
Nanking		47·6	321	i 7 58	0	—	—	—	—
Changchun		53·1	336	8 34	- 5	—	—	—	—
Sian		55·5	316	e 8 57	+ 1	—	—	—	—
Tatung		56·3	325	e 9 5	+ 3	—	—	—	—
Yinchuan		59·6	319	e 9 23	- 1	—	—	—	—
Lanchow Univ.		60·0	316	e 9 27	0	—	—	—	—
Wuwei		61·8	317	e 9 39	0	—	—	—	—
Shillong		65·2	300	i 9 59 <sub>a</sub>	- 1	i 18 7	- 3	12 13	PP
Dehra Dun		78·2	302	e 11 18	+ 2	i 20 31	- 5	14 2	PP
Poona		80·2	289	i 11 25	- 2	e 20 55	- 1	e 13 2	pP
College		81·0	22	e 11 25	- 6	—	—	i 13 12	pP
Bombay	E.	81·2	290	i 11 32	0	i 21 3	- 4	—	—
Quetta		87·7	300	i 12 3 <sub>a</sub>	- 1	e 21 46	[- 5]	i 13 45	pP
Berkeley	Z.	88·6	52	e 12 9	+ 1	—	—	—	—
Shasta	Z.	88·8	49	i 12 9	0	—	—	e 13 51	pP
Lick	Z.	89·1	53	e 12 9	- 2	—	—	e 13 53	pP
Mineral	Z.	89·4	50	i 12 12	0	—	—	—	—
Fresno	Z.	90·5	53	e 12 16	- 1	—	—	—	—
Reno	Z.	90·7	51	e 12 18	0	—	—	—	—
Woody	Z.	91·2	54	i 12 21 <sub>k</sub>	+ 1	i 12 29	PcP	i 14 6	pP
Isabella	Z.	91·5	55	i 12 21 <sub>k</sub>	- 1	—	—	i 14 14	pP
Pasadena		91·7	56	i 12 22 <sub>k</sub>	- 1	i 12 26	PcP	e 14 12	pP
Palomar	Z.	92·7	57	i 12 27 <sub>k</sub>	0	—	—	e 14 2	pP
Barratt	Z.	92·8	58	i 12 28 <sub>k</sub>	0	—	—	—	—

Continued on next page.

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1955

686

	$\Delta$ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.	
Eureka	93.6	51	i 12	30	- 1	—	—	—	e 14	12	pP	—
Boulder City	94.5	54	i 12	35	- 1	—	—	—	—	—	—	—
Hungry Horse	95.2	42	i 12	38	- 1	—	—	—	e 14	18	pP	—
Bozeman	97.2	45	e 12	46	- 2	—	—	—	—	—	—	—
Resolute Bay	99.4	14	i 12	55k	- 3	e 30	34	SS	e 21	43	?	—
Ksara	113.8	305	i 18	52	PP	—	—	—	e 21	15	PPP	—
Ottawa	121.0	38	e 18	3k	[- 1]	—	—	—	—	—	—	—
Collmberg	z. 121.5	331	e 18	4	[- 1]	—	—	—	e 19	43	pP'	—
Seven Falls	122.9	34	i 18	7k	[- 1]	—	—	—	—	—	—	—
Lwiro	123.2	265	e 18	9	[+ 1]	—	—	—	—	—	—	—
Huancayo	130.2	109	i 18	26	[+ 4]	i 21	9	SKP	e 20	16	pP'	—
Chinchina	132.3	87	i 18	28	[+ 2]	i 21	57	PKS	i 19	20	?	—
La Paz	z. 135.4	118	—	—	—	21	24	SKP	—	—	—	—
Alicante	137.4	328	18	28	[- 7]	24	42	[- 22]	21	18	PP	e 65.3
San Juan	139.7	66	e 18	39	[ 0]	—	—	—	e 20	38	pPKP	—
Granada	139.9	330	19	7a	[+ 27]	21	34	SKP	e 32	57	PS	—

Dec. 10d. 18h. 41m. 7s. Epicentre 35°-75N. 141°-25E. Depth about 40km.

Intensity V at Tyosi; II-III at Kakioka.

Seismo. Bull. Cent. Met. Obs., Japan, for Dec., 1955, Tokyo, 1956, pp. 22, 23, with macroseismic chart.

Dec. 11d. 5h. 42m. 40s. Epicentre 37°-3N. 71°-3E. Depth 100km.

Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, pp. 56, 57.

Dec. 11d. 8h. 33m. 15s. Epicentre 40°-3N. 142°-7E. Depth 40-60km.

Intensity IV at Hatinohe; II-III at Miyako, Morioka, and Aomori.

Seismo. Bull. Cent. Met. Obs., Japan, for Dec., 1955, Tokyo, 1956, pp. 23, 24, with macroseismic chart.

Dec. 11d. 11h. 13m. 25s. Epicentre 39°-5N. 140°-4E. Depth about 160km.

Intensity II-III at Hatinohe.

Loc. cit., 8h., pp. 24, 25.

Dec. 12d. 5h. 6m. 28s. Epicentre 33°-9N. 135°-4E. Depth about 20km.

Intensity IV at Wakayama, Sumoto, and Nara; II-III at Siomisaki, Owase, Tu, Ueno and Tsuruga.

Loc. cit., 11d. 8h., pp. 25, 26, with macroseismic chart.

Dec. 12d. 8h. 59m. 8s. Epicentre 5°-1N. 125°-6E. Depth of focus 0.020.

A = -0.5799, B = +0.8099, C = +0.0883;  $\delta = +2$ ;  $h = +7$ ;

D = +0.813, E = +0.582; G = -0.051, H = +0.072, K = -0.996.

	$\Delta$ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.	
Manila	10.5	334	i 2	28	+ 1	e 4	32	+ 9	—	—	—	
Baguio	12.3	336	i 2	50	- 1	i 5	12	+ 7	—	—	—	
Hong Kong	20.4	328	e 4	25	- 1	e 8	14	+ 14	—	—	—	
Lembang	21.5	237	e 4	37	0	e 8	35	+ 15	—	—	—	
Bandung	21.6	237	e 4	38	0	—	—	—	—	—	—	
Djakarta	21.9	239	e 4	40	- 1	e 9	9	SS	—	—	—	
Zô-Sè	26.2	351	5	22	0	10	1	+ 21	—	—	—	
Nanking	27.6	347	e 5	40	+ 6	10	29	+ 27	—	—	—	
Sian	32.9	334	—	—	—	e 12	10	+ 44	—	—	—	
Matusiro	33.4	19	i 6	22a	- 3	11	30	- 4	(13 43)	SS	13.7	
Shillong	38.2	306	i 7	6a	0	i 12	54	+ 7	8	46	PP	—
Brisbane	41.8	142	i 7	35	0	i 12	53	ScP	—	—	—	
Riverview	45.6	150	i 8	8a	+ 2	i 14	39	+ 4	e 14	46	SP	—
Nouméa	48.3	126	8	26a	- 1	—	—	—	i 8	45	pP	—
Dehra Dun	51.3	305	e 8	50	0	—	—	—	—	—	—	

Continued on next page.

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1955

687

		$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Poona	z.	52.2	289	e 8 57	+ 1	—	—	—	—
Quetta	z.	60.5	302	i 9 57 <sub>k</sub>	+ 2	—	—	—	—
Unalaska		72.9	35	e 14 4	PP	—	—	—	—
Honolulu		75.4	69	e 11 30	+ 2	—	—	—	—
College		84.0	25	i 12 12	- 1	—	—	i 12 33	?
Kiruna	z.	91.0	338	i 12 47	0	—	—	—	—
Upsala	z.	94.6	331	e 13 2	- 2	—	—	—	—
Resolute Bay		96.7	10	i 13 13 <sub>k</sub>	0	—	—	e 17 2	PP
Triest		101.4	318	e 13 26	- 8	e 23 57	[ 0]	e 25 4	S
Shasta	z.	103.1	46	e 13 43	+ 1	—	—	—	—
Mineral	z.	103.7	46	e 13 29	-15	—	—	e 13 47	P
Lick	z.	104.7	50	e 13 50	+ 1	—	—	—	—
Hungry Horse		105.6	37	e 13 55	P	—	—	—	—
Woody	z.	107.3	50	e 14 2	P	e 18 11	PKP	e 18 38	PP
Isabella	z.	107.6	50	e 18 12	PKP	—	—	—	—
Eureka		108.1	46	e 18 13	PKP	—	—	—	—
Mount Wilson	z.	108.4	52	e 14 14	P	—	—	e 18 14	PKP
Pasadena		108.4	52	i 18 15	PKP	—	—	—	—
Bozeman		108.7	38	e 18 15	PKP	—	—	—	—
Riverside	z.	109.0	52	e 18 15	[+ 5]	—	—	—	—
Rathfarnham C.	z.	109.2	332	e 18 37	PP	—	—	—	—
Palomar	z.	109.7	52	e 18 16	[+ 4]	—	—	—	—
Barratt	z.	110.0	53	e 19 23	?	—	—	—	—
Boulder City		110.3	49	e 18 48	PP	—	—	—	—
Salt Lake City		110.4	43	e 18 27	[+14]	—	—	—	—
Tucson		114.8	51	e 18 27	[+ 6]	—	—	e 29 10	PKKP
Fayetteville		124.6	39	i 18 43	[+ 3]	—	—	e 20 25	PP
Dallas		124.8	44	i 18 45	[+ 4]	—	—	—	—
Seven Falls		126.0	14	i 18 45 <sub>a</sub>	[+ 2]	—	—	—	—
Ottawa		126.2	19	e 18 46 <sub>a</sub>	[+ 3]	—	—	19 13	pP'
Morgantown		129.6	26	i 18 55	[+ 5]	i 22 8	SKP	—	—
San Juan		154.0	26	i 19 57	PKP <sub>2</sub>	—	—	—	—
Huancayo		158.1	110	i 19 47	[+10]	—	—	i 20 21	PKP <sub>2</sub>
La Paz	n.	162.4	131	19 54	[+12]	—	—	—	—

Dec. 12d. 9h. 29m. 1s. Epicentre 36°·6N. 140°·9E. Depth about 80km.  
Intensity V at Tsubasan, Mito, and Fusa; IV at Kakioka, Shirakawa, Utunomiya, Wakamatu, Tyosi, Kumagaya, Tokyo, and Titibu; II-III at Onahama, Inawasiro, Hukusima, Maebasi, Hunatu, Ajiro, and Kobu.  
Seismo. Bull. Cent. Met. Obs., Japan, for Dec., 1955, Tokyo, 1956, pp. 27-29, with macroseismic chart.

Dec. 13d. 8h. 26m. 29s. Epicentre 32°·5S. 179°·25W. Depth 350km. Magnitude 6.3.  
New Zealand Seismo. Report Bull. for 1955, E-136, Wellington, 1961, p. 66.

Dec. 13d. 14h. 36m. 3s. Epicentre 40°·3N. 45°·9E.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 25.

Dec. 14d. 10h. 51m. 45s. Epicentre 21°·6N. 92°·7E.

$$A = -.0438, B = +.9296, C = +.3660; \quad \delta = +3; \quad h = +4;$$

$$D = +.999, E = +.047; \quad G = -.017, H = +.366, K = -.931.$$

		$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Shillong		4.0	349	i 1 2	- 2	—	—	e 1 48	S
Bokaro		6.8	290	i 1 39 <sub>a</sub>	- 5	3 13	+10	1 47	P
Hyderabad	E.	14.1	255	i 3 20 <sub>a</sub>	- 3	i 6 22	SS	3 40	PP
Madras	E.	14.7	236	i 3 30	- 1	i 6 13	- 3	3 42	PP
New Delhi	N.	15.7	299	e 3 35	- 9	6 35	- 4	6 50	SS

Continued on next page.

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1955

688

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.		
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.		
Dehra Dun		15.8	306	e 3	45	0	6	43	+ 1	4	4	PP	7.0	
Sining		16.9	26	e 3	59	0	7	13	+ 6	—	—	—	—	
Lanchow Univ.		17.4	32	e 4	4	- 2	—	—	—	—	—	—	—	
Poona		18.0	264	i 4	10 <sup>a</sup>	- 3	i 7	25	- 7	4	24	PP	8.2	
Wuwei		18.4	26	e 4	16	- 2	—	—	—	—	—	—	—	
Kodaikanal	E.	18.5	235	e 4	29 <sup>a</sup>	+10	i 8	2	+18	4	44	PP	9.0	
Bombay		18.9	265	e 4	22	- 2	e 7	51	- 2	4	37	PP	8.8	
Sian		19.0	45	e 4	28	+ 2	—	—	—	—	—	—	—	
Colombo	E.	19.2	222	i 4	25	- 3	7	45	-14	—	—	—	10.2	
Hong Kong		19.9	84	4	37	+ 1	e 8	18?	+ 3	—	—	—	—	
Tungkwan		20.2	46	e 4	40	+ 1	—	—	—	—	—	—	—	
Yinchuan		20.5	32	e 4	42	0	—	—	—	—	—	—	—	
Taiyuan		23.6	42	e 5	13	0	—	—	—	—	—	—	—	
Paotow		24.0	34	e 5	16	- 1	—	—	—	—	—	—	—	
Quetta		24.7	296	i 5	23 <sup>a</sup>	- 1	i 9	48	+ 4	5	33	pP	—	
Nanking		25.4	60	5	29	- 2	9	58	+ 2	1	6	8	PP	—
Tatung		25.4	39	e 5	33	+ 2	—	—	—	—	—	—	—	
Hengchun		26.0	84	e 5	41	+ 5	—	—	—	—	—	—	—	
Frunse		26.1	329	i 5	37	0	i 10	17	+10	1	8	43	?	—
Hsinchu		26.1	78	e 5	36	- 1	—	—	—	—	—	—	—	
Tawu		26.1	83	e 5	41	+ 4	—	—	—	—	—	—	—	
Hsinkong		26.5	81	e 5	43	+ 2	—	—	—	—	—	—	—	
Stalinabad		26.6	315	i 5	45	+ 3	i 10	22	+ 6	1	6	33	PP	—
Taipei		26.6	77	e 5	43	+ 1	10	22	+ 6	—	—	—	—	
Hwalien		26.7	79	5	51	+ 8	10	15	- 2	—	—	—	—	
Baguio		26.8	96	i 5	46	+ 2	—	—	—	—	—	—	—	
Kwanting		26.9	41	e 6	0	+15	—	—	—	—	—	—	—	
Peking		27.1	42	5	47	+ 1	i 10	22	- 2	1	6	7	?	—
Zô-Sè		27.1	64	5	46	0	10	26	+ 2	i 11	2	?	—	
Manila		27.7	100	i 5	53	+ 1	—	—	—	—	—	—	—	
Tashkent		27.9	320	e 5	52	- 2	e 10	32	- 5	1	11	54	SS	—
Semipalatinsk		30.4	344	i 6	14	- 2	i 11	11	- 5	—	—	—	—	
Djakarta		30.9	152	e 7	42	PPP	e 13	9	SS	—	—	—	—	
Lembang		31.8	151	e 6	21	- 7	e 12	33	+55	—	—	—	—	
Irkutsk		31.9	14	6	29 <sup>k</sup>	0	11	36	- 4	6	38	pP	—	
Ashkabad		33.8	307	6	47	+ 1	i 12	8	- 2	8	1	PP	—	
Tomie		33.8	63	e 6	44	- 2	e 12	1	- 9	e 8	46	?	e 18.9	
Changchun		34.9	43	e 6	54	- 1	e 12	18	- 9	—	—	—	—	
Kagosima		35.1	66	e 6	56	- 1	e 12	27	- 3	e 10	28	?	e 19.5	
Saga	N.	35.1	63	7	3	+ 6	—	—	—	—	—	—	e 21.6	
Hukuoka		35.3	62	—	—	—	e 15	31	SSS	—	—	—	e 19.4	
Kumamoto		35.4	63	e 6	56	- 4	—	—	—	—	—	—	22.1	
Miyazaki		35.9	65	7	5	+ 1	—	—	—	e 20	1	?	23.3	
Ooita	E.	36.2	63	e 7	34	+28	—	—	—	e 9	47	PcP	e 20.1	
Hamada		36.9	60	—	—	—	e 12	53	- 5	e 17	22	ScS	e 20.3	
Koti	N.	37.8	63	e 7	30	+10	e 13	3	- 8	(e 16	8)	SSS	e 16.1	
Vladivostok		39.0	47	i 7	28	- 2	i 13	23	- 6	7	40	pP	—	
Sumoto		39.1	62	7	30	- 1	e 13	40	+ 9	—	—	—	e 20.0	
Kobe		39.4	61	e 7	35	+ 2	e 13	30	- 5	—	—	—	—	
Osaka		39.6	61	e 8	9	+34	—	—	—	—	—	—	—	
Kyoto		39.9	61	e 7	36	- 1	e 13	38	- 5	—	—	—	—	
Hikone		40.3	61	7	41	+ 1	13	44	- 5	—	—	—	—	
Kameyama		40.4	61	e 7	37	- 4	e 13	44	- 6	—	—	—	—	
Gihu		40.8	60	e 7	49	+ 4	—	—	—	—	—	—	—	
Nagoya	E.	40.9	61	e 7	39	- 7	e 13	54	- 4	—	—	—	—	
Toyama		41.3	59	e 8	5	+16	—	—	—	—	—	—	e 23.8	
Matumoto	N.	41.8	59	7	55	+ 2	—	—	—	—	—	—	—	
Omaesaki		41.8	62	e 9	1	?	e 14	37	+26	—	—	—	e 25.2	
Matusiro		42.1	59	i 7	54	- 1	14	10	- 6	—	—	—	17.4	
Nagano	N.	42.1	59	e 7	59	+ 4	e 14	14	- 2	e 8	45	?	e 24.6	

Continued on next page.

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

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1955		689										
		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	in.
Kohu	N.	42.2	60	e 7	53	- 3	—	—	—	—	—	—
Sverdlovsk		42.4	334	i 7	56	- 2	14	13	- 7	9	32	PP
Maebasi		42.7	59	e 8	20	+20	e 14	33	+ 9	e 10	0	PPP
Goris		43.2	305	i 8	12	+ 8	i 14	32	0	10	0	PP
Mera	N.	43.2	62	—	—	—	e 13	44	PcS	—	—	—
Tokyo		43.2	60	e 8	42	+38	14	36	+ 4	—	—	23.7
Torisima		43.4	68	e 8	5	- 1	—	—	—	—	—	—
Utunomiya		43.4	59	e 8	2	- 4	—	—	—	—	—	—
Inawasiro		43.7	58	e 8	19	+11	e 14	33	- 6	—	—	—
Shirakawa		43.7	58	e 8	4	- 4	—	—	—	—	—	—
Akita		44.0	55	—	—	—	e 14	40	- 3	—	—	e 27.6
Hukusima		44.0	58	e 8	11	0	—	—	—	e 10	3	PP
Onahama		44.3	59	—	—	—	e 14	33	-15	—	—	—
Sendai		44.4	57	e 8	24	+10	e 14	31	-18	—	—	—
Aomori		44.7	53	e 8	23	+ 7	—	—	—	—	—	—
Mizusawa		44.7	56	e 8	20	+ 4	14	48	- 6	—	—	—
Mori	N.	44.8	52	—	—	—	14	52	- 3	—	—	—
Morioka		44.8	55	e 8	20	+ 3	e 14	46	- 9	e 9	19	?
Wakkanai	E.	46.4	47	—	—	—	e 15	9	- 9	—	—	—
Obihiro	N.	46.9	51	—	—	—	e 15	24	- 1	—	—	—
Yuzno-Sakhlinsk		47.4	45	e 8	39	+ 1	i 15	27	- 5	—	—	—
Kusiro		47.8	51	—	—	—	e 15	35	- 3	—	—	—
Ksara		51.2	297	9	15	+ 8	16	32	+ 7	—	—	—
Jerusalem		51.9	294	i 9	12 <sub>a</sub>	0	—	—	—	i 9	22	?
Moscow		52.9	324	e 9	18	- 2	16	42	- 6	16	57	PS
Yalta		52.9	310	e 9	19	- 1	—	—	—	i 9	29	sP
Magadan		55.6	32	e 9	38	- 2	e 17	18	- 7	—	—	—
Istanbul		56.5	306	e 9	55	+ 9	e 17	47	+10	—	—	—
Iasi		57.7	313	e 10	3	+ 8	e 18	5	+12	e 10	19	pP
Pulkovo		57.7	328	i 9	52	- 3	e 17	46	- 7	e 11	55	PP
Petropavlovsk		58.6	40	13	29	PPP	—	—	—	—	—	—
Bucharest		58.7	310	e 10	21	+19	i 18	24	PS	e 20	17	?
Tananarive		59.8	231	10	10	+ 1	—	—	—	—	—	—
Lwow		60.2	316	e 10	10	- 2	i 18	17	- 8	i 18	47	PPS
Helsinki		60.5	328	e 10	16	+ 2	e 18	20	- 9	—	—	e 29.2
Athens		60.8	302	i 10	24 <sub>a</sub>	+ 8	e 18	34	+ 1	i 20	9	ScS
Sofia		60.8	308	e 10	28	+12	e 18	35	+ 2	—	—	—
Warsaw		62.1	319	e 10	24	- 1	e 18	44	- 5	e 19	2	PS
Skalnate Pleso		62.6	315	i 10	40	+12	i 19	10	PS	e 20	18	ScS
Belgrade		62.7	310	e 10	38 <sub>k</sub>	+ 9	e 19	10	PS	e 13	0	PP
Budapest		63.5	313	e 10	42	+ 8	19	4	- 3	19	18	PS
Kiruna		63.5	336	i 10	32	- 2	e 19	2	- 5	e 19	19	PS
Raciborz		63.9	316	e 10	44	+ 7	e 13	3	PP	e 11	12	PcP
Upsala		64.1	327	i 10	36	- 2	19	3	-11	i 12	57	PP
Taranto		65.5	306	10	40	- 7	19	25	- 7	e 24	15	?
Prague		66.3	316	i 11	0	+ 8	i 19	37	- 5	i 13	29	PP
Lwiro		66.8	258	e 10	56 <sub>k</sub>	0	—	—	—	i 11	7	?
Collnberg		67.1	318	e 10	56	- 1	—	—	—	e 13	32	PP
Messina		67.2	304	e 10	58 <sub>k</sub>	0	i 19	49	- 3	24	12	SS
Triest		67.3	312	e 11	7	+ 8	e 19	50	- 4	i 20	4	SP
Cheb	N.	67.6	317	e 11	13	+12	i 11	53	?	e 15	15	PPP
Jena		68.0	318	e 11	2	- 1	e 19	51	-11	e 13	40	PP
Hamburg	Z.	68.7	321	i 11	18 <sub>a</sub>	+11	—	—	—	—	—	—
Rome		68.8	308	e 10	39	-29	e 22	28?	?	e 16	30	?
Florence		69.4	310	e 11	7	- 5	e 19	50	-28	e 13	39	PP
Prato		69.5	310	e 11	5	- 7	—	—	—	—	—	—
Stuttgart		69.9	316	e 11	13	- 2	—	—	—	e 12	5	?
Bergen	N.	70.2	328	e 23	48	?	—	—	—	—	—	e 29.1
Karlsruhe	Z.	70.4	316	e 11	27 <sub>a</sub>	+ 9	e 11	47	PcP	e 14	5	PP
Zürich		70.5	314	e 11	31	+13	—	—	—	—	—	—

Continued on next page.

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1955

690

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Witteveen	z.	70.8	320	e 11 30	+10	—	—	—	—
Basle		71.2	314	e 11 34	+11	—	—	—	—
Uccle		72.6	318	e 11 40	+9	—	—	e 11 58	PcP
Brisbane		76.0	127	i 11 52	+1	i 21 35	+1	—	—
Scoresby Sund	z.	77.6	342	e 12 9	+9	—	—	—	—
Rathfarnham Castle		78.2	323	i 11 48	-15	i 23 33	?	e 28 6	?
Pretoria	z.	78.3	236	e 12 4	+1	—	—	—	—
Riverview		78.3	134	i 12 6k	+3	e 22 5	+6	i 22 19	SKS
Pietermaritzburg	z.	78.7	232	i 12 8	+2	—	—	—	e 38.4
Alicante		79.3	307	e 12 5	-4	22 5	-4	15 7	PP
Almeria		81.3	306	i 12 23	+3	22 40	+10	—	—
Granada		82.0	307	i 12 12k	-11	e 22 48	+11	—	—
College		82.2	22	i 12 22	-2	e 22 37	-2	i 12 46	pP
Kimberley	z.	82.4	235	i 12 26k	+1	—	—	—	e 43.8
Resolute Bay		83.8	2	i 12 32a	0	e 23 51	PS	e 15 40	PP
Nouméa		84.1	117	e 12 35	+1	e 22 58	0	—	—
Hungry Horse		106.4	18	e 14 17	0	i 18 41	PP	e 30 6	PKKP
Butte	N.	108.9	18	e 18 2	?	e 18 45	?	i 19 0	PP
Bozeman		109.6	18	e 17 43	?	—	—	—	—
Shasta	z.	109.9	28	e 15 7	P	e 18 10	?	e 19 9	PP
Seven Falls		110.0	348	e 18 58	[+25]	—	—	19 47	?
Mineral	z.	110.6	27	e 18 48	[+14]	—	—	e 15 2	P
Shawinigan Falls		110.9	349	e 19 14	PP	—	—	e 20 45	?
Reno	z.	112.0	27	e 18 57	[+20]	—	—	—	—
Lick	z.	113.0	29	e 18 58	[+19]	—	—	e 19 44	PP
Eureka		113.6	24	e 18 9	[-31]	—	—	e 29 37	PKKP
Salt Lake City		113.9	20	e 19 36	PP	—	—	—	—
Fresno	z.	114.3	28	e 19 15	?	—	—	e 19 43	PP
Tinemaha	z.	114.8	27	e 19 54	PP	—	—	—	—
Woody	z.	115.6	28	e 19 0	[+16]	—	—	—	—
Isabella	z.	115.8	28	e 19 0	[+15]	e 20 59	?	e 19 56	PP
Palisades		116.5	349	—	—	e 35 40	SS	e 50 30	Q
Boulder City		117.1	25	e 18 39	[-8]	e 20 8	PP	e 19 12	pP'
Mount Wilson	z.	117.2	28	—	—	e 29 27	PS	—	—
Pasadena		117.2	29	e 18 59	[+12]	—	—	e 20 0	PP
Riverside	z.	117.7	28	e 19 2	[+14]	—	—	e 19 33	?
Palomar	z.	118.5	28	e 19 4	[+14]	—	—	e 20 15	PP
Barratt	z.	119.2	28	e 19 5	[+14]	—	—	e 20 25	PP
Tucson		121.9	24	e 18 58	[+2]	—	—	—	e 65.4
Fayetteville		122.2	7	i 19 9a	[+12]	e 21 51	?	e 20 27	PP
San Juan		135.2	331	e 22 33	PP	—	—	—	—
Bogota		150.9	332	e 19 58	[+9]	—	—	i 20 8	PKP <sub>2</sub>
La Paz		161.2	282	e 20 19	[+17]	21 7	PKP <sub>2</sub>	24 39	PP
Huancayo		165.2	308	e 20 23	[+17]	—	—	i 21 23	PKP <sub>2</sub>

Dec. 15d. 3h. 40m. 21s. Epicentre 40°-3N. 45°-5E.

Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 25.

Dec. 15d. 8h. 34m. 29s. Epicentre 36°-1N. 139°-9E. Depth about 50km.

Intensity V at Tukubasan; IV at Kakioka, Utunomiya, Kumagaya, and Titibu; II-III at Tokyo, Mito, Maebasi, Yokohama, Shirakawa, and Onahama.

Seismo. Bull. Cent. Met. Obs., Japan, for Dec., 1955, Tokyo, 1956, pp. 29, 30, with macroseismic chart.

Dec. 16d. 9h. 14m. 38s. Epicentre 39°-4N. 141°-6E. Depth about 100km.

Intensity IV at Miyako; II-III at Morioka and Hatinohe.

Loc. cit., 15d. 8h., pp. 30, 31.

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1955

691

Dec. 17d. 6h. 7m. 26s. Epicentre 32°·7N. 115°·5W.

A = -·3630, B = -·7610, C = +·5377;  $\delta = +1$ ;  $h = +1$ ;  
D = -·903, E = +·431; G = -·231, H = -·485, K = -·843.

		$\Delta$	Az.	P.	O - C.	S.	O - C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Barratt		1·0	269	i 0 21 <sub>a</sub>	0	i 0 35	- 1	—	—
Palomar	z.	1·3	300	i 0 24 <sub>a</sub>	- 1	—	—	—	—
San Diego		1·4	270	0 31	+ 3 <sub>g</sub>	0 53	+ 7	—	—
Riverside		2·0	310	i 0 34 <sub>a</sub>	- 1	i 0 58	- 4	—	—
Dalton	z.	2·4	308	i 0 40 <sub>a</sub>	- 1	—	—	—	—
Pasadena		2·6	304	i 0 43 <sub>a</sub>	- 1	i 1 22	+ 1*	—	—
Boulder City		3·3	10	i 0 52	- 1	—	—	i 1 1	P*
Isabella	z.	3·8	321	i 1 0	- 1	—	—	—	—
Tucson		4·0	95	i 1 3	- 1	e 1 53	+ 1	i 1 27	P <sub>g</sub>
Woody	z.	4·1	318	i 1 2	- 3	—	—	—	e 2·6
Tinemaha	z.	4·9	334	e 1 18	+ 1	—	—	—	—
Fresno	z.	5·4	320	e 1 20	- 4	—	—	—	—
Eureka		6·8	357	i 1 41	- 3	—	—	—	—
Lick	z.	6·8	314	i 1 44	0	—	—	i 1 52	PP
Santa Clara		7·0	313	e 2 17 <sub>k</sub>	- 3 <sub>g</sub>	i 3 48	- 3 <sub>g</sub>	—	—
Berkeley	z.	7·5	315	e 1 56	+ 3	—	—	—	—
Reno	z.	7·6	334	e 2 0	+ 5	—	—	—	—
Salt Lake City		8·6	19	i 2 6	- 3	—	—	i 2 57	P <sub>g</sub>
Chihuahua		9·1	114	e 2 31	+17	i 3 50	-10	i 4 13	SS <sub>g</sub>
Mineral	z.	9·1	329	e 2 22	PP	—	—	—	—
Shasta	z.	9·7	327	e 2 28	+ 6	—	—	—	—
Boulder		11·0	46	i 2 42	0	—	—	—	—
Corvallis	z.	13·3	335	—	—	e 5 27	-15	—	—
Bozeman		13·4	14	e 3 16	+ 2	e 6 8	SS	i 3 44	? e 6·9
Butte	N.	13·5	9	e 3 17	+ 2	e 6 35	+48	e 4 13	? e 7·2
Rapid City	E.	14·9	37	e 3 23	-11	e 6 30	+10	—	— e 7·2
Hungry Horse		15·7	4	i 3 44	0	—	—	—	— e 7·2
Dallas		15·8	84	i 3 46	+ 1	—	—	—	— e 8·2
Seattle		15·8	343	i 3 52	+ 7	e 7 29	+47	i 3 59	PP i 8·7
Guadalajara		16·2	135	—	—	7 16	SS	e 7 44	SSS e 9·5
Manzanillo		16·9	141	4 0	+ 1	—	—	—	—
Victoria		16·9	342	4 3	+ 4	9 14	L	—	— (9·2)
Fayetteville		17·9	73	i 4 13 <sub>k</sub>	+ 1	—	—	e 4 29	PP e 9·5
Tacubaya		19·7	128	i 4 42	+ 8	e 8 19	+ 9	e 4 51	PP e 10·9
Puebla		20·7	127	—	—	e 12 34	PcS	—	—
Vera Cruz		22·0	123	—	—	e 8 54	- 2	e 9 4	S
Oaxaca		23·0	128	—	—	e 10 17	SSS	—	— 13·3
Terre Haute		23·6	65	i 9 4	S	(i 9 4)	-21	—	— i 12·8
Chicago		23·9	60	i 5 15	- 1	—	—	—	— e 12·1
Merida		25·8	110	e 5 11	-23	—	—	e 8 34	? —
Comitan		26·8	122	e 7 46	?	—	—	—	— e 16·0
Sitka		27·9	337	—	—	e 10 44	+ 7	—	— e 12·9
Cleveland		28·4	62	e 6 8	+10	—	—	—	— e 14·8
Morgantown		29·4	66	i 6 6	- 1	i 15 16	L	—	— (i 15·3)
Ottawa		33·1	56	i 6 40 <sub>a</sub>	0	17 14	ScS	—	—
Seven Falls		36·7	54	e 7 10 <sub>a</sub>	0	—	—	—	— 19·5
College		37·8	338	i 7 20	0	—	—	—	—
Resolute Bay		43·3	8	i 8 4 <sub>a</sub>	- 1	—	—	—	— e 22·5
San Juan		46·4	95	i 8 31	+ 1	—	—	—	—
Huancayo		58·8	132	e 10 5	+ 3	—	—	—	—
Scoresby Sund	z.	60·7	23	e 10 14	- 1	—	—	—	—
La Paz	N.	66·7	130	e 10 50	- 5	—	—	—	—
Jena	z.	84·6	30	e 12 37?	+ 1	—	—	e 12 47	PcP
Stuttgart		85·1	33	e 12 40	+ 1	—	—	—	—
Triest		89·5	33	e 13 3	+ 3	e 23 53	+ 3	e 16 32	PP
Kimberley	z.	145·8	94	i 19 44 <sub>a</sub>	[+ 3]	—	—	—	—

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1955

692

Dec. 17d. 14h. 11m. 28s. Epicentre 37°·6N. 141°·4E. Depth 60km.  
Intensity IV at Hukusima and Utunomiya; II-III at Sendai, Onahama, Shirakawa, Wakamatu, Tukubasan, Mito, Kakioka, Mizusawa, and Miyako.  
Seismo. Bull. Cent. Met. Obs., Japan, for Dec., 1955, Tokyo, 1956, pp. 31, 32, with macroseismic chart.

Dec. 18d. 4h. 2m. 1s. Epicentre 35°·7N. 142°·2E. Depth about 40km. Unfelt.  
*Loc. cit.*, 17d. 14h., pp. 32, 33.

Dec. 18d. 5h. 33m. 11s. Epicentre 36°·2N. 139°·9E. Depth of focus 0·005.  
(as on 1955, March 19d.).

Intensity VI at Tukubasan, Utunomiya, Mito, and Tateno; V at Kashiwa, Kakioka, Titibu, and Onahama; IV at Kumagaya, Tokyo, Maebasi, Yokohama, Tyosi, Shirakawa, Hunatu, Ajiro, Hukusima, Osima, and Inawasiro; II-III at Kohu, Misima, Mera, and Shizuoka.  
Epicentre 36°·2N. 139°·8E. Depth about 50km.  
Seismo. Bull. Cent. Met. Obs., Japan, for Dec., 1955, Tokyo, 1956, pp. 33-35, with macroseismic chart, p. 33.

$$A = -.6187, B = +.5210, C = +.5880; \quad \delta = -3; \quad h = 0;$$

$$D = +.644, E = +.765; \quad G = -.450, H = +.379, K = -.809.$$

		$\Delta$	Az.	P.		O-C.		S.		O-C.		Supp.		L. m.
				m.	s.	s.	m.	s.	m.	s.	m.	s.		
Kakioka	Z.	0·2	91	0	9	-	2	0	15	-	4	—	—	—
Utunomiya		0·3	351	i	0 11a	-	1	i	0 17	-	3	—	—	—
Kumagaya		0·5	260	i	0 11k	-	2	i	0 19	-	4	—	—	—
Mito		0·5	109	i	0 13a	-	0	0	21	-	2	—	—	—
Tokyo	N.	0·6	195	0	13a	-	1	0	23	-	2	—	—	—
Maebasi		0·7	256	i	0 14	-	1	0	24	-	3	—	—	—
Titibu		0·7	250	i	0 14	-	1	i	0 23	-	4	—	—	—
Yokohama		0·8	196	i	0 17a	-	0	i	0 28	-	1	—	—	—
Shirakawa		0·9	14	0	18a	-	0	i	0 31	-	0	—	—	—
Tyosi	E.	0·9	124	i	0 18a	-	0	i	0 31	-	0	—	—	—
Oiwake		1·1	265	e	0 19	-	1	e	0 33	-	3	—	—	—
Onahama		1·1	47	i	0 20k	-	0	i	0 34	-	2	—	—	—
Hunatu		1·2	233	e	0 20k	-	2	0	36	-	2	—	—	—
Inawasiro		1·3	6	i	0 24k	+	1	i	0 40	-	0	i	0 29	?
Kohu		1·3	242	i	0 20k	-	3	i	0 36	-	4	—	—	—
Mera		1·3	184	i	0 24	+	1	0	37	-	3	—	—	—
Ajiro		1·4	210	0	23	-	1	0	40	-	3	—	—	—
Matusiro		1·4	283	i	0 21	-	3	0	39	-	4	—	—	—
Misima		1·4	216	0	22	-	2	i	0 39	-	4	i	0 32	?
Nagano	E.	1·5	288	i	0 24k	-	2	i	0 43	-	2	—	—	—
Osima		1·5	197	0	27	+	1	i	0 43	-	2	—	—	—
Hukusima		1·6	16	0	27k	-	0	i	0 48	+	1	—	—	—
Matumoto		1·6	269	0	25	-	2	0	45	-	2	—	—	—
Takada		1·6	303	0	27	-	0	0	47	-	0	—	—	—
Iida		1·8	248	i	0 31	+	1	i	0 53	+	1	—	—	—
Niigata		1·8	338	e	0 34	+	4	e	0 59	+	7	—	—	—
Shizuoka		1·8	225	i	0 28	-	2	0	50	-	2	—	—	—
Yamagata		2·0	9	0	34	+	2	0	59	+	2	—	—	—
Aikawa		2·2	324	0	35	-	0	1	0	-	2	—	—	—
Omaesaki		2·2	221	e	0 35	-	0	i	1 1	-	1	—	—	—
Sendai		2·2	20	e	0 35k	-	0	e	1 1	-	1	—	—	—
Takayama	E.	2·2	269	e	0 33	-	2	e	0 51	-	11	—	—	—
Toyama		2·2	283	e	0 35	-	0	e	1 2	-	0	e	1 8	SS
Hamamatu		2·4	231	e	0 39	+	1	i	1 9	+	2	—	—	—
Isinomaki		2·5	26	e	0 38	-	1	e	1 8	-	1	—	—	—
Nagoya	N.	2·6	247	e	0 42	+	1	1	13	+	1	—	—	—
Gihu		2·7	253	e	0 43	+	1	1	13	-	1	—	—	—
Sakata		2·7	358	e	0 44	+	2	e	1 30	SS	—	—	—	—
Wazima		2·7	296	e	0 42	-	0	—	—	—	—	—	—	—
Hukui		3·0	268	e	0 46	-	1	e	1 24	+	2	—	—	—

Continued on next page.

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1955

693

		$\Delta$	Az.	P.	O-C.	S	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Mizusawa		3.0	18	0 48	+ 1	1 25	+ 3	—	—
Hatidyozima		3.1	182	e 0 56	+ 8	—	—	—	—
Kameyama		3.1	245	e 0 53	+ 5	1 29	+ 5	—	—
Hikone		3.2	253	e 0 50	+ 1	e 1 40	SS	i 0 57	PP
Tsuruga	E.	3.2	261	i 0 49 <sub>a</sub>	0	—	—	—	—
Tu		3.2	243	e 0 54	+ 5	e 1 36	+ 9	—	—
Akita		3.5	2	e 0 55	+ 1	e 1 36	+ 2	—	—
Kyoto		3.6	252	e 0 55	0	e 1 49	+12	—	—
Morioka		3.6	15	i 0 56 <sub>k</sub>	+ 1	e 1 39	+ 2	—	—
Nara		3.7	246	e 1 16	+20	1 55	+16	—	—
Owase		3.7	236	e 0 59	+ 3	e 1 48	+ 9	—	—
Miyako		3.8	25	e 0 57	- 1	e 1 39	- 3	e 1 4	PP
Osaka		3.9	248	e 1 9	+10	—	—	e 2 8	?
Kobe		4.2	250	e 1 4	+ 1	e 2 1	SS	—	—
Toyooka		4.2	262	e 1 3	0	e 1 49	- 3	e 2 9	SS
Siomisaki		4.4	232	—	—	e 1 54	- 3	e 2 21	?
Hatinohe		4.5	16	e 1 7	0	e 1 56	- 3	—	—
Sumoto		4.5	247	1 10 <sub>k</sub>	+ 3	—	—	e 2 20	?
Aomori		4.6	8	e 1 27	+18	e 2 20	+18	—	—
Tokusima		4.9	245	e 1 26	+13	2 28	SS	—	—
Takamatu		5.2	250	e 1 22	+ 5	e 2 31	SS	—	—
Muroto	N.	5.6	240	e 1 38	+15	e 2 49	+22	—	—
Koti		5.9	245	e 1 42	+15	e 2 45	+11	—	—
Mori	E.	5.9	5	e 1 43	+16	e 2 43	+ 9	—	—
Muroran		6.1	7	e 1 43	+13	e 2 59	+20	—	—
Urakawa		6.3	20	e 1 34	+ 2	e 2 44	0	e 1 45	PP
Hirosima	E.	6.4	255	—	—	e 2 59	+13	—	—
Matuyama	E.	6.4	250	e 1 41	+ 7	e 2 51	+ 5	e 3 25	SSS
Hamada		6.6	261	—	—	e 3 1	+10	i 3 19	SS
Sapporo	E.	6.9	9	—	—	e 3 13	SS	—	e 3.5
Obihiro	N.	7.1	20	2 26	+42	—	—	—	—
Kusiro		7.6	26	e 1 47	- 3	e 3 7	- 9	—	—
Asahigawa		7.8	13	—	—	e 3 22	+ 1	—	—
Hukuoka		8.3	254	—	—	e 4 8	SSS	—	—
Nemuro		8.3	30	—	—	e 3 24	- 9	—	—
College		50.4	32	e 8 52	- 1	—	—	—	—
Quetta	Z.	60.0	287	e 9 59 <sub>a</sub>	- 3	—	—	—	—
Resolute Bay		63.7	14	e 10 24	- 3	—	—	—	e 33.8
Kiruna	Z.	66.8	339	e 10 44	- 3	—	—	—	—
Hungry Horse		73.2	42	e 11 26	0	—	—	—	—
Upsala	Z.	73.2	334	i 11 22	- 4	—	—	—	—
Eureka		77.3	50	e 11 49	0	—	—	—	—
Woody	Z.	77.6	55	i 11 50	- 1	—	—	i 12 6	pP
China Lake	Z.	78.4	54	e 11 55	0	—	—	—	—
Mount Wilson	Z.	79.0	56	e 11 58	- 1	—	—	—	—
Riverside	Z.	79.6	56	e 12 3	+ 1	—	—	—	—
Boulder City		80.1	53	e 12 6	+ 2	—	—	—	—
Palomar	Z.	80.4	56	e 12 9	+ 3	—	—	—	—
Barratt	Z.	80.9	56	e 12 9	0	—	—	—	—
Jena	Z.	82.1	330	e 12 3	-12	—	—	—	—
Stuttgart		84.7	330	e 12 25	- 3	—	—	—	—
Rathfarnham C.	Z.	86.1	340	e 12 44	+ 9	e 14 29	?	e 13 7	pP
Paris		87.3	333	12 39	- 2	—	—	—	—

Dec. 18d. 6h. 27m. 42s. Epicentre 33°-75N. 135°-1E. Depth 40-50km.  
 Intensity V at Wakayama, Sumoto, and Tokusima; IV at Muroto, Kobe, Owase, Takamatsu, Nara, Kameyama, Hikone, and Tsuruga; II-III at Siomisaki, Himeji, Osaka, Kyoto, Tu, Ueno, Maizuru, Ibukisan, Nagoya, Gihu, Hukui, Sakai, and Tsuyama.  
 Seismo. Bull. Cent. Met. Obs., Japan, for Dec., 1955, Tokyo, 1956, pp. 36-38, with macro-seismic chart.

Dec. 18d. 23h. 42m. 18s. Epicentre 41°-5N. 43°-9E.  
 Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 26.

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1955

694

Dec. 19d. 3h. 13m. 49s. Epicentre 8°·5N. 126°·9E.

A = -·5939, B = +·7910, C = +·1468;  $\delta$  = -5; h = +7;  
D = +·800, E = +·600; G = -·088, H = +·117, K = -·989.

		$\Delta$ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.	
				m.	s.		m.	s.		m.	s.		
Manila		8·4	317	i 3	7	+61	e 4	57	+20*	—	—	—	
Baguio		10·0	322	i 2	35 <sub>a</sub>	+ 8	e 4	51	SSS	—	—	—	
Taitung		15·2	339	e 3	45	+ 7	—	—	—	—	—	—	
Hsinkong		15·4	340	3	41	+ 1	6	44	+12	—	—	—	
Alishan		16·0	339	e 3	55	+ 7	6	55	+ 9	—	—	—	
Hwalien		16·2	342	e 3	54	+ 4	7	5	+14	—	—	—	
Ilan		16·9	344	e 4	1	+ 2	—	—	—	—	—	—	
Taipei		17·2	343	e 4	6	+ 3	7	28	+14	—	—	—	
Hong Kong		18·4	320	4	17 <sub>k</sub>	- 1	e 7	51	+10	—	—	—	
Yakusima		22·1	8	e 4	57	- 2	e 9	4	+ 6	—	—	—	
Zō-Sō		23·1	347	i 5	6	- 2	9	16	0	i 5	22	PP	—
Kagosima		23·2	8	e 5	8	- 1	e 9	30	+12	e 6	9	?	e 11·9
Miyazaki		23·7	10	5	15	+ 1	9	26	- 1	i 10	38	SSS	—
Tomie	N.	24·0	4	e 5	18	+ 1	e 9	40	+ 8	—	—	—	—
Nagasaki	E.	24·2	6	e 5	52?	PP	e 9	27?	- 8	e 10	31?	SS	e 13·1
Kumamoto		24·4	8	e 5	19	- 2	—	—	—	—	—	—	12·2
Lembang		24·5	232	e 5	21 <sub>a</sub>	- 1	e 9	39	- 1	—	—	—	—
Bandung		24·6	232	e 5	24	+ 1	e 9	34	- 8	—	—	—	—
Nanking		24·6	343	i 5	21	- 2	9	43	+ 1	—	—	—	—
Djakarta		24·8	234	e 5	29	+ 4	e 9	55	+ 9	—	—	—	e 14·0
Saga	N.	24·8	7	5	27	+ 2	e 6	47	?	e 5	51	PP	—
Simidu		24·8	12	e 5	25	0	e 9	42	- 4	—	—	—	e 12·6
Ooita	E.	25·0	9	e 5	27	0	e 9	57	+ 8	—	—	—	—
Hukuoka		25·2	7	e 5	28 <sub>k</sub>	- 1	e 10	25	+33	e 6	30	?	e 17·6
Muroto		25·5	14	e 5	29	- 3	e 9	56	- 1	e 8	41	?	e 11·9
Koti		25·6	13	e 5	33	+ 1	e 9	59	0	e 6	26	PPP	e 12·5
Matuyama	N.	25·8	11	e 5	41	+ 7	e 10	12	+10	e 11	13	SS	e 12·3
Siomisaki		26·1	17	—	—	—	e 10	5	- 2	—	—	—	e 13·1
Hirosima		26·2	10	e 5	36 <sub>k</sub>	- 2	e 10	3	- 6	—	—	—	—
Takamatu		26·5	13	e 5	42	+ 1	e 9	57	-17	(e 10	32)	S	e 10·5
Hamada		26·7	10	e 5	37	- 6	—	—	—	—	—	—	e 13·3
Sumoto		26·7	15	e 5	23	-20	e 10	33	+16	—	—	—	13·3
Owase		26·8	17	e 5	44	0	—	—	—	—	—	—	—
Kameyama		27·6	17	e 5	53	+ 2	e 11	29	+57	e 6	59	PPP	e 13·4
Kyoto		27·6	16	e 5	26	-25	e 10	26	- 6	—	—	—	e 13·4
Hikone		28·0	16	e 6	2	+ 7	—	—	—	—	—	—	—
Omaesaki		28·0	20	e 9	53	?	—	—	—	—	—	—	e 14·0
Nagoya	E.	28·1	18	e 5	55	0	—	—	—	—	—	—	—
Gihu		28·2	17	e 6	9	+13	—	—	—	—	—	—	—
Rabaul	Z.	28·2	116	i 5	54	- 2	—	—	—	i 6	3	?	—
Shizuoka	N.E.	28·4	20	—	—	—	e 10	41	- 4	—	—	—	—
Mera	E.	28·8	22	e 5	32	-30	e 12	48	SSS	—	—	—	—
Kohu	N.	29·0	20	e 6	23	+19	—	—	—	—	—	—	—
Tokyo	E.	29·5	22	—	—	—	e 12	35	SS	—	—	—	—
Matusiro		29·7	19	6	6	- 4	10	56	-10	i 9	18	PcP	12·3
Peking		32·8	345	e 6	31	- 6	e 11	49	- 5	i 6	46	?	—
Changchun		35·2	358	e 6	55	- 3	e 12	40	+ 9	—	—	—	—
Sapporo	N.	36·7	18	—	—	—	e 13	24	PcS	—	—	—	e 16·0
Shillong		37·4	301	e 7	12	- 4	e 13	5	0	—	—	—	—
Perth	Z.	41·6	194	i 7	54	+ 3	i 14	10	+ 2	17	50	ScS	i 19·8
Bokaro	E.	42·1	296	e 7	45	-10	e 14	9	- 7	—	—	—	—
Brisbane		43·8	146	i 8	7	- 2	i 14	33	- 7	—	—	—	—
Madras	E.	46·1	280	i 8	29	+ 1	i 15	17	+ 3	10	15	PP	22·2
Riverview		48·0	153	i 8	43 <sub>a</sub>	0	i 15	38	- 3	i 8	54	pP	—
Kodaikanal	E.	48·8	276	e 8	40	- 9	—	—	—	—	—	—	—

Continued on next page.

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## 1955

## 695

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Melbourne		49.1	161	i 8 51	0	i 15 55	- 1	i 10 47	PP	—
Nouméa		49.4	129	8 56	+ 3	—	—	—	—	—
Poona		52.4	287	e 9 12	- 4	e 16 44	+ 2	11 21	PP	24.5
Bombay	E.	53.4	287	i 9 23	- 1	i 17 13	+18	11 29	PP	—
Quetta	Z.	59.8	300	i 10 6 <sub>a</sub>	- 3	—	—	—	—	—
Apia		64.8	110	e 10 45	+ 5	—	—	—	—	—
Wellington		66.2	142	—	—	i 19 34	- 6	i 23 34	SS	e 36.2
Christchurch		66.3	145	e 10 59	+ 7	e 19 42	0	e 20 54	?	e 35.2
Honolulu		73.0	70	e 11 36	+ 3	—	—	—	—	—
Hawaii Vol. Obs.		75.8	72	e 11 47	- 3	—	—	—	—	—
College		80.3	26	i 12 12	- 2	—	—	—	—	—
Ksara		86.2	304	i 12 46 <sub>k</sub>	+ 2	—	—	25 30	?	—
Jerusalem		87.0	302	i 12 46 <sub>a</sub>	- 2	—	—	—	—	—
Kiruna		88.3	339	i 12 51 <sub>k</sub>	- 4	i 23 38	- 1	e 23 18	SKS	e 43.2
Helsinki		88.6	331	i 12 49	- 7	—	—	i 13 51	?	—
Upsala		92.2	332	i 13 9	- 4	24 18	+ 4	e 23 40	SKS	e 45.2
Warsaw		92.9	324	—	—	e 24 20	0	e 23 48	SKS	e 49.2
Resolute Bay		93.1	10	i 13 15 <sub>k</sub>	- 2	e 24 21	- 1	—	—	e 53.2
Collmberg	Z.	97.9	325	e 13 35	- 4	—	—	—	—	—
Uvira		98.2	268	e 17 41	PP	e 24 19	[+ 1]	—	—	—
Lwiro		98.3	269	e 17 45	PP	—	—	—	—	e 56.2
Taranto		99.1	313	e 12 46	-59	26 46	PS	e 30 51	?	47.8
Messina		101.1	312	e 14 39	+46	24 30	[- 2]	18 0	PP	—
Stuttgart		101.2	323	e 13 50	- 4	e 24 31	[- 2]	e 25 33	S	e 54.2
Salo	N.	101.8	320	e 13 8?	-48	e 21 52	PKS	e 14 48	?	—
Florence		102.0	318	e 18 15	PP	e 24 39	[+ 2]	e 27 16	PS	—
Rome		102.0	316	e 13 44	-13	e 24 37	[ 0]	e 18 11	PP	e 49.0
Hungry Horse		102.2	37	e 13 56	- 2	—	—	e 17 10	?	—
Pavia		102.8	320	—	—	e 24 36	[- 4]	—	—	—
Butte	N.	104.2	38	e 14 6	- 1	—	—	—	—	—
Woody	Z.	104.2	50	e 17 24	?	—	—	e 18 32	PP	—
Isabella	Z.	104.5	50	e 18 5	PP	—	—	—	—	—
Eureka		104.8	45	e 18 30	PP	—	—	—	—	—
Kew		105.0	329	—	—	e 24 49	[- 2]	e 26 5	S	e 54.7
Paris		105.0	326	14 9	- 2	—	—	e 18 29	PP	—
Pasadena	Z.	105.3	51	e 18 40	PP	—	—	—	—	e 48.8
Riverside	Z.	106.0	51	e 18 49	PP	—	—	e 19 1	?	—
Palomar	Z.	106.6	52	e 18 32	[+ 6]	—	—	—	—	—
Rathfarnham Castle		106.8	333	e 29 57	PKKP	i 34 1	SS	e 46 27	?	—
Barratt	Z.	107.0	52	e 19 2	PP	—	—	e 19 14	?	—
Boulder City		107.1	48	e 18 53	PP	—	—	—	—	—
Tucson		111.7	50	e 19 20	PP	—	—	—	—	—
Fayetteville		121.2	38	e 19 0	[+ 5]	—	—	—	—	—
Seven Falls		122.4	14	e 18 56	[- 1]	—	—	—	—	—
San Juan		150.3	26	e 19 53	[+ 5]	—	—	—	—	—
La Plata		153.4	171	40 23	?	43 11	SS	44 35	PSS	83.4
Chinchina		153.8	60	i 19 55	[+ 2]	—	—	—	—	—
Bogota		155.4	59	i 20 7	[+12]	i 30 52	{+ 4}	i 23 22	SKP	—
Huancayo		157.8	101	e 20 1	[+ 3]	e 31 11	{+10}	e 37 47	PPS	—
La Paz		163.3	120	i 20 7	[+ 3]	i 31 33	{+ 3}	24 44	PP	80.2

Dec. 19d. 18h. 9m. 42s. Epicentre 37°·0N. 141°·6E. Depth about 50km.  
Intensity II-III at Onahama and Shirakawa.  
Seismo. Bull. Cent. Met. Obs'. Japan, for Dec., 1955, Tokyo, 1956, p. 38.

Dec. 20d. 4h. 23m. Epicentre 39°·2N. 70°·9E.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 57.

Dec. 21d. 19h. 54m. Epicentre 43°·8N. 40°·2E. Magnitude 4.5.  
*Loc. cit.*, 20d., pp. 26, 27.

Dec. 21d. 21h. 40m. Epicentre 38°·6N. 21°·4E. Magnitude 5.  
Poorly recorded to 86°. Intensities up to V in Aegean. Macroseismic area 45000sq.km.  
Seimo. Institute Bulletin Athens, 1955, p. 69.

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

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1955

696

Dec. 22d. 8h. 30m. 48s. Epicentre 39°·5N. 144°·8E. Focus at Base of Superficial Layers.

Unfelt.

Seismo. Bull. Cent. Met. Obs., Japan, for Dec., 1955, Tokyo, 1956, p. 39.

A = -·6322, B = +·4460, C = +·6335;  $\delta = -8$ ;  $h = -1$ ;  
D = +·576, E = +·817; G = -·618, H = +·365, K = -·774.

		$\Delta$ °	Az. °	P.		O-C.		S.		O-C.		Supp.		L. m.
				m.	s.	s.	m.	s.	m.	s.	m.	s.		
Miyako		2·2	275	0	34	-	1	e 0	58	-	3	—	—	—
Hatinohe		2·7	294	e 0	40	-	2	i 1	10	-	4	—	—	—
Morioka		2·8	276	i 0	44 <sub>a</sub>	+	1	e 1	15	-	1	—	—	—
Isinomaki		2·9	250	0	44	-	1	1	16	-	3	—	—	—
Mizusawa		2·9	264	0	47	+	2	e 1	18	-	1	—	—	—
Urakawa		3·1	331	e 0	48	—	0	i 1	22	-	2	—	—	—
Sendai		3·3	250	0	48 <sub>k</sub>	-	3	1	24	-	5	—	—	—
Aomori		3·4	295	—	—	—	—	e 1	28	-	4	—	—	—
Kusiro		3·5	355	e 0	52	-	1	i 1	31	-	3	—	—	—
Obihiro		3·6	341	e 1	0	+	5	—	—	—	—	—	—	—
Akita		3·7	275	—	—	—	—	e 1	40	+	1	—	—	—
Yamagata		3·7	252	e 0	56	—	0	—	—	—	—	—	—	—
Hakodate		3·8	308	i 1	0	+	2	i 1	41	-	1	—	—	—
Hukusima		3·8	244	e 0	57	-	1	e 1	37	-	5	—	—	—
Nemuro		3·9	9	e 0	57	-	2	e 1	36	-	8	—	—	—
Sakata		3·9	263	—	—	—	—	e 1	53	+	9	—	—	—
Tomakomai		3·9	322	e 1	5	+	6	e 1	44	0	—	—	—	—
Onahama		4·0	232	e 0	55	-	5	e 1	46	-	1	—	—	—
Inawasiro		4·1	244	1	6	+	4	i 1	52	+	3	—	—	—
Mori	E.	4·1	311	e 1	14	+	12	e 1	41	-	8	—	—	—
Muroran		4·1	316	e 1	0	-	2	e 1	42	-	7	—	—	—
Shirakawa		4·3	238	e 1	5	—	0	e 1	50	-	4	—	—	—
Sapporo	E.	4·4	325	e 1	7	+	1	e 1	46	-	11	—	—	—
Abashiri		4·5	355	—	—	—	—	e 1	53	-	7	—	—	—
Mito	E.	4·6	229	e 1	8	-	1	1	56	-	6	—	—	—
Niigata		4·8	253	—	—	—	—	e 1	49	-	18	—	—	—
Kakioka	N.	4·9	230	e 1	9	-	4	2	2	-	8	—	—	—
Utunomiya		4·9	234	e 1	13	—	0	e 2	3	-	7	—	—	—
Kashiwa		5·3	228	1	19?	—	0	—	—	—	—	—	—	—
Kumagaya		5·4	234	e 1	21	+	1	2	18	-	4	—	—	—
Maebasi	Z.	5·5	238	e 1	20	-	2	e 2	20	-	5	—	—	—
Tokyo		5·5	228	e 1	24	+	2	2	20	-	5	—	—	—
Titibu		5·7	234	i 1	25	+	1	e 2	25	-	5	—	—	—
Yokohama		5·7	227	e 1	28	+	4	e 2	43	+	13	—	—	—
Oiwake		5·8	239	e 1	27	+	1	—	—	—	—	—	—	—
Nagano		5·9	244	e 1	30	+	3	e 2	35	0	—	e 1	59	?
Matusiro		6·0	243	i 1	26 <sub>a</sub>	-	3	2	34	-	3	i 2	2	?
Mera	E.	6·0	222	—	—	—	—	e 2	22	-	15	—	—	—
Hunatu		6·2	232	e 1	32	—	0	e 2	31	-	11	—	—	—
Kohu		6·2	234	e 1	33	+	1	e 2	39	-	3	—	—	—
Ajiro	E.	6·3	228	e 1	46	+	13	e 2	37	-	8	—	—	—
Matumoto	E.	6·3	241	e 1	35	+	2	—	—	—	—	—	—	—
Misima	N.	6·4	229	e 1	40	+	6	e 2	42	-	5	—	—	—
Osima	N.	6·4	224	—	—	—	—	i 2	38	-	9	—	—	—
Iida		6·8	237	e 1	43	+	3	—	—	—	—	—	—	—
Gihu		7·6	240	e 1	54	+	3	—	—	—	—	—	—	—
Nagoya		7·6	238	e 2	0	+	9	—	—	—	—	—	—	e 3·7
Changchun		15·2	293	e 3	29	-	5	—	—	—	—	—	—	—
Zô-Sè		21·0	254	e 4	46	+	3	8	46	+	16	—	—	—
Nanking		22·3	259	e 4	57	+	1	9	10	+	16	—	—	—
Tatung		24·2	282	—	—	—	—	e 9	55	+	27	—	—	—
College		45·6	34	i 8	18	-	1	—	—	—	—	—	—	—
Lembang	Z.	57·5	225	e 9	44	-	4	—	—	—	—	—	—	—
Quetta	Z.	62·7	288	e 10	25	+	1	—	—	—	—	—	—	—
Kiruna	Z.	65·2	340	i 10	40	—	0	—	—	—	—	—	—	—

Continued on next page.

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1955

697

		$\Delta$ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.
				m.	s.		m.	s.		m.	s.	
Shasta	z.	67.5	55	i 10	55	0	—	—	—	—	—	—
Hungry Horse		68.2	45	i 11	0	+ 1	—	—	—	—	—	—
Berkeley	z.	69.2	58	i 11	6	+ 1	—	—	—	—	—	—
Reno	z.	69.8	55	e 11	11	+ 2	—	—	—	—	—	—
Butte	N.	70.4	46	e 11	13	0	—	—	—	—	—	—
Bozeman		71.4	46	e 11	21	+ 2	—	—	—	—	—	—
Fresno	z.	71.4	58	e 11	20	+ 1	—	—	—	—	—	—
Upsala	z.	71.9	335	i 11	22 <sub>a</sub>	0	—	—	—	—	—	—
Eureka		72.3	53	i 11	26	+ 2	—	—	—	—	—	—
Tinemaha	z.	72.3	56	e 11	25	+ 1	—	—	—	—	—	—
Woody	z.	72.6	58	i 11	26	0	—	—	i 11	36	pP	—
Isabella	z.	72.9	58	i 11	29 <sub>a</sub>	+ 1	—	—	—	—	—	—
Pasadena	z.	74.0	59	i 11	34 <sub>a</sub>	0	—	—	e 11	46	pP	—
Salt Lake City		74.0	50	e 11	36	+ 2	—	—	—	—	—	—
Riverside	z.	74.6	59	i 11	38 <sub>a</sub>	0	—	—	—	—	—	—
Boulder City		75.1	56	i 11	42	+ 2	—	—	—	—	—	—
Palomar	z.	75.4	59	e 11	42	0	—	—	—	—	—	—
Barratt	z.	75.9	59	i 11	46	+ 1	—	—	—	—	—	—
Tucson		80.0	56	e 12	9	+ 1	—	—	—	—	—	—
Jena	z.	81.1	332	e 12	14	+ 1	e 12	41	sP	e 12	23	pP
Stuttgart		83.7	332	e 12	27	0	—	—	—	—	—	—
Triest		84.6	328	e 12	17	-14	e 22	34	-21	e 14	27	?
Fayetteville		87.2	44	i 12	45	+ 1	—	—	—	—	—	—
Almeria		98.3	334	e 14	45	+70	26	1	PS	18	41	PP

Dec. 22d. 14h. 1m. Epicentre 42°·3N. 48°·9E. Magnitude 4.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 27.

Dec. 22d. 23h. 55m. Epicentre 35°·7S. 179°·4E. Depth of focus 285km. Magnitude 5.3.  
New Zealand Seismo. Report for 1955, No. E-136, Department of Scientific and Industrial Research, Geophysics Division, Wellington, N.Z., 1961, p. 67.

Dec. 24d. 3h. 34m. Epicentre 8°·5N. 85°·0W.  
Seismo. Bull. National University of Mexico, Dec., 1955, Tacubaya, p. 4.

Dec. 24d. 17h., 22m. Epicentre 19°33'N. 105°29'W.  
*Loc. cit.*, 3h., p. 4.

Dec. 25d. 18h. 43m. }  
19h. 46m. } Epicentre 42°·7N. 42°·3E.  
20h. 43m. }  
*Loc. cit.*, 22d. 14h., pp. 27-29.

Dec. 26d. 3h. 33m. Epicentre 36°·8N. 71°·0E. Depth of focus 220km.  
*Loc. cit.*, 22d., 14h., pp. 57, 58.

Dec. 26d. 5h. 20m. Epicentre 39°·1N. 70°·8E.  
*Loc. cit.*, 22d. 14h., p. 58.

Dec. 26d. 9h. 8m. 35s. Epicentre 28°·8N. 130°·2E. Depth of focus 60km.  
Intensity II-III at Yakusima.  
Seismo. Bull. Cent. Met. Obs., Japan, for Dec., 1955, Tokyo, 1956, p. 40.

Dec. 26d. 17h. 2m. Epicentre 42°·7N. 42°·3E.  
*Loc. cit.*, 22d. 14h., p. 29.

Dec. 26d. 23h. 42m. }  
23h. 44m. } Epicentre 42°·4N. 45°·1E.  
*Loc. cit.*, 22d. 14h., pp. 29, 30.

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1955

698

Dec. 27d. 2h. 27m. 54s. Epicentre 25°·18. 177°·8E. Depth of focus 0·015.

A = -·9060, B = -·0348, C = -·4219;  $\delta = +5$ ;  $h = +3$ ;  
D = -·038, E = +·999; G = +·422, H = +·016, K = -·907.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Apia		12·6	28	e 2 54	- 2	e 5 5	- 9	—	—
Onerahi	E.	12·6	211	e 2 57	+ 1	e 5 20	+ 6	—	—
Auckland	N.	13·3	207	3 5	0	4 31	-59	e 8 26	PcP
Karapiro	N.	14·0	202	e 3 15	+ 1	5 37	- 9	—	—
Tuai	N.	14·3	196	—	—	5 36?	-17	—	—
New Plymouth	E.	15·5	204	e 3 36	+ 3	i 6 21	0	—	—
Wellington		17·3	199	e 3 46	- 9	i 6 41	-20	—	—
Cobb River	E.	17·8	204	e 3 54	- 7	i 6 54	-18	—	—
Kaimata	N.E.	19·5	204	e 4 13	- 6	e 7 32	-15	4 26	pP
Christchurch		20·0	201	4 6?	-18	e 7 21?	-36	—	—
Brisbane		26·2	258	i 5 26	+ 2	i 10 38	sS	—	—
Riverview		28·3	245	i 5 43 <sub>a</sub>	- 1	i 10 20	+ 1	i 6 46	PP
Melbourne	E.	34·0	239	i 6 31	- 2	e 11 30	-18	i 7 22	PP e 14·5
Lembang	Z.	73·2	270	i 11 16 <sub>a</sub>	- 3	—	—	—	—
Matusiro	Z.	74·0	324	e 11 23	0	—	—	—	—
Hong Kong		81·1	300	e 12 9?	+ 7	e 22 11?	+11	—	—
Berkeley	Z.	81·5	41	i 12 4	0	—	—	e 12 50	pP
Lick	Z.	81·5	42	e 12 4	0	—	—	i 12 46	pP
Pasadena		81·7	46	i 12 5	- 1	—	—	i 12 51	pP
Barratt	Z.	81·8	48	i 12 5	- 1	—	—	i 12 52	pP
Palomar	Z.	82·1	48	i 12 7	- 1	—	—	i 12 54	pP
Riverside	Z.	82·1	47	i 12 6	- 2	—	—	i 12 53	pP
Woody	Z.	82·2	45	i 12 6	- 2	—	—	i 12 51	pP
Fresno	Z.	82·3	43	e 12 8	- 1	—	—	e 12 52	pP
Isabella	Z.	82·4	45	i 12 8	- 1	—	—	i 12 54	pP
Mineral	Z.	83·5	40	e 12 14	- 1	—	—	e 12 33	?
Tinemaha	Z.	83·5	44	e 12 14	- 1	—	—	i 13 1	pP
Reno	Z.	84·0	41	e 12 29	+12	—	—	—	—
Boulder City		85·0	46	i 12 22	0	—	—	i 13 8	pP
Tucson		85·6	52	i 12 25	0	e 30 26	PKKP	i 13 10	pP
Eureka		86·4	43	i 12 27	- 2	e 30 24	PKKP	i 13 13	pP
Butte	N.	92·2	39	e 12 55	- 1	e 16 37	PP	i 13 43	pP
College		92·7	12	i 12 58	- 1	e 14 20	sP	e 13 43	pP
Hungry Horse		92·7	37	e 12 57	- 2	e 16 41	PP	e 17 20	pPP
Bozeman		92·9	40	e 12 59	- 1	—	—	—	—
Boulder		93·5	47	i 13 2	0	—	—	—	—
Huancayo		96·0	106	i 13 24	+10	—	—	—	—
Shillong	Z.	100·7	293	e 13 34	- 1	—	—	—	—
Resolute Bay		112·2	17	e 18 20	[ 0]	e 29 18	pPS	—	—
Bombay	E.	114·9	280	—	—	e 26 16	S	e 27 37	?
Ottawa		115·7	50	e 18 25 <sub>k</sub>	[- 2]	—	—	—	—
Grahamstown	Z.	117·4	203	i 17 57 <sub>k</sub>	[-33]	—	—	—	—
Seven Falls		119·3	48	i 18 32 <sub>k</sub>	[- 2]	28 46	PKKP	—	—
Kimberley	Z.	122·2	204	i 18 39 <sub>k</sub>	[- 1]	—	—	—	—
Quetta	Z.	123·1	291	e 18 41	[ 0]	—	—	—	—
Kiruna	Z.	135·8	350	e 18 58	[- 8]	—	—	—	—
Lwiro		142·5	227	e 19 13 <sub>a</sub>	[- 5]	—	—	e 20 10	pPKP
Upsala	Z.	143·7	347	i 19 16	[- 4]	—	—	i 19 35	PKP <sub>2</sub>
Copenhagen		148·6	349	i 19 31 <sub>a</sub>	[+ 3]	—	—	—	—
Ksara		149·5	294	19 35	[+ 6]	—	—	20 25	pPKP
Iasi		150·2	324	e 19 37	[+ 7]	—	—	e 20 32	pPKP
Hamburg	Z.	151·0	350	i 19 38 <sub>k</sub>	[+ 6]	—	—	—	—
Rathfarnham C.	Z.	151·2	11	e 19 36	[+ 4]	—	—	e 19 58	?
Raciborz	Z.	152·2	338	e 19 36	[+ 3]	—	—	e 21 25	?
Collmberg	Z.	152·6	345	e 19 34	[ 0]	—	—	e 20 31	pPKP
Jena		153·2	347	e 19 44	[+ 9]	—	—	e 20 40	pPKP
Prague		153·3	342	e 19 36	[+ 1]	e 22 26	PKS	i 20 36	pPKP
Uccle		154·3	357	e 19 35	[- 1]	—	—	—	—
Belgrade	Z.	155·4	328	e 19 37 <sub>a</sub>	[- 1]	e 20 8	?	e 21 19	sPP
Stuttgart		155·8	349	e 19 36	[- 2]	—	—	e 20 55	pPKP
Basle		157·2	350	e 19 46	[+ 6]	—	—	—	—
Triest		157·5	338	e 19 56	[+15]	e 26 48	[+16]	e 23 26	PKS
Alicante		166·6	9	19 36	[-14]	26 12	[-27]	20 46	PKP <sub>2</sub> e 79·5
Granada		167·0	21	i 20 58 <sub>k</sub>	PKP <sub>2</sub>	e 33 22	SKKS	24 46	PP

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1955

699

Dec. 27d. 3h. 50m. Epicentre 36°·6N, 69°·1E. Magnitude 4.  
Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, pp. 58, 59.

Dec. 27d. 8h. 43m. Epicentre 43°·7N, 40°·1E. Magnitude 4.  
*Loc. cit.*, 3h., pp. 30, 31.

Dec. 27d. 8h. 47m. 18s. Epicentre 13°·0N, 145°·3E. Depth of focus 0·010.

A = -·8013, B = +·5549, C = +·2235;  $\delta = -5$ ;  $h = +6$ ;  
D = +·569, E = +·822; G = -·184, H = +·127, K = -·975.

		$\Delta$	Az.	P.		O - C.	S.		O - C.	Supp.		L.
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Rabaul	z.	18·4	158	i 4	3	- 7	—	—	—	—	—	—
Koti		23·1	334	e 5	0	+ 2	e 9	14	+16	—	—	—
Kameyama		23·1	341	5	16	+18	e 9	29	sS	—	—	—
Manila		23·7	277	i 5	2	- 2	i 9	16	+ 8	—	—	—
Baguio		24·1	281	e 5	7	0	e 9	33	+18	—	—	—
Matusiro		24·3	346	e 5	5	- 4	9	24	+ 6	e 7	10	? —
Hong Kong		31·0	292	7	11	PP	e 11	12?	+ 5	—	—	—
Brisbane		41·0	169	i 7	34	- 1	i 13	42	+ 2	—	—	—
Lembang		42·3	244	i 7	42 <sup>a</sup>	- 4	e 14	3	+ 4	—	—	—
Djakarta		42·7	246	e 7	53	+ 4	e 14	14	+ 9	—	—	—
Riverview		46·9	173	e 8	24	+ 2	i 15	9	+ 4	i 10	18	PP e 21·5
Melbourne	E.	50·6	180	—	—	—	e 16	6	+ 9	—	—	e 21·2
Shillong		51·6	292	e 8	56	- 2	e 16	16	+ 6	9	42	pP —
Honolulu		54·5	73	e 9	18	- 2	—	—	—	—	—	—
Colombo	E.	64·6	272	10	33	+ 4	19	5	+ 5	—	—	34·7
College		68·6	25	e 10	54	0	e 19	54	+ 6	e 23	56	SS e 28·0
Poona	z.	68·6	285	e 10	53	- 1	—	—	—	—	—	—
Bombay		69·5	286	e 10	59	- 1	20	6	+ 7	13	33	PP —
Quetta		73·6	298	e 11	25	+ 1	e 20	53	+ 8	e 11	57	pP —
Horseshoe Bay		81·2	41	12	7	+ 1	—	—	—	—	—	—
Mineral	z.	84·0	50	e 12	23	+ 2	—	—	—	—	—	—
Berkeley	z.	84·1	53	e 12	24	+ 3	—	—	—	—	—	—
Lick	z.	84·6	53	i 12	28	+ 4	—	—	—	i 12	49	pP —
Resolute Bay		85·0	13	i 12	25 <sup>k</sup>	- 1	—	—	—	—	—	—
Reno	z.	85·6	51	e 12	31	+ 2	—	—	—	—	—	—
Fresno	z.	86·2	53	e 12	33	+ 1	—	—	—	—	—	—
Woody	z.	87·2	54	i 12	36	0	e 16	1	PP	i 12	58	pP —
Hungry Horse		87·4	41	e 12	37	0	—	—	—	e 16	0	PP —
Tinemaha	z.	87·4	53	e 12	41	+ 4	i 15	25	?	e 13	2	pP —
Isbaella	z.	87·5	54	e 12	37	- 1	—	—	—	—	—	—
Pasadena		88·1	56	e 12	41	0	i 23	25	+10	e 16	11	PP e 43·1
Eureka		88·5	50	i 12	44	+ 1	—	—	—	—	—	—
Riverside	z.	88·8	56	e 12	45	+ 1	e 16	14	PP	i 13	14	pP —
Butte	N.	89·0	43	e 12	46	+ 1	e 16	15	PP	i 13	6	pP —
Palomar	z.	89·4	56	e 12	53	+ 6	—	—	—	e 16	27	PP —
Barratt	z.	89·7	57	e 12	49	+ 1	e 16	18	PP	e 13	31	sP —
Bozeman		90·1	43	e 12	52	+ 2	—	—	—	—	—	—
Kiruna		90·2	342	i 12	48	- 3	—	—	—	i 13	22	sP e 43·7
Boulder City		90·3	53	e 12	53	+ 2	i 13	22	sP	e 13	15	pP —
Salt Lake City		91·1	48	e 12	58	+ 3	—	—	—	—	—	—
Tucson		94·6	56	e 13	14	+ 3	—	—	—	—	—	e 50·0
Boulder		96·1	47	e 13	21	+ 3	—	—	—	—	—	—
Upsala	z.	96·2	336	i 13	16	- 2	—	—	—	—	—	—
Ksara		98·4	308	e 16	0	PP	e 26	42	PPS	—	—	—
Triest		107·1	327	e 14	4	P	e 24	37	[+ 1]	e 18	15	PP —
Stuttgart		107·2	331	e 18	35	PP	—	—	—	—	—	—
Almeria		121·8	330	e 18	53	[+10]	26	4	[+32]	20	30	PP 51·1
Huancayo		140·4	93	e 19	18	[0]	—	—	—	e 23	0	pPP —
La Paz	z.	147·6	100	19	42	[+12]	—	—	—	i 19	57	pPKP —

Dec. 27d. 8h. 54m. Epicentre 43°·7N, 40°·1E.  
Bull. of the Seismo. Stations of the U.S.S.R. for 1955, Oct.-Dec., Moscow, 1957, p. 31.

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

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1955

700

Dec. 27d. 17h. 20m. 12s. Epicentre 30°·0S. 179°·0W.

A = -·8674, B = -·0151, C = -·4975;  $\delta = +12$ ;  $h = +2$ ;  
D = -·017, E = +1·000; G = +·497, H = +·009, K = -·868.

		$\Delta$	Az.	P.		O - C.	S.		O - C.	Supp.	
		°	°	m.	s.	s.	m.	s.	s.	m.	s.
Onerahi	E.	8·0	222	i 2	8	+ 8	i 3	25	- 8	—	—
Auckland	N.	8·6	215	2	15	+ 6	i 3	36	-12	—	—
Karapiro	N.	9·1	208	i 2	20	+ 6	3	42	-18	—	—
Tuai	N.	9·3	199	2	21	+ 4	3	42	-23	—	—
New Plymouth	E.	10·7	210	e 2	29	+ 1	e 4	21	-18	—	—
Wellington		12·3	202	e 2	52	- 7	i 4	44	-34	—	—
Cobb River	E.	12·9	209	e 2	59	- 8	e 4	56	-37	—	—
Kaimata	N.E.	14·7	209	e 3	20	-11	5	30	-46	—	—
Christchurch		15·0	204	e 3	38?	+ 3	i 5	52	-31	—	—
Apia		17·5	24	4	35	PPP	e 7	58	SSS	—	—
Brisbane		24·6	269	i 5	15	- 8	i 9	5	-37	—	—
Riverview	E.	25·6	254	—	—	—	e 9	12	-47	—	—
Hawaii Vol. Obs.		54·2	28	i 9	36	+ 7	—	—	—	—	—
Honolulu		54·8	24	e 9	41	+ 7	—	—	—	—	—
Lembang	Z.	72·2	272	i 12	39k	+70	—	—	—	—	—
Unalaska		84·2	7	i 12	42	+ 8	—	—	—	—	—
Pasadena		85·8	47	i 12	42k	0	—	—	—	—	—
Barratt	Z.	85·9	48	i 12	42k	- 1	—	—	—	—	—
Berkeley	Z.	85·9	42	e 12	42k	- 1	—	—	—	—	—
Lick	Z.	85·9	42	i 12	40k	- 3	—	—	—	—	—
Mount Wilson	Z.	86·0	47	i 12	43k	0	—	—	—	i 13	0
Palomar	Z.	86·2	48	i 12	44k	0	i 12	53	?	e 14	13
Riverside	Z.	86·2	47	i 12	44k	0	—	—	—	e 13	1
Woody	Z.	86·4	45	i 12	44k	- 1	e 13	7	?	13	45
Fresno	Z.	86·6	44	i 12	45k	- 1	—	—	—	—	—
Isabella	Z.	86·6	45	i 12	45k	- 1	—	—	—	e 14	54
Tinemaha	Z.	87·7	44	i 12	51	- 1	—	—	—	—	—
Mineral	Z.	87·9	40	e 12	51k	- 2	—	—	—	—	—
Reno	Z.	88·4	42	e 12	54k	- 1	—	—	—	—	—
Boulder City		89·1	47	i 12	57	- 1	—	—	—	e 13	7
Tucson		89·5	52	i 12	57	- 3	—	—	—	—	—
Eureka		90·6	44	i 13	3	- 2	—	—	—	e 16	50
Hungry Horse		97·2	38	e 13	34	- 2	—	—	—	e 17	41
College		97·6	13	e 13	23	-15	—	—	—	—	—
Resolute Bay		117·1	17	i 18	36 <sub>a</sub>	[-11]	—	—	—	—	—
Kimberley	Z.	117·3	204	i 22	44k	PPP	—	—	—	—	—
Ottawa		119·6	52	i 18	42k	[-10]	21	42	PKS	—	—
Shawinigan Falls		121·8	51	e 18	46	[-10]	—	—	—	—	—
Seven Falls		123·3	51	i 18	49k	[-10]	—	—	—	—	—
Quetta	Z.	123·7	288	e 18	46	[-14]	—	—	—	—	—
Lwiro		138·3	225	i 22	9 <sub>a</sub>	PP	—	—	—	—	—
Kiruna	Z.	140·4	349	e 19	14	[-17]	—	—	—	—	—
Reykjavik	Z.	142·9	16	i 19	28 <sub>a</sub>	[- 8]	—	—	—	—	—
Upsala	Z.	148·1	344	i 19	36	[- 8]	—	—	—	—	—
Jerusalem		150·6	282	i 19	41	[- 7]	—	—	—	e 21	13
Hamburg	Z.	155·6	347	i 20	18	[+23]	—	—	—	—	—
Jena	Z.	157·6	342	e 19	46	[-12]	—	—	—	e 20	24
Stuttgart		160·2	344	e 19	48	[-13]	—	—	—	e 20	36
Granada		171·9	27	21	3k	PKP <sub>2</sub>	—	—	—	25	45

Dec. 27d. 18h. 11m. Epicentre 45°·7N. 26°·4E. Depth of focus 160km.

Bull. of the Seismo. Stations of the U.S.S.R. for Oct.-Dec., 1955, Moscow, 1957, p. 71.

Dec. 29d. 4h. 53m. 55s. Epicentre 44°·0N. 147°·8E. Depth of focus 60km.

Intensity II-III at Kusiro.

Seismo. Bull. Cent. Met. Obs., Japan, for Dec., 1955, Tokyo, 1956, pp. 40, 41.

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1955

701

Dec. 29d. 8h. 25m. 31s. Epicentre 30°·1N. 90°·3E.

A = -·0045, B = +·8666, C = +·4990;  $\delta = +2$ ;  $h = +2$ ;  
D = +1·000, E = +·005; G = -·003, H = +·499, K = -·867.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Chatra	4·2	221	e 1 13	- 2*	i 2 14	- 5 <sub>g</sub>	—	—
Shillong	4·7	162	i 1 15 <sub>k</sub>	+ 1	i 2 7	- 3	1 22	PP
Bokaro	7·4	214	e 1 41	-11	i 2 46	-32	1 45	PP
Dehra Dun	10·6	274	e 2 39	+ 3	i 4 34	- 3	2 45	PP
New Delhi	N. 11·5	266	e 2 47	- 1	i 4 50	- 9	5 19	SS
Sining	11·6	53	e 3 12	+22	—	—	—	—
Lanchow	12·8	59	e 2 55	-11	—	—	—	—
Lahore	13·8	280	3 19	0	5 49	- 5	—	—
Sian	16·3	70	e 3 54	+ 2	e 7 1	+ 8	—	—
Hyderabad	E. 16·6	223	e 3 55	- 1	i 6 48	-12	—	—
Linfen	18·8	66	e 4 25	+ 2	e 8 0	+10	—	—
Poona	18·9	236	e 4 24 <sub>a</sub>	0	i 7 42	-11	4 36	PP
Bombay	19·4	239	e 4 31	+ 1	e 7 54	-10	4 46	PP
Madras	E. 19·4	211	4 32	+ 2	7 59	- 5	4 46	PP
Taiyuan	20·0	62	e 4 36	- 1	e 8 21	+ 4	—	—
Quetta	20·2	276	i 4 40 <sub>a</sub>	+ 1	e 8 21	0	—	—
Tatung	21·2	56	e 4 52	+ 3	e 8 56	+15	—	—
Futzeling	22·4	80	e 5 0	- 2	e 9 6	+ 2	—	—
Hong Kong	22·8	104	5 4 <sub>a</sub>	- 1	e 9 15 <sup>?</sup>	+ 4	—	—
Kodaikanal	E. 23·1	214	e 5 6	- 2	i 9 15	- 1	10 23	SSS
Peking	23·3	58	e 5 13	+ 3	e 9 31	+11	—	—
Nanking	24·5	78	5 21	- 1	e 9 42	+ 2	—	—
Colombo	E. 25·1	205	e 10 0	S	(e 10 0)	+ 9	—	18·3
Zô-Sè	26·6	80	e 5 41	- 1	10 17	+ 1	—	—
Baguio	30·9	109	i 6 21 <sub>a</sub>	+ 1	e 12 41	SS	—	—
Manila	32·2	112	e 6 30	- 2	—	—	—	—
Matusiro	40·2	68	e 7 38	- 2	e 13 48	0	—	e 17·0
Ksara	45·9	289	e 8 32	+ 6	e 16 29	?	—	—
Kiruna	54·9	334	i 9 32	- 3	—	—	i 9 41	? e 29·5
Upsala	55·9	324	i 9 42 <sub>k</sub>	0	—	—	i 9 52	? e 32·5
Prague	58·8	313	i 10 2	0	—	—	i 10 59	PcP
Collmberg	Z. 59·5	315	e 10 8	+ 1	—	—	e 12 20	PP
Jena	60·4	314	e 10 12	- 1	—	—	—	—
Stuttgart	62·4	312	i 10 27 <sub>a</sub>	0	—	—	e 10 40	?
Strasbourg	63·4	313	e 10 34	0	—	—	—	—
Tananarive	63·8	226	10 37 <sub>a</sub>	+ 1	—	—	—	—
Besançon	64·9	312	10 43	0	—	—	—	—
Lwiro	66·8	253	e 10 56	0	—	—	e 11 7	?
Scoresby Sund	Z. 68·9	340	i 11 10	+ 1	—	—	—	—
Algiers Univ.	Z. 70·7	302	e 11 20	0	—	—	—	—
Tamanrasset	74·6	288	e 11 43	0	—	—	e 14 28	PP
College	75·2	22	i 11 45	- 1	—	—	—	—
Granada	75·3	304	i 11 53 <sub>a</sub>	+ 6	21 32	+ 6	12 24	PcP
Resolute Bay	75·4	1	e 11 47	0	—	—	—	—
Riverview	Z. 85·7	133	i 12 45 <sub>a</sub>	+ 3	—	—	—	—
Hungry Horse	98·9	16	e 13 45	+ 2	—	—	e 17 48	PP
Huancayo	157·6	320	e 20 12	[+14]	—	—	—	—

Dec. 31d. 16h. 59m. 14s. Epicentre 32°·6N. 132°·0E. Depth of focus 40km.  
Intensity IV at Asosan; II-III at Ooita, Uwazima, Simidu, Kumamoto, and Sukumo.  
Seismo. Bull. Japanese Met. Agency for Jan., 1956, Tokyo, 1956, p. 15, with macroseismic chart.

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

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1955

702

Dec. 31d. 21h. 14m. 19s. Epicentre 41°·7N. 142°·0E. Depth of focus 0·005.

Intensity IV at Hatinohe, Hakodate, and Tomakomai; II-III at Muroran, Mori, Miyako, Kusiro, and Iwamizawa.

Epicentre 41°·4N. 142°·0E. Depth of focus 70km.

Loc. cit., note to 16h., pp. 16, 17, with macroseismic chart.

A = -·5901, B = +·4610, C = +·6627;  $\delta = -9$ ;  $h = -2$ ;  
D = +·616, E = +·788; G = -·522, H = +·408, K = -·749.

		$\Delta$ °	Az. °	P.		O - C.		S.		O - C.		Supp.		L. m.
				m.	s.	s.	m.	s.	m.	s.	m.	s.		
Urakawa		0·8	54	e 0	17	0	i 0	31	+ 2	—	—	—	—	
Hakodate		0·9	265	i 0	19	+ 1	i 0	32	+ 1	—	—	—	—	
Tomakomai		0·9	342	i 0	21	+ 3	i 0	37	+ 6	—	—	—	—	
Muroran		1·0	311	i 0	19k	0	i 0	34	+ 1	—	—	—	—	
Mori		1·1	292	i 0	23k	+ 3	e 0	41	+ 5	—	—	—	—	
Hatinohe		1·2	195	i 0	18a	- 4	i 0	30	- 8	—	—	—	—	
Sapporo		1·4	342	i 0	27k	+ 3	i 0	47	+ 4	—	—	—	—	
Obihiro		1·5	37	i 0	28	+ 2	i 0	51	+ 6	—	—	—	—	
Suttsu		1·7	311	i 0	27	- 1	e 0	51	+ 1	—	—	—	—	
Miyako		2·0	180	0	29k	- 3	e 0	48	- 9	—	—	—	—	
Asahigawa		2·1	8	e 0	36	+ 2	i 1	5	+ 6	—	—	—	—	
Morioka		2·1	197	i 0	31k	- 3	i 0	54	- 5	—	—	—	—	
Kusiro		2·2	54	e 0	36	+ 1	e 1	1	- 1	e 0	45	?	—	
Akita	z.	2·4	216	0	38	0	1	3	- 4	—	—	—	—	
Mizusawa		2·6	194	0	42	+ 1	1	4	- 8	—	—	—	—	
Abashiri		2·9	36	e 0	52	+ 7	e 1	22	+ 3	e 1	35	?	—	
Nemuro		3·1	58	e 0	50	+ 2	e 1	20	- 4	—	—	—	—	
Sakata		3·2	211	e 1	5	+16	e 1	40	+13	—	—	—	—	
Isinomaki		3·3	189	e 0	49	- 2	1	21	- 8	—	—	—	—	
Sendai		3·5	194	e 0	51	- 3	e 1	28	- 6	e 1	0	?	—	
Wakkanai	E.	3·7	357	—	—	—	e 1	36	- 3	—	—	—	—	
Yamagata		3·7	200	e 0	55	- 1	e 1	34	- 5	—	—	—	—	
Hokusima		4·1	197	e 1	0	- 2	1	46	- 3	—	—	—	—	
Inawastro		4·4	200	1	9	+ 3	1	58	+ 1	i 1	29	?	—	
Niigata		4·4	212	e 1	27	+21	e 2	20	+23	—	—	—	—	
Aikawa		4·6	219	e 1	7	- 2	e 2	0	- 2	—	—	—	—	
Onahama		4·8	190	e 1	13	+ 1	e 2	7	0	—	—	—	—	
Shirakawa		4·8	197	e 1	12	0	2	6	- 1	—	—	—	—	
Mito		5·4	193	e 1	18	- 2	2	22	0	2	16	?	e 2·6	
Takada		5·4	213	—	—	—	e 2	24	+ 2	—	—	—	—	
Utunomiya		5·4	198	e 1	17	- 3	e 2	16	- 6	—	—	—	—	
Kakioka	E.	5·6	195	e 1	23	0	2	21	- 6	—	—	—	—	
Maebasi		5·8	204	e 1	31	+ 6	e 2	28	- 4	e 1	58	?	e 3·0	
Nagano	N.	5·8	211	e 1	28	+ 3	e 2	35	+ 3	—	—	—	—	
Wazima		5·8	224	e 1	30	+ 5	—	—	—	—	—	—	—	
Kumagaya		5·9	201	e 1	32	+ 5	2	43	+ 9	—	—	—	—	
Matusiro		5·9	211	e 1	23	- 4	e 2	29	- 5	e 2	10	?	—	
Kashiwa		6·0	195	—	—	—	e 2	46	+ 9	—	—	—	—	
Oiwake		6·0	207	e 1	32	+ 4	e 2	38	+ 1	—	—	—	—	
Titibu		6·1	202	e 1	44	+14	e 2	47	+ 8	—	—	—	—	
Tokyo		6·2	197	e 1	31	0	2	42	+ 1	—	—	—	—	
Toyama		6·2	218	e 1	33	+ 2	—	—	—	—	—	—	e 3·3	
Yokohama		6·5	197	e 1	36	+ 1	e 3	3	+14	—	—	—	—	
Kohu		6·6	205	e 1	38	+ 1	e 2	53	+ 2	—	—	—	—	
Ajiro		7·0	200	e 2	14	?	e 2	53	- 8	—	—	—	—	
Mera	N.	7·0	194	—	—	—	e 2	49	-12	—	—	—	—	
Misima	N.	7·0	201	e 1	51	+ 9	e 2	59	- 2	—	—	—	—	
Shizuoka	Z.	7·3	204	e 1	50	+ 4	e 3	21	+12	—	—	—	—	
Gihu		7·5	214	e 1	42	- 7	—	—	—	—	—	—	—	
Nagoya	E.	7·6	212	e 1	56	+ 6	e 3	56	SSS	—	—	—	—	
Ibukisan	E.	7·7	216	e 1	42	-10	—	—	—	—	—	—	—	
Omaesaki		7·7	204	e 2	15	+23	i 3	39	+20	e 3	18	z	—	
Hikone		7·8	217	1	52	- 1	3	30	+ 9	—	—	—	—	
Kameyama		8·1	214	e 2	1	+ 4	e 3	32	+ 4	—	—	—	—	
Kyoto		8·3	218	e 2	2	+ 2	e 3	43	+10	—	—	—	—	

Continued on next page.

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1955

703

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Nara		8.5	216	e 2 4	+ 1	e 3 43	+ 5	—	—
Takamatu		9.6	223	c 2 18	0	—	—	—	—
Hong Kong	z.	30.3	239	6 5 <sub>a</sub>	- 2	—	—	—	—
Dehra Dun		51.8	279	e 8 50	-13	—	—	—	—
Resolute Bay		58.0	15	e 9 46	- 2	—	—	—	e 37.1
Quetta		60.0	285	i 10 1 <sub>a</sub>	- 1	e 18 10	+ 2	—	—
Kiruna	z.	62.3	339	i 10 16 <sub>a</sub>	- 2	—	—	—	—
Hungry Horse		68.1	44	i 10 55	0	—	—	—	—
Mineral	z.	68.7	55	e 10 58	- 1	—	—	—	—
Upsala	z.	69.0	334	i 10 59	- 2	—	—	i 11 15	pP
Butte	N.	70.4	46	e 11 9	0	—	—	—	—
Bozeman		71.4	45	e 11 16	+ 1	—	—	—	—
Fresno	z.	72.0	57	e 11 37	pP	—	—	—	—
Eureka		72.6	52	i 11 21	- 1	—	—	—	—
Woody	z.	73.3	57	i 11 25	- 1	—	—	i 11 47	pP
Salt Lake City		74.2	49	e 11 48	pP	—	—	e 14 50	PP
Pasadena	z.	74.7	58	e 11 36	+ 2	—	—	e 11 53	pP
Riverside	z.	75.3	58	e 11 36	- 2	—	—	e 11 58	pP
Boulder City		75.6	55	e 11 41	+ 1	—	—	—	—
Palomar	z.	76.1	58	e 11 55	pP	—	—	—	—
Barratt	z.	76.6	58	e 11 37	- 8	—	—	e 12 6	pP
Collmberg	z.	77.3	330	e 11 48	- 1	—	—	—	—
Jena	z.	78.1	330	e 11 53	- 1	—	—	—	—
Ksara		78.8	305	e 11 58	+ 1	—	—	—	—
Jerusalem		80.6	304	i 11 56	-11	—	—	—	—
Tucson		80.6	55	e 12 7	0	—	—	—	—
Uccle		80.7	334	—	—	e 23 35	pPS	—	—
Stuttgart		80.8	330	i 12 7 <sub>a</sub>	- 1	—	—	e 12 26	pP
Strasbourg		81.4	331	e 12 12	+ 1	—	—	—	—
Triest		81.5	326	e 12 6	- 6	e 22 15	- 2	e 15 11	PP
Seven Falls		86.9	22	e 12 38	- 1	—	—	—	—
Ottawa		87.0	26	i 12 40 <sub>k</sub>	+ 1	—	—	—	—
Fayetteville		87.1	42	i 12 39	- 1	—	—	—	—

Dec. 31d. 21h. 25m. 25s. Epicentre 33°·9N. 135°·5E. Depth of focus 20-30km.

Intensity IV at Wakayama; II-III at Owase and Tu.

*Loc. cit.*, note to 21d. 16h., pp. 17, 18, with macroseismic chart.

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

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A digital hypocenter file of the ISS (Villaseñor and Engdahl, 2005) can be obtained from the USGS web site: <http://earthquake.usgs.gov/scitech/iss/>

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Villaseñor, A., and E.R. Engdahl, *A digital hypocenter catalog for the International Seismological Summary*, Seism. Res. Lett., vol. 76, no. 5, pp. 554-559, 2005.

Villaseñor, A., E.A. Bergman, T.M. Boyd, E.R. Engdahl, D.W. Frazier, M.M. Harden, J.L. Orth, R.L. Parkes, and K.M. Shedlock, *Toward a comprehensive catalog of global historical seismicity*, Eos Trans. AGU, vol. 78, no. 50, pp. 581, 583, 588, 1997.