

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.

1956 October, November, December.

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

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 1956 contains 92 epicentres, of which 40 have been attributed to abnormal focal depth.

January, 1964.

**KEW OBSERVATORY,
Richmond,
SURREY.**

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1956

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1956 OCTOBER, NOVEMBER, DECEMBER.

Oct. 2d. 14h. 56m. 30s. Epicentre 53°·09N. 159°·58E. Depth of focus = 0·006R.

A = -0·5652, B = +0·2104, C = +0·7977; $\delta = +4$; $h = -7$;
D = +0·349, E = +0·937; G = -0·748, H = +0·278, K = -0·603.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Petropavlovsk	0·6	274	i 0 12	- 3	i 0 22	- 5	—	—
Klyuchi	3·3	12	e 0 53	+ 2	i 1 34	+ 5	i 1 12	sP
Magadan	8·1	326	i 1 58	+ 1	i 3 38	+10	i 2 16	sP
Kurilsk	11·0	229	i 2 32	- 4	i 4 38	0	i 2 50	sP
Uglegorsk	11·7	257	i 2 49	+ 3	i 5 7	+11	i 3 9	sP
Yuzno-Sakhlinsk	12·4	247	i 2 56	0	i 5 18	+ 5	i 3 16	sP
Nemuro	13·5	229	e 3 4	- 5	e 5 27	-11	—	—
Abashiri	13·6	234	e 3 16	+ 6	—	—	—	—
Kusiro	14·3	231	e 3 19	- 1	e 5 46	-11	—	—
Obihiro	z. 14·9	234	e 3 30	+ 2	—	—	—	—
Urakawa	15·7	232	e 3 32	- 6	e 6 19	-11	—	—
Sapporo	15·7	238	e 3 37	- 1	e 6 48	+18	e 3 53	PP
Mori	E. 16·8	237	e 3 51	- 1	—	—	—	—
Aomori	17·7	234	—	—	e 7 4	-12	e 7 41	SS
Morioka	18·4	231	e 4 8	- 3	e 7 17	-13	—	—
Mizusawa	18·9	230	4 13	- 3	e 7 30	-11	—	—
Akita	z. 18·9	232	e 4 32	PP	—	—	—	—
Sendai	19·7	228	i 4 24	- 1	e 8 0	+ 2	—	—
Yamagata	19·9	230	e 4 24	- 4	—	—	—	—
Hukusima	20·3	228	e 4 31	- 2	—	—	—	—
Niigata	20·8	231	e 4 38	0	—	—	—	—
Shirakawa	20·9	228	e 4 44	+ 5	e 8 3	-19	—	—
Aikawa	21·1	233	i 4 40	0	—	—	—	—
Utunomiya	21·5	228	e 4 44	0	e 8 35	+ 1	e 5 26	PP
Takada	21·8	231	e 4 49	+ 1	—	—	—	—
Maebasi	22·0	229	e 4 49	0	e 8 49	+ 6	e 5 26	PP
Kumagaya	22·1	228	e 4 53	+ 2	—	—	—	—
Nagano	N. 22·2	231	e 4 52	+ 1	e 8 52	+ 6	—	—
Wazima	22·3	234	e 4 54	+ 2	e 8 55	+ 8	—	—
Matusiro	22·3	231	i 4 50 _a	- 2	i 8 46	- 1	—	10·4
Oiwake	22·3	230	e 4 54	+ 2	—	—	—	—
Tokyo	N. 22·3	227	e 4 52	0	e 8 27	-21	—	—
Toyama	22·6	233	e 4 56	0	—	—	—	—
Matumoto	22·7	231	4 56	- 1	e 9 0	+ 4	—	—
Kohu	22·9	229	e 4 58	0	e 8 59	+ 1	—	—
Hunatu	22·9	228	e 4 59	+ 1	e 9 9	+11	—	—
Misima	23·1	227	e 5 0	0	e 9 6	+ 4	—	—
Iida	23·3	230	e 5 2	- 1	—	—	—	—
Hukui	23·6	233	e 5 6	0	—	—	—	—
Omaesaki	23·9	228	i 5 18	+10	e 9 24	+ 8	—	—
Gihu	23·9	231	e 5 8	0	i 9 18	+ 2	—	—
Nagoya	E. 24·0	231	e 5 18	+10	—	—	—	—
Hikone	24·3	232	e 5 11	0	9 30	+ 8	—	—
Changchun	24·3	262	5 10	- 2	e 9 20	- 2	—	—
Kameyama	24·5	231	e 5 14	0	—	—	—	—
Kyoto	24·7	232	5 14	- 1	9 35	+ 6	—	—
Toyooka	24·7	235	e 5 14	- 2	—	—	—	—
Osaka	25·1	232	e 5 20	+ 1	—	—	—	—
Sumoto	25·7	233	e 5 24	- 2	—	—	—	—
Tokusima	26·0	233	e 5 28 _a	0	e 9 54	+ 3	—	—
Takamatu	26·1	234	e 5 28	0	e 9 55	+ 3	—	—
Koti	27·0	234	e 5 38	+ 2	e 10 0	- 6	—	—
Ooita	28·2	236	i 5 55	+ 6	—	—	—	—
College	28·6	45	e 5 50	- 1	i 10 36	+ 3	e 7 43	PPP
Saga	N. 28·8	238	i 5 56 _a	+ 3	—	—	—	i 12·7

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Kumamoto	29.0	237	e 5	54	- 2	—	—	—	—	—	—
Miyazaki	29.3	235	e 6	2	+ 4	—	—	—	—	—	—
Kagosima	30.0	236	e 6	4	0	—	—	—	e 6	43	PP
Yakusima	31.0	235	e 6	11	- 3	—	—	—	—	—	—
Peking	32.1	264	e 6	23	+ 1	—	—	—	—	—	—
Irkutsk	32.8	291	6	26 _a	- 2	e 14	6	SSS	e 6	42	pP
Tatung	33.8	266	e 6	40	+ 4	—	—	—	—	—	—
Zô-Sè	35.4	247	e 6	47	- 3	—	—	—	—	—	—
Nanking	36.0	251	e 6	55 _k	0	—	—	—	—	—	—
Sitka	36.2	57	i 6	59	+ 1	—	—	—	—	—	—
Resolute	43.4	22	i 7	57 _a	0	e 14	4	-15	e 17	32	ScS
Canton	46.0	248	i 8	16 _k	- 2	e 14	53	- 3	—	—	—
Hong Kong	46.1	246	i 8	15 _a	- 4	e 14	58	0	—	—	—
Horseshoe Bay	46.3	62	i 8	19	- 1	—	—	—	—	—	—
Victoria	46.7	63	e 8	24	+ 1	15	12	+ 6	—	—	—
Semipalatinsk	46.8	300	e 8	21	- 3	—	—	—	—	—	—
Baguio City	47.6	235	i 8	30	0	i 15	20	+ 1	—	—	—
Seattle	47.8	63	i 8	35	+ 3	—	—	—	e 10	45	PP
Manila	49.0	233	i 8	41	0	i 15	38	- 1	—	—	—
Banff	49.2	56	i 8	54	+12	—	—	—	—	—	—
Hungry Horse	51.7	58	i 9	1	- 1	e 39	9	P'P'	9	14	pP
Sverdlovsk	52.1	316	9	2	- 2	16	19	- 2	e 16	49	PS
Shasta	52.2	70	i 9	6 _k	+ 1	—	—	—	—	—	—
Ukiah	52.8	72	e 9	12	+ 3	—	—	—	—	—	—
Mineral	52.9	70	i 9	2	-10	—	—	—	9	11	pP
Butte	54.0	59	e 9	19	0	—	—	—	—	—	—
Berkeley	54.2	72	e 9	20	0	e 16	56	+ 7	—	—	—
Reno	54.4	70	e 9	23 _a	+ 1	e 17	0	+ 7	i 9	36	pP
Frunse	54.6	296	i 9	21	- 2	i 17	23	PS	e 10	23	PcP
Sodankyla	54.8	340	i 9	22	- 2	i 11	30	PP	i 9	44	pP
Lick	54.9	73	i 9	25 _k	0	—	—	—	i 9	38	pP
Kiruna	55.6	342	i 9	28	- 2	i 17	6	- 3	i 10	27	PcP
Fresno	56.3	72	e 9	36 _k	0	—	—	—	—	—	—
Eureka	56.6	67	i 9	37	0	e 17	11	-11	i 10	5	pP
Shillong	56.7	269	9	35 _a	- 3	i 17	19	- 4	10	41	PcP
Scoresby Sund	56.7	1	i 9	38	0	e 17	23	0	—	—	30.5
Tinemaha	57.0	71	i 9	40	0	i 17	37	+10	e 12	10	PP
King Ranch	57.4	73	e 9	46	+ 3	—	—	—	—	—	—
Rabaul	57.4	189	i 9	41	- 2	e 17	37	+ 3	i 9	52	pP
Woody	57.6	72	i 9	44	- 1	e 19	18	P'P'	i 9	59	pP
Isabella	57.9	72	i 9	45	- 1	e 17	17	-22	i 10	0	pP
Salt Lake City	58.0	64	e 9	46	- 1	—	—	—	e 39	18	P'P'
Tashkent	58.5	298	i 9	47	- 4	e 18	40	PPS	e 19	27	ScS
Chatra	58.6	274	i 9	49	- 4	—	—	—	—	—	—
Pasadena	59.1	73	i 9	54	- 1	i 18	0	+ 5	i 10	6	pP
Riverside	59.7	73	i 9	59	0	i 18	7	+ 5	i 10	13	pP
Boulder City	59.7	70	i 10	0	+ 1	—	—	—	i 10	54	PcP
Rapid City	60.1	56	i 10	2	0	i 18	12	+ 5	i 10	15	pP
Pulkovo	60.3	333	i 10	3	0	e 18	10	0	e 19	47	ScS
Palomar	60.5	73	i 10	3	- 1	e 18	21	+ 9	e 10	47	PcP
Stalinabad	60.8	296	i 10	7	+ 1	—	—	—	—	—	—
Skalstugan	60.9	344	i 10	6 _a	- 1	—	—	—	i 10	31	PcP
Hayfield	60.9	72	i 10	7	0	e 39	32	P'P'	i 10	21	pP
Barrett	61.0	73	i 10	8	0	i 18	26	+ 6	i 10	22	pP
Dehra Dun	61.5	283	e 10	5	- 6	e 18	15	-10	e 23	3	SS
Moscow	61.5	327	10	9 _a	- 2	18	29	+ 4	—	—	—
Boulder	62.0	60	e 10	16	0	—	—	—	—	—	—
Lahore	62.7	287	10	17	- 3	—	—	—	—	—	—
Reykjavik	63.1	1	e 10	23	+ 1	—	—	—	—	—	—
Upsala	63.3	340	i 10	21 _a	- 2	i 18	48	0	i 10	39	pP
Tucson	64.7	70	e 10	33	+ 1	e 18	53	-12	e 14	55	?
Ashkabad	66.7	302	i 10	43	- 2	e 19	30	+ 1	i 13	11	PP
Kirkland Lake	67.2	39	e 10	47	- 1	—	—	—	e 10	58	pP
Quetta	68.0	291	i 10	51 _a	- 2	e 19	43	- 2	e 11	8	pP
Copenhagen	68.3	341	i 10	55	0	e 19	53	+ 5	e 20	21	PS

Continued on next page.

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	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Lubbock	68.6	62	e 10	56	- 1	—	—	—	—	—	—
Warsaw	69.5	334	i 11	2	0	i 20	22	+20	e 11	35	PcP e 30.5
Tiflis	70.2	314	i 11	5	- 1	e 20	58	ScS	20	42	PS
Florissant	70.4	51	e 11	6	- 2	e 20	13	0	11	22	pP
St. Louis	70.6	51	i 11	7k	- 2	i 20	17	+ 2	e 11	19	pP
Fayetteville	70.7	56	i 11	9	- 1	—	—	—	e 11	18	pP
Hamburg	70.7	341	i 11	11	+ 1	—	—	—	—	—	—
Lwow	70.8	331	i 11	10	- 2	e 20	22	+ 2	i 11	27	PcP
Ottawa	71.1	38	e 11	11a	- 1	—	—	—	13	48	PP
Shawinigan Falls	71.2	35	i 11	12a	0	13	51	PP	11	39	pP
Goris	71.3	311	i 11	13	0	i 20	26	+ 3	11	31	PcP
Seven Falls	71.3	34	e 11	1k	-12	—	—	—	—	—	—
Simferopol	71.8	322	11	14	- 2	—	—	—	—	—	—
Brébeuf	71.8	36	i 11	15a	- 1	—	—	—	—	—	—
Iasi	72.0	328	e 11	18	0	—	—	—	—	—	—
Witteveen	72.1	343	i 11	20	+ 2	—	—	—	—	—	—
Cleveland	72.1	44	i 11	18k	0	—	—	—	i 11	29	pP
Poona	72.9	278	i 11	20	- 4	—	—	—	—	—	—
Jena	72.9	340	i 11	23	0	e 20	45	+ 3	e 14	14	PP
De Bilt	73.0	344	e 11	24	+ 1	e 21	10	+27	—	—	40.5
Prague	73.1	337	i 11	26	+ 2	—	—	—	i 11	45	PcP
Bombay	73.2	279	e 11	23	- 1	e 20	44	- 1	e 21	51	PS
Rathfarnham Castle	73.3	351	i 11	24a	- 1	—	—	—	e 11	45	pP
Lembang	74.0	234	i 11	31k	+ 2	—	—	—	—	—	—
Bratislava	74.2	335	i 11	32	+ 2	i 11	54	pP	14	26	PP
Morgantown	74.3	44	i 11	32	+ 1	21	35	+37	—	—	—
Kew	74.4	347	i 11	31	- 1	—	—	—	—	—	e 36.5
Campulung	74.6	328	e 11	35	+ 3	—	—	—	—	—	—
Bucharest	75.0	327	e 11	35	0	e 21	38	PS	—	—	39.5
Timisoara	75.3	331	e 11	39	+ 2	e 21	30?	PS	—	—	e 40.0
Weston	75.3	36	i 11	37	0	—	—	—	—	—	—
Nouméa	75.3	173	e 11	40	+ 3	—	—	—	—	—	—
Karlsruhe	75.4	341	i 11	38a	+ 1	—	—	—	i 11	53	pP
Stuttgart	75.4	340	i 11	37a	0	e 21	9	- 1	e 11	50	pP
Palisades	75.5	39	i 11	37	- 1	e 21	5	- 6	i 11	50	pP e 35.3
Halifax	75.9	30	e 11	36	- 4	—	—	—	—	—	—
Strasbourg	75.9	341	i 11	41	+ 1	e 21	19	- 4	i 11	58	pP
Ebingen	76.1	340	e 11	42	+ 1	—	—	—	—	—	—
Washington	76.1	42	i 11	52	+11	—	—	—	—	—	—
Paris	76.6	345	i 11	44	0	e 20	48	-35	i 12	2	pP
Zürich	76.9	340	e 11	46	0	—	—	—	—	—	—
Basle	77.0	341	e 11	47k	+ 1	e 21	21	- 6	—	—	—
Triest	77.4	336	i 11	48a	0	e 21	34	+ 3	i 12	12	pP
Sofia	77.4	328	i 11	56	+ 7	—	—	—	—	—	37.6
Besançon	77.5	342	i 11	49	0	—	—	—	i 12	12	pP
Neuchatel	77.6	341	i 11	50	+ 1	—	—	—	—	—	—
Chapel Hill	77.8	45	i 11	49	- 3	—	—	—	i 12	40	?
Clermont-Ferrand	79.5	344	i 12	1a	+ 1	e 21	57	+ 3	—	—	—
Prato	79.7	337	e 12	7	+ 6	e 21	40	-16	—	—	—
Florence	79.7	337	e 12	1	0	e 22	1	+ 5	i 12	19	pP e 39.5
Brisbane	80.4	186	i 12	5	0	—	—	—	12	17	pP
Ksara	80.6	315	i 12	7	+ 1	e 22	18	+13	i 12	29	pP
Monaco	80.6	340	i 12	6a	0	e 12	42	sP	e 12	30	pP
Rome	81.2	336	i 12	9k	0	e 22	13	+ 1	e 15	0	PP
Tacubaya	81.2	70	i 12	10	+ 1	—	—	—	i 13	29	?
Taranto	81.3	332	12	18	+ 9	22	38	+25	e 26	0	?
Safed	81.5	315	i 12	10	- 1	—	—	—	—	—	40.1
Jerusalem	82.6	315	i 12	14	- 2	—	—	—	i 12	28	pP
Messina	83.9	332	i 12	22k	- 1	e 22	37	- 2	i 12	38	pP
Reggio Calabria	83.9	332	e 12	14	-10	—	—	—	—	—	39.5
Toledo	86.3	347	i 12	36a	+ 1	e 23	6	+ 3	—	—	—
Bermuda Navy	86.6	36	i 12	32	- 5	i 22	44	[-12]	—	—	e 45.2
Riverview	86.9	187	i 12	38	+ 1	23	15	+ 7	22	56	SKS
Alicante	87.3	344	12	33	- 7	i 23	19	+ 7	28	52	SS
Algiers Univ.	88.2	341	e 12	43	- 1	—	—	—	—	—	e 41.4

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Granada	88.9	347	i 12 50 _k	+ 3	i 23 34	+ 7	24 14 PS	42.9
Malaga	89.5	347	i 12 51 _k	+ 1	e 23 37	+ 5	i 16 31 PP	—
Relizane	89.7	343	e 12 51	0	—	—	—	—
Melbourne	91.4	192	i 12 59	0	e 23 26	[+ 1]	e 14 51 ?	—
San Juan	98.6	43	e 13 33	+ 1	—	—	e 17 33 PP	—
Tamanrasset	101.2	336	e 13 43	0	e 24 22	[+ 5]	e 13 58 pP	—
Astrida	115.0	302	e 18 35	[+ 3]	—	—	—	—
Lwiro	115.1	303	e 18 36	[+ 2]	—	—	—	—
La Paz	127.9	64	e 19 4	[+ 5]	—	—	i 21 2 PP	—
Pretoria	134.8	288	i 19 12	[+ 2]	—	—	i 22 42 PP	—
Pietermaritzburg z.	136.4	282	i 19 18	[+ 5]	—	—	—	—
Kimberley z.	139.0	288	e 19 8	[-10]	—	—	—	—
Santa Lucia z.	139.4	82	i 19 17	[- 3]	—	—	19 34 pP'	—
Grahamstown z.	141.3	282	i 19 16	[- 6]	—	—	—	—

Oct. 3d. 8h. 18m. 47s. Epicentre 20°·09S. 69°·38W. Depth of focus = 0·009R.

A = +0·3310, B = -0·8797, C = -0·3414; δ = -1; h = +5;
D = -0·936, E = -0·352; G = -0·120, H = +0·320, K = -0·940.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Antofagasta	3.7	195	e 0 55	- 1	i 1 21	-17	—	—
La Paz	3.8	19	i 1 0	+ 3	i 1 45	+ 4	i 1 11 PP	2.1
Copiapo	7.3	187	e 1 18	-28	i 3 1	- 7	—	—
Huancayo	9.8	323	i 2 20	0	e 4 15	+ 5	11 29 ScP	—
Santa Lucia	13.3	185	i 3 5	- 2	5 51	SS	—	—
Buenos Aires	17.4	148	4 0	+ 2	7 28	+21	—	—
Bogota	25.0	349	i 5 20	+ 3	i 9 38	+ 7	i 5 56 sP	—
Chinchina	25.6	345	i 5 23	0	i 9 47	+ 5	i 5 46 pP	—
Balboa Heights	30.5	340	e 7 35	PPP	—	—	—	—
Trinidad	31.5	15	e 6 16	0	—	—	—	—
St. Vincent	34.0	14	e 6 34	- 3	—	—	—	—
Fort de France	35.5	14	i 6 48	- 2	—	—	i 7 13 pP	—
Dominica	36.0	13	e 7 13	+18	—	—	—	—
Ciudad Trujillo	38.3	359	i 7 12	- 2	i 13 8	+ 7	—	—
San Juan	38.4	5	e 7 9	- 5	i 12 52	-10	i 7 35 pP	e 15.6
Merida	45.3	333	i 8 7 _a	- 4	e 14 19	-25	e 8 43 sP	—
Vera Cruz	47.0	324	i 8 32	+ 8	e 15 15	+ 7	e 9 8 sP	—
Tacubaya	48.9	321	i 8 42 _a	+ 3	e 15 38	+ 3	e 10 40 PP	—
Bermuda Navy	52.2	5	(16 18)	S	i 16 18	0	16 57 PS	e 31.2
Columbia	54.9	348	i 9 23	- 1	e 16 52	- 5	i 9 48 pP	e 22.7
Chapel Hill	56.4	351	i 9 31	- 4	—	—	e 9 57 pP	—
Washington	59.1	353	i 9 52	- 2	e 18 15	PS	i 10 17 pP	—
Morgantown	60.2	351	10 1	0	18 7	+ 1	—	—
Fayetteville	60.6	337	i 10 2	- 1	—	—	—	—
Palisades	60.9	356	i 10 4	- 2	i 18 16	+ 1	i 10 30 pP	e 28.8
St. Louis	61.6	341	i 10 8 _a	- 3	18 20	- 4	10 33 pP	—
Lubbock	61.7	329	i 10 9	- 2	—	—	e 10 34 pP	—
Florissant	61.8	341	e 10 12 _a	0	18 24	- 2	e 10 37 pP	—
Weston	62.2	358	i 10 13	- 2	—	—	—	—
Cleveland	62.3	350	i 10 14 _k	- 1	i 18 29	- 3	i 10 39 pP	—
Halifax	64.6	5	i 10 23 _a	- 7	—	—	10 48 pP	—
Ottawa	65.4	355	e 10 33 _a	- 3	19 13	+ 2	19 55 sS	—
Tucson	65.4	322	i 10 41	+ 5	e 39 54	P'P'	e 11 6 pP	—
Shawinigan Falls	66.4	357	i 10 40 _k	- 2	—	—	11 17 sP	—
Seven Falls	66.9	359	i 10 31 _a	-14	19 17	-12	20 1 sS	—
Boulder	68.5	331	e 10 55	0	—	—	—	—
Kirkland Lake	68.6	352	i 10 53 _k	- 2	i 11 30	sP	i 11 18 pP	—
Barratt	69.3	318	i 11 1 _k	+ 1	i 20 3	+ 6	i 11 26 pP	—
Hayfield N.	69.3	320	i 11 0	0	—	—	i 11 38 sP	—
Palomar z.	69.8	319	i 11 3 _k	0	i 11 22	PcP	i 11 30 pP	—
Boulder City	70.4	322	i 11 7	0	e 20 27	+16	i 11 32 pP	—
Riverside	70.6	319	i 11 8 _k	0	20 17	+ 4	11 34 pP	—
Rapid City E.	71.0	335	i 11 10	0	e 21 29	ScS	i 11 36 pP	—
Pasadena	71.2	319	i 11 11 _k	0	i 20 24	+ 4	i 11 36 pP	—
Salt Lake City	72.3	327	i 11 17	- 1	i 11 54	sP	i 11 43 pP	—

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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		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Isabella	z.	72.3	320	i 11	18	0	i 11	35	PcP	i 11	44	pP	—
Woody	z.	72.6	320	i 11	20k	0	i 11	36	PcP	i 11	46	pP	—
King Ranch	z.	72.9	319	11	20k	- 1	—	—	—	11	46	pP	—
Tinemaha		73.1	321	11	24k	+ 1	e 20	47	+ 5	i 11	49	pP	—
Eureka		73.5	324	i 11	26	+ 1	e 39	13	P'P'	i 11	52	pP	—
Fresno		73.9	320	e 11	26k	- 1	—	—	—	e 12	4	pP	—
Lick		75.4	319	i 11	37k	+ 1	12	14	sP	12	2	pP	—
Reno		75.7	322	i 11	39k	+ 1	i 12	16	sP	i 12	4	pP	—
Berkeley		76.1	319	i 11	40k	0	22	3	PS	i 12	6	pP	—
Butte	N.	76.5	331	i 11	44	+ 2	i 12	22	sP	i 12	9	pP	—
Mineral		77.3	322	i 11	46k	0	—	—	—	i 12	24	pP	—
Ukiah		77.5	320	i 11	49	+ 2	—	—	—	i 12	14	pP	—
Shasta		78.0	322	i 11	49k	- 1	—	—	—	e 12	15	pP	—
Hungry Horse		78.9	331	i 11	56	0	e 15	27	PP	i 12	21	pP	—
Lisbon	z.	81.2	43	e 12	33a	pP	—	—	—	—	—	—	—
Banff		81.7	333	i 12	16	+ 6	—	—	—	—	—	—	—
Seattle		82.4	327	i 12	15	+ 1	—	—	—	e 13	13	sP	—
Malaga		83.3	47	i 12	20a	+ 1	i 22	32	+ 2	15	24	PP	—
Victoria		83.6	327	i 12	19	- 1	i 22	0	- 33	i 12	57	pP	—
Grahamstown	z.	84.0	123	i 12	19	- 3	—	—	—	—	—	—	—
Horseshoe Bay		84.1	328	i 12	21	- 1	—	—	—	i 12	59	pP	—
Kimberley	z.	84.1	118	i 12	20	- 2	—	—	—	—	—	—	—
Granada		84.1	47	i 12	29k	+ 7	i 22	40	+ 2	12	51	pP	—
Tamanrasset		84.6	63	i 12	24	- 1	e 22	43	0	e 12	51	pP	—
Almeria		84.7	48	12	48	+ 22	—	—	—	—	—	—	—
Toledo		85.2	45	i 12	25k	- 3	i 22	45	- 4	i 12	53	pP	—
Relizane		86.3	50	e 12	34	+ 1	—	—	—	e 13	1	pP	—
Alicante		86.8	47	12	26	- 10	e 22	51	[+ 2]	15	53	PP	—
Pretoria	z.	87.9	116	i 12	40	- 1	—	—	—	—	—	—	—
Mirny		92.6	173	—	—	—	i 23	56	- 1	e 30	16	SS	—
Resolute Bay		95.9	353	e 17	13	PP	e 24	28	+ 2	e 30	37	SS	39.4
Pavia		96.3	44	—	—	—	e 26	3	PS	—	—	—	—
Lwiro		96.9	95	e 13	25	+ 2	—	—	—	—	—	—	—
Florence		97.2	46	17	19	PP	26	51	PPS	—	—	—	—
Stuttgart		97.6	41	e 13	35	+ 9	e 29	13	PKKP	e 13	50	pP	—
Astrida		97.7	96	e 13	53	+ 27	—	—	—	e 17	19	PP	—
Messina		98.3	52	13	56	pP	23	54	[- 3]	26	19	PS	—
Jena		99.8	39	13	45	+ 9	—	—	—	e 14	20	pP	—
College		103.2	335	i 13	48	- 3	—	—	—	i 18	0	PP	—
Upsala		105.7	32	i 18	18	[+ 7]	—	—	—	i 19	28	PP	—
Lwow		107.2	43	e 19	1	PP	—	—	—	—	—	—	—
Jerusalem		112.4	63	e 19	11	PP	—	—	—	—	—	—	—
Ksara		113.3	61	e 18	23	[- 4]	—	—	—	i 19	17	PP	—
Simferopol		113.3	49	e 19	16	PP	—	—	—	—	—	—	—
Riverview	z.	113.9	216	i 18	14a	[- 15]	—	—	—	—	—	—	—
Moscow		115.9	37	e 20	0	PP	—	—	—	—	—	—	—
Tiflis		121.0	53	e 20	17	PP	—	—	—	—	—	—	—
Goris		122.1	55	e 20	19	PP	—	—	—	—	—	—	—
Petropavlovsk		130.6	324	e 19	2	[+ 1]	—	—	—	—	—	—	—
Ashkabad		131.6	57	i 21	23	PP	i 28	9	SKKS	i 22	21	PKS	—
Rabaul		132.6	244	e 19	4	[- 1]	e 22	23	PKS	19	33	pP'	—
Tashkent		139.1	49	e 19	17	[0]	—	—	—	—	—	—	—
Quetta		139.4	67	19	19	[+ 2]	e 26	30	[+ 13]	e 19	45	pP'	—
Stalinabad		139.5	54	—	—	—	e 22	38	SKP	—	—	—	—
Frunse		142.2	45	e 19	7	[- 15]	e 22	52	PKS	i 29	16	SKKS	—
Yuzno-Sakhlinsk		142.6	323	i 19	20	[- 3]	—	—	—	e 22	36	PP	—
Poona	z.	145.3	86	i 19	28	[0]	—	—	—	19	55	pP'	—
Guam		146.7	264	i 19	31	[+ 1]	—	—	—	—	—	—	—
Irkutsk		147.5	7	e 19	32	[+ 1]	e 23	7	PKS	—	—	—	—
Dehra Dun		148.9	64	e 19	44	[+ 11]	e 23	37	PKS	e 20	30	pP'	—
Matusiro		150.8	310	19	38a	[+ 2]	33	38	SKSP	i 20	11	PKP ₂	69.7
Vladivostok		150.9	327	e 19	43	[+ 7]	—	—	—	—	—	—	—
Lembang	z.	153.1	173	e 19	36	[- 4]	e 23	33	PP	e 20	2	pP'	—
Shillong	z.	161.9	69	e 19	51	[+ 1]	—	—	—	—	—	—	—
Hong Kong		176.0	304	e 29	39	PPP	—	—	—	—	—	—	—

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Oct. 8d. 14h. 55m. 49s. Epicentre 20°·35S. 173°·74W.

A = -0.9327, B = -0.1024, C = -0.3457; δ = -8; h = +5;
D = -0.109, E = +0.994; G = +0.344, H = +0.038, K = -0.938.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Apia		6.8	16	e 1 38	- 6	e 2 52	-11	—	e 3.2
Suva	N.	7.7	285	i 2 1	+ 5	i 4 4	-10 _r	e 2 48	P _r e 4.7
Nouméa		18.6	260	i 4 22	+ 2	—	—	—	—
Onerahi	E.	18.6	212	e 4 23	+ 3	e 7 56	+11	—	e 9.0
Auckland	N.	19.3	209	e 4 19	- 9	i 8 1	0	—	e 10.3
Karapiro	N.	19.8	206	e 4 32	- 3	8 16	+ 3	—	e 9.6
Wellington		23.0	203	e 5 7	- 1	e 9 11	- 4	i 5 19	? e 11.7
Cobb River	E.	23.6	206	e 5 20	+ 6	e 9 28	+ 2	—	—
Kaimata	N.E.	25.4	206	5 36	+ 6	e 10 7	+12	—	—
Christchurch		25.8	203	e 5 25	- 9	e 10 1	- 1	—	e 12.2
Brisbane		31.1	250	i 6 21	- 1	e 11 57	+29	—	—
Riverview		33.8	239	i 6 44 _a	- 2	i 12 11	+ 1	i 7 59	PP 15.3
Melbourne		39.7	235	i 7 33	- 3	e 13 19	-21	e 9 55	PcP e 16.4
Matusiro		72.5	321	i 11 29 _a	- 2	e 20 39	-16	21 22	ScS 36.8
Manila		72.9	293	e 11 30	- 3	—	—	e 12 20	? —
Baguio City		74.1	295	i 11 44	+ 4	—	—	—	—
King Ranch		75.4	43	e 11 49	+ 2	—	—	e 12 28	PcP —
Berkeley		75.4	40	e 11 47	0	e 21 30	+ 3	e 12 3	PcP e 36.2
Lick		75.5	40	e 11 47 _k	- 1	—	—	—	—
Pasadena		75.7	45	i 11 50	+ 1	i 21 33	+ 3	e 14 56	PP e 33.7
Ukiah		75.7	38	e 11 49	0	—	—	—	—
Barratt	Z.	75.8	47	11 50	0	—	—	i 12 16	PcP —
Palomar	Z.	76.1	46	i 11 50	- 1	—	—	12 15	PcP —
Riverside	Z.	76.1	45	i 11 51	0	e 21 42	+ 7	—	—
Fresno		76.3	42	e 11 52	0	—	—	—	—
Isabella	Z.	76.4	43	i 11 52	- 1	—	—	e 15 19	PP —
Lembang		77.0	267	i 11 56 _a	0	e 21 45	0	—	—
China Lake	Z.	77.1	44	i 11 56	- 1	—	—	—	—
Hayfield	N.	77.2	46	e 12 2	+ 5	—	—	—	—
Shasta		77.2	37	e 11 56	- 1	—	—	—	—
Tinemaha		77.4	42	i 11 59	0	i 21 53	+ 4	—	—
Mineral		77.5	38	11 58	- 1	—	—	—	—
Djakarta		78.0	268	11 59 _a	- 3	21 52	- 3	—	—
Reno		78.0	40	e 12 1 _k	- 1	—	—	—	—
Boulder City		79.0	45	i 12 6	- 1	—	—	i 12 54	? —
Tucson		79.7	50	e 12 13	+ 2	—	—	—	—
Eureka		80.3	42	i 12 13	- 1	—	—	—	—
Zô-Sè		80.7	308	12 16 _a	0	22 30	+ 6	—	—
Chihuahua		81.4	55	—	—	29 17	? —	—	—
Hong Kong		82.1	297	12 24 _a	0	e 22 43	+ 4	—	—
Nanking		82.9	308	12 28 _a	0	i 22 53	+ 6	—	—
Tacubaya		83.0	66	e 12 36	+ 8	—	—	—	—
Canton		83.2	297	12 30 _a	+ 1	22 57	+ 8	—	—
Salt Lake City		83.6	42	i 12 32	0	—	—	—	—
Butte	N.	86.1	38	e 12 44	0	—	—	—	—
College		87.3	11	i 12 46	- 4	e 23 11	-18	e 15 54	PP e 38.4
Peking		88.6	314	i 12 56 _a	0	23 52	+10	—	—
Rapid City	E.	90.8	43	e 13 6	0	—	—	—	e 47.3
Huancayo		93.6	104	i 13 20	+ 1	—	—	—	e 51.2
Fayetteville		93.7	53	—	—	e 24 23	- 4	—	—
La Paz		98.3	111	e 12 43	-58	24 27	[+ 8]	17 31	PP 47.9
Chinchina		99.3	88	—	—	24 26	[+ 2]	i 25 26	S 48.2
Bogota		100.6	89	—	—	i 24 31	[+ 1]	i 25 11	SKKS 49.2
Shillong		102.3	293	e 18 7	PP	24 37	[- 1]	—	—
Resolute		106.6	16	—	—	e 25 41	-34	e 33 36	SS e 47.0
Palisades		110.3	53	—	—	26 51	SKKKS	—	e 57.0
Bermuda Navy		116.2	63	e 19 51	PP	e 25 29	[- 7]	e 29 23	PS e 58.6
Qetta		124.8	293	e 19 4	[+ 2]	e 26 9	+ 4	e 30 47	PS —
Copenhagen		144.4	354	i 19 38	[0]	—	—	—	76.2
Durham		145.1	8	i 19 40	[+ 1]	—	—	i 23 36	PP —

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Rathfarnham Castle	145.7	13	i 19 41	[+ 1]	e 43 11	PSS	—	e 83.2
Warsaw	146.2	344	19 44	[+ 3]	i 20 9	PKP _s	e 23 0	e 36.2
Hamburg	z. 146.7	356	19 45	[+ 3]	—	—	e 20 22	?
Witteveen	147.6	359	e 19 47	[+ 4]	—	—	—	—
Iasi	148.1	332	i 19 51	[+ 7]	—	—	—	—
De Bilt	148.3	1	e 19 45	[0]	e 42 31	SS	—	e 79.2
Lwiro	148.5	227	19 48	[+ 3]	—	—	—	—
Kew	148.5	8	e 19 49	[+ 4]	42 39	SS	—	e 81.7
Jena	149.2	353	e 19 45	[- 1]	26 36	[-17]	23 28	PP
Prague	149.6	350	i 19 48	[+ 1]	—	—	e 23 21	PP
Ksara	150.5	303	i 19 49	[+ 1]	e 26 44	[-10]	20 17	PKP _s
Hurbanovo	150.9	343	e 19 54	[+ 5]	—	—	21 33	?
Bratislava	150.9	345	i 19 52	[+ 3]	i 23 30	PKS	i 19 59	PKP _s
Safed	151.1	302	i 19 52	[+ 3]	—	—	—	—
Karlsruhe	z. 151.4	357	e 19 52k	[+ 3]	i 19 59	PKP _s	23 40	PP
Paris	151.4	5	i 19 55	[+ 6]	e 42 54	SS	e 23 49	PP
Stuttgart	151.5	356	e 19 50	[0]	30 21	{- 5}	e 23 36	PP
Strasbourg	151.8	358	e 19 59	[+ 9]	e 42 59	SS	e 23 47	PP
Ebingen	152.1	356	e 19 51	[0]	—	—	e 20 0	PKP _s
Besançon	153.2	0	e 20 13	PKP _s	—	—	—	—
Clermont-Ferrand	154.5	5	e 20 21	PKP _s	e 43 31	SS	—	—
Florence	156.3	351	e 19 56	[0]	43 49	SS	e 23 49	PP
Toledo	z. 158.6	22	20 28	PKP _s	—	—	—	74.2
Alicante	161.1	17	20 15	[+13]	27 7	[+ 1]	23 35	PKS
Granada	161.2	25	20 7k	[+ 5]	31 40	{+21}	20 51	PKP _s
Malaga	161.2	27	i 20 5a	[+ 3]	27 3	[- 3]	i 24 29	PP
Almeria	161.9	23	e 20 2	[- 1]	—	—	—	87.4
Algiers Univ.	163.4	9	i 20 10	[+ 6]	—	—	e 21 13	PKP _s
Relizane	163.9	17	e 20 8	[+ 3]	e 25 31	PP	e 21 21	PKP _s
Tamanrasset	z. 177.5	16	e 20 14	[+ 2]	e 33 1	{+23}	e 22 2	PKP _s

Oct. 10d. 15h. 31m. 36s. Epicentre 28°-15N. 77°-67E.

A = +0.1885, B = +0.8626, C = +0.4694; δ = -5; h = +2;
D = +0.977, E = -0.214; G = +0.100, H = +0.459, K = -0.883.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
New Delhi	0.6	315	i 0 14	- 1	i 0 21	+ 1 _g	—	—
Dehra Dun	2.2	8	e 0 41a	+ 3	i 1 9	+ 3	0 46	P _g
Lahore	4.5	320	1 11	0	—	—	—	—
Bokaro	8.5	119	i 2 8k	+ 1	3 39	- 6	2 18	PPP
Chatra	8.5	97	i 2 0	- 8	i 3 39	- 7	—	—
Quetta	9.6	285	2 21	- 1	4 5	- 7	i 2 26	PP
Poona	10.2	201	e 2 32	+ 1	e 4 30	+ 3	—	—
Bombay	10.2	207	e 2 33	+ 2	e 4 36	+ 8	—	—
Hyderabad	E. 10.7	176	—	—	i 4 33	- 6	—	—
Shillong	12.9	98	i 3 3a	- 5	i 5 22	-12	3 15	PP
Madras	15.3	171	e 3 37	- 1	e 6 20	- 9	3 49	PP
Kodaikanal	17.8	181	—	—	e 7 25	- 4	—	—
Colombo	E. 21.2	174	—	—	e 8 50	+ 9	—	e 11.5
Sining	22.0	61	e 5 2	+ 4	e 8 59	+ 3	—	—
Wuwei	23.0	59	e 5 14	+ 6	e 9 19	+ 4	—	—
Lanchow	23.5	64	e 5 16	+ 4	e 9 24	+ 1	—	—
Peking	33.8	59	e 6 46	0	—	—	—	—
Ksara	36.1	290	e 7 6	+ 1	e 12 54	+ 9	e 8 30	PP
Jerusalem	36.8	286	i 7 13	+ 2	—	—	—	—
Sodankyla	49.6	337	i 8 54	- 1	i 10 48	PP	i 10 20	PcP
Matusiro	51.1	64	9 6k	0	e 16 20	- 4	20 15	SS
Upsala	51.1	326	i 9 5k	- 2	—	—	—	—
Kiruna	52.0	336	i 9 13k	0	—	—	—	—
Prague	52.0	313	i 9 14	0	—	—	10 20	PcP
Messina	52.1	298	i 9 14a	0	e 16 40	+ 2	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Jena	53.8	314	e 9 27	0	e 12 33	PPP	11 32	PP
Skalstugan	54.2	330	i 9 29k	- 1	—	—	—	—
Florence	54.6	305	i 9 30k	- 2	—	—	i 9 55	pP'
Tananarive	55.1	215	e 9 38k	+ 2	—	—	—	—
Stuttgart	55.5	312	i 9 38k	- 1	—	—	10 21	PcP
Ebingen	55.7	311	i 9 40	- 1	—	—	e 10 23	PcP
Lwiro	55.8	245	i 9 42	+ 1	—	—	—	—
Karlsruhe	z. 56.0	312	e 9 43k	0	—	—	e 12 0	PP
Strasbourg	56.5	312	e 9 46	0	—	—	e 11 36	PP
Basle	56.7	310	e 9 47	- 1	—	—	—	—
Neuchatel	57.2	310	i 9 51	0	—	—	—	—
Besançon	57.8	310	i 9 54	- 2	—	—	—	—
Paris	59.9	312	i 10 9	- 1	—	—	e 10 53	PcP
Clermont-Ferrand	60.0	309	i 10 9	- 2	—	—	—	—
Kew	61.2	316	i 10 18k	- 1	—	—	—	e 34.4
Relizane	64.3	298	e 10 39	- 1	—	—	e 12 28	?
Rathfarnham C.	z. 64.4	319	i 10 40k	- 1	—	—	—	—
Tamanrasset	64.5	283	i 10 40k	- 1	—	—	e 13 8	PP
Scoresby Sund	z. 66.9	339	e 10 56	0	—	—	—	—
Granada	67.1	301	i 11 21a	PcP	e 20 34	+43	13 33	PP
Pretoria	z. 71.7	226	i 11 27k	+ 1	—	—	—	—
Pietermaritzburg	z. 73.1	222	i 11 35a	+ 1	—	—	—	—
Kimberley	z. 75.9	226	i 11 51a	+ 1	—	—	—	—
Grahamstown	z. 78.0	222	i 11 34a	-28	—	—	—	—
Rabaul	78.4	101	e 12 5	+ 1	—	—	—	—
College	80.8	18	e 12 14	- 3	i 12 52	PcP	i 15 17	PP
M'Bour	87.3	285	i 12 51	+ 1	—	—	i 12 58	PcP
Melbourne	z. 91.0	133	i 13 8	+ 1	—	—	13 20	?
Hungry Horse	103.1	8	e 17 53	?	—	—	e 18 18	PP
Eureka	111.5	11	e 18 39	[+ 3]	—	—	i 19 19	PP
Chapel Hill	112.6	340	21 1	?	—	—	—	—
Boulder City	115.1	11	e 18 46	[+ 3]	—	—	—	—
Tucson	119.4	8	e 18 53	[+ 1]	—	—	—	—
La Paz	146.4	283	i 19 45	[+ 3]	—	—	e 23 4	PP

Oct. 11d. 2h. 24m. 35s. Epicentre 45°·88N. 150°·65E. Depth of focus = 0.009R.

A = -0.6089, B = +0.3424, C = +0.7155; δ = -6; h = -4;
D = +0.490, E = +0.872; G = -0.624, H = +0.351, K = -0.699.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Kurilsk	2.1	253	i 0 37	+ 3	i 1 2	+ 3	—	—
Nemuro	4.4	237	i 1 7a	+ 1	i 1 54	- 3	—	—
Abashiri	4.9	250	1 15	+ 2	i 2 10	+ 1	—	—
Kusiro	5.3	239	i 1 20k	+ 1	i 2 16	- 4	—	—
Yuzno-Sakhlinsk	5.6	284	i 1 28	+ 6	—	—	—	—
Obihiro	6.1	244	1 32a	+ 3	2 43	+ 5	—	—
Asahigawa	6.2	253	i 1 35k	+ 4	i 2 47	+ 5	—	—
Wakkanai	6.3	269	1 41	+ 9	e 2 53	+10	—	—
Ulegorsk	6.6	302	i 1 42	+ 5	—	—	—	—
Urakawa	6.8	239	i 1 40k	+ 1	i 2 50	- 5	—	—
Sapporo	7.2	250	i 1 47k	+ 2	1 3 4	- 2	8 46	PcP
Tomakomai	7.3	246	e 1 50	+ 4	e 3 9	0	—	—
Muroran	7.8	246	1 55	+ 2	3 14	- 7	—	—
Suttsu	8.1	251	e 2 0	+ 3	—	—	—	—
Mori	E. 8.2	246	2 0a	+ 2	3 24	- 6	2 9	PP
Hakodate	N. 8.3	244	i 1 59	0	1 3 20	-12	—	—
Hatinohe	8.5	234	e 2 0k	- 3	1 3 28	-10	—	—
Aomori	8.8	238	2 5a	- 1	e 3 35	- 9	—	—
Miyako	z. 8.9	229	e 2 5k	- 3	3 32	-15	—	—
Petropavlovsk	8.9	33	i 2 7	- 1	1 3 59	+11	—	—

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Morioka	9.3	232	i 2	11 ^k	- 2	e 3	46	-11	—	—	—
Mizusawa	9.7	229	2	16	- 3	3	57	-10	—	—	—
Akita	9.9	235	i 2	21 ^a	0	4	3	- 8	—	—	—
Isinomaki	10.2	226	e 2	21	- 4	4	7	-11	—	—	—
Sendai	10.5	227	e 2	26	- 3	i 4	17	- 9	3	45	?
Sakata	10.6	233	2	33	+ 2	4	23	- 5	—	—	—
Yamagata	10.8	229	e 2	30	- 3	i 4	20	-13	—	—	—
Hokusima	11.1	227	2	37 ^a	0	i 4	32	- 8	—	—	—
Onahama	11.5	223	e 2	35	- 8	e 4	36	-14	—	—	—
Shirakawa	11.7	225	2	45	- 1	4	54	- 1	e 15	27	ScS
Niigata	11.7	231	e 2	44	- 2	4	49	- 6	—	—	—
Aikawa	12.1	234	2	49	- 2	4	54	-10	—	—	—
Klyuchi	12.2	28	i 2	52	0	—	—	—	—	—	—
Mito	12.2	222	e 2	51	- 1	4	55	-13	—	—	—
Utunomiya	N. 12.3	225	e 2	52	- 2	e 4	58	-12	e 3	10	PP
Kakioka	E. 12.4	223	2	53	- 2	5	3	- 9	—	—	—
Tyosi	E. 12.6	219	e 2	56	- 1	5	4	-11	—	—	—
Takada	12.8	231	3	0	+ 1	5	16	- 4	e 15	25	ScS
Maebasi	12.9	227	2	59 ^a	- 2	e 5	14	- 8	3	16	PP
Kumagaya	12.9	225	e 3	2	+ 1	i 5	12	-11	—	—	—
Tokyo	13.1	223	e 3	2	- 2	e 5	17	-11	e 3	12	PP
Nagano	N. 13.1	230	e 3	4	0	e 5	12	-16	—	—	—
Oiwake	13.2	228	i 3	6	+ 1	e 5	26	- 4	—	—	—
Titibu	13.2	225	i 3	5	0	i 5	20	-10	—	—	—
Matusiro	13.2	229	i 3	3 ^a	- 2	5	22	- 8	15	25	ScS 6.3
Wazima	13.3	235	e 3	6	- 1	e 5	23	-10	—	—	—
Yokohama	13.3	222	e 3	9	+ 2	e 5	24	-10	—	—	—
Matumoto	13.5	229	e 3	11	+ 1	i 5	33	- 5	15	25	ScS
Toyama	13.6	232	e 3	10	- 1	e 5	21	-19	e 5	4	?
Vladivostok	13.7	265	i 3	11	0	i 5	55	+14	i 3	25	pP
Mera	13.7	221	i 3	13	+ 2	e 5	33	- 9	i 3	47	PPP
Magadan	13.7	0	e 3	13	+ 2	—	—	—	—	—	—
Kohu	13.7	226	e 3	11	- 1	i 5	31	-11	i 15	31	ScS
Hunatu	13.7	225	i 3	14	+ 2	i 5	37	- 5	15	33	ScS
Ajiro	13.9	223	e 3	16	+ 2	e 5	37	-10	—	—	—
Misima	13.9	224	e 3	14	- 1	e 5	38	- 9	15	27	ScS
Osima	14.0	222	e 3	13	- 3	i 5	36	-13	i 15	31	ScS
Kanazawa	14.1	233	e 3	20	+ 3	—	—	—	—	—	—
Iida	14.2	228	e 3	14	- 4	e 5	48	- 5	—	—	—
Shizuoka	14.3	225	3	20	0	i 5	44	-13	15	40	ScS
Hukui	14.6	233	i 3	25	+ 2	e 5	58	- 5	—	—	—
Omaesaki	14.7	224	e 3	26	+ 1	e 6	10	+ 4	i 3	55	PPP
Gihu	14.8	230	i 3	26 ^a	0	e 6	2	- 6	15	35	ScS
Hamamatu	14.9	226	i 3	27 ^k	0	i 6	7	- 2	—	—	—
Nagoya	14.9	229	e 3	28	+ 1	6	3	- 7	15	35	ScS
Tsuruga	15.0	232	i 3	28 ^a	- 1	6	8	- 5	15	32	ScS
Ibukisan	15.0	231	e 3	31	+ 2	i 6	30	+16	—	—	—
Hikone	15.2	231	3	31 ^a	0	6	11	- 6	—	—	8.3
Hatidyozima	15.2	217	i 3	34	+ 3	6	8	-10	—	—	—
Kameyama	15.4	229	3	34 ^a	+ 1	6	22	0	e 15	38	ScS
Tu	15.5	229	3	35	+ 1	6	37	+14	—	—	—
Kyoto	15.7	231	e 3	39	+ 2	e 6	20	- 8	—	—	—
Toyooka	15.8	235	e 3	40	+ 1	e 6	36	+ 5	i 15	34	ScS
Nara	15.9	230	i 3	35	- 4	e 6	35	+ 3	i 15	37	ScS
Osaka	z. 16.1	231	e 3	45	+ 2	e 6	33	- 6	—	—	—
Owase	16.1	228	3	44	+ 1	i 6	50	+11	i 15	34	ScS
Tottori	N. 16.2	236	3	45 ^k	+ 2	e 6	29	-11	e 15	36	ScS
Saigo	16.2	239	i 3	45 ^a	+ 1	6	36	- 4	i 15	35	ScS
Kobe	16.2	232	e 3	44	0	e 6	47	+ 7	e 4	4	PP
Wakayama	16.6	231	e 3	48	0	e 6	58	+10	—	—	e 9.5
Sumoto	16.6	232	i 3	50 ^k	+ 1	i 6	57	+ 7	e 11	5	?
Yonago	16.7	237	3	53	+ 3	7	4	+12	—	—	—
Himeji	16.8	233	i 3	48	- 3	i 6	49	- 4	—	—	—
Siomisaki	16.9	228	e 3	53 ^k	+ 1	i 7	3	+ 8	—	—	e 7.9
Matsue	16.9	238	3	54	+ 2	7	5	+10	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Tokusima	17.0	232	3 55	+ 1	e 6 49	- 9	15 39	ScS	—
Takamatu	17.1	233	e 3 55	0	i 7 10	+ 9	e 15 43	ScS	—
Hamada	17.9	239	4 8	+ 4	7 25	+ 8	e 15 42	ScS	—
Muroto	17.9	231	e 4 4	0	e 7 27	+10	—	—	—
Koti	18.0	233	i 4 7 _a	+ 2	i 7 26	+ 6	i 15 52	ScS	—
Hirosima	18.0	237	4 7 _k	+ 1	e 7 21	+ 1	e 4 52	sP	—
Changchun	18.1	273	i 4 4	- 2	—	—	—	—	—
Matuyama	N. 18.2	235	e 4 9	+ 1	e 7 37	+12	e 15 45	ScS	e 9.1
Simidu	18.9	232	4 17	+ 1	7 46	+ 7	—	—	—
Simonoseki	19.2	238	e 4 22 _a	+ 3	e 7 50	+ 4	—	—	—
Ooita	19.3	236	i 4 24 _k	+ 4	—	—	e 4 53	pP	—
Hukuoka	19.8	239	e 4 27	+ 2	8 5	+ 7	—	—	—
Asosan	19.9	236	4 29	+ 3	8 11	+11	—	—	—
Ituhara	E. 20.0	242	e 4 26	- 2	e 8 2	- 1	—	—	—
Saga	20.1	238	i 4 33	+ 5	i 8 17	+13	16 34	?	—
Kumamoto	20.1	237	i 4 31 _k	+ 2	8 9	+ 4	15 49	ScS	—
Miyazaki	20.4	233	4 34 _k	+ 2	7 55	-15	—	—	—
Unzendake	20.5	237	4 32 _k	0	8 22	+11	—	—	—
Nagasaki	20.7	238	4 37	+ 2	e 8 26	+11	5 5	pP	—
Kagosima	21.1	234	4 43 _k	+ 4	8 33	+ 9	15 54	ScS	—
Tomie	21.4	241	i 4 45 _k	+ 4	i 8 37	+ 9	—	—	11.6
Yakusima	22.0	233	i 4 53 _k	+ 5	i 8 50	+10	9 30	Q	10.8
Tsingtao	24.8	257	e 5 18	+ 3	9 26	- 2	—	—	—
Peking	25.8	269	i 5 23 _a	- 1	9 37	- 7	—	—	—
Kwanting	26.1	270	e 5 26	- 1	—	—	—	—	—
Naha	26.9	232	5 35	+ 1	e 10 2	0	16 17	ScS	—
Zô-Sô	27.2	247	e 5 39 _a	+ 2	10 6	- 1	6 22	PP	—
Tatung	27.8	271	e 5 47	+ 5	—	—	—	—	—
Tiksi Bay	27.8	345	i 5 39	- 4	i 10 56	sS	e 6 58	PPP	—
Nanking	28.1	252	5 47 _a	+ 1	10 24	+ 1	6 26	PP	—
Taiyuan	29.3	268	e 5 58	+ 2	—	—	—	—	—
Paotow	29.8	274	6 1	0	—	—	—	—	—
Irkutsk	30.6	299	i 6 5 _a	- 2	—	—	—	—	—
Taipei	31.3	238	6 19	+ 6	11 16	+ 4	—	—	—
Ilan	31.3	238	6 52	+38	11 49	+36	—	—	—
Yumenkow	31.7	266	e 6 20	+ 3	—	—	—	—	—
Hwalien	32.0	237	6 23	+ 3	11 34	+10	—	—	—
Taichung	32.4	238	5 59	-25	11 36	+ 6	—	—	—
Guam	32.7	191	e 6 23	- 3	—	—	i 7 33	PP	—
Hsinkong	32.8	236	6 29	+ 2	11 36	- 1	—	—	—
Taitung	33.2	236	6 23	- 8	11 36	- 7	—	—	—
Yinchuan	33.4	273	e 6 35	+ 3	—	—	—	—	—
Tainan	33.6	237	6 35	+ 1	—	—	—	—	—
Sian	33.6	265	6 38	+ 4	11 47	- 2	7 38	PP	—
Tawu	33.7	236	6 35	+ 1	11 49	- 1	—	—	—
Hengchun	34.0	236	6 38	0	11 53	- 2	—	—	—
Wuwei	36.1	275	e 6 56	+ 1	—	—	—	—	—
Lanchow	36.2	271	e 6 57	+ 1	—	—	—	—	—
Changyeh	37.1	277	7 6	+ 3	—	—	—	—	—
Sining	37.4	273	e 7 7	+ 1	—	—	—	—	—
Canton	37.8	246	i 7 11 _a	+ 2	12 52	- 1	8 33	PP	—
Hong Kong	37.8	244	i 7 11 _k	+ 2	i 12 51	- 2	7 39	pP	—
College	37.9	38	i 7 10 _k	0	i 12 54	0	e 8 29	PP	i 15.5
Baguio City	38.6	230	i 7 16	0	i 13 6	+ 1	—	—	—
Yumen	38.9	281	e 7 19	0	—	—	—	—	—
Manila	39.9	228	i 7 28	+ 1	i 13 21	- 4	—	—	—
Sitka	45.2	48	i 8 11 _k	+ 2	i 14 45	+ 4	i 8 42	pP	i 18.4
Honolulu	48.2	103	i 8 35 _a	+ 2	i 15 27	+ 2	i 9 10	pP	i 20.1
Rabaul	49.9	178	i 8 46	0	e 15 49	+ 2	e 14 36	?	—
Shillong	50.6	267	i 8 52	0	i 15 55	- 3	9 15	pP	—
Hawaii, Vol. Obs.	51.4	102	e 8 58	0	—	—	—	—	—
Resolute Bay	52.2	18	i 9 2 _a	- 2	i 16 19	- 1	e 18 30	ScS	—
Frunse	52.5	296	i 9 5 _a	- 1	—	—	—	—	—
Chatra	z. 53.1	272	9 7	- 4	—	—	—	—	—
Sverdlovsk	53.3	317	i 9 10	- 2	16 32	- 3	i 11 20	PP	—

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Horseshoe Bay	55.0	53	i 9	29	+ 4	i 17	4	+ 6	i 19	7	ScS	—
Victoria	55.4	54	e 9	27	0	i 17	3	0	19	6	ScS	e 23.3
Bokaro	56.0	270	e 9	32	+ 1	—	—	—	e 11	32	PP	—
Seattle	56.5	54	e 9	36	+ 1	e 18	25	+67	i 19	41	ScS	—
Tashkent	56.7	297	e 9	34	- 2	i 17	16	- 3	e 17	48	PS	—
Dehra Dun	57.3	281	e 9	40	- 1	i 17	23	- 5	11	39	PP	26.3
Corvallis	57.7	57	i 9	47	+ 4	e 17	36	+ 3	e 19	23	ScS	—
Banff	58.2	48	i 9	51	+ 4	—	—	—	—	—	—	—
Stalinabad	58.6	294	i 9	47	- 3	i 17	42	- 2	—	—	—	—
New Delhi	N. 59.0	280	i 9	50	- 2	i 17	43	- 7	14	30	ScP	27.2
Lahore	59.1	285	9	53	0	17	49	- 2	—	—	—	—
Arcata	59.3	61	—	—	—	e 17	57	+ 3	—	—	—	—
Sodankyla	59.4	338	i 9	52	- 4	17	44	-12	i 10	23	pP	—
Shasta	60.5	61	i 10	4	+ 1	i 18	18	+ 9	e 19	49	ScS	—
Kiruna	60.6	341	i 10	0 _a	- 4	i 18	6	- 5	i 10	28	pP	—
Hungry Horse	60.7	50	i 10	2 _a	- 1	i 18	11	0	i 39	28	P'P'	—
Ukiah	60.9	63	i 10	6 _a	0	i 18	19	+ 5	e 10	38	pP	e 26.5
Mineral	61.2	61	e 10	6 _a	- 1	—	—	—	i 12	23	PP	—
San Francisco	62.2	63	i 10	14	0	—	—	—	—	—	—	—
Berkeley	62.3	63	i 10	15 _a	0	e 18	33	+ 1	e 12	42	PP	—
Branner	62.6	64	i 10	18 _a	+ 1	—	—	—	—	—	—	—
Reno	62.7	60	e 10	18	0	i 18	41	+ 3	—	—	—	—
Santa Clara	62.8	63	i 10	24 _k	+ 6	e 18	41	+ 3	i 10	46	pP	—
Butte	N. 62.9	51	i 10	18 _a	- 1	i 18	40	0	i 10	46	pP	? 27.3
Lick	63.0	63	i 10	20 _k	+ 1	i 13	1	PP	i 10	47	pP	—
Scoresby Sund	63.8	357	i 10	24	- 1	i 18	49	- 2	i 10	49	pP	29.4
Bozeman	63.9	51	i 10	28	+ 2	i 18	56	+ 4	—	—	—	i 26.4
Moscow	64.2	325	i 10	24	- 3	19	25	PS	i 10	53	pP	—
Fresno	64.5	63	10	29 _k	0	e 18	50	- 8	i 10	44	pP	—
Djakarta	64.9	229	10	31 _k	- 1	i 19	4	0	i 11	0	pP	39.3
Quetta	64.9	288	i 10	31	- 1	e 19	1	- 3	i 10	58	pP	—
Lembang	65.0	228	e 10	34 _a	+ 1	e 19	7	+ 1	e 20	17	ScS	—
Eureka	65.1	58	i 10	33 _a	0	—	—	—	—	—	—	—
Tinemaha	65.3	62	i 10	35 _k	+ 1	i 19	10	+ 1	i 11	5	pP	i 26.9
Hyderabad	E. 65.4	270	i 10	31 _a	- 4	i 19	3	- 7	15	5	PcS	30.0
Ashkabad	65.4	300	i 10	35	0	19	10	- 1	—	—	—	—
Helsinki	65.4	333	i 10	36	+ 1	i 19	2	- 9	i 10	57	pP	—
King Ranch	Z. 65.4	64	i 10	36 _k	+ 1	e 19	11	0	i 11	6	pP	—
Isabella	Z. 66.0	63	i 10	39 _k	0	e 19	19	+ 1	i 11	3	pP	—
Skalstugan	66.0	341	i 10	36 _a	- 3	—	—	—	i 11	3	pP	—
China Lake	Z. 66.4	62	i 10	42 _k	0	e 19	30	+ 7	i 11	12	pP	—
Salt Lake City	66.7	55	i 10	43 _k	0	e 19	24	- 2	i 11	11	pP	—
Pasadena	67.2	64	i 10	46 _k	0	i 19	31	- 1	i 11	13	pP	i 27.0
Madras	E. 67.2	265	i 10	46 _a	- 1	i 19	32	0	13	17	PP	30.0
Riverside	67.8	64	i 10	50 _k	0	i 19	37	- 2	i 20	13	sS	—
Poona	N. 67.8	274	i 10	48	- 2	i 19	34	- 6	13	21	PP	31.3
Upsala	67.8	336	i 10	48 _a	- 3	i 19	33	- 7	i 11	17	pP	—
Boulder City	68.0	61	i 10	53 _a	+ 1	e 19	44	+ 2	(26 52)	—	SSS	e 26.9
Bombay	68.3	275	i 10	52	- 1	i 19	43	- 2	11	16	PcP	27.6
Apia	68.4	140	e 10	55	+ 1	e 19	41	- 6	15	58	?	e 30.4
Akureyri	68.4	355	e 10	54	0	e 19	51	+ 4	20	47	sS	e 34.4
Suva	N. 68.5	152	10	53	- 2	19	49	+ 1	i 11	20	PcP	31.4
Palomar	Z. 68.5	64	i 10	55 _k	0	e 19	51	+ 3	e 39	10	P'P'	—
Hayfield	N. 69.1	63	i 10	58	0	i 19	52	- 2	i 20	52	ScS	—
Barratt	69.1	64	i 10	58 _k	0	i 19	57	+ 2	i 20	39	sS	i 27.6
Rapid City	E. 69.1	48	i 11	1	+ 2	i 19	55	- 1	i 20	49	sS	e 27.8
Reykjavik	70.2	356	i 11	5 _a	0	e 20	11	+ 3	i 21	15	ScS	—
Tiflis	70.6	310	i 11	7	- 1	i 20	12	- 1	21	0	ScS	—
Vik	N. 70.7	355	e 11	7	- 1	e 20	19	+ 5	e 21	2	sS	e 34.7
Boulder	70.8	52	i 11	10	+ 1	—	—	—	—	—	—	—
Kodaikanal	E. 71.0	265	i 11	14	+ 4	20	17	0	15	29	PPP	33.0
Goris	71.4	308	i 11	10	- 2	i 20	20	- 1	11	32	PcP	—
Colombo	E. 71.7	261	11	17	+ 3	20	20	- 5	—	—	—	e 32.9
Copenhagen	72.9	337	i 11	19	- 2	i 20	30	- 8	i 11	40	pP	—
Tucson	73.0	61	i 11	1 _a	-21	i 20	42	+ 2	e 11	52	pP	e 36.6

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Brisbane	73.0	178	i 11 22	0	i 20 42	+ 2	—	—
Warsaw	73.1	330	i 11 21	- 1	i 20 37	- 4	i 11 40	PcP e 31.4
Simferopol	73.6	318	i 11 23	- 2	25 29	SS	i 11 49	pP
Lwow	74.0	327	i 11 26	- 2	i 21 24	ScS	i 11 52	pP
Iasi	74.7	324	11 31	- 1	e 20 58	- 1	i 11 55	pP
Aberdeen	E. 74.8	345	i 11 30	- 2	i 20 57	- 3	e 14 20	PP 38.9
Hamburg	75.4	337	i 11 36 _a	0	i 21 7	+ 1	e 16 25	PPP 35.4
Skalnate Pleso	75.9	329	i 11 37 _a	- 2	21 14	+ 2	i 12 2	pP e 41.4
Focsani	76.1	323	e 11 44	+ 5	e 21 21	+ 7	—	—
Edinburgh	76.2	345	e 11 42	+ 2	i 21 7	- 8	12 1	pP
Kirkland Lake	76.4	32	i 11 40 _a	- 1	i 21 13	- 4	12 12	pP
Witteveen	76.9	338	i 11 44	0	—	—	—	—
Durham	77.0	344	i 11 44	- 1	i 21 22	- 2	12 2	pP
Prague	77.2	333	i 11 43	- 2	i 21 21	- 5	i 12 6	pP
Jena	77.3	335	i 11 45	- 1	i 21 25	- 2	i 12 19	pP e 36.4
Campulung	77.3	324	e 11 48	+ 2	21 28	0	21 52	ScS
Lubbock	77.4	55	i 11 47	0	e 21 29	+ 1	e 12 17	pP
Bucharest	77.6	323	i 11 47	- 1	i 21 28	- 2	i 12 9	pP e 37.4
Hurbanovo	77.8	329	i 11 51	+ 2	i 21 31	- 1	e 14 51	PP
Cheb	77.8	334	i 11 49	0	i 21 25	- 8	i 13 10	? 36.4
Budapest	77.8	329	11 48	- 1	21 32	- 1	12 4	PcP 37.9
Bratislava	77.9	330	i 11 49	- 1	i 21 34	0	i 14 46	PP e 36.9
De Bilt	78.0	339	i 11 50 _a	0	i 21 32	- 3	i 14 48	PP e 34.4
Kecskemet	78.0	328	e 11 51	+ 1	21 34	- 1	15 14	PP
Vienna	78.1	331	i 11 51	0	e 21 35	- 1	14 54	PP e 36.7
Szeged	N. 78.4	327	11 54	+ 1	21 59	+ 20	e 17 8	PPP 43.9
Timisoara	78.4	326	e 11 55	+ 2	e 21 42	+ 2	—	— e 41.4
Chihuahua	78.5	61	e 12 0 _k	+ 7	i 21 43	+ 3	e 26 54	SS
Chicago	78.5	40	e 11 51	- 2	i 21 33	- 7	e 14 33	PP e 31.9
Kalossa	78.6	328	i 11 53	- 1	21 35	- 7	12 4	PcP 39.4
Heerlen	78.9	338	i 12 3	+ 9	—	—	—	—
Rathfarnham Castle	79.2	346	i 11 56 _a	- 1	i 21 46	- 2	e 12 0	pP e 38.4
Riverview	79.3	180	i 11 57 _k	0	21 59	+ 10	12 26	pP e 36.8
Florissant	79.5	44	11 58 _a	0	i 21 49	- 1	15 0	PP
Belgrade	79.5	326	i 11 58 _k	0	i 21 49	- 2	e 15 2	PP e 41.4
Fayetteville	79.7	48	i 11 59	0	e 21 50	- 3	e 12 27	pP
St. Louis I	79.7	44	i 11 58 _k	- 1	i 21 51	- 2	12 26	pP
Kew	79.8	342	i 12 0 _a	0	i 21 53	- 1	i 12 26	pP e 41.4
Stuttgart	79.9	335	12 0 _a	0	i 21 51	- 4	i 12 25	pP e 38.4
Karlsruhe	79.9	336	i 12 1 _a	0	i 21 53	- 2	i 12 11	pP
Sofia	80.1	323	i 12 9	+ 7	i 21 52	- 5	i 22 25	ScS
Ottawa	80.3	31	i 12 1 _a	- 2	i 21 55	- 4	12 33	pP
Shawinigan Falls	80.3	29	i 12 2 _a	- 1	21 56	- 4	12 34	pP
Seven Falls	80.5	27	e 11 44 _?	- 20	i 21 41 _?	- 20	12 18	pP
Strasbourg	80.5	336	i 12 3 _a	- 1	i 21 59	- 2	i 12 29	pP e 38.4
Ebingen	80.5	335	12 3 _a	- 1	e 21 57	- 4	e 22 11	ScS
Ravensburg	80.7	334	i 12 4 _a	- 1	22 1	- 2	e 22 14	ScS
Brébeuf	81.0	30	i 12 5 _k	- 1	22 4	- 2	27 28	SS
Ksara	81.2	310	i 12 8	+ 1	i 22 7	- 1	i 22 29	ScS 42.1
Triest	81.2	331	i 12 6	- 2	i 22 2	- 7	i 12 45	pP 38.5
Zürich	81.4	335	e 12 9	+ 1	—	—	—	—
Cleveland	81.4	37	i 12 7 _a	- 1	i 22 7	- 3	i 12 35	pP
Basle	81.5	336	12 9	0	22 9	- 2	—	—
Paris	81.7	339	i 12 9	- 1	i 22 16	+ 3	i 12 36	pP e 40.4
Neuchatel	82.2	336	i 12 12	0	e 22 14	- 4	e 12 23	pP
Mazatlan	82.2	65	e 12 14	+ 2	e 22 8	- 10	e 27 36	SS
Besançon	82.2	337	i 12 10	- 3	e 22 20	+ 1	i 15 6	PP
Jersey	82.4	342	e 12 15	+ 2	i 22 16	- 4	e 23 1	PS e 41.9
Pittsburgh	82.9	36	i 12 16	0	i 22 25	0	i 15 26	PP
Bologna	83.1	332	e 12 18	+ 1	e 22 29	+ 2	i 12 54	pP
Oropa	83.1	335	e 12 17	0	e 22 24	- 4	i 12 22	PcP
Jerusalem	83.1	309	12 17	0	22 31	+ 3	—	—
Pavia	83.1	334	e 12 17 _a	0	i 22 27	- 1	e 12 42	pP
Pennsylvania	83.4	35	i 12 22	+ 3	i 22 29	- 2	i 12 45	pP
Melbourne	83.5	184	i 12 20	+ 1	i 22 33	+ 2	i 12 53	pP e 39.0

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Morgantown	83.6	37	i 12	19	0	e 22	28	- 4	—	—	—
Prato	83.7	332	i 12	23	+ 3	i 22	28	- 6	—	—	—
Florence z.	83.7	332	i 12	20 _a	0	i 22	32	- 2	12	54	pP
Athens	83.9	321	e 12	19	- 2	e 22	20	-15	—	—	—
Clermont-Ferrand	84.3	338	i 12	25 _a	+ 2	i 22	40	0	i 12	54	pP
Taranto	84.5	326	12	21	- 3	22	29	[- 7]	15	19	PP
Weston	84.5	30	i 12	24	0	i 22	36	- 6	—	—	—
Palisades	84.8	32	i 12	25	0	i 22	38	- 6	e 12	51	pP
Halifax	84.9	24	i 12	26 _a	0	—	—	—	i 17	29	PPP
Fordham	84.9	32	i 12	25	- 1	i 22	36	[- 2]	—	—	—
Rome	85.0	330	i 12	25 _a	- 1	i 22	40	- 6	i 15	45	PP
Monaco	85.0	334	i 12	25 _a	- 2	e 22	45	- 1	i 12	53	pP
Washington	85.4	35	i 12	29 _a	+ 1	i 22	43	- 7	i 12	59	pP
Guadalajara	85.9	64	e 12	37	+ 6	e 22	55	- 1	28	46	SS
Karapiro N.	86.4	160	e 12	28	- 5	23	37	sS	e 13	9	pP
Manzanillo	86.5	66	—	—	—	e 22	49	[+ 1]	—	—	—
Mobile	87.0	47	i 12	39	+ 2	i 22	53	[+ 1]	i 13	9	pP
Messina	87.1	326	e 12	34 _a	- 3	22	50	[- 2]	13	1	pP
Reggio Calabria	87.1	326	e 12	34	- 3	e 22	50	[- 2]	i 12	38	PcP
Columbia	87.8	41	i 12	41 _a	+ 1	i 22	55	[- 2]	i 13	12	pP
Cuglieri	87.8	332	i 12	45	+ 5	i 23	15	+ 1	—	—	—
Barcelona	88.6	337	i 12	44	0	i 23	3	[+ 1]	17	16	PPP
Cobb River E.	88.8	163	e 12	45	0	e 23	19	- 3	e 13	21	pP
Wellington	89.4	162	i 12	49	+ 1	i 23	5	[- 2]	e 13	16	pP
Tacubaya	89.5	62	i 12	48 _k	0	e 23	31	+ 2	e 16	50	PP
Kaimata N.E.	89.9	165	12	52	+ 2	e 23	40	+ 7	e 13	32	sP
Tunis	90.3	329	e 12	45	- 7	e 23	25	-11	e 13	13	pP
Christchurch	91.1	164	e 13	17	pP	—	—	—	i 13	55	pP
Vera Cruz	91.5	60	13	0	+ 2	i 23	51	+ 4	i 29	46	SS
Toledo	91.7	341	12	58 _a	0	i 23	35	-13	13	25	pP
Alicante	92.2	338	i 12	52	- 9	i 23	22	[- 1]	16	20	PP
Algiers Univ. z.	92.7	334	e 13	1	- 2	e 23	11	[-15]	e 13	31	pP
Oaxaca	92.8	62	e 13	9 _k	+ 6	e 24	1	+ 3	e 37	53	P'P'
Lisbon	93.8	344	e 13	6 _a	- 2	23	28	[- 5]	16	53	PP
Merida	94.0	54	e 13	6 _k	- 3	e 23	55	-13	e 16	55	PP
Granada	94.1	340	i 13	10 _k	0	i 23	34	[0]	24	25	S
Almeria	94.2	339	i 13	8	- 2	i 23	58	-12	e 16	43	PP
Relizane	94.4	336	i 13	10 _a	- 1	e 24	17	+ 5	e 16	59	PP
Malaga	94.8	340	i 13	8 _k	- 4	i 24	30	+15	i 16	24	PP
Angra do Heroismo	95.8	358	—	—	—	23	46	[+ 3]	18	35	PPP
Bermuda Navy	95.8	30	e 13	16	- 1	e 23	44	[+ 1]	i 17	5	PP
Comitan	96.2	59	—	—	—	e 23	45	[- 1]	e 24	25	S
Macquarie Is. N.	100.2	175	—	—	—	i 24	9	[+ 3]	e 24	59	S
Tamanrasset	104.7	327	e 13	56	- 1	e 25	44	+ 6	e 14	24	pP
San Juan	107.9	37	i 14	13 _a	P	i 26	5	0	i 24	41	SKS
Galerazamba	110.1	49	i 19	4	PP	i 24	57	[+ 6]	i 19	59	PP
Antigua	111.1	33	e 18	29	[+ 6]	—	—	—	e 19	0	PP
Tananarive	112.4	266	e 19	29	PP	e 25	1	[+ 1]	e 34	45	SS
Dominica	112.6	34	e 18	29	[+ 3]	—	—	—	e 19	19	PP
Astrida	113.0	291	i 18	49	[+ 23]	—	—	—	15	37	P
Fort de France	113.2	34	i 19	25	PP	e 26	45	S	i 34	51	SS
Lwiro	113.3	292	18	29	[+ 1]	—	—	—	e 14	40	P
St. Vincent	114.6	34	e 18	53	[+ 23]	—	—	—	e 19	20	PP
Chinchina	114.8	52	e 14	45	P	i 25	8	[0]	i 18	19	PKP
Barbados	115.2	33	e 19	19	PP	—	—	—	—	—	—
Bogota	115.9	51	i 18	47	[+ 15]	i 25	15	[+ 2]	i 19	43	PP
Trinidad	116.7	36	e 18	34	[0]	—	—	—	—	—	—
M'Bour	119.0	346	e 18	38	[0]	i 25	32	[+ 8]	19	2	pP'
Mirny	120.4	203	e 18	41	[0]	e 26	51	SKKS	e 19	12	pP'
Huancayo	128.6	64	e 18	59	[+ 2]	i 22	9	SKP	e 19	33	sP'
Pretoria z.	130.3	273	i 19	3	[+ 3]	—	—	—	—	—	—
Pietermaritzburg z.	131.2	268	i 19	4 _k	[+ 2]	—	—	—	—	—	—
Kimberley z.	134.6	273	i 19	4	[- 4]	—	—	—	—	—	—
Grahamstown z.	136.0	266	i 19	1	[-10]	—	—	—	—	—	—
La Paz	136.4	61	19	13 _k	[+ 2]	25	55	[-16]	i 19	36	pP'
Antofagasta	140.2	70	e 19	24	[+ 6]	e 26	12	[- 5]	e 20	43	?
Hermanus	141.7	270	21	25	?	—	—	—	—	—	—
Santa Lucia	146.2	83	19	25	[- 3]	e 41	47	SS	—	—	—
Concepcion	147.0	89	19	20	[-10]	—	—	—	19	51	pP'
Punta Arenas	152.4	120	20	0	PKP ₂	—	—	—	23	26	PP

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Oct. 11d. 16h. 48m. 49s. Epicentre 40°·61N. 125°·72W.

$\Delta = -0.4445$, $B = -0.6182$, $C = +0.6483$; $\delta = +4$; $h = -2$;
 $D = -0.812$, $E = +0.584$; $G = -0.378$, $H = -0.526$, $K = -0.761$.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Ferndale	1.1	91	i 0 23	0	—	—	—	—
Arcata	1.3	77	i 0 24	- 1	—	—	—	—
Ukiah	2.4	127	i 0 41	- 1	i 1 9	- 4	—	i 1.5
Shasta	2.5	87	i 0 43 ^a	0	—	—	—	—
Mineral	3.1	93	i 0 51	- 1	i 1 32	+ 1	—	—
Manzanita Lake	E. 3.2	90	e 0 55	+ 3	—	—	—	—
San Francisco	3.8	137	e 0 58 ^k	- 3	i 1 45	- 3	—	—
Berkeley	3.8	134	e 0 59 ^k	- 3	i 1 46	- 3	—	—
Branner	4.2	138	i 1 4 ^k	- 3	i 1 55	- 3	—	—
Corvallis	4.4	23	i 1 7 ^k	- 2	—	—	—	—
Lick	4.5	134	e 1 9 ^k	- 3	e 2 3	- 5	—	—
Reno	4.7	101	e 1 13 ^a	- 1	—	—	—	—
Fallon	E. 5.4	100	e 1 25	0	—	—	—	—
Fresno	6.0	128	i 1 31 ^k	- 2	—	—	—	—
Tinemaha	Z. 6.8	119	e 1 47	+ 3	i 3 27	+ 1*	—	—
King Ranch	Z. 7.1	136	i 1 46	- 2	—	—	—	—
Seattle	7.5	18	i 1 53	0	e 3 29	+10	e 4 11	S _g
Isabella	Z. 7.6	129	i 1 55	+ 1	—	—	—	—
Eureka	7.6	95	i 1 53	- 2	—	—	—	—
Santa Barbara	Z. 7.8	140	i 1 56	- 2	—	—	—	—
China Lake	Z. 8.0	124	i 2 1	+ 1	—	—	—	—
Victoria	8.1	11	i 1 59	- 3	i 3 37	+ 2	—	—
Albani	8.7	4	i 2 8	- 2	—	—	—	—
Pasadena	8.8	135	i 2 10	- 2	—	—	—	—
Horseshoe Bay	8.9	10	i 2 16	+ 2	i 4 4	+ 8	e 5 58	?
Boulder City	9.7	115	i 2 26	+ 2	i 4 31	+15	—	i 4.7
Salt Lake City	10.5	85	i 2 36	0	i 4 41	+ 5	—	i 4.9
Butte	N. 11.0	56	i 2 37	- 5	i 4 49	+ 2	—	i 5.1
Hungry Horse	11.4	43	i 2 43	- 4	i 4 57	+ 1	—	i 5.9
Bozeman	11.8	60	i 2 48	- 6	i 5 8	0	—	e 5.3
Tucson	14.6	120	i 3 32	+ 2	i 6 25	+12	—	e 8.0
Boulder	15.6	85	i 3 44	+ 1	—	—	—	—
Rapid City	E. 17.0	71	i 3 59	- 2	e 7 32	SS	—	e 9.5
Saskatoon	17.4	42	i 4 2	- 5	i 7 22	+ 2	—	—
Sitka	17.6	343	i 4 5	- 3	i 7 34	+11	i 8 38	PcP
Chihuahua	20.0	120	i 4 41 ^a	+ 3	i 8 35	+17	—	i 10.2
Lubbock	20.3	103	e 4 40	0	e 8 43	SS	—	e 10.6
Mazatlan	23.8	131	e 5 15	- 1	e 9 45	+16	—	—
Fayetteville	25.1	90	i 5 28	0	e 10 3	+13	e 15 19	?
College	27.4	340	i 5 45	- 5	e 10 31	+ 1	e 6 36	PP
Guadalajara	27.5	129	e 5 45	- 6	i 10 29	- 1	—	e 14.5
Manzanillo	28.2	133	e 4 55	-62	e 12 19	SS	—	e 14.5
Tacubaya	31.0	125	i 6 24 ^k	+ 2	e 11 29	+ 3	i 7 34	PP
Puebla	31.9	124	e 6 39	+ 9	—	—	—	e 15.2
Hawaii Vol. Obs.	32.9	239	e 6 35	- 3	—	—	—	—
Kirkland Lake	33.1	61	e 6 38 ^a	- 2	—	—	—	—
Vera Cruz	33.1	121	i 6 43	+ 3	i 12 15	+16	i 8 14	PPP
Honolulu	33.5	245	e 6 37	- 7	i 12 15	+ 9	i 7 57	PP
Oaxaca	34.3	125	e 6 51	+ 1	e 12 24	+ 6	—	e 16.6
Pittsburgh	Z. 34.5	75	i 6 56	+ 4	—	—	—	—
Morgantown	34.7	76	i 6 55	+ 1	—	—	—	e 16.2
Columbia	35.8	86	i 7 6	+ 2	e 12 31	-11	i 8 27	PP
Pennsylvania	35.9	74	i 7 9	+ 5	e 12 52	+ 9	i 8 23	PP
Merida	36.3	112	i 7 10 ^a	+ 2	i 12 49	0	i 8 34	PP
Ottawa	36.4	65	e 7 7 ^a	- 1	i 12 55	+ 5	i 8 36	PP
Chapel Hill	36.6	82	i 7 7	- 3	—	—	—	—
Resolute Bay	37.0	13	i 7 9 ^k	- 4	i 12 56	- 3	7 38	pP
Washington	37.1	76	i 7 14	0	e 12 55	- 5	—	e 16.0
Brébeuf	37.8	65	i 7 20 ^a	0	i 13 20	+ 8	—	—
Comitan	37.9	120	—	—	e 13 55	+42	—	e 16.9

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Shawinigan Falls	38.2	63	e 7	23k	0	13	24	+ 6	9	46	PcP	19.3
Palisades	38.7	72	e 7	26	- 2	i 13	28	+ 2	i 9	43	PcP	e 18.4
Seven Falls	39.4	62	e 7	14?k	-19	13	12?	-24	8	46?	PP	—
Halifax	44.9	63	i 8	21k	+ 2	—	—	—	i 10	6	PcP	e 23.4
Bermuda Navy	48.8	79	i 8	51	+ 2	i 15	56	+ 4	i 10	45	PP	e 22.9
Petropavlovsk	50.9	311	e 9	3	- 2	—	—	—	—	—	—	—
Galerazamba	53.4	109	i 9	47	+23	i 17	39	+44	—	—	—	26.2
San Juan	55.3	95	e 9	37	- 1	e 17	24	+ 3	e 11	47	PP	e 22.6
Tiksi Bay	56.6	338	e 9	43	- 4	e 17	33	- 5	e 10	37	PcP	—
Scoresby Sund	56.7	23	e 9	42	- 6	e 17	46	+ 7	i 21	40	SS	24.2
Chinchina	57.2	114	i 9	50 ^a	- 1	i 17	51	+ 5	—	—	—	27.2
Bogota	58.5	113	i 10	3	+ 3	i 18	9	+ 6	i 22	7	SS	27.2
Antigua	59.9	93	i 10	10	0	—	—	—	—	—	—	—
Dominica	60.8	94	i 10	18	+ 2	—	—	—	—	—	—	—
Fort de France	61.3	95	i 10	21	+ 1	e 18	51	PS	—	—	—	—
Barbados	63.5	95	e 10	40	+ 6	—	—	—	—	—	—	—
Trinidad	63.6	98	e 10	33	- 2	—	—	—	—	—	—	—
Kiruna	68.9	13	11	6	- 3	20	16	+ 3	e 39	23	P'P'	—
Apia	68.9	228	e 11	9 ^a	0	e 11	38	PcP	13	41	PP	—
Huancayo	70.1	126	e 11	15	- 1	e 20	13	-14	—	—	—	e 29.1
Sodankyla	70.3	11	i 11	13	- 5	—	—	—	i 40	43	P'P'	—
Skalstugan	70.9	18	i 11	17	- 4	—	—	—	—	—	—	—
Vladivostok	71.2	310	i 11	18	- 5	—	—	—	—	—	—	—
Matusiro	71.4	302	e 11	19	- 5	20	39	- 3	—	—	—	28.4
Aberdeen	71.7	28	—	—	—	i 20	46	0	i 25	37	SS	28.8
Rathfarnham Castle	72.9	33	i 11	31	- 2	e 21	11	+12	i 12	41	?	e 33.2
Durham	73.7	30	11	37	- 1	21	13	+ 5	—	—	—	—
Upsala	75.4	18	i 11	47	- 1	i 21	23	- 5	—	—	—	—
Kew	76.7	32	e 11	57	+ 2	i 21	41	- 1	e 14	54	PP	e 33.2
Copenhagen	77.7	23	e 12	4	+ 4	i 22	1	+ 9	e 12	24	PcP	34.2
Jersey	77.7	34	—	—	—	e 20	59	-53	e 22	14	PS	39.2
La Paz	78.0	124	i 12	3 ^a	+ 1	i 21	57	+ 2	i 14	59	PP	35.5
Pulkovo	78.0	12	i 12	3	+ 1	e 22	10	+14	e 22	37	PS	—
Witteveen	78.2	27	i 12	7	+ 4	—	—	—	—	—	—	—
De Bilt	78.3	28	e 12	8	+ 5	e 22	4	+ 5	e 27	11	SS	e 35.2
Hamburg	78.7	25	i 12	9	+ 3	e 22	13	+10	e 23	25	PPS	e 38.7
Paris	79.9	32	i 12	17	+ 4	e 22	25	+ 9	e 12	21	PcP	e 33.2
Jena	81.5	26	e 12	19	- 2	e 22	32	0	e 15	28	PP	—
Peking	82.0	317	12	26	+ 3	e 22	36	- 1	—	—	—	—
Karlsruhe	82.0	28	e 12	25k	+ 1	—	—	—	12	32	PcP	40.2
Lisbon	82.1	45	12	24	0	—	—	—	12	28	PcP	41.7
Strasbourg	82.1	29	i 12	27 ^a	+ 3	e 22	46	+ 7	e 15	36	PP	—
Cheb	82.5	26	i 12	30	+ 4	22	47	+ 5	23	34	PS	—
Stuttgart	82.5	28	12	27	+ 1	e 22	51	+ 8	23	39	PS	e 34.2
Besançon	82.6	31	e 12	31	+ 5	—	—	—	e 15	44	PP	—
Clermont-Ferrand	82.6	33	e 12	29	+ 2	e 22	52	+ 8	—	—	—	41.2
Sverdlovsk	82.8	356	12	27	- 1	22	43	- 3	15	38	PP	—
Ebingen	82.9	29	12	25	- 3	—	—	—	12	30	PcP	—
Basle	82.9	30	e 12	58	+30	e 22	37	- 9	—	—	—	—
Moscow	83.0	9	e 12	26	- 3	22	49	ScS	23	41	PS	—
Warsaw	83.1	20	e 12	38	+ 9	i 22	56	+ 7	e 23	32	PS	35.2
Neuchatel	83.1	30	e 12	34	+ 5	—	—	—	—	—	—	—
Prague	83.2	25	e 12	28	- 2	e 22	53	+ 4	e 23	29	PS	—
Toledo	83.9	41	e 12	36	+ 3	e 23	5	+ 8	—	—	—	34.9
Oropa	84.7	31	e 12	42	+ 5	e 23	19	+15	14	5	?	—
Pavia	85.5	30	e 12	45	+ 4	—	—	—	e 14	15	?	—
Zô-Sè	85.6	308	e 12	39	- 3	e 23	5	- 8	—	—	—	—
Barcelona	85.6	37	—	—	—	e 23	16	+ 2	—	—	—	e 36.4
Bratislava	85.7	24	i 12	44	+ 2	e 23	23	+ 9	i 12	58	PcP	e 35.2
Lwow	86.1	19	12	44	0	i 24	30	PS	e 16	18	PP	—
Malaga	86.1	43	i 12	44k	0	23	30	+12	i 16	6	PP	42.2
Granada	86.2	43	i 12	50k	+ 5	i 23	28	+ 9	24	14	PS	i 41.9
Hurbanovo	86.3	23	14	32	P	23	29	+ 9	24	11	PS	35.2
Nanking	86.3	310	e 12	42	- 3	e 23	12	- 8	—	—	—	—
Semipalatinsk	86.5	344	e 12	45	- 2	—	—	—	—	—	—	—

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Rabaul	86.7	262	e 12	45	- 2	e 18	33	PPP	e 16	11	PP	—
Triest	86.8	27	i 12	50	+ 2	i 23	31	+ 6	i 16	23	PP	45.1
Alicante	86.8	40	12	42	- 6	i 23	33	+ 8	24	25	PS	e 41.4
Budapest	86.9	23	13	4	+16	23	38	+12	23	45	ScS	35.7
Almeria	87.0	42	e 12	46	- 3	e 23	30	+ 3	24	22	PS	42.0
Prato	87.3	30	e 12	55	+ 5	i 23	37	+ 7	—	—	—	—
Florence	87.5	30	i 12	50 _a	- 1	i 23	40	+ 9	i 16	21	PP	e 39.2
Timisoara	E. 89.1	22	14	11 _f	?	24	29	PS	—	—	—	e 43.2
Relizane	89.4	41	e 13	1	+ 1	—	—	—	e 14	24	?	—
Iasi	89.4	18	e 13	6	+ 6	—	—	—	—	—	—	—
Santa Lucia	89.5	137	12	57	- 3	—	—	—	13	37	?	—
Rome	89.6	30	i 13	4 _a	+ 3	i 24	3	+12	e 16	34	PP	—
Belgrade	89.7	23	13	5 _a	+ 3	24	1	+ 9	13	23	PcP	e 36.6
Algiers Univ.	z. 89.8	39	e 13	3	+ 1	e 24	5	+12	e 18	41	PPP	—
Taranto	92.5	27	—	—	—	24	31	+14	—	—	—	41.8
Simferopol	92.9	14	e 13	19	+ 3	e 24	7	{+ 4}	e 16	58	PP	—
Messina	93.9	30	e 13	19	- 2	24	30	+ 1	e 25	51	PS	e 41.3
Frunse	94.9	345	e 13	24	- 2	i 24	8	{- 9}	—	—	—	—
Hong Kong	96.3	306	—	—	—	25	1	+12	—	—	—	—
Baguio City	96.4	298	e 13	32	0	e 23	51	[-18]	—	—	—	—
Tashkent	97.3	349	e 13	39	+ 2	e 24	18	[+ 5]	i 26	24	PS	—
Tiflis	97.6	7	e 13	38	0	24	16	[+ 1]	24	38	SKKS	—
Goris	99.9	6	i 13	51	+ 3	i 25	22	+ 2	27	8	PS	—
Stalinabad	100.1	348	e 13	52	+ 3	—	—	—	—	—	—	—
Ashkabad	101.7	357	e 13	59	+ 2	i 24	18	[-17]	—	—	—	—
Tamanrasset	102.3	45	14	4	+ 5	e 25	1	{-10}	e 18	15	PP	—
Ksara	104.0	16	e 14	10	+ 3	33	16	SS	i 18	35	PP	60.2
Dehra Dun	106.1	339	18	37	PP	i 28	59	PPS	—	—	—	e 53.3
Riverview	106.5	239	—	—	—	33	51	PSS	—	—	—	49.1
New Delhi	N. 108.0	339	e 18	48	PP	e 28	15	PS	e 33	12	SS	—
Quetta	108.6	348	17	53	?	—	—	—	—	—	—	—
Melbourne	112.9	239	—	—	—	e 35	12	SS	—	—	—	48.6
Bombay	118.3	340	18	43	[- 7]	35	56	SS	28	27	PKKP	—
Madras	E. 121.5	330	e 20	36	PP	—	—	—	—	—	—	—
Lembang	121.9	290	19	3	[+ 6]	—	—	—	—	—	—	—
Colombo	E. 127.2	327	e 21	11	PP	—	—	—	—	—	—	e 60.5
Lwiro	135.4	38	e 19	28	[+ 6]	—	—	—	—	—	—	—
Astrida	136.1	37	e 19	17	[- 7]	—	—	—	e 19	30	pp'	—
Mirny	146.3	207	e 19	41	[- 1]	—	—	—	—	—	—	—
Kimberley	z. 153.1	73	i 19	56	[+ 4]	—	—	—	—	—	—	—
Pretoria	z. 153.7	64	i 20	8 _k	[+15]	—	—	—	—	—	—	—
Grahamstown	z. 156.8	81	i 20	8	[+11]	—	—	—	—	—	—	—
Pietermaritzburg	z. 157.7	68	i 20	4	[+ 6]	—	—	—	—	—	—	—

Oct. 12d. 2h. 37m. 44s. Epicentre 15°·50S. 75°·28W.

$\Delta = +0.2450$, $B = -0.9324$, $C = -0.2656$; $\delta = -6$; $h = +6$;
 $D = -0.967$, $E = -0.254$; $G = -0.067$, $H = +0.257$, $K = -0.964$.

	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Huancayo	3.4	359	0	56	+ 3	1	38	+ 4	—	—	—	
La Paz	6.9	99	i 1	46 _k	+ 3	3	12	+10	i 1	58	PP	4.4
Antofagasta	9.3	151	e 2	13	- 3	3	51	-10	—	—	—	
Santa Lucia	18.3	168	i 4	13	- 1	e 7	47	+12	—	—	—	
Bogota	20.0	3	i 4	34 _k	0	i 8	26	+13	i 4	51	PP	10.3
Chinchina	20.3	359	i 4	37 _k	0	i 8	26	+ 7	—	—	—	10.3
Concepcion	21.4	173	e 4	29	-19	e 8	29	-11	—	—	—	e 10.0
Buenos Aires	24.3	145	i 5	19	+ 2	e 9	17	-13	—	—	—	—
Balboa Heights	24.7	350	e 5	22	+ 2	—	—	—	—	—	—	—
Galerazamba	26.1	0	i 5	54	+17	i 10	44	+36	i 6	42	PP	13.8

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Trinidad	29.4	28	e 6 5	+ 2	—	—	—	—
Barbados	32.4	29	e 6 33	+ 3	—	—	—	—
Fort de France	33.1	26	e 5 36	-61	e 11 56	+ 3	—	—
Dominica	33.5	25	e 6 38	- 2	—	—	—	—
San Juan	34.9	15	e 6 49	- 3	e 12 19	- 1	e 8 38	PcP e 14.5
Antigua	35.2	24	i 6 55	+ 1	—	—	—	—
Punta Arenas	37.7	176	—	—	e 14 58	SS	—	e 16.2
Merida	38.9	338	e 7 22	- 3	e 13 4	-18	—	21.5
Vera Cruz	40.1	328	i 12 52	?	—	—	—	e 20.9
Tacubaya	41.9	325	i 7 52	+ 2	e 14 15	+ 8	e 9 37	PP
Bermuda Navy	48.7	12	i 8 47	+ 3	i 15 43	- 1	i 10 44	PP e 25.6
Columbia	49.5	354	i 8 50	- 1	e 15 52	- 4	i 18 38	ScS e 20.8
Chihuahua	53.0	326	—	—	20 34	SS	—	e 29.2
Washington	54.1	358	i 9 26	0	—	—	e 10 10	PcP
Fayetteville	54.3	341	i 9 26	- 1	e 17 1	- 1	—	—
Lubbock	55.0	333	e 9 31	- 1	e 17 24	+13	e 19 20	ScS
Morgantown	55.0	356	i 9 31	- 1	—	—	—	—
Philadelphia	55.2	0	i 9 31	- 2	i 17 15	+ 2	e 18 36	? e 23.8
St. Louis	55.6	346	i 9 35	- 2	17 16	- 1	9 56	pP
Pittsburgh	55.8	356	—	—	i 19 25	ScS	—	—
Florissant	55.8	346	9 37 _a	- 1	17 19	- 3	19 22	ScS
Terre Haute	55.8	349	e 11 51	PP	i 17 26	+ 4	—	—
Pennsylvania	56.1	358	i 9 40	0	e 17 28	+ 3	—	—
Fordham	56.1	1	i 9 38	- 2	—	—	—	—
Palisades	56.2	1	i 9 40 _a	- 1	i 17 28	+ 1	e 18 28	sS e 27.3
Cleveland	57.0	354	i 9 43	- 3	i 17 38	+ 1	—	—
Tucson	58.4	325	e 9 56	0	e 18 0	+ 4	i 10 23	PcP e 25.6
Ottawa	60.6	0	e 10 10 _k	- 1	18 25	+ 1	22 16	SS 28.4
Brebeuf	60.7	1	i 10 6 _a	- 6	—	—	—	—
Shawinigan Falls	61.8	2	i 10 19 _a	0	—	—	—	—
Boulder	61.9	334	e 10 20	0	—	—	—	—
Barratt	62.1	321	e 10 23	+ 1	e 18 50	+ 6	i 10 39	pP
Hayfield	62.2	322	e 10 23	+ 1	—	—	i 10 34	pP
Seven Falls	62.5	3	e 10 57 _a	-19	18 47?	- 1	25 4	SSS 27.0
Palomar	62.7	321	i 10 27	+ 1	e 39 36	P'P'	i 10 41	pP
Boulder City	63.4	325	i 10 30	0	e 20 19	ScS	—	—
Riverside	63.5	321	i 10 30	- 1	e 19 3	+ 2	e 10 46	pP
Kirkland Lake	63.5	356	e 10 29 _a	- 2	—	—	e 10 38	pP
Pasadena	64.1	321	i 10 36	+ 2	i 19 14	+ 6	i 10 51	pP e 27.0
Rapid City	64.5	338	e 10 37	0	—	—	—	—
M'Bour	64.8	66	i 10 36	- 3	e 19 21	+ 3	—	—
China Lake	64.9	323	i 10 40	0	e 39 34	P'P'	e 10 56	pP
Isabella	65.3	322	i 10 43	+ 1	e 39 35	P'P'	i 10 59	pP
Salt Lake City	65.5	330	i 10 35	- 8	—	—	i 10 55	pP
King Ranch	65.8	321	e 10 48	+ 2	—	—	—	—
Tinemaha	66.1	323	i 10 48	+ 1	i 19 39	+ 6	—	—
Eureka	66.6	327	i 10 51	+ 1	—	—	i 12 59	PP
Fresno	66.8	322	e 10 28	-24	—	—	—	—
Lick	68.3	322	e 11 2	+ 1	—	—	i 11 28	PcP
Reno	68.7	324	e 11 4	0	—	—	—	—
Berkeley	69.0	322	e 11 7	+ 1	i 20 14	+ 6	e 24 52	SS e 39.0
Butte	69.9	333	e 11 9	- 2	—	—	—	—
Shasta	70.9	324	e 11 19	+ 1	—	—	—	—
Hungry Horse	72.3	334	i 11 26	0	—	—	e 14 11	PP
Corvallis	74.0	326	e 11 38	+ 2	—	—	13 40	?
Banff	75.1	335	e 11 42	- 1	—	—	—	—
Seattle	75.6	329	e 11 49	+ 4	21 26	+ 3	—	e 38.3
Victoria	76.7	329	i 11 52	+ 1	i 21 40	+ 4	—	—
Horseshoe Bay	77.3	330	e 11 58	+ 4	i 21 50	+ 9	—	—
Malaga	84.5	50	i 12 33 _k	+ 1	23 3	+ 7	24 0	PS 40.5
Granada	85.3	49	i 12 36 _a	0	i 23 12	+ 8	—	i 44.6
Toledo	86.0	47	i 12 40 _a	0	e 23 23	+12	—	44.3
Tamanrasset	87.7	66	e 12 48	0	e 23 21	- 6	e 16 11	PP 48.8
Alicante	88.0	49	12 47	- 3	23 37	+ 7	23 13	SKS e 41.5
Algiers Univ.	90.1	52	e 12 59	0	e 25 4	PS	e 16 38	PP

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		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Resolute		90.8	355	i 13	2k	- 1	e 23	31	[- 2]	e 16	39	PP	e 34.9
Kimberley	z.	91.2	120	i 13	5k	0							
Kew		92.9	37				e 24	22	+ 8	e 23	48	SKS	39.3
Clermont-Ferrand		93.1	43	e 13	16	+ 3	e 23	55	[+ 9]				
Paris		93.7	40	e 13	18	+ 2	e 24	24	+ 3	e 23	47	SKS	e 39.3
Aberdeen		94.1	31				e 25	46	PS	i 31	33	SS	
De Bilt		96.3	38	e 13	28	0	e 24	6	[+ 3]	e 17	16	PP	e 41.3
College		96.7	336	i 13	28	- 2	e 24	7	[+ 2]	e 17	27	PP	e 40.7
Strasbourg		97.0	42	e 13	32	+ 1	e 24	10	[+ 3]	e 17	24	PP	e 45.3
Ebingen		97.6	42	e 13	34	0							
Stuttgart		97.9	42	13	36 _a	+ 1	e 24	16	[+ 5]	e 17	32	PP	
Florence		98.1	47	e 13	36	0	i 24	58	0	e 17	33	PP	e 47.3
Rome		98.5	49	e 13	39 _a	+ 1	e 24	18	[+ 3]	e 17	34	PP	
Jena	z.	99.9	40	e 13	44	0				e 17	41	PP	
Messina		100.0	53	e 15	12	?	e 24	24	[- 3]	e 17	47	PP	46.9
Triest		100.2	45	e 13	48	+ 2	24	28	[- 5]	e 17	49	PP	
Copenhagen		101.4	35				32	46	SS				46.3
Taranto		101.8	51	e 23	16	?							
Lwiro		102.9	96	e 17	35	?							
Bratislava		102.9	43	i 14	7	+ 9				e 17	30	?	
Astrida		103.7	97	18	11	[- 4]				e 19	20	PP	
Riverview		113.9	221	i 18	33 _a	[- 4]	i 25	31	[+ 8]	29	33	PS	e 53.3
Jerusalem		115.3	62	i 18	42	[+ 2]				i 19	41	PP	
Ksara		115.9	60	i 19	47	PP				i 29	23	PS	
Rabaul		129.1	251	e 19	9	[+ 2]	e 22	29	SKP				
Quetta		142.4	60	e 19	30	[- 1]	e 26	38	[0]	e 22	39	PP	
Matusiro		143.6	311	19	32	[- 1]	e 40	16	SS	22	50	PP	66.4
Bombay		149.4	79	i 19	46	[+ 3]	42	45	SS	23	22	PP	e 76.9
Colombo	E.	154.2	107	19	20	[- 30]							e 83.1
Madras	E.	156.1	92	e 23	59	PKS							
Lembang	z.	157.6	188	19	48	[- 6]	23	26	PKS	20	28	PKP ₂	
Shillong	z.	164.3	48	i 20	5	[+ 4]							
Baguio City		164.7	276	i 20	5	[+ 4]							

Oct. 12d. 12h. 22m. 52s. Epicentre 42°·22N. 144°·55E. Depth of focus =0.004R.

A = -0.6051, B = +0.4308, C = +0.6695; δ = -4; h = -3;
D = +0.580, E = +0.815; G = -0.545, H = +0.388, K = -0.743.

		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Kusiro		0.8	352	i 0	14	- 2	i 0	25	- 3				
Obihiro		1.2	305	i 0	25	+ 3	i 0	43	+ 5				
Urakawa		1.3	268	i 0	25	+ 2	e 0	47	+ 7				
Nemuro		1.3	34	e 0	17	- 6	i 0	33	- 8				
Abashiri		1.8	354	e 0	29	- 1	i 0	53	+ 1	e 0	46	PP	
Tomakomai		2.2	279	i 0	37	+ 2	i 1	9	+ 7				
Asahigawa		2.2	315	e 0	36	0	e 1	4	+ 2	i 0	50	PP	
Sapporo		2.5	291	i 0	40	+ 1	i 1	12	+ 3	i 0	50	PP	
Muroran		2.7	274	e 0	43	+ 1	e 1	24	+ 11				
Hatinohe		2.8	234	e 0	42	- 2	i 1	17	0				
Hakodate	N.	2.9	262	e 0	48	+ 3	e 1	23	+ 4				
Mori		3.0	269	i 0	48	+ 2	1	17	- 4				
Aomori		3.2	245	i 0	50	+ 1	e 1	28	+ 3				
Miyako	E.	3.2	218	e 0	47	- 3	e 1	25	- 2	2	11	SS	
Suttsu		3.2	282	i 0	49	- 1	e 1	26	- 2				
Morioka		3.6	227	i 0	54	- 1	i 1	54	- 2				
Kurilsk		3.8	37	i 0	55	- 3				i 1	13	PP	
Mizusawa		4.0	221	0	59	- 2	1	45	- 2				
Akita		4.2	235	e 1	6	+ 3	e 1	50	- 1				
Isinomaki		4.5	214	e 1	5	- 3	e 1	57	- 3				

Continued on next page.

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1956		505									
		Δ	Az.	P.	O-C.	S.	O-C.	Supp.		L.	
		°	°	m. s.	s.	m. s.	s.	m.	s.	m.	
Sendai		4.8	216	e 1 10	- 2	e 2 4	- 4	—	—	—	
Sakata		4.9	229	e 1 22	+ 9	e 2 19	+10	—	—	—	
Yuzno-Sakhlinsk		4.9	345	i 1 19	+ 6	i 2 14	+ 5	—	—	—	
Yamagata		5.1	220	e 1 13	- 3	i 2 13	- 1	—	—	—	
Hukushima	N.	5.4	216	e 1 18	- 3	2 20	- 3	—	—	—	
Onahama		6.0	209	e 1 33	+ 5	i 2 30	- 6	—	—	—	
Shirakawa		6.1	215	e 1 35	+ 5	e 2 35	- 4	—	—	—	
Aikawa		6.4	231	1 34	0	—	—	—	—	—	
Mito		6.6	210	e 1 36	- 1	e 2 46	- 6	—	—	—	
Utunomiya	N.	6.7	214	e 1 37	- 1	e 2 49	- 5	—	—	—	
Kakioka	E.	6.9	211	e 1 37	- 4	2 51	- 7	—	—	—	
Takada		7.0	226	e 1 44	+ 1	—	—	—	—	—	
Ulegorsk		7.1	347	e 1 43	0	e 3 1	- 2	—	—	—	
Tyosi	E.	7.1	205	e 1 43	- 1	2 56	- 8	—	—	—	
Maebasi	Z.	7.2	218	i 1 45k	0	i 3 2	- 4	—	—	—	
Kumagaya		7.3	215	e 1 43	- 3	e 3 9	+ 1	—	—	—	
Nagano	N.	7.4	224	e 1 50	+ 2	e 3 10	- 1	—	—	—	
Matusiro		7.5	223	i 1 47a	- 2	3 11	- 2	i 2 47	?	4.0	
Oiwake		7.5	220	e 1 56	+ 7	e 3 16	+ 3	e 2 56	?	—	
Tokyo		7.5	211	i 1 50	0	e 3 8	- 6	—	—	e 3.8	
Titibu		7.5	216	e 1 50	0	e 3 12	- 3	—	—	—	
Wazima		7.6	233	e 1 53	+ 2	e 3 19	+ 2	—	—	—	
Yokohama		7.8	211	e 2 3	PP	e 3 18	- 5	—	—	—	
Matumoto		7.8	223	e 1 55	+ 1	e 3 23	0	—	—	—	
Toyama		7.9	228	e 1 56	+ 1	e 3 47	SS	—	—	—	
Kohu		8.1	217	e 1 57	0	e 3 24	- 4	—	—	—	
Hunatu		8.1	216	e 1 56	- 1	e 3 28	0	—	—	—	
Mera		8.2	208	e 2 32	+33	—	—	—	—	—	
Misima		8.3	213	e 2 2	+ 1	3 28	- 6	—	—	—	
Kanazawa		8.3	230	e 2 17	+15	—	—	—	—	—	
Osima	N.	8.5	210	2 11	+ 7	—	—	—	—	—	
Iida		8.5	220	e 2 13	+ 9	e 3 50	+12	—	—	—	
Shizuoka		8.7	216	—	—	3 39	- 4	—	—	—	
Hukui		8.9	229	e 2 6	- 3	—	—	—	—	—	
Omaesaki		9.1	215	e 2 30	PPP	—	—	—	—	e 4.9	
Gihu		9.1	224	e 2 14	+ 3	e 3 52	- 2	—	—	e 5.0	
Nagoya	E.	9.2	222	e 2 24	+11	e 4 14	SS	—	—	—	
Tsuruga		9.3	228	e 2 14	0	4 0	+ 2	—	—	—	
Vladivostok		9.4	280	2 16	+ 1	e 4 3	+ 3	—	—	—	
Hikone		9.5	226	2 16	- 1	—	—	—	—	e 4.8	
Kameyama		9.7	223	e 2 22	+ 3	e 4 14	+ 6	—	—	e 4.9	
Tu		9.8	223	e 2 42	PPP	—	—	—	—	—	
Hatidyozima		9.8	204	—	—	e 4 2	- 7	—	—	—	
Kyoto		10.0	227	2 23	0	4 19	+ 5	—	—	e 5.9	
Toyooka		10.1	232	e 2 24	- 1	—	—	—	—	—	
Nara		10.2	225	e 2 26	0	—	—	—	—	—	
Osaka		10.3	226	e 2 35	+ 7	e 4 54	SSS	—	—	—	
Kobe		10.5	227	e 3 9	+38	e 4 38	+11	—	—	e 5.7	
Sumoto		10.9	227	e 2 33	- 4	—	—	—	—	e 6.1	
Yonago		11.0	236	i 2 36	- 2	—	—	—	—	—	
Tokusima		11.3	227	e 3 3	PPP	e 4 57	+11	—	—	e 6.3	
Takamatu		11.4	230	e 2 41	- 2	e 4 59	+10	—	—	e 6.9	
Hamada		12.2	237	e 2 54	+ 1	—	—	—	—	6.4	
Koti		12.3	229	e 2 52	- 2	—	—	3 34	?	6.6	
Matuyama	N.	12.5	232	e 2 56	- 1	—	—	4 14	?	e 6.3	
Changchun		14.2	283	e 3 9	-10	e 6 50	+55	—	—	—	
Saga		14.4	236	e 3 29	+ 7	—	—	—	—	—	
Kumamoto		14.4	234	e 3 20	- 3	—	—	—	—	8.1	
Petropavlovsk		14.4	36	i 3 25	+ 2	—	—	—	—	—	
Miyazaki		14.7	230	e 3 24	- 2	e 6 31	SS	—	—	e 8.6	
Dairen		17.7	267	e 4 4	0	—	—	—	—	—	
Peking		21.4	274	i 4 44a	- 1	8 38	+ 3	—	—	—	
Z6-S6		21.7	247	4 44a	- 4	8 44	+ 4	5 9	PP	—	
Nanking		22.8	252	e 4 59	0	—	—	—	—	—	
Irkutsk		28.8	304	i 5 54a	0	e 10 43	+ 5	e 12 50	SSS	—	

Continued on next page.

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1956

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		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Tiksi Bay		30.5	350	e 6	58	PP	—	—	—	—	—	—
Hong Kong		32.2	241	e 6	26	+ 1	e 11	46	+ 13	—	—	—
Canton		32.3	244	e 6	29	+ 4	e 11	41	+ 7	—	—	—
Baguio City		32.9	226	i 6	23	- 8	e 11	52	+ 8	—	—	—
Manila		34.2	223	e 6	40	- 2	e 12	4	0	—	—	—
College		43.4	35	i 7	51	- 8	i 14	22	- 1	i 9	20	PP e 17.5
Semipalatinsk		43.9	304	i 8	2	- 1	e 14	31	+ 1	—	—	—
Shillong		46.0	266	i 8	15	- 5	e 15	19	+ 19	—	—	—
Rabaul		46.7	169	e 8	25	0	e 15	14	+ 4	i 8	36	pP
Frunse		50.1	296	i 8	52	0	i 16	22	PS	—	—	—
Sverdlovsk		52.9	317	i 9	12	- 1	16	39	+ 3	18	57	ScS
Dehra Dun		53.7	280	e 9	21	+ 3	e 17	14	PPS	—	—	—
Tashkent		54.4	296	e 9	22	- 1	e 16	58	+ 2	i 17	18	PS
Lahore		55.7	284	9	32	0	—	—	—	—	—	—
Stalinabad		56.0	294	e 9	36	+ 1	e 17	27	+ 9	—	—	—
Resolute Bay		57.0	16	e 9	39 ^k	- 3	e 17	29	- 1	e 20	51	SS e 27.8
Lembang	z.	59.3	224	e 9	8	- 50	—	—	—	—	—	—
Sodankyla		61.1	337	i 10	8	- 3	—	—	—	i 10	20	pP
Victoria		61.1	49	e 10	9	- 2	—	—	—	—	—	—
Quetta		61.8	286	e 10	15	0	e 18	38	+ 6	10	29	pP
Seattle	z.	62.2	50	e 10	26	+ 8	—	—	—	e 11	35	?
Madras	E.	62.4	262	e 10	16	- 4	—	—	—	—	—	—
Kiruna		62.5	339	i 10	18 ^a	- 2	—	—	—	i 10	31	pP
Ashkabad		63.3	298	10	26 ^a	+ 1	e 18	52	0	—	—	—
Corvallis		63.4	53	e 10	30	+ 4	—	—	—	e 12	46	PP
Poona		63.6	272	10	28	+ 1	—	—	—	—	—	—
Banff		63.9	44	e 10	16	- 13	—	—	—	—	—	—
Bombay		64.1	273	e 10	34	+ 3	e 19	30	PS	23	32	SS
Moscow		64.5	323	10	31	- 2	19	9	+ 2	—	—	—
Pulkovo		65.0	329	i 10	36	0	e 19	16	+ 4	i 10	46	pP
Shasta		66.1	56	e 10	49	+ 5	—	—	—	—	—	—
Hungry Horse		66.4	45	i 10	45	0	e 19	32	+ 3	—	—	—
Scoresby Sund		67.2	355	e 10	49	- 1	—	—	—	—	—	36.1
Berkeley		67.9	58	e 11	3	+ 8	—	—	—	—	—	—
Skalstugan		68.0	339	i 10	53	- 2	—	—	—	—	—	—
Reno		68.4	56	e 10	58	0	e 19	59	+ 5	—	—	—
Lick		68.6	59	e 10	58	- 1	—	—	—	—	—	—
Butte	N.	68.6	47	i 10	56	- 3	—	—	—	—	—	—
Upsala		69.3	334	i 11	2 ^a	- 2	—	—	—	i 11	14	pP
Brisbane		69.8	172	e 11	38	sP	—	—	—	—	—	—
Goris		70.0	305	i 11	9	+ 1	i 20	20	+ 8	21	9	ScS
Fresno		70.1	58	e 11	7	- 1	—	—	—	—	—	—
Eureka		70.8	54	i 11	13	+ 1	—	—	—	14	22	PP
Tinemaha	z.	70.9	57	e 11	12	- 1	—	—	—	11	22	pP
King Ranch	z.	71.0	59	e 11	14	0	—	—	—	—	—	—
China Lake	z.	72.1	58	i 11	20	0	—	—	—	—	—	—
Salt Lake City		72.4	51	e 11	21	- 1	—	—	—	—	—	—
Pasadena		72.8	59	e 11	24	0	e 20	37	- 7	—	—	e 29.3
Simferopol		73.3	316	11	27	0	e 20	53	+ 3	—	—	—
Riverside	z.	73.4	59	11	26	- 2	—	—	—	—	—	—
Boulder City		73.7	56	i 11	30	0	—	—	—	i 11	51	pP
Palomar	z.	74.1	59	i 11	33	+ 1	—	—	—	i 11	45	pP
Lwow		74.6	325	i 11	35	0	—	—	—	i 11	47	PcP
Barratt	z.	74.7	59	i 11	35	0	—	—	—	i 11	47	PcP
Hayfield	N.	74.7	58	e 11	42	+ 7	—	—	—	—	—	—
Rapid City	E.	74.8	44	e 11	36	0	—	—	—	—	—	—
Iasi		74.9	321	e 11	38	+ 2	—	—	—	e 11	49	pP
Riverview		75.9	174	i 11	21 ^a	- 21	—	—	—	—	—	e 33.2
Boulder		76.6	48	e 11	46	0	—	—	—	—	—	—
Hamburg	z.	76.9	334	i 11	49 ^a	+ 1	—	—	—	i 12	0	pP e 48.1

Continued on next page.

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1956

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	Δ	Az.	P.		O-C.	S.	O-C.	Supp.		L.		
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	m.	s.	m.		
Prague	78.3	330	i 11	56	+ 1	e 21	47	+ 2	e 14	33	PP	—
Budapest	78.5	326	12	1	+ 4	—	—	—	e 17	31	PPP	e 43.1
Jena	78.6	332	e 11	57	0	e 15	5	PP	12	9	pP	—
Witteveen	78.6	335	11	58	+ 1	—	—	—	12	10	pP	—
Tucson	78.7	57	e 11	58	0	—	—	—	—	—	—	—
Bratislava	78.8	327	i 12	0	+ 2	e 21	54	+ 4	i 16	21	PPP	—
Cheb	79.0	331	e 12	0	0	—	—	—	12	18	pP	—
Melbourne	z. 79.7	180	e 12	9	+ 6	—	—	—	—	—	—	—
De Bilt	79.7	336	—	—	—	22	8?	+ 8	—	—	—	e 37.1
Belgrade	80.0	323	i 12	6 _a	+ 1	e 22	28	+25	e 12	18	pP	—
Safed	80.9	306	i 12	10	+ 1	—	—	—	—	—	—	—
Stuttgart	81.2	332	i 12	11 _a	0	e 22	18	+ 2	12	24	pP	e 39.1
Karlsruhe	z. 81.3	332	e 12	12 _a	0	—	—	—	e 12	23	PcP	—
Rathfarnham C.	z. 81.6	343	i 12	7	- 6	—	—	—	e 16	3	?	—
Kirkland Lake	81.8	28	e 12	30	+16	—	—	—	—	—	—	—
Kew	81.8	339	e 12	14	0	—	—	—	e 22	28	SKS	e 39.1
Ebingen	81.8	332	12	14	0	—	—	—	e 12	27	pP	—
Jerusalem	81.9	306	i 12	15	0	—	—	—	i 12	28	pP	—
Strasbourg	81.9	333	i 12	16	+ 1	e 22	42	+19	e 12	27	pP	e 40.6
Triest	82.1	328	i 12	15	- 1	i 22	38	+13	i 12	27	pP	—
Basle	82.9	332	e 12	20	0	—	—	—	—	—	—	—
Lubbock	83.1	50	e 12	24	+ 3	—	—	—	—	—	—	—
Paris	83.4	336	i 12	22	0	e 22	39	+ 1	i 12	34	PcP	e 44.1
Neuchatel	83.5	332	e 12	23	0	—	—	—	—	—	—	—
Besançon	83.6	333	i 12	25	+ 1	—	—	—	e 12	37	pP	—
Florence	84.7	328	i 12	29	0	i 22	55	+ 4	i 12	41	pP	e 44.1
Florissant	85.2	40	12	33	+ 2	—	—	—	—	—	—	—
St. Louis	85.4	40	e 12	31	- 1	e 22	54	- 3	12	43	pP	—
Fayetteville	85.4	44	i 12	32 _a	0	—	—	—	—	—	—	—
Shawinigan Falls	85.6	25	e 12	32	- 1	—	—	—	—	—	—	—
Ottawa	85.6	27	12	33	- 1	23	0	0	—	—	—	—
Seven Falls	85.7	23	e 12	14?	-20	22	30	-30	—	—	—	—
Rome	85.8	326	i 12	34 _a	0	e 22	56	[+ 4]	e 16	19	PP	—
Clermont-Ferrand	85.9	334	e 12	38	+ 3	—	—	—	—	—	—	42.6
Monaco	86.1	330	e 12	36 _a	0	—	—	—	e 13	32	?	—
Brébeuf	86.3	26	i 12	36 _k	- 1	—	—	—	—	—	—	—
Messina	87.5	322	e 12	41	- 2	e 23	20	+ 3	e 16	32	PP	45.1
Morgantown	89.1	33	i 12	52	+ 2	—	—	—	—	—	—	—
Weston	89.8	26	i 12	54	0	—	—	—	—	—	—	—
Palisades	90.1	28	i 12	55	0	i 23	41	- 1	e 23	22	SKS	e 42.5
Philadelphia	90.6	29	—	—	—	e 23	46	0	—	—	—	e 44.2
Toledo	93.5	336	e 13	11	0	—	—	—	15	11	PP	50.5
Algiers Univ.	z. 93.9	330	e 16	46	PP	—	—	—	—	—	—	—
Almeria	95.7	334	13	35	+14	—	—	—	13	47	pP	—
Tamanrasset	105.1	321	e 14	9	+ 6	e 24	44	[+ 9]	e 18	26	PP	—
Astrida	110.0	285	e 19	3	PP	—	—	—	—	—	—	—
Lwiro	110.4	286	e 18	48	[+ 22]	—	—	—	e 19	7	PP	—
M'Bour	121.2	339	e 20	17	PP	e 23	13	PPP	e 27	23	?	—
Pretoria	z. 125.9	266	e 18	55	[- 1]	—	—	—	—	—	—	—
Kimberley	z. 130.1	265	e 18	49	[- 15]	—	—	—	—	—	—	—
Huancayo	z. 134.1	61	e 19	15	[+ 4]	e 22	37	PKS	—	—	—	—
La Paz	142.1	57	e 19	32	[+ 6]	e 23	22	PKS	—	—	—	71.1
Santa Lucia	z. 151.0	84	i 18	48	[- 51]	—	—	—	—	—	—	—

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1956

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Oct. 13d. 5h. 4m. 39s. Epicentre 9°·22N. 69°·72W.

A = +·3422, B = -0·9261, C = +0·1592; δ = +11; h = +7;
D = -0·938, E = -0·347; G = +0·055, H = -0·149, K = -0·987.

		Δ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.	
				m.	s.		m.	s.		m.	s.		
Galerazamba		5·7	286	i 1	30	+ 2	i 2	43	+ 9	—	—	—	
Bogota		6·3	224	i 1	34	- 2	i 3	11	0*	i 2	3	P _g	—
Chinchina		7·2	235	i 1	45	- 4	i 3	13	0	—	—	—	—
Trinidad		8·2	79	i 2	2	- 1	e 3	31	- 7	—	—	—	—
St. Vincent		9·2	64	i 2	14k	- 2	—	—	—	—	—	—	—
San Juan		9·7	21	i 2	21	- 3	e 3	58	-10	—	—	—	i 4·2
Fort de France		10·0	56	i 2	25	- 3	i 4	13	- 9	—	—	—	—
Dominica		10·1	53	e 2	26	- 4	—	—	—	—	—	—	—
Barbados		10·7	68	e 2	38	+ 1	—	—	—	—	—	—	—
Huancayo		21·8	195	i 4	56	0	i 8	54	+ 1	—	—	—	i 11·8
La Paz		25·6	176	i 5	35	+ 3	10	21	+22	—	—	—	i 13·7
Columbia		26·8	339	e 5	47	+ 4	e 11	29	SS	—	—	—	e 16·0
Tacubaya		30·2	293	e 6	39	+24	e 11	6	- 8	e 7	32	PPP	—
Morgantown		31·6	345	i 6	33	+ 6	—	—	—	—	—	—	—
Fayetteville		34·8	324	i 6	53 _a	- 1	—	—	—	—	—	—	—
Halifax		35·7	7	e 6	59	- 3	—	—	—	—	—	—	—
Brébenf		36·3	355	e 7	6	- 1	—	—	—	—	—	—	—
Ottawa		36·4	353	e 7	6	- 2	—	—	—	—	—	—	—
Shawinigan Falls		37·3	356	e 7	15	0	—	—	—	—	—	—	—
Lubbock		38·2	314	i 7	22	- 1	—	—	—	—	—	—	—
Kirkland Lake		39·8	349	e 7	39	+ 3	—	—	—	—	—	—	—
Santa Lucia		42·4	181	7	55	- 3	—	—	—	9	28	PP	—
Boulder		44·1	320	e 8	11	0	—	—	—	—	—	—	—
Tucson		44·4	307	i 8	13	- 1	—	—	—	—	—	—	—
Rapid City	E.	45·3	326	i 8	21	0	—	—	—	—	—	—	—
Hayfield	N.	48·7	307	e 8	53	+ 6	—	—	—	—	—	—	—
Salt Lake City		48·7	317	e 8	47	- 1	—	—	—	—	—	—	—
Boulder City		48·8	310	i 8	48	- 1	—	—	—	i 9	20	?	—
Barratt		49·2	305	e 8	51	0	—	—	—	—	—	—	—
Palomar	Z.	49·5	306	i 8	53	- 1	—	—	—	—	—	—	—
Riverside	Z.	50·1	307	e 8	58	- 1	—	—	—	—	—	—	—
Pasadena	Z.	50·8	307	e 9	4	0	—	—	—	—	—	—	—
China Lake	Z.	50·9	309	e 9	4	- 1	—	—	—	e 9	36	?	—
Eureka		51·0	314	i 9	4	- 1	—	—	—	—	—	—	—
Isabella	Z.	51·5	308	e 9	9	0	—	—	—	e 10	25	PcP	—
Tinemaha	Z.	51·8	310	e 9	11	0	—	—	—	—	—	—	—
Butte	N.	51·8	323	e 9	11	0	—	—	—	e 11	19	PP	—
King Ranch	Z.	52·4	308	e 9	16	0	—	—	—	—	—	—	—
Reno		53·8	313	e 9	26	0	—	—	—	—	—	—	—
Hungry Horse		53·8	325	i 9	26	- 1	—	—	—	e 11	25	PP	—
Lick		54·4	309	i 9	31	0	—	—	—	—	—	—	—
Berkeley		55·1	310	i 9	35	- 1	—	—	—	—	—	—	—
Shasta		56·0	313	e 9	40	- 3	—	—	—	—	—	—	—
Corvallis		58·0	317	e 9	55	- 1	—	—	—	—	—	—	—
Victoria		59·5	321	e 10	7	0	—	—	—	—	—	—	—
Horseshoe Bay		59·7	322	e 10	10	+ 1	—	—	—	—	—	—	—
Granada		65·5	53	11	19k	PcP	—	—	—	—	—	—	i 34·0
Paris		71·4	42	e 11	27	+ 3	—	—	—	—	—	—	—
Clermont-Ferrand		71·5	45	e 11	28	+ 4	—	—	—	—	—	—	—
Tamanrasset		72·9	69	i 11	34k	+ 1	—	—	—	—	—	—	—
Monaco		74·4	47	e 11	42	+ 1	—	—	—	e 12	8	PcP	—
Strasbourg		74·9	42	e 11	45	+ 1	—	—	—	e 12	3	PcP	—
Ebingen		75·6	43	e 11	50	+ 1	—	—	—	—	—	—	—
Stuttgart		75·8	42	e 11	50	0	—	—	—	e 12	13	PcP	—
College		76·6	335	e 11	54	0	—	—	—	—	—	—	—
Florence	Z.	77·2	47	e 11	57	0	—	—	—	e 13	18	?	—
Jena		77·4	40	e 12	0	+ 2	—	—	—	—	—	—	—
Bratislava		81·1	43	i 12	21	+ 3	—	—	—	i 12	43	?	—
Kiruna		81·6	23	e 12	19	- 2	—	—	—	—	—	—	—
Sodankyla		84·0	23	i 12	35	+ 2	—	—	—	—	—	—	—

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1956

509

Oct. 13d. 8h. 21m. 12s. Epicentre 36°·32N. 71°·28E. Depth of focus = 0·009R.

A = +0·2592, B = +0·7649, C = +0·5897; $\delta = 0$; $h = 0$;
D = +0·947, E = -0·321; G = +0·189, H = +0·558, K = -0·808.

	Δ °	Az. °	P.		O-C.	S.		O-C.	Supp.		L.
			m.	s.	s.	m.	s.	m.	s.	m.	
Khorog	1·2	12	i 0	24	+ 2	e 0	42	+ 3	—	—	—
Kulyab	2·0	323	i 0	33	+ 1	—	—	—	—	—	—
Obi-garm	2·7	333	i 0	43	+ 1	—	—	—	—	—	—
Garm	2·8	344	i 0	43	0	—	—	—	—	—	—
Dzhergetal	2·9	359	0	46	+ 1	1	21	+ 2	—	—	—
Murgab	2·9	45	0	48	+ 2	—	—	—	e 1	40	?
Stallnabad	3·0	319	e 0	47	+ 1	e 1	23	+ 2	—	—	—
Fergana	4·1	5	i 1	1	0	—	—	—	—	—	e 2·2
Andijan	4·5	11	i 1	7	0	e 2	11	+12	e 1	25	?
Namangan	4·7	4	i 1	9	0	e 2	5	+ 3	—	—	—
Samarkand	4·8	316	1	9	- 2	2	5	0	i 1	48	?
Tashkent	5·2	343	i 1	16	- 1	i 2	13	- 4	i 1	44	?
Lahore	5·4	151	1	19	0	—	—	—	—	—	—
Tchimkent	6·1	348	i 1	27	- 2	i 3	2	?	—	—	—
Naryn	6·3	34	i 1	30	- 2	i 2	38	- 2	—	—	—
Frunse	7·0	20	i 1	41	- 1	2	58	- 3	3	48	?
Quetta	z. 7·1	212	e 1	43	0	—	—	—	—	—	—
Rybach'e	7·2	30	i 1	43	- 1	i 3	7	+ 3	i 1	54	PP
Dehra Dun	8·2	135	e 1	58	0	i 3	25	- 6	2	7	PP
Kurmenty	8·6	37	—	—	—	i 3	1	-39	—	—	—
New Delhi	N. 9·2	145	e 2	9	- 2	i 3	50	- 4	2	17	PP
Ashkabad	10·4	283	e 2	22	- 6	4	18	- 6	i 3	53	PPP
Kizyl-Arvat	12·2	287	e 2	47	- 4	e 4	55	-11	—	—	—
Semipalatinsk	15·5	22	e 3	30	- 4	e 6	15	- 8	—	—	—
Chatra	16·5	120	i 3	41	- 6	i 6	33	-13	—	—	—
Baku	17·2	290	i 3	59	+ 3	i 7	20	+18	—	—	—
Bombay	17·4	175	e 3	59	+ 1	e 7	17	+10	4	30	PPP
Bokaro	17·7	126	e 4	13	+11	e 7	24	+11	—	—	—
Poona	z. 17·9	172	i 3	47	-17	7	24	+ 7	—	—	i 8·9
Makhach-Kala	19·4	297	e 4	24	+ 3	e 7	55	+ 4	—	—	—
Goris	19·9	287	i 4	26	- 1	e 8	11	+10	4	57	PP
Shillong	20·6	116	i 4	33	- 1	e 8	3	-11	—	—	—
Tiflis	21·2	293	e 3	44	-56	e 7	36	-49	e 4	15	?
Sverdlovsk	21·7	344	e 5	20	PP	e 8	44	+ 9	—	—	—
Madras	E. 24·6	159	e 5	20	+ 8	e 9	25	+ 1	6	9	PP
Sotchi	25·1	296	e 5	23	+ 5	—	—	—	e 5	51	PP
Ksara	29·0	276	e 5	54	+ 1	e 10	24	-12	e 6	57	PP
Simferopol	29·3	299	e 6	2	+ 6	—	—	—	e 6	50	PP
Moscow	29·9	321	e 6	1	0	e 10	18	-32	e 6	33	PP
Jerusalem	30·1	272	i 6	3	0	—	—	—	—	—	i 17·8
Pulkovo	35·2	325	i 6	51	+ 4	—	—	—	—	—	—
Lwow	36·4	307	6	58	0	—	—	—	e 8	21	PP
Hong Kong	z. 39·6	99	e 7	49	+25	—	—	—	—	—	—
Sodankyla	40·0	335	i 7	27	0	—	—	—	i 8	46	PP
Bratislava	41·0	304	e 7	29	- 6	—	—	—	i 9	14	pP
Upsala	41·3	322	i 7	38k	0	1	9	15	i 8	8	pP
Kiruna	42·3	334	i 7	46k	0	—	—	—	i 9	21	PP
Prague	42·6	307	i 7	48	- 1	—	—	—	i 8	26	pP
Triest	43·6	301	i 7	57	+ 1	1	9	35	e 8	16	pP
Jena	44·4	309	e 8	3	0	e 9	50	PP	e 8	52	pP
Skalstugan	44·0	328	i 8	3k	0	—	—	—	—	—	—
Florence	45·7	299	e 8	21	+ 8	e 15	24	PPS	e 9	3	pP
Tiksi Bay	45·8	22	e 8	35	+20	e 14	45	- 6	e 9	13	pP
Stuttgart	46·2	306	i 8	18k	+ 1	e 10	8	PP	e 9	4	pP
Ebingen	46·4	305	e 8	18	- 1	e 10	57	PPP	e 9	7	pP
Karlsruhe	z. 46·7	306	e 8	21k	0	—	—	—	e 8	56	pP
Strasbourg	47·1	306	e 8	26	+ 1	e 10	16	PP	e 9	0	pP
Basle	47·4	304	e 8	28	+ 1	—	—	—	—	—	—
Monaco	48·4	299	e 8	33	- 1	e 10	36	PP	e 8	58	pP
Paris	50·5	307	e 9	2	+12	e 19	47	SS	—	—	e 22·8

Continued on next page.

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1956

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Clermont-Ferrand	50.8	303	e 8	58	+ 5	—	—	—	—	—	—
Kew	51.7	311	i 8	59k	- 1	e 16	14	+ 1	e 9	33	pP
Matusiro	52.8	68	e 9	6	- 2	—	—	—	e 9	32	pP
Astrida	54.7	234	e 9	22	0	—	—	—	e 9	52	pP
Rathfarnham C. z.	54.8	314	i 9	20k	- 3	—	—	—	i 9	56	pP
Lwiro	55.1	235	e 9	24	- 1	—	—	—	—	—	—
Tamanrasset	57.8	276	e 9	42	- 2	e 11	45	PP	e 10	19	PcP
Tananarive	59.3	206	e 9	54	- 1	—	—	—	e 10	19	pP
Pretoria z.	73.9	220	i 11	27 _a	0	—	—	—	—	—	—
College	74.6	16	i 11	28	- 3	—	—	—	e 11	56	pP
Pietermaritzburg	76.0	216	i 11	39k	0	—	—	—	—	—	—
Kimberley z.	78.1	221	i 11	20	-30	—	—	—	—	—	—
Grahamstown z.	80.9	217	i 12	15	+10	—	—	—	—	—	—
Banff	92.7	4	e 13	3	0	—	—	—	—	—	—
Hungry Horse	95.6	4	e 13	16	0	—	—	—	—	—	—
Eureka	104.3	6	e 13	58	+ 3	—	—	—	—	—	—
Santa Lucia	148.8	264	19	36	[+ 3]	—	—	—	19	54	pP'

Oct. 13d. 15h. 12m. 33s. Epicentre 49°·33N. 155°·38E. Depth of focus = 0.006R.

A = -0.5948, B = +0.2726, C = +0.7563; δ = +9; h = -5;
D = +0.417, E = +0.909; G = -0.688, H = +0.315, K = -0.654.

	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Petropavlovsk	4.3	27	e 1	3	- 2	i 1	53	- 2	i 1	25	?
Kurilsk	6.5	234	i 1	35	- 1	i 2	53	+ 3	—	—	—
Klyuchi	7.7	23	i 1	53	+ 1	—	—	—	—	—	—
Ulegorsk	8.7	273	i 2	7	+ 1	i 3	51	+ 7	—	—	—
Yuzno-Sakhlinsk	8.8	259	i 2	8	+ 1	i 3	54	+ 9	—	—	—
Nemuro	9.0	232	e 2	4	- 6	e 3	41	-11	—	—	—
Sapporo	11.5	242	e 2	48	+ 4	e 5	5	+13	—	—	—
Mizusawa	14.4	230	3	53	+31	5	50	-10	—	—	—
Matusiro	17.9	231	i 4	1 _a	- 4	7	22	+ 3	—	—	8.9
Changchun	21.3	266	e 4	38	- 5	—	—	—	—	—	—
Tiksi Bay	25.5	341	e 5	22	- 1	e 9	41	- 1	e 5	46	sP
Peking	29.1	266	e 5	56	0	—	—	—	—	—	—
Zô-Sô	31.5	247	e 6	18	+ 1	e 11	21	+ 2	—	—	—
Irkutsk	31.9	295	e 6	21	+ 1	—	—	—	—	—	—
Nanking	32.3	251	e 6	23	- 1	11	33	+ 2	—	—	—
College	33.2	41	i 6	32	0	—	—	—	16	56	pP
Baguio City	43.3	233	i 7	57	+ 1	—	—	—	—	—	—
Resolute	47.9	20	8	24	- 9	e 15	14	-10	—	—	e 22.1
Victoria	50.8	58	e 8	57	+ 1	—	—	—	—	—	—
Corvallis	53.2	62	e 9	37	+24	—	—	—	—	—	—
Rabaul	53.4	184	e 9	13	- 2	—	—	—	e 9	25	pP
Banff	53.5	51	e 9	15	- 1	—	—	—	—	—	—
Shillong z.	54.0	268	e 9	17	- 2	—	—	—	—	—	—
Hungry Horse	56.0	54	i 9	35	+ 1	—	—	—	i 9	48	pP
Shasta	56.0	65	e 9	35	+ 1	—	—	—	—	—	—
Berkeley	57.9	68	e 10	2	+15	—	—	—	—	—	—
Tashkent	57.9	297	e 10	7	+20	—	—	—	—	—	—
Butte N.	58.3	55	e 9	51	+ 2	—	—	—	—	—	—
Reno	58.3	65	e 9	51	+ 1	—	—	—	—	—	—
Kiruna	58.4	342	i 9	48	- 2	—	—	—	—	—	—
Lick	58.6	68	e 10	7	+15	—	—	—	—	—	—
Eureka	60.6	63	i 10	5	- 1	—	—	—	i 10	21	pP
Tinemaha z.	60.9	66	e 10	8	+ 1	—	—	—	i 10	23	pP
King Ranch z.	61.1	68	e 10	11	+ 2	—	—	—	e 10	25	pP
Isabella z.	61.7	67	e 10	12	- 1	e 39	44	P'P'	e 10	25	pP

Continued on next page.

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1956

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		Δ	Az.	P.		O-C.	S.	O-C.	Supp.		L.		
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	m.	s.	m.		
China Lake	z.	62.1	67	i 10	16	0	—	—	i 10	30	pP	—	
Salt Lake City		62.1	59	e 10	16	0	—	—	—	—	—	—	
Pasadena		62.9	68	e 10	19	-2	e 18	45	+ 2	i 10	34	pP	i 28.8
Riverside	z.	63.4	68	e 10	23	-2	—	—	—	i 10	39	pP	—
Boulder City		63.6	65	i 10	6	-20	—	—	—	i 10	41	pP	—
Palomar	z.	64.2	68	i 10	44	+14	—	—	—	i 10	59	pP	—
Rapid City	E.	64.5	51	e 10	33	+2	—	—	—	—	—	—	—
Hayfield	N.	64.7	67	e 10	33	0	—	—	—	e 10	47	pP	—
Barratt	z.	64.8	69	e 10	33	0	—	—	—	i 10	47	pP	—
Boulder		66.2	56	i 10	44	+1	—	—	—	—	—	—	—
Quetta	z.	66.8	290	e 10	45	-1	—	—	—	—	—	—	—
Lembang	z.	69.7	232	i 10	5 _a	-59	—	—	—	—	—	—	—
Kirkland Lake		71.8	35	e 11	31	+14	—	—	—	—	—	—	—
Lubbock		72.8	58	e 11	24	+1	—	—	—	e 11	39	pP	—
Fayetteville		75.0	52	i 11	35 _k	-1	—	—	—	e 11	50	pP	—
Jena	z.	75.4	337	e 11	37	-1	—	—	—	e 12	9	sP	—
Ottawa		75.7	34	e 11	52	+13	—	—	—	—	—	—	—
Shawinigan Falls		75.8	32	e 11	40	0	—	—	—	—	—	—	—
Brébeuf		76.4	33	i 10	58 _k	-45	—	—	—	—	—	—	—
Bratislava		76.4	333	i 11	44	+1	—	—	—	i 12	39	?	—
Brisbane		76.5	182	i 12	3	+19	—	—	—	—	—	—	—
Rathfarnham C.	z.	76.6	349	i 11	27	-17	—	—	—	—	—	—	—
Kew		77.5	345	e 11	50	+1	—	—	—	—	—	—	e 42.4
Stuttgart		78.0	338	e 11	52	0	—	—	—	e 12	23	pP	—
Strasbourg		78.5	339	e 11	56	+1	—	—	—	e 12	18	pP	—
Ebingen		78.6	338	e 11	56	0	—	—	—	—	—	—	—
Basle		79.6	338	e 12	4	+3	—	—	—	—	—	—	—
Triest		79.7	334	i 11	59	-2	e 21	57	+1	—	—	—	—
Palisades		80.1	36	e 12	18	+14	—	—	—	—	—	—	e 43.7
Besançon		80.2	339	e 12	4	0	—	—	—	e 12	20	PcP	—
Neuchatel		80.2	339	e 12	5	+1	—	—	—	—	—	—	—
Florence	z.	82.1	335	e 12	13	-1	—	—	—	—	—	—	—
Clermont-Ferrand		82.2	341	e 12	15	0	—	—	—	—	—	—	—
Monaco		83.2	337	e 12	20	0	—	—	—	e 12	30	PcP	—
Jerusalem		83.3	312	i 12	22	+2	—	—	—	i 12	35	pP	—
Melbourne		87.3	188	e 12	40	0	—	—	—	e 12	56	pP	—
Tamanrasset		103.4	332	13	43	-10	—	—	—	—	—	—	—
Huancayo	z.	124.2	66	i 14	16	P	—	—	—	—	—	—	—
Kimberley	z.	137.4	280	i 18	47	[-28]	—	—	—	—	—	—	—

Oct. 13d. 18h. 53m. 55s. Epicentre 5°·17S. 148°·38E.

A = -0.8481, B = +0.5222, C = -0.0895; δ = -2; h = +7;
D = +0.524, E = +0.852; G = +0.076, H = -0.047, K = -0.996.

		Δ	Az.	P.		O-C.	S.	O-C.	Supp.		L.		
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	m.	s.	m.		
Rabaul		3.9	76	0	55	-6	—	—	—	—	—		
Guam		18.9	349	i 4	26	+4	—	—	—	—	—		
Brisbane		22.6	169	i 5	4	+2	i 9	3	-1	—	—		
Riverview		28.6	175	i 5	47 _a	-11	i 10	20	-25	i 6	8	pP	e 13.3
Melbourne		32.6	185	e 6	24	-10	i 11	25	-23	e 6	47	pP	e 17.0
Manila		33.5	306	e 6	15	-26	—	—	—	e 8	20	PPP	—
Baguio City		34.9	308	i 6	57	+4	—	—	—	—	—	—	—
Perth		40.5	225	e 7	56	+16	i 13	40	-8	—	—	—	i 21.3
Bandung		40.5	265	e 7	50	+10	e 13	41	-8	—	—	—	—
Lembang		40.6	266	6	36 _k	-65	e 12	29	-80	—	—	—	—
Karapiro	N.	40.9	147	7	45	+1	—	—	—	—	—	—	—
Kyoto		41.7	344	7	49 _a	-1	14	34	PPS	—	—	—	—
Cobb River	E.	41.9	152	e 7	57	+5	—	—	—	—	—	—	—
Kaimata	N.E.	42.4	155	e 8	8	+12	—	—	—	—	—	—	—
Matusiro		42.6	348	i 7	56 _a	-1	14	9	-10	8	10	pP	21.3

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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1956

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		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Wellington		43.0	151	7	45	-16	13	55	-30	e 17	23	SS	—
Hong Kong		43.2	310	e 8	33	+31	e 14	5?	-23	—	—	—	—
Zò-Sò		44.4	326	i 8	10 _a	-2	e 14	42	-4	—	—	—	—
Nanking		46.5	325	e 8	41	+12	e 15	39	PPS	—	—	—	—
Macquarie Is.	z.	49.9	172	i 8	48	-7	—	—	—	—	—	—	—
Changchun		53.0	339	9	29	+10	—	—	—	—	—	—	—
Peking		53.9	330	e 9	22	-3	—	—	—	—	—	—	—
Petropavlovsk		58.7	7	10	10	+10	18	31	PPS	—	—	—	—
Shillong	z.	62.7	302	e 10	20	-7	—	—	—	—	—	—	—
Irkutsk		68.3	333	10	57	-6	20	0	-2	—	—	—	—
Frunse		81.7	314	12	15	-5	—	—	—	—	—	—	—
Namangan		83.4	312	12	36	+8	—	—	—	—	—	—	—
College		83.9	23	i 12	23	-8	—	—	—	i 12	36	pP	—
Quetta		85.2	301	e 12	29	-8	e 22	54	-11	12	40	PcP	—
Shasta		92.7	50	e 13	20	+7	—	—	—	—	—	—	—
King Ranch	z.	94.5	55	e 13	29	+8	—	—	—	e 13	56	pP	—
Isabella	z.	95.5	55	e 13	27	+1	—	—	—	e 13	52	pP	—
Pasadena	z.	95.7	56	i 13	33	+6	—	—	—	i 13	59	pP	e 43.9
China Lake	z.	96.3	55	e 13	35	+6	—	—	—	e 13	57	pP	—
Riverside	z.	96.4	56	i 13	35	+5	—	—	—	e 14	1	pP	—
Palomar	z.	96.8	57	e 13	38	+6	—	—	—	—	—	—	—
Barratt	z.	96.9	58	e 13	37	+5	—	—	—	—	—	—	—
Eureka		97.6	51	e 13	30	-5	—	—	—	—	—	—	—
Tananarive		98.5	250	e 13	29	-10	—	—	—	14	10	pP	—
Hungry Horse		98.9	42	e 13	35	-6	—	—	—	—	—	—	—
Resolute Bay		101.8	14	—	—	—	e 27	5	SP	22	29	SS	e 57.3
Moscow		105.9	327	18	55	PP	—	—	—	—	—	—	—
Rapid City	E.	106.8	46	e 14	1	-16	—	—	—	—	—	—	—
Ksara		111.5	304	e 18	32	[-2]	—	—	—	—	—	—	—
Kimberley	z.	116.2	235	i 18	35	[-8]	—	—	—	—	—	—	—
Astrida		118.2	264	e 18	54	[+7]	—	—	—	—	—	—	—
Lwiro		119.2	264	e 18	56	[+7]	—	—	—	e 20	31	PP	—
Triest		123.7	323	e 19	11	[+13]	e 26	33	[+35]	e 23	37	PPP	—
Stuttgart		124.5	328	e 18	52	[-7]	—	—	—	—	—	—	—
Ottawa		124.6	36	e 18	54 _k	[-5]	—	—	—	—	—	—	—
Strasbourg		125.3	329	e 18	53	[-8]	—	—	—	e 43	17	SSS	63.1
Shawinigan Falls		125.6	34	e 18	55 _k	[-6]	—	—	—	—	—	—	—
Florence	z.	126.2	322	e 19	10	[+8]	—	—	—	20	27	PP	—
Seven Falls		126.3	32	18	50	[-13]	—	—	—	—	—	—	—
Santa Lucia		126.7	139	i 18	55	[-8]	—	—	—	i 19	8	PKP	—
Paris		127.8	332	e 19	13	[+8]	—	—	—	e 21	11	PP	e 63.1
Palisades		128.0	40	22	21	PP	34	8	PPS	e 38	33	SS	60.3
Clermont-Ferrand		129.5	329	e 19	49	[+40]	e 22	45	PKS	—	—	—	—
Halifax		131.8	30	e 19	21	[+8]	e 22	53	PKS	—	—	—	e 63.1
Huancayo		133.3	112	e 19	23	[+7]	e 21	48	PP	e 22	59	sPP	—
Chinchina		136.2	88	i 19	14	[-7]	—	—	—	i 24	8	PPP	—
La Paz		138.0	121	19	20	[-5]	26	37	[+5]	i 22	31	PP	65.4
Tamanrasset		140.1	300	19	29	[+1]	e 22	53	PP	20	21	PKP ₂	—
San Juan		143.9	66	e 19	26	[-9]	—	—	—	e 19	40	PKP ₂	—
Dominica		149.1	69	e 19	41	[-3]	—	—	—	—	—	—	—
Fort de France		149.4	70	e 19	41	[-3]	—	—	—	i 19	53	PKP ₂	—
St. Vincent		149.7	78	i 19	41	[-4]	—	—	—	i 19	56	PKP ₂	—
Trinidad		149.9	73	e 19	36	[-9]	—	—	—	e 19	55	PKP ₂	—

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1956

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Oct. 14d. 21h. 5m. 36s. Epicentre 37°34N. 141°57E. Depth of focus = 0.004R.

$\Delta = -0.6244$, $B = +0.4954$, $C = +0.6039$; $\delta = -1$; $h = -1$;
 $D = +0.622$, $E = +0.783$; $G = -0.473$, $H = +0.375$, $K = -0.797$.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Onahama		0.7	234	e 0 11k	- 5	e 0 20	- 7	—	—
Hokusima		1.0	296	i 0 17k	- 2	0 30	- 3	—	—
Sendai		1.1	331	i 0 18k	- 2	i 0 30	- 5	—	—
Shirakawa		1.1	259	i 0 18k	- 3	i 0 32	- 4	—	—
Isinomaki		1.1	350	i 0 18	- 3	i 0 31	- 5	—	—
Kakioka	N.	1.6	226	i 0 23k	- 4	0 41	- 6	—	—
Utunomiya		1.6	240	e 0 25k	- 2	e 0 45	- 2	0 38	PP
Tyosi		1.7	200	e 0 26	- 3	0 57	+ 7	—	—
Mizusawa		1.8	349	0 27	- 3	0 44	- 9	—	—
Kashiwa		2.0	221	e 0 30k	- 2	e 0 53	- 3	—	—
Sakata		2.1	319	e 0 34	0	e 1 0	+ 1	—	—
Niigata		2.1	287	e 0 33	- 1	1 0	+ 1	—	—
Kumagaya		2.1	237	e 0 32	- 2	e 0 57	- 3	—	—
Tokyo		2.2	222	i 0 33k	- 3	i 1 2	0	—	—
Maebasi		2.2	246	i 0 35k	- 1	1 1	- 1	—	—
Miyako	E.	2.3	8	e 0 33a	- 3	e 1 2	- 3	—	—
Morioka		2.4	353	e 0 37k	- 1	e 1 3	- 3	—	—
Titibu		2.4	237	i 0 36	- 3	i 1 4	- 3	—	—
Yokohama		2.4	220	i 0 39	0	i 1 9	+ 1	—	—
Oiwake		2.6	248	e 0 42	0	e 1 27	SS	—	—
Akita		2.6	335	0 41	- 1	e 1 12	- 1	—	—
Takada		2.7	266	0 43	+ 1	1 15	+ 2	—	—
Aikawa		2.7	285	0 41	- 2	1 23	+ 8	—	—
Nagano	N.	2.8	257	e 0 44	0	e 1 12	- 5	—	—
Mera		2.8	211	0 43	- 1	e 1 17	0	—	—
Matusiro		2.8	255	i 0 43k	- 1	1 17	0	1 27	SS
Hunatu		2.9	232	0 45	- 1	1 24	+ 5	—	—
Kohu		3.0	236	e 0 44	- 2	e 1 22	- 1	—	—
Ajiro		3.0	222	0 48	+ 1	1 27	+ 4	—	—
Misima		3.1	224	e 0 47	- 1	e 1 25	+ 1	—	—
Matumoto		3.1	250	e 0 50	+ 2	1 24	0	—	—
Osima		3.1	215	e 0 48	0	1 25	0	—	—
Hatinohe	Z.	3.2	359	e 0 48k	- 1	e 1 25	- 2	—	—
Shizuoka		3.5	228	0 54	0	1 35	+ 1	—	—
Iida		3.5	240	i 0 57	+ 3	e 1 36	+ 1	—	—
Aomori		3.5	350	e 0 54	0	e 1 38	+ 3	—	—
Toyama		3.5	261	e 0 53	- 2	e 1 36	0	—	—
Takayama	N.	3.7	252	e 0 58	+ 2	—	—	—	—
Wazima		3.7	272	e 0 57	0	—	—	—	—
Omaesaki		3.8	226	e 1 1	+ 2	—	—	—	—
Kanazawa		4.0	260	e 1 18	+ 17	—	—	—	—
Nagoya	E.	4.3	241	e 1 6	+ 1	1 58	+ 3	—	—
Gihu		4.3	245	e 1 7	+ 2	e 1 57	+ 2	—	—
Hukui		4.4	255	e 1 10	+ 3	—	—	—	—
Hatidyozima		4.5	199	i 1 11	+ 4	1 55	- 4	—	—
Hakodate	N.	4.5	352	e 1 8	0	e 2 0	+ 1	—	—
Tsuruga	E.	4.7	251	1 11	0	2 8	+ 3	—	—
Hikone		4.8	246	e 1 10	- 2	2 8	+ 2	—	—
Kameyama		4.8	240	e 1 13	+ 1	e 2 10	+ 3	—	—
Mori		4.8	351	1 16	+ 4	2 16	+ 8	—	—
Tu		4.8	239	1 13	0	—	—	e 1 39	?
Urakawa		4.9	11	e 1 15	+ 2	e 2 6	- 3	—	—
Muroran		5.0	355	e 1 17	+ 2	e 2 17	+ 5	—	—
Tomakomai		5.2	0	e 1 21	+ 4	e 2 23	+ 7	—	—
Kyoto		5.3	246	e 1 18	0	e 2 26	+ 8	—	—
Nara		5.3	242	e 1 29	+ 9	e 2 38	+ 17	—	—
Owase	N.	5.4	235	e 1 25	+ 4	—	—	—	—
Suttsu		5.5	350	e 1 29	+ 7	e 2 33	+ 7	—	—
Osaka		5.6	243	e 1 43	+ 20	e 2 37	+ 11	—	—
Obihiro	Z.	5.7	12	e 1 23	- 2	—	—	—	—

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Sapporo	5.7	358	e 1	30	+ 5	e 2	30	0	2	42	?	—
Toyooka	5.7	254	e 1	26	+ 1	e 2	31	+ 1	e 2	14	?	—
Kobe	5.8	245	—	—	—	e 2	33	0	3	5	?	—
Kusiro	6.0	20	e 1	25	- 4	e 2	28	-10	3	0	?	—
Sumoto	6.2	243	e 1	32	+ 1	e 2	57	SS	—	—	—	—
Asahigawa	6.5	5	e 1	36	0	—	—	—	—	—	—	—
Tokusima	6.5	242	e 1	33	- 3	e 3	19	+28	—	—	—	—
Nemuro	6.7	26	e 1	36	- 3	e 2	44	-11	—	—	—	—
Takamatu	6.8	246	e 1	41	+ 1	e 3	28	+31	—	—	—	—
Abashiri	7.0	16	e 1	48	+ 1	e 2	54	- 7	—	—	—	—
Koti	7.6	242	e 1	52	+ 2	e 2	58	-18	—	—	—	—
Hirosima	8.0	251	—	—	—	e 3	51	SS	—	—	—	—
Matuyama	8.0	247	e 1	55	- 1	e 3	30	+ 4	4	30	?	—
Changchun	13.9	303	e 3	15	- 1	e 5	49	- 1	—	—	—	—
Zò-Sè	18.0	256	e 4	7	0	—	—	—	—	—	—	—
Peking	20.0	286	e 4	26	- 4	8	8	+ 1	—	—	—	—
Shillong	z. 43.5	269	i 7	58	- 2	—	—	—	—	—	—	—
College	48.8	32	i 8	40	- 1	—	—	—	—	—	—	—
Frunse	50.3	298	8	52	- 1	—	—	—	—	—	—	—
Sverdlovsk	55.0	318	9	26	- 2	—	—	—	—	—	—	—
Quetta	61.0	287	e 10	8	- 2	—	—	—	e 10	20	pP	—
Resolute	62.3	14	10	31	+13	—	—	—	—	—	—	—
Sodankyla	64.7	337	i 10	32	- 2	i 10	59	PcP	i 10	45	pP	—
Kiruna	66.3	339	i 10	43 _a	- 1	—	—	—	—	—	—	—
Moscow	67.1	323	e 10	48	- 1	—	—	—	—	—	—	—
Shasta	70.8	53	e 11	24	+12	—	—	—	—	—	—	—
Hungry Horse	71.5	43	e 11	15	- 1	—	—	—	i 11	27	pP	—
Upsala	72.7	334	i 11	22	- 2	—	—	—	—	—	—	—
Lick	73.2	56	i 11	26	0	—	—	—	i 13	17	?	—
Butte	N. 73.7	44	e 11	29	0	—	—	—	—	—	—	—
Tinemaha	z. 75.5	54	e 11	52	+12	—	—	—	—	—	—	—
Eureka	75.6	51	i 11	41	+ 1	i 13	33	PP	i 11	53	pP	—
King Ranch	z. 75.6	57	e 11	53	+13	—	—	—	e 12	7	pP	—
Isabella	76.2	56	i 11	43	- 1	—	—	—	i 11	55	pP	—
China Lake	z. 76.7	55	e 11	48	+ 1	—	—	—	e 11	58	pP	—
Pasadena	77.3	57	e 12	3	+13	—	—	—	—	—	—	e 34.7
Copenhagen	z. 77.7	333	e 11	52	0	e 12	0	PcP	i 12	4	pP	—
Riverside	z. 77.9	56	e 11	53	0	—	—	—	e 12	3	pP	—
Boulder City	78.4	54	e 11	56	0	—	—	—	e 12	8	pP	—
Palomar	z. 78.7	57	e 11	59	+ 2	—	—	—	e 12	12	pP	—
Barratt	z. 79.2	57	e 12	0	0	—	—	—	i 12	12	pP	—
Hayfield	N. 79.3	56	e 12	16	pP	—	—	—	—	—	—	—
Rapid City	E. 80.0	41	e 12	4	- 1	—	—	—	e 12	19	pP	—
Jena	z. 81.7	331	e 12	12	- 2	—	—	—	e 12	26	pP	—
Safed	81.9	305	i 12	17	+ 3	—	—	—	—	—	—	—
Witteveen	82.0	334	e 12	16	+ 1	—	—	—	—	—	—	—
Jerusalem	82.8	304	i 12	19	0	—	—	—	i 20	44	?	—
Tucson	83.3	54	e 12	22	0	—	—	—	e 13	30	?	—
Stuttgart	84.4	331	e 12	27	0	—	—	—	12	40	pP	—
Ebingen	85.0	330	e 12	32	+ 2	—	—	—	e 12	44	pP	—
Triest	85.0	326	e 12	28	- 2	—	—	—	e 12	43	pP	—
Strasbourg	85.1	331	e 12	30	- 1	—	—	—	e 12	44	pP	—
Basle	86.0	331	e 12	34	- 1	—	—	—	—	—	—	—
Paris	86.8	334	e 12	39	0	—	—	—	e 12	53	pP	e 52.4
Florence	87.5	326	e 12	41	- 2	—	—	—	e 13	14	?	—
Fayetteville	90.5	42	i 12	57 _k	0	—	—	—	e 13	9	pP	—
Tamanrasset	107.3	318	e 18	38	PP	—	—	—	—	—	—	—
La Paz	N. 146.6	60	19	44	[+11]	—	—	—	e 23	17	PP	—

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1956

515

Oct. 19d. 12h. 0m. 42s. Epicentre 20°·81S. 178°·95W. Depth of focus = 0·094R.

A = -0·9354, B = -0·0171, C = -0·3532; $\delta = +2$; $h = +4$;
D = -0·018, E = +1·000; G = +0·353, H = +0·006, K = -0·936.

		Δ	Az.	P.		O-C.	S.		O-C.	Supp.	
		°	°	m.	s.	s.	m.	s.	s.	m.	s.
Suva	N.	3·6	316	i 1	24	- 1	i 2	33	- 1	—	—
Apia		9·8	46	2	15 _a	- 2	4	9	+ 2	—	—
Nouméa		13·7	261	i 3	1	+ 7	—	—	—	—	—
Onerahi	E.	16·0	200	e 3	18	+ 1	e 5	54	- 1	e 13	29
Karapiro	N.	17·7	194	3	32	- 1	e 6	33	+ 9	5	58
											ScS
											sP
New Plymouth	E.	19·2	197	e 3	51	+ 5	—	—	—	—	—
Wellington		21·1	193	i 4	0	- 3	7	10	- 9	14	3
Cobb River	E.	21·4	197	e 4	3	- 3	e 7	16	- 8	e 14	0
Kaimata	N.E.	23·1	198	e 4	18	- 3	e 7	46	- 5	14	7
Christchurch		23·7	195	e 4	30	+ 3	e 8	0	- 1	—	—
											ScS
											ScS
											ScS
Brisbane		26·4	250	i 4	50	0	17	33	?	—	—
Riverview		29·4	238	5	17	+ 1	i 9	27	- 3	i 12	37
Rabaul		32·6	296	e 5	43	0	e 10	23	+ 5	i 7	23
Melbourne		35·5	233	i 6	7	0	i 10	57	- 4	i 8	17
Macquarie IIs.	z.	37·6	201	i 6	24	0	—	—	—	—	—
											sS
											pP
											PcP
											—
Baguio City		69·9	297	10	7	- 4	—	—	—	—	—
Matusiro		69·9	324	i 10	10	- 1	18	34	+ 2	12	25
Mirny		70·3	205	e 10	11	- 2	e 23	25	SS	e 12	15
Bandung		72·1	269	e 10	22	- 1	e 18	57	+ 1	—	—
Lembang		72·1	269	i 10	21 _k	- 2	i 18	57	0	e 12	33
											pP
Djakarta		73·1	270	—	—	—	19	7	0	e 22	55
Yuzno-Sakhlinsk		75·8	334	10	44	0	—	—	—	12	56
Petropavlovsk		76·1	346	10	43	- 3	e 19	41	+ 1	e 13	37
Zó-Sè		77·2	310	10	49	- 3	—	—	—	—	—
Vladivostok		78·0	325	i 10	57	+ 1	i 20	5	+ 5	e 16	42
											PP
Hong Kong		78·0	299	i 10	57 _k	+ 1	—	—	—	—	—
Berkeley		79·0	42	i 11	1 _k	0	—	—	—	—	—
Lick		79·1	43	i 11	2 _k	+ 1	—	—	—	—	—
Canton		79·1	300	e 11	3	+ 1	—	—	—	—	—
Nanking		79·4	310	e 11	4	+ 1	—	—	—	—	—
Pasadena		79·5	47	i 11	3 _k	- 1	i 20	18	+ 3	e 13	15
Barratt	z.	79·8	49	i 11	5 _k	0	—	—	—	i 13	18
Fresno		79·9	44	i 11	7 _k	+ 1	—	—	—	—	—
Riverside	z.	80·0	48	i 11	4 _k	- 2	—	—	—	e 13	18
Palomar	z.	80·0	49	i 11	7 _k	+ 1	—	—	—	e 13	19
											pP
											pP
Isabella	z.	80·2	46	i 11	8 _k	+ 1	e 37	54	P'P'	e 13	24
Shasta		80·6	40	e 11	10 _k	+ 1	—	—	—	i 12	59
China Lake	z.	80·9	46	i 11	12 _k	+ 1	e 37	50	P'P'	e 13	26
Mineral		80·9	41	e 11	15	+ 4	—	—	—	—	—
Hayfield	N.	81·1	49	i 11	12 _a	0	—	—	—	e 13	34
											pP
Tinemaha	z.	81·1	45	i 11	12 _a	0	—	—	—	e 13	25
Reno		81·5	42	e 11	14 _k	0	—	—	—	—	—
Changchun		82·1	323	11	18 _k	+ 1	—	—	—	—	—
Corvallis		82·5	36	i 11	20	+ 1	—	—	—	—	—
Boulder City		82·8	47	i 11	21	0	—	—	—	i 13	35
											pP
Tucson		83·8	52	i 11	27	+ 2	i 29	38	PKKP	i 13	40
Eureka		84·0	44	i 11	26	0	e 29	37	PKKP	i 13	39
Victoria		84·9	34	i 11	31	0	—	—	—	—	—
Peking		85·5	316	e 11	34	+ 1	—	—	—	—	—
Horseshoe Bay		85·6	33	i 10	34	-60	—	—	—	—	—
Salt Lake City		87·3	44	i 11	42	0	—	—	—	—	—
College		88·7	13	i 11	46	- 3	e 21	40	- 2	i 14	3
Butte	N.	89·5	40	i 11	52	0	—	—	—	e 14	6
Hungry Horse		89·9	37	i 11	53	- 1	i 29	22	PKKP	14	8
Banff		90·6	34	i 11	18	-39	—	—	—	—	—
											pP
Boulder		91·4	47	i 12	2	+ 1	—	—	—	—	—
Shillong		98·0	294	13	4	+33	e 22	8	[0]	e 16	29
Huancayo		98·2	106	e 16	34	PP	—	—	—	—	—
Irkutsk		98·4	323	e 16	42	PP	—	—	—	—	—
Ottawa		113·7	48	i 17	27	[- 1]	—	—	—	—	—

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.	
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.
Shawinigan Falls	115.8	47	i 17	32 _a	[0]	—	—	—	—	—
Seven Falls	117.2	47	e 17	9	[-25]	—	—	—	—	—
Quetta	z. 120.5	293	i 17	43 _k	[+ 2]	—	—	—	—	—
Sverdlovsk	123.7	325	17	48	[+ 1]	—	—	—	e 19	35
Kimberley	z. 125.7	206	i 17	52 _k	[+ 1]	—	—	—	—	PP
Pretoria	z. 126.7	211	e 17	55	[+ 2]	—	—	—	—	—
Ashkabad	128.0	302	17	56	[+ 1]	—	—	—	i 20	9
Scoresby Sund	z. 128.5	10	i 17	56	[0]	—	—	—	—	PP
Sodankyla	130.7	347	i 18	0	[- 1]	i 20	29	SKP	—	—
Kiruna	131.4	350	i 17	49	[-13]	i 20	31	SKP	—	—
Moscow	135.7	331	e 20	39	PP	—	—	—	—	—
Pulkovo	135.9	339	e 20	45	PP	—	—	—	—	—
Tiflis	137.7	310	e 18	16	[+ 2]	—	—	—	—	—
Upsala	139.2	347	i 18	8 _k	[- 8]	i 20	54	SKP	21	15
Astrida	143.5	234	i 18	24	[- 1]	—	—	—	21	9
Simferopol	143.6	319	i 18	21	[- 4]	—	—	—	e 20	52
Copenhagen	z. 144.1	349	i 18	25	[- 1]	—	—	—	—	pP'
Lwiro	144.4	233	e 18	28	[+ 2]	—	—	—	e 20	51
Iasi	146.0	327	e 18	31	[+ 2]	—	—	—	—	pP'
Hamburg	z. 146.6	350	i 18	30	[+ 1]	—	—	—	i 20	36
Ksara	146.6	300	i 18	32	[+ 3]	—	—	—	i 21	2
Bacau	146.8	325	18	38	[+ 9]	—	—	—	—	pP'
Safed	147.1	299	i 18	32	[+ 2]	—	—	—	—	—
Focsani	147.2	325	e 18	42	[+12]	—	—	—	—	—
Jerusalem	147.6	297	i 18	29	[- 2]	—	—	—	—	—
Witteveen	147.7	354	e 18	32	[+ 1]	—	—	—	21	0
De Bilt	148.6	355	e 18	38	[+ 6]	—	—	—	—	pP'
Bucharest	148.6	324	e 18	40	[+ 8]	—	—	—	—	—
Campulung	148.6	327	e 18	42	[+10]	—	—	—	—	—
Jena	148.8	347	e 18	32	[0]	e 22	25	PP	e 21	7
Prague	148.9	343	i 18	40	[+ 7]	—	—	—	i 20	39
Kew	149.4	2	i 18	34 _a	[+ 1]	e 26	56	SKKS	i 18	41
Bratislava	149.8	338	i 18	36	[+ 2]	—	—	—	i 21	6
Timisoara	150.1	331	e 18	45	[+11]	—	—	—	—	pP'
Karlsruhe	z. 151.2	350	e 18	37	[+ 1]	—	—	—	—	—
Sofia	z. 151.3	324	i 17	36	[-60]	—	—	—	—	—
Stuttgart	151.3	349	18	36 _k	[0]	—	—	—	21	3
Strasbourg	151.8	350	i 18	38	[+ 1]	i 18	57	PKP ₂	i 21	6
Ebingen	152.0	349	e 18	37	[0]	—	—	—	—	pP'
Paris	152.0	358	e 18	38	[+ 1]	—	—	—	—	—
Basle	152.8	350	e 18	46	[+ 8]	—	—	—	—	—
Triest	153.1	340	i 18	42	[+ 3]	e 25	43	[+57]	i 19	3
Neuchatel	153.4	351	e 18	40	[+ 1]	—	—	—	19	3
Clermont-Ferrand	155.0	357	e 18	43	[+ 2]	—	—	—	e 19	11
Florence	155.6	342	e 18	54	[+12]	—	—	—	e 19	29
Monaco	156.5	348	e 18	44	[+ 1]	—	—	—	e 19	18
Messina	z. 158.6	327	i 18	45 _a	[- 1]	i 19	25	PKP ₂	e 21	12
Granada	163.2	13	19	34 _a	PKP ₂	—	—	—	—	pP'
Malaga	163.4	15	i 18	51 _a	[0]	i 23	34	PP	i 19	45
Algiers Univ.	z. 164.0	354	e 18	51	[0]	e 19	49	PKP ₂	e 21	17
Relizane	165.1	2	e 18	54	[+ 1]	e 19	55	PKP ₂	e 21	22
Tamanrasset	175.4	296	i 19	0 _k	[+ 2]	e 20	42	PKP ₂	e 21	25

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Oct. 19d. 14h. 5m. 34s. Epicentre 55°·86S. 122°·46W.

A = -0.3026, B = -0.4757, C = -0.8259; δ = -3; h = -8;
D = -0.848, E = +0.537; G = +0.443, H = +0.697, K = -0.564.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Concepción	38.6	82	e 6 50	-37	e 16 21	SSS	e 9 7	—
Santa Lucia	41.9	80	i 7 52	-2	e 14 20	+7	e 17 32	SSS
Christchurch	42.2	259	e 8 0	+3	e 14 23	+5	—	19.4
Wellington	42.5	263	i 8 2	+3	i 14 25	+3	e 9 38	PP
Karapiro	N. 44.4	267	e 8 15	+1	e 14 58	+9	—	e 19.4
Buenos Aires	47.9	91	e 8 41	-1	15 41	+2	—	—
Antofagasta	49.6	72	8 56	0	e 16 10	+6	—	21.9
Apia	56.4	298	e 9 35	-11	—	—	—	24.5
La Paz	56.7	69	i 9 48k	0	i 17 46	+6	i 11 51	PP
Huancayo	56.9	59	i 9 51	+2	e 17 46	+4	—	i 26.9
Riverview	60.8	252	i 10 17a	0	i 18 38	+4	i 18 54	PS
Melbourne	61.0	245	e 10 14	-4	e 18 36	0	—	e 28.0
Brisbane	64.7	258	i 10 42	-1	—	—	—	e 27.9
Chinchina	71.7	50	i 11 27	+1	i 20 49	+3	—	—
Bogota	72.1	51	i 11 31	+2	i 20 59	+8	—	34.4
Tacubaya	77.5	22	e 16 38	PPP	e 22 30	ScS	—	—
Perth	79.5	227	—	—	22 23	ScS	—	35.7
Rabaul	83.9	271	e 12 33	-1	e 23 8	+13	e 15 45	PP
San Juan	87.8	52	—	—	e 24 0	+25	e 24 38	PS
Tucson	88.3	10	i 12 58	+3	i 23 50	+11	e 13 40	? e 44.2
Barratt	Z. 88.3	5	e 12 55	0	—	—	—	e 42.7
Palomar	Z. 89.0	5	e 12 59	+1	—	—	—	—
Hayfield	N. 89.4	6	e 13 6	+6	—	—	—	—
Riverside	Z. 89.6	4	e 13 0	-1	—	—	—	—
Pasadena	89.7	4	e 12 56	-6	i 22 50	-62	i 24 56	PS e 41.9
Lubbock	90.8	17	e 13 12	+5	—	—	—	—
Isabella	Z. 91.2	3	e 13 10	+1	—	—	—	—
China Lake	Z. 91.4	4	e 13 9	-1	—	—	—	—
Boulder City	91.7	6	e 13 12	+1	—	—	—	—
Tinemaha	Z. 92.6	3	i 13 8	-7	—	—	—	—
Berkeley	93.4	0	—	—	31 24	?	—	43.6
Eureka	95.1	5	i 13 27	0	—	—	—	—
St. Louis	98.0	25	—	—	e 25 15	+11	e 26 45	PS
Florissant	98.2	25	—	—	e 32 0	PSS	—	—
Bermuda Navy	100.7	47	—	—	24 24	[-6]	32 44	SS
Palisades	104.9	36	—	—	24 58	[+8]	e 27 48	PS 50.5
Lembang	Z. 105.2	232	e 18 30k	[+6]	—	—	—	—
Djakarta	106.1	231	—	—	e 25 18	[+23]	e 29 57	PKKP
M'Bour	110.5	95	e 19 37	PP	—	—	—	—
Lwiro	117.5	147	i 19 59	PP	—	—	—	e 57.4
College	121.9	348	e 18 55	[-2]	e 36 31	SS	e 30 36	PS e 55.9
Matusiro	124.2	285	20 45	PP	30 58	PS	37 57	SS 57.6
Colombo	128.0	209	e 25 20	?	—	—	—	e 60.2
Tamanrasset	Z. 129.7	109	e 19 5	[-7]	e 22 41	PKS	e 21 17	PP
Resolute Bay	131.5	9	—	—	e 28 10	{-19}	e 39 10	SS
Malaga	134.8	88	16 3k	?	—	—	—	i 63.3
Relizane	136.9	93	e 19 29	[+4]	e 25 15	PPP	e 22 15	PP
Algiers Univ.	139.0	94	e 19 27	[-2]	e 23 11	PKS	e 22 19	PP
Poona	N. 140.7	205	—	—	e 23 29	PKS	—	—
Shillong	140.8	234	e 19 41	[+9]	e 23 5	PKS	—	e 68.4
Bombay	141.3	203	—	—	e 23 18	PKS	e 40 56	SS
Clermont-Ferrand	145.0	83	e 19 39	[-1]	—	—	—	—
Monaco	146.2	89	e 19 37	[-5]	—	—	—	—
Kew	146.3	73	e 19 40	[-2]	—	—	—	e 61.4
Paris	146.4	78	e 19 42	[0]	e 19 48	PKP ₂	e 23 12	? e 66.4
Messina	147.0	104	e 19 42	[-1]	42 11	SS	e 23 14	PP
Rome	147.9	96	e 19 47k	[+3]	e 27 34	[+43]	i 20 12	pP
Florence	148.4	93	e 19 50	[+5]	e 42 12	SS	—	—
Basle	148.5	84	e 19 32	[-14]	—	—	e 26 22	PPP
Strasbourg	149.2	82	e 19 55	[+8]	e 42 43	SS	—	e 68.4

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Ebingen	149.7	84	i 19 50	[+ 3]	—	—	e 20 6	PKP ₂	—
Karlsruhe	z. 149.8	82	e 20 1 _a	PKP ₂	—	—	—	—	—
Stuttgart	150.1	83	e 19 49	[+ 1]	23 26	PP	i 20 5	PKP ₂	—
Dehra Dun	150.6	218	e 19 51	[+ 2]	—	—	—	—	—
Witteveen	150.7	74	e 20 8	PKP ₂	—	—	—	—	—
Triest	150.9	92	i 19 48	[- 1]	—	—	i 20 17	PKP ₂	—
Jerusalem	151.3	138	i 19 52	[+ 2]	—	—	i 20 6	PKP ₂	—
Jena	z. 152.6	81	e 19 57	[+ 5]	e 23 48	PP	e 20 17	PKP ₂	—
Ksara	153.3	137	e 19 54	[+ 1]	i 23 55	PP	i 20 17	PKP ₂	74.4
Quetta	153.5	198	e 19 56	[+ 3]	i 43 16	SS	e 23 55	PP	—
Bratislava	z. 154.3	90	e 19 53	[- 1]	—	—	23 53	PP	—

Oct. 19d. 20h. 47m. 31s. Epicentre 52°·27N. 177°·40E.

A = -0.6139, B = +0.0279, C = +0.7889; $\delta = +1$; h = -6;
D = +0.045, E = +0.999; G = -0.788, H = +0.036, K = -0.615.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Klyuchi	10.5	299	i 2 33	- 2	4 39	+ 4	—	—	
Petropavlovsk	11.4	282	e 2 45	- 2	i 5 1	+ 4	i 2 58	PP	
Magadan	16.5	307	3 55	0	7 7	+ 9	—	—	
Kurilsk	20.6	262	i 4 43	0	i 8 39	+10	—	—	
College	21.7	41	i 4 53	- 2	i 8 49	- 2	i 12 2	PcS	i 10.8
Yuzno-Sakhlinsk	22.9	270	i 5 7	0	i 9 26	+13	5 52	PPP	—
Sitka	27.3	61	i 5 50	+ 2	e 10 19	- 8	i 4 41	PP	e 11.1
Mizusawa	28.2	257	e 6 21	+25	10 58	+16	—	—	—
Tiksi Bay	28.7	330	i 6 0	- 1	e 12 45	SSS	e 6 58	PP	—
Matusiro	31.6	256	i 6 27	0	11 36	0	e 9 19	PcP	12.6
Kyoto	34.2	256	6 48	- 1	14 20	SS	—	—	—
Changchun	35.1	277	e 6 58	+ 1	—	—	—	—	—
Honolulu	36.4	138	i 7 7	- 1	—	—	i 8 28	PP	e 16.6
Corvallis	39.1	77	e 7 41	+10	—	—	—	—	—
Resolute Bay	39.9	24	i 7 39k	+ 2	i 13 51	+ 8	e 9 14	PP	e 16.6
Banff	40.2	64	i 7 39	- 1	—	—	—	—	—
Shasta	41.9	81	i 7 53	- 1	—	—	—	—	—
Ukiah	42.3	84	e 7 58	+ 1	e 14 30	+11	—	—	e 19.2
Hungry Horse	42.5	67	e 7 57	- 2	e 13 49	-32	e 9 31	PP	—
Mineral	42.6	81	e 8 0	+ 1	—	—	—	—	—
Peking	42.9	279	8 2k	0	14 20	- 8	8 52	?	—
Irkutsk	42.9	300	8 1	- 1	17 53	ScS	—	—	—
Kwanting	43.1	279	e 8 6	+ 2	—	—	—	—	—
Berkeley	43.7	84	i 8 8k	0	e 14 41	+ 2	i 9 50	PP	e 20.7
Reno	44.1	81	e 8 12	0	—	—	—	—	—
Santa Clara	44.2	85	e 8 16 _a	+ 3	e 15 2	+15	(e 18 40)	SSS	e 18.7
Lick	44.4	85	i 8 14	0	—	—	e 9 59	PP	—
Saskatoon	44.5	58	e 8 12	- 3	i 14 44	- 7	—	—	—
Butte	N. 44.6	69	e 8 13	- 3	i 14 53	+ 1	—	—	i 16.9
Bozeman	45.7	68	—	—	e 15 11	+ 3	—	—	e 19.2
Zô-Sè	45.7	265	e 8 26	+ 2	e 15 4	- 4	—	—	—
Fresno	45.9	84	8 25k	- 1	—	—	—	—	—
Paotow	46.3	283	e 8 31	+ 2	—	—	—	—	—
Nanking	46.5	268	e 8 30	- 1	e 15 18	- 1	—	—	—
Eureka	46.5	78	i 8 28	- 3	i 13 39	ScP	—	—	—
Tinemaha	46.7	82	i 8 33k	+ 1	e 15 23	+ 1	—	—	—
Isabella	z. 47.5	84	i 8 36k	- 2	e 15 31	- 2	i 10 31	PP	—
China Lake	z. 47.9	83	i 8 41k	- 1	e 15 34	- 5	i 10 34	PP	—
Salt Lake City	48.2	74	i 8 42	- 2	i 15 39	- 4	e 19 27	SS	e 20.5
Pasadena	48.6	85	i 8 46k	- 2	e 15 38	-12	i 19 5	SS	e 21.0
Riverside	z. 49.2	85	i 8 51	- 1	e 16 1	+ 3	i 16 34	sS	—
Boulder City	49.5	81	i 8 53	- 1	—	—	i 9 42	?	—
Palomar	z. 50.0	85	i 8 57	- 1	e 15 51	-17	—	—	—
Hayfield	N. 50.5	84	i 9 0	- 2	—	—	—	—	—
Barratt	z. 50.6	86	i 9 1k	- 1	i 16 16	0	i 11 1	PP	—

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Sian	51.0	278	e 9	18	+12	—	—	—	—	—	—
Rapid City	51.1	66	i 9	5	-1	e 16	37	+14	—	—	e 24.0
Wuwei	52.4	285	e 9	16	0	—	—	—	—	—	—
Boulder	52.5	71	e 9	17	0	—	—	—	—	—	—
Tucson	54.4	82	i 9	31	0	e 17	7	-2	e 21	3	SS e 23.9
Semipalatinsk	56.1	310	e 9	41	-3	i 17	29	-3	—	—	—
Hong Kong	56.4	263	e 9	44	-1	e 17	39	+4	—	—	—
Scoresby Sund	56.8	8	i 9	51	+3	i 17	43	+3	e 21	20	SS 26.5
Sodankyla	58.7	347	i 10	1	-1	i 12	14	PP	i 10	53	PcP
Lubbock	58.9	74	e 10	2	-1	—	—	—	—	—	e 28.3
Kiruna	59.0	350	i 10	3	-1	i 18	3	-7	i 22	7	SS
Sverdlovsk	59.5	325	i 10	8	0	i 18	20	+3	12	28	PP
Chihuahua	59.9	81	e 10	15	+5	e 18	19	-2	e 13	43	PPP e 33.8
Rabaul	60.2	209	e 10	11	-1	—	—	—	12	20	PP
Kirkland Lake	60.2	49	e 10	11 _a	-1	e 18	35	+9	e 13	37	PPP
Chicago	61.1	58	—	—	—	e 18	30	-7	e 22	33	SS
Fayetteville	61.5	67	i 10	19 _a	-2	e 18	37	-5	e 30	46	PPS
Florissant	61.7	62	e 10	21	-2	18	47	+2	19	4	PS
St. Louis	61.9	62	e 10	22	-2	18	45	-2	i 20	10	ScS
Reykjavik	63.0	9	i 10	32	+1	—	—	—	—	—	—
Little Rock	63.5	67	e 10	35	+1	—	—	—	—	—	—
Frunse	64.2	307	i 10	49	+10	i 19	18	+2	i 15	10	PP
Ottawa	64.3	48	i 10	38 _k	-1	19	11	-6	11	15	PcP 26.5
Cleveland	64.4	55	i 10	41 _k	+1	i 19	19	+1	—	—	—
Shawinigan Falls	64.7	46	e 10	40 _k	-2	—	—	—	11	18	PcP
Buffalo (Larkin)	64.8	52	i 10	42	-1	—	—	—	—	—	—
Seven Falls	65.1	44	e 10	18?	-27	18	59?	-28	22	55?	SS 29.6
Brébeuf	65.1	47	i 10	43 _a	-2	—	—	—	—	—	—
Pulkovo	65.2	342	e 10	45	0	20	28	ScS	i 11	18	PcP
Upsala	67.0	349	i 10	56	-1	i 19	29	-22	i 11	51	PcP
Moscow	67.3	337	e 10	58	-1	19	55	+1	11	22	PcP
Shillong	67.5	283	e 10	56	-4	i 19	46	-11	13	33	PP 31.0
Tashkent	68.0	309	e 11	1	-2	i 20	3	+1	e 20	51	ScS
Palisades	68.5	50	i 11	5 _a	-1	i 20	4	-4	e 11	36	PcP e 31.8
Washington	68.6	54	e 10	38	-29	e 20	9	0	i 11	46	PcP e 27.6
Fordham	68.6	50	e 11	5	-2	e 20	6	-3	—	—	—
Chatra	69.4	287	i 11	10	-2	i 20	25	+7	—	—	—
Chapel Hill	69.9	57	e 11	10	-5	—	—	—	—	—	—
Halifax	70.2	42	i 11	15 _a	-1	20	23	-5	—	—	e 35.5
Columbia	70.3	60	e 11	16	-1	e 20	24	-5	e 24	55	SS e 28.2
Stalinabad	70.4	308	i 11	18	0	i 20	30	0	—	—	—
Tacubaya	70.9	83	i 11	22	+1	e 20	30	-6	e 13	59	PP
Aberdeen	70.9	0	—	—	—	20	39	+3	21	24	PS 40.9
Copenhagen	71.7	351	e 11	25	-1	i 20	47	+2	e 11	50	PcP 35.5
Dehra Dun	71.9	296	e 11	27	0	i 20	45	-3	e 25	3	SS
Bokaro	72.5	286	e 11	30	0	i 20	55	+1	—	—	—
New Delhi	73.8	296	e 11	36	-2	e 21	0	-9	e 25	52	SS
Warsaw	74.0	345	e 11	35	-4	e 21	12	+1	e 11	49	PcP e 33.5
Hamburg	74.0	352	i 11	41	+2	—	—	—	—	—	e 44.5
Rathfarnham Castle	74.8	2	e 11	39	-5	—	—	—	—	—	—
Witteveen	75.0	354	e 11	48	+3	—	—	—	—	—	—
Merida	75.5	75	—	—	—	21	38	+10	e 38	56	P'P' e 47.7
Ashkabad	75.7	314	11	48	-1	21	32	+2	—	—	—
Lwow	75.8	343	e 11	49	-1	i 21	31	0	e 22	2	ScS
De Bilt	75.8	355	e 11	59	+9	i 21	37	+6	e 26	29	SS e 40.5
Jena	76.5	351	e 11	52	-1	e 21	39	0	e 14	54	PP
Kew	76.6	358	i 11	57 _a	+3	i 21	42	+2	e 26	35	SS e 40.5
Prague	77.0	349	i 11	58	+2	i 21	43	-2	e 15	10	PP 32.9
Skalnate Pleso	77.1	345	e 11	58	+1	e 21	45	0	—	—	e 35.5
Cheb	77.2	350	i 12	4	+6	21	45	-2	i 14	53	SS
Iasi	77.6	339	e 12	1	+1	e 21	52	+1	—	—	—
Tifis	77.8	326	e 12	2	+1	i 21	56	+3	e 22	14	ScS
Quetta	78.0	304	e 11	58	-4	i 21	56	+1	i 15	11	PP
Simferopol	78.1	334	e 12	3	0	e 22	21	ScS	e 12	9	PcP
Bratislava	78.5	347	i 12	6	+1	e 22	6	+5	i 15	5	PP e 36.5

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Karlsruhe	78.7	353	12	7k	+ 1	—	—	—	—	—	e 46.5
Hurbanovo	78.7	346	—	—	—	e 22	4	+ 1	e 28	59	? e 37.0
Stuttgart	78.8	352	e 12	6	0	e 22	2	- 2	e 15	29	PP e 38.5
Budapest	78.9	345	12	11	+ 4	22	10	+ 5	22	52	PS e 36.5
Jersey	E. 78.9	0	17	6	PPP	—	—	—	23	50	? e 40.5
Strasbourg	79.1	353	i 12	9a	+ 1	e 22	8	0	e 15	12	PP e 38.5
Goris	79.2	324	i 12	8	0	22	13	+ 5	12	17	PcP —
Paris	79.2	357	i 12	8	0	22	13	+ 5	i 12	19	PcP e 34.5
Ebingen	79.4	352	e 12	9	- 1	—	—	—	—	—	—
Bermuda Navy	79.8	49	i 12	16	+ 4	i 22	12	- 3	i 23	7	PS e 35.2
Kalossa	79.9	345	e 12	29	+17	—	—	—	e 15	22	PP —
Campulung	80.0	341	e 12	22	+ 9	e 22	22	+ 6	—	—	—
Basle	80.2	353	e 12	13	- 1	e 23	15	+56	—	—	—
Timisoara	80.2	343	e 12	29?	+15	—	—	—	—	—	e 46.5
Bucharest	80.6	340	—	—	—	i 22	27	+ 5	—	—	— e 39.5
Neuchatel	80.8	353	e 12	17	0	e 22	23	- 2	—	—	—
Belgrade	81.3	344	e 12	20k	+ 1	i 22	35	+ 5	e 15	32	PP e 47.4
Triest	81.4	348	i 12	19	- 1	i 22	31	- 1	e 15	34	PP 44.8
Hyderabad	E. 81.7	288	12	26	+ 4	22	32	- 3	17	20	PPP —
Oropa	82.1	352	e 12	27	+ 3	e 22	43	+ 5	—	—	—
Clermont-Ferrand	82.2	356	e 12	26	+ 2	i 22	43	+ 4	e 24	2	PPS 39.5
Brisbane	82.2	202	i 12	25	+ 1	—	—	—	—	—	—
Pavia	82.4	352	e 12	29	+ 4	23	0	+19	e 23	48	PS —
Sofia	82.8	341	11	27	-60	21	47	-58	14	48	PP 45.8
Bologna	82.9	350	—	—	—	e 23	0	+14	—	—	—
Lembang	83.2	250	i 12	27a	- 3	—	—	—	e 15	34	PP —
Prato	83.5	350	e 12	38	+ 7	e 22	59	+ 7	—	—	—
Poona	83.5	292	i 12	31	0	e 22	50	- 3	17	47	PPP 38.0
Florence	83.6	350	e 12	27	- 4	i 22	57	+ 4	17	41	PPP 40.5
Bombay	83.8	293	e 12	34	+ 1	e 22	53	- 3	24	8	PPS —
Monaco	84.0	353	e 12	37	+ 3	—	—	—	e 15	54	PP —
Madras	E. 84.2	284	—	—	—	e 22	57	- 2	—	—	—
Rome	85.3	349	e 12	45k	+ 5	i 23	10	0	i 16	6	PP 40.2
Taranto	86.0	345	12	39	- 5	23	29	+12	e 30	39	PKKP 39.7
Athens	87.2	339	e 23	33	S	(e 23	33)	+ 5	—	—	—
Ksara	87.9	329	i 12	54	+ 1	i 23	39	+ 4	i 16	25	PP 45.5
Kodaikanal	E. 88.0	284	—	—	—	e 23	38	+ 2	—	—	—
Toledo	88.2	1	i 13	41	+47	e 23	39	+ 1	16	18	PP 44.7
Messina	88.5	346	e 12	57k	+ 1	i 23	39	- 2	e 16	27	PP 42.5
Riverview	88.8	202	i 13	4a	+ 7	i 23	52	+ 8	i 16	36	PP 41.7
Safed	88.8	329	12	8	-49	—	—	—	—	—	—
Colombo	89.2	280	i 13	53	+54	e 23	50	+ 3	—	—	e 40.5
Alicante	89.7	358	e 13	3	+ 1	23	53	+ 1	25	2	PS e 43.0
Jerusalem	90.0	328	12	15	-48	23	19	[-14]	—	—	—
Tunis	90.6	350	—	—	—	e 24	3	+ 3	e 27	1	SS e 44.5
San Juan	90.7	58	e 13	6	0	e 23	35	[- 2]	e 25	14	PS e 37.1
Granada	90.9	1	i 13	30a	+23	i 24	4	+ 1	17	24	PP i 47.0
Algiers Univ.	z. 91.2	355	e 13	7	- 1	e 25	28	PPS	e 16	24	PP —
Malaga	91.4	1	12	59k	-10	23	33	[- 8]	i 16	25	PP 43.0
Relizane	92.3	357	e 13	15	+ 2	e 24	26	+11	e 16	15	PP —
Wellington	N. 93.2	182	—	—	—	e 25	0	+37	—	—	e 39.5
Melbourne	94.1	205	e 13	27	+ 6	e 24	39	+ 9	—	—	e 38.7
Christchurch	95.5	183	—	—	—	e 24	55	+12	29	11	? e 39.5
Chinchina	96.4	73	e 13	44	+12	i 24	4	[- 5]	—	—	44.5
Fort de France	96.4	56	e 17	59	PP	—	—	—	—	—	—
Bogota	97.6	72	e 17	41	PP	i 24	12	[- 3]	—	—	45.5
Perth	99.6	229	—	—	—	26	53	PS	32	39	SS e 46.0
Tamanrasset	z. 104.9	352	e 14	8	- 2	e 24	51	[+ 1]	e 18	31	PP —
La Paz	117.8	81	20	13	PP	i 25	44	[+ 2]	i 27	1	SKKS 53.5
Astrida	123.7	320	19	2	[+ 2]	—	—	—	20	52	PP —
Lwiro	123.7	321	19	2	[+ 2]	32	43	PKKS	—	—	—
Pretoria	z. 144.8	307	i 19	41k	[+ 2]	—	—	—	—	—	—
Pietermaritzburg	z. 146.8	300	i 19	46	[+ 4]	—	—	—	—	—	—
Kimberley	z. 148.9	308	i 19	51k	[+ 5]	—	—	—	—	—	—
Grahamstown	z. 151.7	300	i 19	57	[+ 7]	—	—	—	—	—	—

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Oct. 22d. 12h. 35m. 14s. Epicentre 9°·42S. 150°·04E.

A = -0.8549, B = +0.4927, C = -0.1627; $\delta = +8$; $h = +7$;
D = +0.499, E = +0.866; G = +0.141, H = -0.081, K = -0.987.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Rabaul	5.6	22	i 1 22	- 3	i 2 20	-10	—	—	
Brisbane	18.2	171	i 4 11	- 3	e 7 36	+ 2	—	—	
Nouméa	20.3	131	i 4 42	+ 4	i 8 26	+ 6	—	—	
Guam	23.3	347	5 10	+ 1	—	—	—	—	
Riverview	24.3	178	i 5 18 _a	0	e 9 40	+ 6	i 5 54	PP 11.9	
Melbourne	28.6	188	i 5 58	0	i 10 51	+ 6	i 6 7	pP e 12.3	
Wellington	38.5	150	e 7 24	0	e 16 12	SSS	e 9 0	PP e 19.8	
Perth	38.8	230	i 7 28	+ 2	13 54	+28	8 53	PP i 20.2	
Baguio City	38.8	311	i 7 25	- 1	e 13 19	- 4	—	—	
Bandung	42.0	270	e 7 53	0	e 14 14	+ 3	—	—	
Lembang	42.1	270	i 7 52	- 1	e 14 13	+ 2	—	—	
Djakarta	42.9	271	e 7 56	- 4	e 14 20	- 4	e 17 20	SS	
Macquarie IIs.	z.	45.5	173	18 21	0	—	—	—	
Kyoto	46.2	344	8 10 _k	-16	15 16	+ 4	—	—	
Matusiro	47.1	347	i 8 37	+ 4	15 19	- 4	19 3	SS 20.0	
Hong Kong	47.2	312	—	—	e 15 26	0	—	—	
Zô-Sè	48.9	327	i 8 50 _k	+ 3	e 15 48	- 1	9 21	pP	
Mizusawa	49.0	351	8 55	+ 5	15 56	+ 1	—	—	
Nanking	50.9	325	e 9 5	+ 2	i 16 21	+ 4	—	—	
Changchun	57.6	340	9 52	- 2	10 39	PcP	10 23	pP	
Peking	58.3	330	9 59 _k	+ 2	i 17 57	0	e 10 28	pP	
Sian	58.4	320	—	—	e 18 1	+ 4	—	—	
Shillong	66.4	303	10 49 _a	- 2	e 19 34	- 5	13 11	PP 39.4	
Colombo	E.	71.8	280	11 25	+ 1	20 40	- 2	—	38.8
Madras	E.	72.9	287	e 11 34	+ 4	—	—	—	—
Kodaikanal	E.	74.8	283	e 11 43	+ 1	—	—	—	—
Hyderabad	E.	75.6	291	i 11 49 _a	+ 3	i 21 26	+ 1	21 49	PS 35.0
Dehra Dun	79.5	303	e 12 21	+13	i 22 11	+ 4	26 56	SS	—
Bombay	81.1	291	e 12 24	+ 8	e 22 28	+ 4	—	—	—
College	87.1	22	i 12 45	- 2	e 23 12	[- 3]	e 24 9	S	e 38.5
Quetta	88.8	301	i 12 54	0	i 23 25	[0]	e 23 38	S	—
Berkeley	93.9	52	e 13 20	+ 2	—	—	—	—	—
Shasta	94.2	50	e 13 20	0	—	—	—	—	—
Lick	94.3	53	e 13 19	- 1	—	—	—	—	—
Isabella	z.	96.6	55	e 13 32	+ 1	—	—	—	—
Pasadena	96.7	57	e 13 31	0	i 24 31	-17	—	—	e 44.3
Tinemaha	z.	97.0	54	i 13 33	+ 1	—	e 13 40	PcP	—
Riverside	z.	97.3	57	e 13 34	0	—	—	—	—
China Lake	z.	97.3	55	e 13 36	+ 2	—	—	—	—
Palomar	z.	97.7	57	e 13 37	+ 2	—	e 13 45	PcP	—
Barratt	z.	97.8	58	e 13 41	+ 5	—	—	—	—
Eureka	99.0	51	e 13 40	- 1	—	—	—	—	—
Hungry Horse	100.9	42	e 13 48	- 2	—	—	e 17 56	PP	—
Tucson	102.6	59	e 18 22	PP	—	—	—	—	—
Resolute Bay	105.5	14	—	—	e 24 48	[- 5]	27 10	PS	—
Ksara	115.2	303	i 19 51	PP	e 22 14	PKS	e 29 36	PS	—
Upsala	118.4	335	i 19 8	[-20]	—	—	—	—	—
Jena	z.	126.4	329	e 19 3	[0]	—	e 21 0	PP	—
Stuttgart	128.9	327	e 19 7	[0]	e 31 22	PSKS	e 39 34	SS	62.8
Strasbourg	129.8	328	—	—	39 10	SS	—	—	e 63.3
Palisades	130.1	43	e 21 25	PP	e 26 18	+ 2	e 22 37	PKS	e 60.1
Huancayo	z.	130.1	114	i 19 13	[+ 3]	—	—	—	—
Messina	130.2	313	21 32	PP	26 16	0	38 56	SS	—
Rome	130.7	318	22 25	SKP	e 25 55	-22	e 39 43	SSP	—
Clermont-Ferrand	134.0	328	—	—	e 44 59	SSS	36 20	?	—
La Paz	134.3	124	19 16	[- 2]	i 22 56	PKS	i 21 54	PP	63.8
Algiers Univ.	z.	139.6	318	e 19 31	[+ 4]	e 25 36	PPP	e 22 38	PP
Bermuda Navy	140.6	49	23 5	PcP	i 29 5	{-20}	22 34	PP	e 64.4
Alicante	140.9	322	19 28	[- 2]	26 37	+ 1	25 38	PPP	e 66.8
Almeria	143.1	322	e 19 35	[+ 2]	—	—	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Granada	143.5	323	19 46	[+12]	29 13	PKKP	40 58	SS	61.4
Tamanrasset	z. 143.5	296	e 19 24	[-10]	e 27 37	[+57]	22 45	PP	—
San Juan	143.8	72	e 19 36	[+ 1]	—	—	—	—	—
Malaga	144.3	324	e 19 34	[- 2]	—	—	—	—	75.8
Antigua	148.8	73	i 19 52	[+ 6]	—	—	—	—	—
Dominica	148.8	76	e 19 53	[+ 7]	—	—	—	—	—
Trinidad	148.9	85	e 19 48	[+ 2]	—	—	—	—	—
St. Vincent	149.1	80	i 19 48	[+ 2]	—	—	—	—	—

Oct. 23d 8h. 7m. 32s. Epicentre 2°·69N. 95°·14W.

A = -0.0895, B = -0.9949, C = +0.0467; $\delta = +2$; $h = +7$;
D = -0.996, E = +0.090; G = -0.004, H = -0.046, K = -0.999.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Comitan	13.8	12	3 40	+21	e 6 28	SS	—	—
Oaxaca	14.3	354	—	—	e 6 21	SS	e 6 30	SSS
Vera Cruz	16.4	357	i 3 58	+ 4	—	—	—	i 8.4
Balboa Heights	16.7	67	e 4 34	+37	—	—	—	—
Tacubaya	17.1	347	i 4 12	+10	e 7 28	SS	—	e 8.7
Merida	18.9	16	i 4 26	+ 1	e 8 8	SS	e 4 44	pP
Guadalajara	19.6	337	e 4 40	+ 8	e 8 36	SS	—	e 9.6
Chinchina	19.6	83	i 4 32	- 1	i 8 29	SS	—	10.5
Bogota	21.1	84	i 4 51	+ 2	i 9 1	SS	—	10.5
Galerazamba	21.3	67	i 4 48	- 3	i 8 15	-28	—	9.5
Huancayo	24.5	127	i 5 26	+ 3	e 9 36	- 5	e 10 46	SSS
Lubbock	31.4	349	e 6 14	-11	e 11 28	- 4	—	e 17.8
San Juan	32.4	59	e 6 34	0	—	—	—	—
La Paz	32.8	126	i 6 43 _a	+ 6	i 12 2	+ 8	13 58	SS
Tucson	32.9	335	i 6 38	0	e 11 52	- 4	—	e 15.5
Fayetteville	33.2	1	i 6 40 _k	- 1	—	—	—	—
Columbia	33.8	21	i 6 47	+ 1	e 12 15	+ 5	e 8 2	PP
St. Vincent	35.1	70	i 6 57	0	—	—	—	—
Barratt	z. 36.0	328	i 7 4	- 1	—	—	—	—
Chapel Hill	36.3	22	i 6 48	-19	—	—	—	—
Hayfield	N. 36.3	330	e 7 7	- 1	—	—	—	—
Palomar	z. 36.6	329	i 7 10	0	—	—	i 8 10	PP
Riverside	z. 37.4	329	i 7 16	- 1	—	—	9 40	PcP
Boulder City	37.8	333	e 7 20	0	—	—	—	—
Pasadena	38.0	328	i 7 21	0	i 13 27	+13	i 15 28	SS
Boulder	38.3	347	e 7 24	+ 1	—	—	—	—
China Lake	z. 39.0	330	i 7 28	- 2	—	—	—	—
Isabella	z. 39.3	329	i 7 33	+ 1	—	—	—	—
Morgantown	39.3	19	i 7 33	+ 1	—	—	—	—
Washington	39.6	22	e 7 18	-17	—	—	—	—
Tinemaha	z. 40.3	331	i 7 41	0	—	—	—	—
Salt Lake City	40.8	340	i 7 45	0	—	—	8 1	?
Fresno	40.8	329	e 7 45	0	—	—	—	—
Pennsylvania	41.0	20	i 7 48	+ 1	e 14 5	+ 5	—	—
Bermuda Navy	41.1	41	i 7 45	- 3	i 13 50	-11	i 17 8	SS
Rapid City	E. 41.8	351	i 7 56	+ 3	—	—	—	—
Lick	42.2	328	i 7 58	+ 1	—	—	i 8 12	?
Palisades	42.7	24	i 8 1 _a	+ 1	i 14 29	+ 5	e 9 42	PP
Berkeley	42.9	328	—	—	e 14 34	+ 6	—	e 21.4
Reno	43.0	332	e 8 4	+ 1	—	—	—	—
Butte	N. 45.8	343	i 15 17	PS	—	—	—	—
Ottawa	45.8	19	i 8 26 _k	0	—	—	—	e 24.5
Brébeuf	46.6	21	i 8 32	0	—	—	—	—
Kirkland Lake	47.1	14	e 8 35	- 1	—	—	—	—
Shawinigan Falls	47.8	21	e 8 41	- 1	—	—	—	—
Hungry Horse	48.3	343	i 8 43	- 2	—	—	—	—
Seven Falls	49.0	22	e 8 22 _?	-29	—	—	—	—
Banff	51.3	344	e 9 5	- 3	—	—	—	—
Resolute	71.9	0	11 24 _a	- 3	e 20 53	+ 5	—	e 33.0
College	72.5	339	e 11 28	- 3	—	—	—	e 32.5
Tamanrasset	z. 98.8	67	e 13 34	- 9	—	—	e 13 42	PcP
Shillong	z. 151.1	347	e 19 51	[+ 2]	—	—	—	—

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Oct. 23d. 8h. 41m. 28s. Epicentre 13°·59N. 120°·58E. Depth of focus = 0·013R.

A = -0·4947, B = +0·8371, C = +0·2335; δ = -1; h = +6;
D = +0·861, E = +0·509; G = -0·119, H = +0·201, K = -0·972.

		Δ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.
				m.	s.		m.	s.		m.	s.	
Manila		1·0	21	i 0	37	+14	—	—	—	—	—	—
Baguio City		2·8	0	i 0	41	-4	—	—	—	—	—	—
Hengchun		8·4	1	2	10	+10	e 4	8	+35	—	—	—
Tawu		8·7	2	2	2	-2	—	—	—	—	—	—
Tainan		9·4	358	e 2	43	+30	—	—	—	—	—	—
Hsinkong		9·5	4	e 2	21	+6	4	18	+18	—	—	—
Hwalien		10·4	5	e 2	48	+22	—	—	—	—	—	—
Hong Kong	z.	10·6	326	i 2	28 _a	-1	—	—	—	—	—	—
Ilan		11·2	5	2	36	-1	4	3	-37	—	—	—
Taipei		11·4	4	e 2	39	-1	4	44	-2	—	—	—
Canton		11·7	325	2	42 _a	-2	—	—	—	3	2	sP
Zô-Sè		17·4	2	i 3	55 _a	-2	i 7	13	+7	i 4	14	sP
Futzeling		18·1	348	4	6	+2	—	—	—	—	—	—
Nanking		18·4	355	i 4	10 _a	+1	7	30	+3	i 4	32	sP
Yakusima		19·1	27	e 4	48	PP	—	—	—	—	—	—
Kagosima		20·1	25	e 4	28 _a	+2	8	17	+17	—	—	—
Tomie		20·4	20	e 4	27	-2	—	—	—	—	—	—
Miyazaki		20·8	27	e 4	32	-1	e 8	34	SS	—	—	—
Nagasaki	N.	20·9	22	e 4	31	-3	e 8	5	-10	—	—	—
Kumamoto		21·2	24	e 4	38	0	8	14	-8	—	—	—
Saga		21·5	23	i 4	44	+4	i 9	22	SS	—	—	—
Hukuoka	N.	21·8	23	4	44 _a	+1	8	47	+15	—	—	—
Ooita		22·0	25	e 4	43	-1	—	—	—	—	—	—
Simidu		22·2	29	i 4	48 _a	+1	8	56	+17	—	—	—
Simonoseki		22·3	23	e 4	51 _a	+2	e 8	59	+17	—	—	—
Tsingtao		22·4	359	4	49	0	—	—	—	e 5	11	sP
Matuyama	N.	23·0	27	e 4	56	+1	e 8	55	+2	—	—	e 11·4
Koti		23·1	28	i 4	58 _a	+2	e 9	10	+15	e 5	22	pP
Shenchow		23·1	338	e 4	54	-2	—	—	—	—	—	—
Sian		23·1	335	e 5	0	+4	—	—	—	—	—	—
Muroto		23·2	30	i 4	58	+2	—	—	—	—	—	—
Hirosima		23·3	25	e 4	57	-1	e 8	56	-2	e 5	15	pP
Guam		23·5	87	i 4	58	-2	—	—	—	—	—	—
Hamada		23·6	24	4	59 _a	-2	—	—	—	—	—	e 11·4
Djakarta		23·9	216	e 5	2	-2	e 9	12	+3	e 5	42	pP
Tokusima		24·0	30	e 5	5 _a	0	e 9	24	+14	5	21	pP
Lembang		24·0	213	i 5	7	+2	e 9	19	+9	e 10	29	SS
Bandung		24·1	213	e 5	7	+2	e 9	19	+8	e 10	37	SSS
Slomisaki		24·1	32	e 5	6	+1	—	—	—	—	—	—
Sumoto		24·4	30	5	9 _a	+1	e 9	26	+9	—	—	e 14·5
Kobe		24·8	30	e 5	12	0	e 9	45	+22	—	—	—
Owase	N.	24·8	32	e 5	14	+2	e 9	16	-7	—	—	—
Osaka		24·9	30	e 5	16	+2	e 9	17	-9	—	—	—
Nara		25·1	31	i 5	16	+1	—	—	—	—	—	—
Taiyuan		25·1	345	e 5	19	+4	—	—	—	—	—	—
Toyooka		25·3	28	e 5	27	+10	—	—	—	—	—	—
Kyoto		25·3	30	e 5	17	0	9	45	+13	—	—	—
Tu		25·5	32	e 5	21	+2	—	—	—	—	—	—
Hikone		25·8	30	5	22	0	9	42	+2	—	—	—
Tsuruga	N.	26·0	30	e 5	24	0	—	—	—	—	—	—
Nagoya	E.	26·1	32	e 5	25	+1	—	—	—	—	—	—
Gihu		26·2	31	e 5	25	0	e 10	29	sS	—	—	—
Omaesaki		26·3	34	e 5	34	+8	—	—	—	—	—	—
Hukui		26·4	29	e 5	27	0	—	—	—	—	—	—
Peking		26·6	352	i 5	29 _a	0	19	59	+6	15	50	sP
Shizuoka		26·7	34	e 5	35	+5	—	—	—	—	—	—
Kwanting		26·9	351	e 5	33	+1	—	—	—	—	—	—
Lanchow		27·0	329	e 5	35	+3	—	—	—	—	—	—
Osima	N.	27·1	36	5	48	+9	—	—	—	—	—	e 12·4
Misima	N.	27·1	34	e 5	39	+5	—	—	—	—	—	—

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Ajiro	E.	27.1	35	e 5 33	- 1	e 10 9	+ 7	—	—
Kohu	N.	27.3	33	e 5 35	- 1	—	—	—	e 11.4
Toyama		27.4	30	e 5 32	- 4	—	—	7 34	?
Mera	N.	27.4	36	e 5 36	- 1	e 10 57	SS	—	—
Yokohama	N.	27.7	35	e 6 0	+21	—	—	—	—
Matusiro		27.8	31	i 5 37 _a	- 3	e 10 36	+24	6 31	PP
Oiwake		27.8	32	e 5 39	- 1	—	—	—	—
Titibu		27.8	33	e 5 39	- 1	—	—	—	—
Nagano		27.9	31	e 5 40	- 1	e 11 6	SS	—	—
Tokyo		28.0	35	e 6 8	+26	e 11 48	SS	—	—
Maebasi		28.1	33	e 5 40	- 3	e 10 11	- 7	—	—
Paotow		28.4	343	e 5 47	+ 1	—	—	—	—
Utunomiya	E.	28.7	34	e 5 55	+ 6	11 51	SS	e 6 32	PP
Wuwei		29.0	330	e 5 53	+ 2	—	—	—	—
Shirakawa		29.3	33	e 5 39	-14	—	—	—	—
Niigata		29.3	31	e 6 0	+ 7	—	—	—	—
Shillong		29.5	298	i 5 55 _a	0	i 10 35	- 4	6 14	pP
Onahama		29.5	34	e 5 51	- 4	—	—	—	—
Hukushima		29.9	33	e 6 0	+ 1	—	—	—	—
Yamagata		30.2	32	e 5 58	- 3	—	—	—	—
Changchun		30.4	7	e 6 0	- 3	—	—	—	—
Sendai		30.5	33	e 6 1	- 3	—	—	e 7 5	PP
Vladivostok		31.0	16	i 6 8	0	e 11 8	+ 5	i 6 30	pP
Akita	Z.	31.2	30	i 6 9	0	—	—	—	—
Mizusawa		31.2	32	6 3	- 7	11 46	sS	—	—
Mori	E.	33.3	28	e 6 23	- 5	—	—	—	—
Yumen		33.7	326	e 6 27	- 5	—	—	—	—
Chatra		33.9	298	e 6 31	- 2	i 11 45	- 3	—	—
Urakawa		34.3	30	e 6 35	- 1	—	—	e 7 47	PP
Sapporo	Z.	34.4	27	i 6 37	- 1	—	—	—	—
Bokaro		34.4	292	i 6 39 _a	+ 1	i 12 3	+ 7	7 9	pP
Obihiro	N.	35.1	29	e 6 49	+ 5	—	—	—	—
Kusiro		35.8	30	e 6 56	+ 6	—	—	—	—
Rabaul		36.0	117	i 6 49	- 2	e 8 26	PP	i 7 12	pP
Abashiri		36.5	29	e 7 1	+ 5	—	—	—	—
Yuzno-Sakhlinsk		38.1	25	i 7 8	- 1	e 12 56	+ 4	7 30	pP
Kurilsk		39.1	31	i 7 16	- 1	e 13 14	+ 6	7 38	pP
Madras	E.	39.3	274	i 7 20	+ 1	i 13 19	+ 9	8 59	PP
Colombo	E.	40.6	265	7 31	+ 2	13 33	+ 4	—	—
Hyderabad	E.	40.7	281	17 29	- 1	i 13 36	+ 4	9 11	PP
Irkutsk		40.7	345	i 7 31 _a	+ 1	13 38	+ 6	7 53	pP
Kodaikanal	E.	42.3	270	i 7 41 _a	- 2	13 59	+ 4	9 23	PP
Dehra Dun		42.5	300	e 7 46	+ 1	i 13 59	+ 1	10 12	PPP
New Delhi	N.	42.9	297	e 7 45	- 3	i 14 5	+ 1	9 53	PPP
Poona		45.1	283	i 8 3 _a	- 3	i 14 41	+ 6	17 56	SS
Bombay		46.0	283	e 8 15	+ 2	e 14 58	+ 9	10 9	PP
Frunse		49.1	316	i 8 38 _a	+ 1	i 15 40	+ 8	i 9 0	pP
Petropavlovsk		49.6	29	i 8 40	- 1	e 15 46	+ 7	8 58	pP
Magadan		51.0	19	i 8 51	- 1	e 16 8	+ 9	e 9 14	pP
Brisbane		51.7	143	i 8 52	- 5	i 16 5	- 2	—	—
Stalinabad		52.0	308	i 9 0	+ 1	i 16 23	+12	i 9 23	pP
Quetta		52.0	298	e 8 58	- 1	i 16 10	- 1	e 9 20	pP
Tashkent		52.3	312	i 9 1	0	i 16 25	+ 9	i 9 24	pP
Riverview		55.4	149	9 21 _a	- 3	e 16 58	0	9 43	pP
Melbourne		56.0	157	e 9 23	- 6	i 17 13	+ 7	i 9 36	pP
Tiksi Bay		58.2	3	e 9 41	- 3	e 17 34	- 1	i 10 5	pP
Ashkabad		59.9	306	i 9 58 _a	+ 2	i 18 10	+13	10 21	pP
Sverdlovsk		62.4	327	i 10 12	- 1	18 36	+ 7	10 30	pP
Goris		69.4	307	i 10 58	+ 1	i 20 3	+10	11 21	pP
Tiflis		70.5	310	i 11 4	0	20 15	+ 9	11 28	pP
Onerahi	E.	70.6	136	e 11 8	+ 3	—	—	—	—
Karapiro	N.	72.6	137	e 11 37	+21	—	—	—	—
Kaimata	N.E.	72.7	143	e 11 20	+ 3	—	—	—	—
Wellington	N.	74.0	140	—	—	e 21 12	+26	—	e 30.5
Moscow		74.9	324	i 11 28	- 2	i 20 59	+ 3	i 11 46	pP

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Macquarie IIs.	z.	75.2	158	i 11 46	+15	—	—	—	—
Honolulu		77.2	71	i 11 44	+ 2	—	—	i 12 7	pP
Simferopol		78.0	314	i 11 47 _a	0	i 21 38	+ 8	i 12 11	pP
Ksara		78.2	302	i 11 51	+ 3	i 21 53	+21	e 14 52	PP
College		78.5	26	i 11 47	- 2	e 21 44	+10	i 12 7	pP
Pulkovo		78.5	329	i 11 50	0	e 21 38	+ 3	i 12 15	pP
Safed		78.7	301	i 11 53	+ 3	—	—	—	—
Tananarive		78.8	247	e 11 52 _k	+ 1	e 21 47	+ 9	e 12 16	pP
Sodankyla		79.1	337	i 11 52	- 1	—	—	i 12 12	pP
Jerusalem		79.1	300	i 11 50	- 3	—	—	i 12 7	pP
Kiruna		81.3	338	i 12 3	- 2	i 22 9	+ 5	i 12 25	pP
Iasi		82.2	317	e 12 9	0	e 22 17	+ 4	e 13 3	sP
Mirny		82.5	191	i 12 6	- 5	i 22 14	- 2	i 12 24	pP
Bacau		82.8	316	12 12	0	22 24	+ 5	12 53	sP
Bucharest		83.8	314	e 12 19	+ 2	i 22 39	+10	—	—
Lwow		83.9	320	i 12 18	0	e 23 7	+36	e 15 39	PP
Upsala		84.7	330	i 12 21	- 1	i 22 45	+ 7	i 12 46	pP
Sofia		86.1	313	i 12 30	+ 1	22 50	- 2	i 15 56	PP
Athens		87.1	308	—	—	e 22 51	-10	—	—
Belgrade		87.6	315	i 12 36 _a	0	e 23 29	+24	i 12 52	PcP
Kalossa		88.1	317	12 42	+ 4	13 32	sP	e 16 52	PP
Hurbanovo		88.1	319	e 13 5	pP	—	—	e 16 7	PP
Bratislava		88.8	319	i 12 42	+ 1	e 23 43	+27	i 13 1	pP
Resolute Bay		89.2	9	12 41 _a	- 2	23 24	+ 4	12 59	pP
Prague		89.8	322	i 12 46	0	i 23 29	+ 4	i 13 5	pP
Hamburg		90.9	326	i 12 52 _k	0	i 16 30	PP	i 13 11	pP
Jena		91.1	323	i 12 52	0	e 23 44	+ 6	e 13 10	pP
Taranto		91.1	312	—	—	e 23 20	-18	e 24 50	SP
Astrida		91.4	268	i 12 55	+ 1	—	—	e 13 12	pP
Triest		91.8	318	i 12 54 _a	- 2	e 23 51	+ 5	13 23	pP
Lwiro		92.3	268	12 59	+ 1	—	—	e 13 27	pP
Witteveen		93.1	326	e 13 22	+21	—	—	—	—
Reggio Calabria		93.1	310	e 13 3	+ 1	e 24 3	+ 8	e 13 19	pP
Messina		93.1	310	i 13 1	- 1	e 23 29	[+ 5]	13 23	pP
Stuttgart		93.4	322	i 13 2 _a	- 1	e 23 59	+ 1	e 13 20	pP
Karlsruhe	z.	93.8	322	13 6 _k	1	i 17 17	PP	i 13 24	pP
Ebingen		93.8	321	e 13 5	0	e 16 52	PP	13 23	pP
Bologna		93.8	317	e 12 50	-15	26 0	PPS	e 17 17	PP
Rome		94.0	315	i 13 5 _a	- 1	e 23 55	SKKS	i 13 29	pP
Florence		94.1	317	i 13 4 _a	- 2	i 23 35	-29	i 13 32	pP
Prato		94.2	317	e 12 59	- 8	e 24 4	0	—	—
De Bilt		94.2	326	—	—	e 25 44	PS	17 2	PP
Strasbourg		94.3	322	e 13 8	+ 1	e 24 20	+14	i 13 26	pP
Basle		94.9	321	e 13 31	+21	—	—	—	—
Pavia		94.9	319	—	—	e 26 11	PPS	—	—
Oropa		95.5	319	e 13 13	0	e 24 2	SKKS	25 21	PS
Besançon		96.0	322	e 13 14	- 1	i 17 10	PP	i 13 32	pP
Victoria		96.2	37	e 13 16	0	—	—	—	—
Durham		96.3	330	—	—	i 31 16	SS	—	—
Monaco		96.7	318	e 13 17	- 1	e 17 2	PP	e 13 34	pP
Paris		97.3	324	e 13 21	0	e 24 22	- 9	e 13 46	pP
Pretoria	z.	97.9	245	i 13 24	+ 1	—	—	—	—
Clermont-Ferrand		98.5	321	e 13 45	+19	—	—	e 17 29	PP
Shasta		100.6	44	e 13 5	-31	—	—	e 17 10	PP
Hungry Horse		101.6	34	e 13 41	+ 1	e 29 46	PKKP	e 14 1	pP
Lick		102.7	46	e 17 59	PP	—	—	i 18 25	pPP
Algiers Univ.	z.	102.8	313	e 18 9	PP	—	—	—	—
Fresno		104.3	46	e 18 9	PP	—	—	—	—
Alicante		104.5	316	13 43	-10	e 25 20	-12	18 6	PP
Relizane		105.1	313	e 18 27	PP	—	—	—	—
Tinemaha	z.	105.2	45	e 18 14	PP	e 29 52	PKKP	e 18 37	pPP
Isabella	z.	105.8	47	e 18 14	PP	e 29 53	PKKP	e 18 39	pPP
China Lake	z.	106.3	46	e 29 49	PKKP	—	—	—	—
Almeria		106.6	315	i 18 30	PP	—	—	—	—
Pasadena		106.7	48	e 17 44	PP	e 29 47	PKKP	e 18 15	pPP

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Gamanrasset	z.	106.9	299	e 14 6	P	e 24 35	[+ 3]	e 18 36	pPP	—
Tranada		107.2	316	14 11 _a	P	e 27 49	[+16]	17 52	PP	—
Riverside	z.	107.4	48	e 17 50	PP	e 29 42	PKKP	e 18 30	pPP	—
Malaga		108.0	316	i 17 58 _k	[-14]	e 28 36	PS	21 21	PPP	48.0
Palomar	z.	108.1	48	e 18 34	PP	i 29 42	PKKP	i 18 56	pPP	—
Boulder City		108.1	45	e 18 37	PP	—	—	e 29 40	PKKP	—
Barratt	z.	108.5	48	e 18 4	PP	e 29 39	PKKP	e 18 41	pPP	—
Hayfield	N.	108.8	47	e 18 43	PP	—	—	—	—	—
Lisbon		109.9	320	18 54	PP	—	—	—	—	—
Rapid City	E.	110.1	32	e 18 7	[-10]	e 29 31	PKKP	e 18 54	PP	—
Boulder		111.7	36	e 18 24	[+ 3]	—	—	19 5	pP	—
Tucson		112.9	46	i 19 14	PP	e 29 13	PKKP	e 19 32	pPP	—
Kirkland Lake		115.8	15	i 19 38	PP	e 28 58	PS	—	—	—
Lubbock		118.1	40	18 35	[+ 2]	—	—	e 19 50	PP	—
Seven Falls		118.7	9	e 18 37 _a	[-31]	—	—	—	—	—
Shawinigan Falls		118.9	10	e 18 35	[0]	—	—	—	—	—
Ottawa		119.5	13	e 18 36	[0]	—	—	—	—	—
Brébeuf		119.8	11	i 18 38	[+ 2]	—	—	—	—	—
Fayetteville		120.7	32	i 18 39 _k	[+ 1]	—	—	—	—	—
Halifax		121.9	3	i 18 40 _k	[0]	—	—	—	—	—
Palisades		124.0	13	i 18 46	[+ 2]	—	—	i 20 32	PP	e 61.3
Columbia		128.4	23	e 18 54	[+ 1]	—	—	e 21 14	PP	e 59.1
Tacubaya		128.9	51	i 18 58	[+ 4]	25 46	[- 3]	e 21 53	PP	—
M'Bour		129.6	302	—	—	—	—	e 21 32	PP	—
Bermuda Navy		134.0	6	e 20 4	[+61]	i 24 26	PKS	i 22 36	PP	e 63.9
San Salvador		139.9	49	—	—	23 15	PKS	—	—	—
San Juan		147.5	12	e 19 29	[+ 1]	—	—	—	—	—
Antigua		149.5	3	i 19 38	[+ 7]	—	—	—	—	—
Dominica		151.2	5	e 19 36	[+ 2]	—	—	—	—	—
Fort de France		151.8	4	i 19 37	[+ 2]	—	—	—	—	—
St. Vincent		153.3	4	e 19 45	[+ 9]	—	—	—	—	—
Chinchina		155.5	42	i 19 41	[+ 1]	—	—	i 23 41	PP	—
Trinidad		155.8	5	e 19 43	[+ 4]	—	—	—	—	—
Huancayo	z.	164.4	86	i 19 52	[+ 3]	i 24 57	PP	20 49	P ₁ '	—
La Paz		171.1	110	i 19 56 _a	[+ 2]	31 38	SKKS	i 21 20	P ₁ '	83.5

Oct. 24d. 14h. 42m. 12s. Epicentre 11°·79N. 86°·46W.

A = +0.0605, B = -0.9773, C = +0.2030; δ = -2; h = +6;
D = -0.998, E = -0.062; G = +0.013, H = -0.203, K = -0.979.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
San Salvador		3.3	306	e 0 55	+ 1	—	—	i 1 4	P ₂	—
Comitan		7.1	309	i 1 42	- 5	i 3 2	- 7	—	—	i 3.3
Merida		9.6	342	i 2 14 _a	- 8	i 3 57	-15	—	—	i 4.2
Oaxaca		11.3	299	i 2 46 _k	+ 1	i 4 57	+ 4	i 2 55	PP	—
Vera Cruz		11.9	309	i 2 50	- 3	i 5 7	- 1	i 5 39	SS	i 6.2
Chinchina		12.7	121	i 3 7	+ 3	i 5 45	+17	i 3 16	PP	—
Puebla		13.4	304	3 17	+ 3	e 5 58	+13	—	—	—
Bogota		14.2	119	i 3 24	0	—	—	—	—	—
Tacubaya		14.4	303	i 3 31 _a	+ 4	i 6 29	SS	—	—	i 7.2
Port au Prince		15.2	62	3 52	+15	6 58	SS	—	—	—
Guadalajara		18.4	301	i 4 22 _a	+ 4	i 7 50	+ 8	i 4 44	PPP	i 9.9
Manzanillo		18.7	295	4 21 _a	0	7 55	+ 8	—	—	i 10.6
Mobile		18.9	355	i 4 28 _a	+ 4	i 7 53	+ 1	—	—	—
San Juan		20.7	69	e 4 44 _a	0	i 8 46	+15	6 34	?	i 10.7
Mazatlan		22.1	303	i 4 48 _a	-10	e 8 43	-15	—	—	e 10.5
Columbia		22.7	12	i 5 7 _a	+ 3	i 9 18	+10	—	—	i 10.4
Little Rock	E.	23.5	348	i 5 13	+ 1	i 9 55	SS	i 7 46	?	—
Trinidad		24.5	89	e 5 19	- 3	—	—	—	—	—
Dominica		24.6	79	e 5 24	+ 1	—	—	—	—	—
St. Vincent		24.6	84	i 5 22	- 1	—	—	—	—	—

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Fort de France	24.8	80	e 5	21	- 3	i 10	7	+22	e 6	7	PP	—
Chihuahua	24.8	315	e 5	16 _a	- 9	e 10	0	+14	e 5	40	PP	e 12.9
Chapel Hill	24.9	14	i 5	26	0	—	—	—	—	—	—	e 13.8
Antigua	25.1	75	i 5	27	0	—	—	—	—	—	—	e 15.8
Fayetteville	25.2	345	i 5	28 _a	0	e 10	45	SS	—	—	—	—
Lubbock	25.9	329	e 5	33	- 1	e 9	57	- 6	—	—	—	e 10.7
Huancayo	26.1	155	i 5	35	- 2	e 10	0	- 7	—	—	—	i 14.8
Barbados	26.3	84	e 5	42	+ 4	—	—	—	i 5	56	PP	—
St. Louis	26.9	353	e 5	43 _k	- 2	10	22	+ 1	6	38	PP	—
Florissant	27.1	353	5	46 _a	0	i 10	51	?	5	58	pP	—
Washington	28.3	16	i 5	57 _a	+ 1	e 10	48	+ 6	—	—	—	e 13.0
Morgantown	28.3	11	i 5	59	+ 2	e 11	38	+55	—	—	—	—
Bermuda Navy	28.6	41	i 6	17	+17	i 10	13	-35	—	—	—	e 13.8
Pittsburgh	29.1	10	6	56?	PP	—	—	—	—	—	—	—
Pennsylvania	29.9	13	i 6	15	+ 4	i 8	41	PcP	i 7	32	PPP	—
Cleveland	29.9	7	e 6	11 _a	0	e 11	11	+ 3	—	—	—	—
Chicago	29.9	358	i 6	10	- 1	e 10	9	-59	i 7	3	PP	i 11.6
Tucson	30.3	316	e 6	16 _k	+ 1	e 11	20	+ 6	e 7	19	PP	e 14.8
City College, N.Y.	30.9	19	6	17	- 3	—	—	—	—	—	—	—
Fordham	31.0	19	e 6	22	+ 1	i 11	41	+16	—	—	—	—
Palisades	31.1	18	i 6	23 _a	+ 1	i 11	53	+25	e 7	46	PPP	e 15.3
Boulder	32.7	333	i 6	34	- 2	—	—	—	—	—	—	—
Weston	33.2	21	i 6	42	+ 2	i 12	28	+28	—	—	—	—
La Paz	33.4	147	i 6	38 _a	- 4	i 12	6	+ 2	18	0	PP	16.3
Barratt	34.6	312	e 6	53 _a	0	i 12	27	+ 5	19	28	PcP	—
Ottawa	34.7	13	e 6	54 _a	+ 1	12	24	0	8	8	PP	14.4
Palomar	z. 35.1	313	i 6	57	0	i 13	26	ScS	19	37	PcP	—
Boulder City	35.2	318	e 6	57 _k	0	i 13	16	PcS	18	21	PP	e 14.9
Rapid City	E. 35.3	339	i 6	56 _k	- 2	—	—	—	e 8	35	PPP	—
Brébeuf	35.3	16	i 6	59	0	i 12	38	+ 5	—	—	—	—
Riverside	z. 35.8	313	i 7	1 _a	- 2	i 12	42	+ 2	18	33	PP	—
Pasadena	36.5	313	i 7	8 _a	0	e 12	48	- 2	18	39	PP	e 15.6
Salt Lake City	36.5	327	i 7	7 _k	- 1	i 12	55	+ 4	18	44	PP	e 15.9
Shawinigan Falls	36.5	16	i 7	11	+ 2	12	59	+ 8	8	45	PP	16.4
Kirkland Lake	36.6	7	e 7	9 _a	- 1	e 13	59	SS	e 8	42	PP	—
China Lake	z. 36.9	316	i 7	12	0	i 9	43	PcP	18	37	PP	—
Isabella	z. 37.4	315	i 7	15 _a	- 1	i 13	46	ScP	18	54	PP	—
Seven Falls	37.6	18	e 6	50? _a	-28	13	6	- 2	7	14	pP	15.2
Woody	E. 37.7	314	e 7	22	+ 3	e 13	12	+ 2	e 9	0	PP	—
Eureka	38.0	322	i 7	21 _a	0	i 13	31	+17	41	51	?	—
Tinemaha	z. 38.0	317	i 7	21 _a	0	i 13	32	ScP	19	47	PcP	—
Halifax	38.2	27	i 7	26	+ 3	i 13	44	+27	—	—	—	—
Antofagasta	38.6	156	e 7	28	+ 2	e 13	25	+ 3	e 9	5	PP	e 18.5
Fresno	38.9	315	e 7	28 _k	- 1	—	—	—	e 9	9	?	—
Bozeman	39.7	333	e 7	36 _k	+ 1	e 13	26	-14	e 9	20	PcP	i 17.7
Reno	40.4	319	e 7	41	0	e 14	1	+11	—	—	—	—
Lick	40.5	315	i 7	42 _k	0	—	—	—	19	46	PcP	—
Butte	N. 40.7	332	i 7	44 _k	+ 1	e 13	47	- 7	19	31	PcP	e 17.2
Santa Clara	40.7	315	7	46 _k	+ 2	e 14	23	+28	—	—	—	e 19.5
Berkeley	41.2	315	i 7	48 _a	+ 1	i 14	12	+10	i 9	48	PcP	e 21.0
Mineral	N. 42.0	319	e 7	57	+ 3	—	—	—	—	—	—	—
Ukiah	42.5	316	i 8	5 _k	+ 7	—	—	—	19	56	PcP	e 18.3
Shasta	42.7	319	e 7	59	- 1	e 14	40	+16	19	53	PcP	—
Hungry Horse	43.1	333	18	1 _a	- 2	e 14	39	+ 9	19	53	PcP	—
Saskatoon	43.4	342	i 8	9	+ 3	i 14	38	+ 4	19	58	PcP	—
Arcata	E. 43.9	318	e 8	12	+ 2	—	—	—	—	—	—	—
Corvallis	45.4	323	i 8	23	+ 1	—	—	—	i 10	3	PcP	—
Banff	45.8	335	i 8	22	- 3	—	—	—	—	—	—	—
Seattle	46.7	327	i 8	34 _k	+ 2	15	18	- 3	e 10	54	PPP	18.7
Santa Lucia	47.4	162	8	37	- 1	e 15	30	- 2	—	—	—	—

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Victoria	47.8	327	e 8 37	- 4	15 38	+ 1	—	—
Horseshoe Bay	48.2	328	e 8 42	- 2	e 15 48	+ 4	e 10 11	PcP
Concepción	50.2	165	9 0	+ 1	e 16 4	- 7	—	e 20.0
Buenos Aires	53.2	151	e 9 26	+ 4	16 47	- 6	—	—
Angra do Heroísmo	58.8	52	—	—	e 18 51	+45	—	29.0
Resolute	63.0	357	i 10 28 _a	- 3	—	—	e 12 43	PP
Hawaii, Vol. Obs.	66.3	286	10 54	+ 2	i 19 45	+ 3	—	e 26.2
College	67.4	336	i 10 55 _a	- 4	e 19 44	-11	i 13 22	PP
M'Bour	67.5	79	e 10 58	- 2	e 20 0	+ 4	e 14 27	PP
Honolulu	68.8	288	e 11 8 _a	0	e 20 16	+ 4	—	e 31.6
Scoresby Sund	70.6	19	i 11 17	- 1	e 25 15	SS	i 15 47	PPP
Lisbon	72.9	53	e 11 32 _a	0	e 11 48	PcP	11 40	pP
Rathfarnham Castle	74.8	38	e 11 48	+ 5	e 21 38	+18	e 14 32	PP
Edinburgh	76.6	35	—	—	e 22 3	+24	—	e 35.3
Malaga	76.7	55	11 57 _k	+ 3	i 22 37	PPS	—	42.1
Toledo	76.7	52	i 11 54 _k	0	21 40	- 1	i 14 43	PP
Aberdeen	77.1	34	e 12 7	+10	i 22 2	+16	i 22 30	PS
Granada	77.3	54	i 11 57 _k	- 1	i 21 46	- 2	12 39	pP
Jersey	77.5	42	e 12 46	+47	e 22 51	+61	e 27 38	?
Durham	77.5	36	i 12 35	+36	i 22 11	+21	—	—
Almeria	78.3	55	i 12 3	0	22 46	PS	e 15 6	PP
Kew	78.5	40	i 15 4	PP	e 21 50	-10	e 27 8	SS
Alicante	79.7	53	12 11	0	22 15	+ 2	15 17	PP
Paris	80.5	42	i 12 14	- 1	e 22 20	- 2	i 12 22	PcP
Relizane	80.8	55	e 12 21	+ 4	e 23 25	PS	e 17 32	PPP
Barcelona	81.3	49	e 12 10	- 9	e 23 9	+40	e 24 43	?
Clermont-Ferrand	81.4	45	e 12 20	0	e 22 32	+ 2	e 15 27	PP
De Bilt	81.8	38	i 12 21	- 1	—	—	i 15 28	PP
Witteveen	82.6	38	e 12 30	+ 4	—	—	—	e 39.8
Algiers Univ.	82.7	54	e 12 23	- 3	e 23 28	PS	e 15 41	PP
Neuchatel	83.8	43	i 12 40	+ 8	—	—	e 16 2	PP
Strasbourg	84.0	42	e 12 32	- 1	e 23 15	+18	e 15 53	PP
Basle	84.1	43	e 12 46	+12	—	—	e 17 43	PPP
Karlsruhe	84.4	41	e 12 34 _a	- 1	—	—	e 12 43	PcP
Hamburg	84.4	36	e 12 34	- 1	—	—	i 16 1	PP
Monaco	84.7	47	e 12 36	- 1	e 38 53	P'P'	e 16 2	PP
Oropa	84.7	45	e 12 31	- 6	e 29 24	SS	e 16 3	PP
Ebingen	84.9	42	e 12 36	- 2	—	—	—	—
Stuttgart	84.9	41	12 36 _a	- 2	e 22 54	[- 6]	e 15 58	PP
Copenhagen	85.3	34	i 12 39	- 1	e 23 34	+24	e 16 5	PP
Kiruna	85.4	21	i 12 37	- 3	e 23 4	[- 1]	i 15 59	PP
Pavia	85.7	45	e 12 33	- 8	e 23 41	+28	e 16 13	PP
Jena	85.9	39	e 12 41	- 2	e 22 57	[-10]	e 16 11	PP
Cuglieri	86.3	50	17 40	PPP	e 28 38	SS	—	e 37.8
Cheb	86.7	40	i 13 5	+19	24 15	PS	e 16 32	PP
Upsala	86.8	29	12 44	- 3	e 23 27	+ 2	i 16 11	PP
Prato	87.3	46	e 13 32	+43	i 23 52	+23	—	—
Tamanrasset	87.3	67	e 12 46	- 3	e 23 6	[-10]	e 16 19	PP
Bologna	87.3	45	e 13 7	+18	e 23 54	+25	e 16 11	PP
Florence	87.4	46	i 12 52	+ 2	i 23 42	+12	i 13 33	pP
Sodankyla	87.8	21	i 12 50	- 2	e 23 55	+21	i 16 21	PP
Prague	87.9	39	i 12 59	+ 7	i 23 3	+ 2	e 16 27	PP
Tunis	88.2	53	e 12 55	+ 1	e 23 30	[+ 8]	e 16 26	PP
Apia	88.3	256	12 52	- 2	—	—	13 53	?
Triest	88.7	44	e 12 52	- 4	i 23 40	- 2	e 16 17	PP
Rome	88.8	47	i 12 53 _a	- 3	i 23 40	- 3	i 13 35	pP
Apatity	90.0	19	i 16 35 _a	-27	i 25 12	PS	i 30 16	SS
Bratislava	90.2	41	i 13 3	0	e 23 48	- 8	i 16 51	PP
Helsinki	90.3	28	e 16 30	PP	e 25 12	PS	—	—
Hurbanovo	91.0	41	e 17 0	PP	e 23 48	[+11]	—	—
Warsaw	91.2	36	i 13 8	0	e 23 31	[- 9]	i 17 0	PP
Skalnate Pleso	91.8	39	e 16 58	PP	e 24 17	+ 7	i 25 42	PS
Kalossa	91.9	42	16 18	PP	—	—	e 13 48	?
Messina	92.0	50	e 13 6	- 6	e 24 3	- 9	e 16 47	PP
Reggio Calabria	92.1	50	e 15 9	?	—	—	—	43.5

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Taranto	92.6	48	e 13	29	+15	23	49	[+ 1]	30	29	SS	—
Szeged	92.7	42	e 15	19	?	23	27	[-21]	24	33	PS	e 45.8
Pulkovo	92.8	27	e 13	16	+ 1	e 23	46	[- 3]	e 24	24	S	—
Belgrade	93.4	43	e 16	2 _a	?	e 23	59	[+ 7]	e 17	14	PP	e 46.8
Tiksi Bay	93.5	349	e 13	16	- 2	e 23	46	[- 7]	e 24	27	S	—
Timisoara	93.6	42	16	48?	PP	e 24	48?	+22	—	—	—	46.8
Lwow	93.8	37	e 13	21	+ 1	e 24	18	-10	e 19	14	PPP	—
Petropavlovsk	94.9	327	i 13	25	0	e 23	55	[- 6]	—	—	—	—
Sofia	96.1	44	e 13	42	+11	19	24	PPP	17	18	PP	48.0
Iasi	N. 97.1	39	—	—	—	e 24	18	[+ 6]	—	—	—	—
Bucharest	97.3	42	e 17	8	PP	—	—	—	—	—	—	—
Moscow	98.2	28	17	48	PP	i 24	15	[- 3]	32	5	SS	—
Simferopol	102.2	39	e 14	0	+ 2	e 24	30	[- 8]	e 18	8	PP	—
Wellington	104.2	230	e 18	30	PP	e 24	38	[- 9]	e 33	0	SS	e 48.8
Christchurch	105.9	228	e 18	54	PP	e 24	54	[- 1]	i 27	52	PS	47.8
Sverdlovsk	106.4	18	14	20	+ 3	28	5	PS	18	40	PP	—
Yuzno-Sakhlinsk	106.9	327	e 14	20	+ 1	e 25	4	[+ 5]	—	—	—	—
Ksara	108.9	48	e 16	26	?	i 25	15	[+ 8]	18	59	PP	—
Tifis	110.4	37	e 14	34	P	i 28	43	PS	e 21	32	PPP	—
Goris	112.7	38	e 14	44	P	29	4	PS	e 19	17	PP	—
Kimberley	z. 114.1	116	i 18	39 _a	[- 2]	i 29	26	PS	—	—	—	—
Vladivostok	115.1	330	—	—	—	e 25	40	[+ 8]	—	—	—	—
Lwiro	115.2	87	e 18	50	[+ 7]	—	—	—	33	21	?	—
Irkutsk	115.5	353	e 14	57	P	e 25	31	[- 3]	19	42	PP	—
Grahamstown	z. 115.6	121	i 18	13	[-31]	—	—	—	i 18	42	?	—
Matusiro	116.1	321	18	45	[0]	22	34	PKS	19	47	PP	—
Astrida	116.2	87	e 18	45	[0]	—	—	—	—	—	—	e 54.8
Pretoria	z. 117.1	113	e 18	46	[- 1]	—	—	—	—	—	—	—
Ashkabad	120.5	32	e 18	54	[+ 1]	—	—	—	i 20	10	PP	—
Rabaul	121.5	272	e 18	54	[- 1]	e 26	6	[+11]	e 20	19	PP	—
Brisbane	122.3	245	i 19	12	[+15]	e 26	1	[+ 4]	—	—	—	—
Tashkent	122.6	22	i 18	58	[+ 1]	e 25	58	[0]	e 15	33	P	—
Frunse	122.9	16	e 18	57	[- 1]	e 26	2	[+ 3]	i 20	38	PP	—
Riverview	123.3	237	i 18	59	[0]	i 26	10	[+10]	i 27	38	SKKS	e 57.5
Peking	124.3	339	e 19	2	[+ 1]	—	—	—	—	—	—	—
Stalinabad	124.8	24	e 19	6	[+ 4]	e 30	47	SKSP	—	—	—	—
Mirny	125.3	180	e 19	2	[- 1]	e 25	55	[-11]	e 20	53	PP	—
Melbourne	127.4	231	i 19	7	[0]	e 26	20	[+ 7]	e 28	3	SKKS	e 60.0
Zô-Sè	129.8	329	i 19	13 _a	[+ 2]	i 22	37	PKS	—	—	—	—
Nanking	130.1	332	e 19	14	[+ 2]	i 22	38	PKS	—	—	—	—
Quetta	131.0	31	19	5	[- 9]	e 26	15	[- 7]	e 21	4	PP	—
Sian	131.9	343	—	—	—	22	45	PKS	—	—	—	—
Tananarive	135.2	105	19	23	[+ 2]	e 23	3	PKS	—	—	—	64.8
Dehra Dun	135.6	19	19	30	[+ 8]	i 34	12	PPS	22	57	PP	—
New Delhi	136.9	21	e 19	50	[+26]	26	48	[+14]	23	15	PKS	—
Baguio City	141.3	316	i 19	27	[- 5]	—	—	—	—	—	—	—
Shillong	142.8	2	e 19	29	[- 6]	41	15	SS	22	31	PP	68.8
Bombay	143.3	34	e 19	33	[- 3]	23	18	PKS	e 41	35	SS	—
Bokaro	143.8	12	19	37	[0]	e 23	15	PKS	—	—	—	—
Poona	144.1	33	e 19	36	[- 1]	26	29	[-16]	23	11	PP	70.9
Hyderabad	E. 147.4	27	i 19	45	[+ 2]	27	17	[+27]	—	—	—	—
Perth	151.3	222	19	50	[+ 1]	—	—	—	i 23	38	PP	i 72.0
Kodras	E. 152.0	29	e 20	11	[+21]	i 26	28	[-28]	—	—	—	—
Kodaikanal	E. 152.9	37	e 21	1	[+69]	—	—	—	—	—	—	—
Bandung	165.3	288	20	8	[+ 2]	e 32	2	{+22}	—	—	—	96.8
Lembang	165.3	288	20	7 _k	[+ 1]	e 30	44	[-56]	e 21	23	PKP ₂	—
Djakarta	165.7	291	e 20	6 _a	[0]	e 28	34	PcPP'	e 24	56	PP	e 82.8

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Oct. 25d. 5h. 21m. 41s. Epicentre 11°·60N. 86°·52W.

A = +0·0595, B = -0·9780, C = +0·1998; $\delta = -6$; $h = +6$;
D = -0·998, E = -0·061; G = +0·012, H = -0·199, K = -0·980.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
San Salvador	3·4	309	e 0 57	+ 2	e 1 32	- 5	—	—
Comitan	7·1	311	i 1 57	+ 9	i 3 19	+ 8	—	—
Merida	9·8	343	i 2 24	0	i 4 11	- 5	—	i 3·6
Galerazamba	11·1	93	e 2 52	+10	i 5 4	+16	i 3 5	i 4·4
Oaxaca	11·3	300	i 2 46	+ 1	i 4 55	+ 1	—	5·8
Vera Cruz	11·9	310	—	—	e 5 11	+ 1	—	—
Chinchina	12·6	120	i 3 4	+ 1	i 5 48	+22	i 3 15	PP
Puebla	13·5	305	—	—	e 5 53	+ 7	e 6 15	SSS
Bogota	14·1	118	i 3 25	+ 2	i 6 24	+22	i 3 52	PPP
Tacubaya	14·5	304	i 3 32 _a	+ 4	i 6 22	+12	i 3 41	PP
Guadalajara	18·5	301	i 4 23	+ 4	e 7 57	+14	e 8 21	SS
Mobile	19·1	356	i 4 28 _a	+ 2	7 56	0	—	—
San Juan	20·8	69	e 4 43	- 2	e 8 44	+11	—	e 10·2
Mazatlan	22·2	304	—	—	e 9 50	SSS	e 5 16	PP
Columbia	22·8	12	i 5 7	+ 2	e 9 26	+15	e 8 53	PcP
Little Rock	E. 23·7	348	5 14	+ 1	9 52	SS	5 21	pP
Trinidad	24·6	87	e 5 18	- 5	—	—	—	—
Dominica	24·7	78	e 5 26	+ 2	—	—	—	—
St. Vincent	24·7	84	e 5 22	- 2	—	—	—	—
Fort de France	24·9	80	e 5 19	- 6	e 9 49	+ 2	—	—
Chapel Hill	25·1	14	i 5 29	+ 1	—	—	—	—
Antigua	25·2	74	e 5 25	- 4	—	—	—	—
Fayetteville	25·3	345	i 5 28 _a	- 2	—	—	—	—
Huancayo	26·0	154	i 5 35	- 1	e 10 14	+ 9	—	e 13·8
Lubbock	26·0	330	i 5 35	- 1	10 22	+17	—	—
Barbados	26·3	82	e 5 39	0	—	—	—	—
St. Louis	27·1	354	5 45 _k	- 1	10 34	+10	5 57	pP
Florissant	27·3	353	e 5 45	- 3	e 10 47	+20	—	—
Morgantown	28·5	11	i 5 59	0	—	—	i 8 49	PcP
Bermuda Navy	28·8	41	i 6 1	0	i 10 41	-10	i 7 5	PPP
Pennsylvania	30·1	13	e 6 20	+ 7	e 11 35	+24	—	—
Cleveland	30·1	7	6 19 _a	+ 6	e 11 36	+25	—	—
Tucson	30·4	316	e 6 15	0	e 11 23	+ 7	e 7 29	PPP
Palisades	31·3	18	i 6 24	0	e 11 51	+20	e 7 38	PPP
Boulder	32·8	333	i 6 36	- 1	—	—	—	e 14·2
La Paz	z. 33·3	147	i 6 39 _a	- 2	i 12 7	+ 5	8 1	PPP
Barratt	34·7	312	i 6 55	+ 2	—	—	i 9 26	PcP
Ottawa	34·9	13	i 6 53 _k	- 2	12 49	+22	8 33	PPP
Palomar	z. 35·2	313	i 6 59	+ 2	—	—	i 9 27	PcP
Boulder City	35·3	318	i 6 57	- 1	e 13 41	+69	i 9 39	PcP
Rapid City	E. 35·4	339	i 6 58	- 1	—	—	—	—
Brébeuf	35·5	16	i 7 0 _a	0	—	—	—	—
Riverside	35·9	313	i 7 3	0	i 12 43	+ 1	i 9 27	PcP
Pasadena	36·5	313	i 7 9	0	i 12 55	+ 3	i 9 31	PcP
Salt Lake City	36·6	327	i 7 8	- 1	—	—	—	i 17·3
Shawinigan Falls	36·7	16	e 7 9	- 1	—	—	—	—
Kirkland Lake	36·8	7	e 7 8 _a	- 3	—	—	—	—
China Lake	z. 37·0	316	i 7 11	- 2	—	—	i 9 32	PcP
Isabella	z. 37·5	315	i 7 18	+ 1	—	—	i 9 33	PcP
Seven Falls	37·8	17	e 6 50 _k	-29	13 10	- 1	8 35 _?	PP
Eureka	38·1	322	i 7 22	0	—	—	i 9 47	PcP
Tinemaha	38·1	317	e 7 23	+ 1	—	—	i 9 37	PcP
Fresno	39·0	316	i 7 26	- 4	—	—	—	—
Reno	40·5	319	i 7 42 _a	0	—	—	—	—
Lick	40·6	315	e 7 43 _a	+ 1	—	—	i 9 55	PcP
Butte	N. 40·8	332	e 7 44	0	—	—	—	e 23·3
Berkeley	41·3	315	e 7 48 _a	0	e 14 7	+ 4	i 9 47	PcP
Ukiah	42·6	317	e 8 5	+ 6	—	—	e 10 3	PcP
Shasta	42·8	319	i 7 57	- 4	—	—	e 9 59	PcP
Hungry Horse	43·2	333	i 8 2	- 2	e 13 44	-48	e 9 49	PP

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Schefferville	45.9	16	i 8 23	- 2	—	—	i 9 57	PP	—
Banff	46.0	335	i 8 23	- 3	—	—	—	—	—
Santa Lucia	z. 47.2	162	i 8 33	- 2	—	—	—	—	—
Victoria	47.9	327	e 8 39	- 2	—	—	—	—	—
Horseshoe Bay	48.4	328	i 8 42	- 3	—	—	—	—	—
Resolute	63.2	357	e 10 28	- 4	e 18 57	- 6	e 14 30	PPP	e 26.2
College	67.6	336	i 10 55	- 5	—	—	i 11 8	PcP	—
Malaga	76.9	55	i 11 55k	0	—	—	—	—	i 35.9
Toledo	76.9	52	e 12 1	+ 6	22 16	ScS	—	—	—
Granada	77.5	54	12 29a	+31	e 22 17	+28	15 8	PP	i 38.4
Kew	78.7	39	—	—	e 22 19?	+17	e 27 1	SS	e 37.3
Alicante	79.8	53	12 11	0	22 15	+ 1	27 28	SS	e 38.6
Paris	80.7	42	e 12 18	+ 2	e 17 9	PPP	e 15 39	PP	e 39.3
Clermont-Ferrand	81.5	45	e 12 38	+18	e 28 9	SS	e 23 45	PPS	37.8
Strasbourg	84.2	42	—	—	e 29 1	SS	e 24 13	PPS	36.3
Monaco	84.9	47	e 12 53	+15	—	—	—	—	—
Ebingen	85.1	42	12 47	+ 9	—	—	—	—	—
Stuttgart	85.1	41	12 47	+ 8	e 29 25	SS	24 19	PPS	e 36.3
Kiruna	85.6	21	e 12 28	-13	—	—	—	—	—
Pavia	85.8	45	—	—	—	—	e 36 19	?	—
Jena	z. 86.1	39	e 12 40	- 4	—	—	—	—	—
Tamanrasset	z. 87.4	67	e 12 46	- 4	e 23 27	[+10]	23 38	S	40.3
Florence	87.6	46	—	—	—	—	e 29 49	SS	e 37.3
Triest	88.9	44	e 12 42	-15	—	—	—	—	—
Rome	88.9	47	e 16 18	PP	e 24 17	PS	e 30 7	SS	39.0
Messina	92.2	50	e 13 4	- 8	e 23 58	{ 0}	e 16 47	PP	44.3
Ksara	109.0	48	e 14 22	- 8	e 21 25	PPP	i 18 58	PP	58.3
Matusiro	116.2	321	19 39	PP	29 35	PS	36 25	SS	57.5
Melbourne	E. 127.2	231	—	—	—	—	e 38 54	PSS	e 60.8
Quetta	131.2	31	19 14	[0]	—	—	e 22 36	PKS	—
Lembang	z. 165.3	287	i 20 7k	[+ 1]	—	—	—	—	—

Oct. 26d. 8h. 54m. 46s. Epicentre 6°·25S. 130°·19E. Depth of focus = 0.015R.

A = -0.6416, B = +0.7594, C = -0.1081; δ = +2; h = +7;
D = +0.764, E = +0.645; G = +0.070, H = -0.083, K = -0.994.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Rabaul	22.0	86	i 4 44	0	—	—	—	—	
Bandung	22.4	267	e 4 49	+ 1	e 8 40	0	e 15 47	ScS	
Lembang	22.4	267	i 4 47	- 1	i 8 37	- 4	e 15 45	ScS	
Djakarta	23.2	269	4 53a	- 3	e 8 19	-35	e 14 52	?	
Guam	24.3	36	i 5 7	+ 1	—	—	—	—	
Baguio City	24.4	337	i 5 8a	+ 1	9 18	+ 3	—	—	
Perth	28.9	206	i 6 25	+37	10 31	+ 4	11 36	SS	e 13.1
Brisbane	30.3	137	i 5 59	- 1	e 9 53	-56	—	—	
Hong Kong	32.4	331	—	—	11 19	- 4	—	—	
Canton	33.5	331	—	—	e 11 32	- 8	12 29	sS	
Riverview	33.6	147	i 6 30k	+ 1	i 11 43	+ 2	i 7 3	pP	i 15.2
Melbourne	34.2	159	i 6 35	+ 1	i 11 53	+ 3	i 7 2	pP	—
Zô-Sè	38.1	347	—	—	12 45	- 5	13 42	sS	—
Nanking	39.6	345	e 7 20	0	i 13 11	- 1	7 54	pP	—
Matusiro	43.2	9	7 48a	- 1	14 0	- 6	8 31	pP	e 21.4
Senchow	45.0	336	8 4	0	—	—	e 15 26	sS	—
Sian	45.0	335	9 35	PcP	14 28	- 4	—	—	—
Taiyuan	46.8	341	e 8 19	+ 1	—	—	—	—	—
Peking	47.8	345	e 8 26	0	15 8	- 3	9 15	sP	—
Shillong	z. 48.8	312	i 8 33	- 1	i 15 21	- 5	—	—	—
Changchun	50.0	355	e 8 41	- 2	e 15 37	- 5	18 17	ScS	—
Wuwei	50.9	332	e 8 51	+ 2	—	—	—	—	—
Chatra	z. 53.1	310	i 9 5	0	—	—	—	—	—
Madras	E. 53.2	291	i 9 6	- 1	—	—	16 23	SP	—
Macquarie Is.	z. 53.4	159	i 9 9	+ 1	—	—	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Dehra Dun	61.8	309	e 10 8	+ 2	—	—	—	—
Bombay	61.8	295	e 10 6	- 1	18 14	PS	12 26	PP
Irkutsk	62.3	342	10 10	0	18 26	+ 1	—	—
Lahore	65.2	309	10 28	- 1	18 55	- 5	—	—
Frunse	70.2	320	11 0	0	19 58	- 2	—	—
Quetta	70.5	305	e 11 2 _a	0	e 20 0	- 3	i 20 52	ScS
Semipalatinsk	70.9	329	11 13	+ 8	—	—	—	—
Honolulu	75.4	66	e 12 19	+48	—	—	—	—
Tiksi Bay	77.7	0	11 41	- 2	—	—	—	—
Tananarive	81.1	252	e 12 2	+ 1	e 14 20	PP	e 12 57	pP
Sverdlovsk	84.2	329	i 12 17	- 1	22 26	- 5	—	—
Tiflis	90.7	312	12 50	+ 1	23 34	+ 2	—	—
College	92.2	25	i 12 54	- 2	—	—	i 13 42	pP
Ksara	97.0	303	e 13 19	+ 1	e 26 3	sS	e 17 27	PP
Astrida	100.1	266	e 17 49	PP	—	—	—	—
Sodankyla	100.9	337	i 13 34	- 1	—	—	i 14 23	pP
Lwiro	101.1	266	16 17	?	—	—	17 50	PP
Kiruna	103.2	338	i 13 43	- 2	—	—	—	—
Upsala	106.6	331	i 13 59	- 1	—	—	—	—
King Ranch	z. 109.9	55	—	—	—	—	e 19 42	pPP
Isabella	z. 110.9	54	—	—	—	—	e 19 39	pPP
Tinemaha	z. 110.9	53	—	—	—	—	e 19 38	pPP
Pasadena	z. 111.4	56	e 18 21	[+ 3]	—	—	e 19 30	pPP
China Lake	z. 111.6	54	—	—	—	—	e 19 32	pPP
Hungry Horse	111.6	40	e 18 20	[+ 2]	e 19 44	PP	e 19 8	pP'
Riverside	112.0	56	e 19 40	PP	—	—	—	—
Eureka	112.3	50	e 18 22	[+ 2]	e 29 13	PKKP	i 19 50	PP
Palomar	z. 112.5	57	—	—	—	—	e 19 48	pPP
Jena	z. 112.6	323	e 18 24	[+ 4]	—	—	e 19 12	pP'
Barratt	z. 112.8	57	e 19 15	PP	—	—	e 20 3	?
Hayfield	N. 113.5	56	—	—	—	—	e 19 58	pPP
Stuttgart	114.8	321	e 18 25	[0]	—	—	e 19 10	pP'
Boulder	120.1	47	e 18 37	[+ 2]	—	—	—	—
Rapid City	E. 120.1	42	e 19 19	[+44]	—	—	e 20 46	pPP
Tamanrasset	z. 124.3	293	18 46	[+ 3]	e 20 33	PP	19 36	pP'
Lubbock	124.7	53	e 18 45	[+ 1]	—	—	e 19 32	pP'
Schefferville	129.7	13	i 20 33	PP	—	—	—	—
Fayetteville	129.7	47	i 18 55	[+ 2]	—	—	—	—
Ottawa	135.0	26	e 19 5	[+ 2]	—	—	22 18	SKP
Shawinigan Falls	135.2	22	19 6	[+ 2]	—	—	22 20	SKP
Seven Falls	135.4	20	e 18 31	[-33]	—	—	21 50?	PP
Morgantown	137.1	35	—	—	—	—	i 22 26	SKP
M'Bour	146.7	287	i 19 28	[+ 4]	e 22 35	PKS	e 20 35	pP'
La Paz	z. 151.0	141	i 19 36	[+ 5]	—	—	—	—
Chinchina	154.3	91	i 19 40	[+ 5]	—	—	i 20 38	pPKP
San Juan	160.0	51	—	—	—	—	e 20 25	pP'

Oct. 26d. 22h. 50m. 25s. Epicentre 13°-68S. 166°-93E.

A = -0.9468, B = +0.2198, C = -0.2350; δ = -3; h = +6;
D = +0.226, E = +0.974; G = +0.229, H = -0.053, K = -0.972.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Nouméa	8.6	183	i 2 17	+ 9	i 4 0	+13	—	i 4.3
Rabaul	17.3	301	i 4 17	+12	—	—	—	e 8.3
Brisbane	18.9	221	i 4 24	0	i 8 1	+ 8	—	—
Apia	20.7	93	e 4 42	- 2	e 8 44	+13	e 5 12	PP
Riverview	24.7	213	i 5 23	0	i 9 42	- 1	i 6 9	PPP
Wellington	28.3	167	e 5 53	- 5	—	—	—	—
Melbourne	31.0	215	i 6 18	- 3	i 11 23	- 3	e 7 12	PP
Guam	34.8	320	i 6 55	+ 1	e 12 7	-18	—	i 14.6
Macquarie IIs.	z. 41.2	187	i 7 49	+ 1	—	—	—	—
Perth	50.0	240	i 8 59	+ 1	i 16 39	+30	i 10 55	PP

Continued on next page.

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	Δ o	Az. o	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Baguio City	54.7	302	i 9 30 _a	- 3	i 17 12	- 1	—	—
Kyoto	56.8	329	9 49 _a	+ 1	17 40	0	—	—
Matusiro	56.8	332	i 9 45	- 4	17 37	- 4	i 10 45	PcP i 26.5
Bandung	58.6	270	e 10 2	+ 1	e 18 2	- 2	—	—
Djakarta	59.5	271	e 10 37	+29	e 18 30	+13	e 19 9	? —
Zô-Sè	62.5	316	10 24 _a	- 4	e 18 49	- 6	22 51	SS —
Hong Kong	62.9	304	i 10 32 _a	+ 2	e 19 1	+ 2	23 7	SS —
Canton	64.0	304	10 39 _a	+ 2	e 19 12	- 1	11 15	PcP —
Yuzno-Sakhlinsk	64.1	342	e 10 35	- 3	i 19 13	- 2	11 5	PcP —
Nanking	64.7	316	10 43 _a	+ 1	19 21	- 1	11 17	PcP —
Vladivostok	65.0	332	i 10 41	- 3	e 19 25	0	i 11 11	PcP —
Petropavlovsk	66.9	355	10 55	- 1	e 19 49	0	11 21	PcP —
Changchun	68.7	329	e 11 5	- 2	e 20 8	- 2	—	—
Suihwa	69.9	333	e 11 16	+ 1	—	—	—	—
Mirny	71.2	204	e 11 18	- 4	e 20 30	- 9	e 11 40	PcP —
Peking	71.2	321	11 20 _a	- 3	e 20 38	- 2	15 42	PPP —
Kwanting	71.7	321	e 11 26	0	—	—	—	—
Linfen	72.0	315	e 11 29	+ 2	—	—	—	—
Taiyuan	72.2	317	e 11 28	- 1	—	—	—	—
Sian	72.8	313	11 37	+ 5	—	—	—	—
Tatung	73.1	320	e 11 38	+ 4	—	—	—	—
Magadan	74.1	351	e 11 35	- 5	e 21 8	- 5	—	—
Wuwei	79.1	313	12 12	+ 4	—	—	—	—
Sining	79.1	312	e 12 13	+ 5	—	—	—	—
Shillong	z. 82.8	298	i 12 25 _a	- 2	i 22 44	- 1	—	—
Ukiah	83.5	47	e 12 29	- 2	—	—	—	e 38.2
Berkeley	83.7	49	e 12 34	+ 2	e 22 54	- 1	e 28 35	SS e 38.3
Lick	84.0	49	e 12 35 _k	+ 2	—	—	—	—
King Ranch	z. 84.7	52	e 12 39	+ 2	—	—	e 16 13	PP —
Shasta	84.7	46	e 12 38	+ 1	—	—	—	—
Irkutsk	84.9	327	i 12 38 _a	0	e 22 58	- 8	e 24 5	PS —
Sitka	85.0	28	e 12 41	+ 2	e 22 49	-19	e 24 15	PPS e 35.6
Fresno	85.1	50	e 12 39	0	—	—	—	—
College	85.4	18	e 12 36	- 5	—	—	—	—
Pasadena	85.5	53	i 12 39	- 2	i 23 14	+ 2	i 16 5	PP i 38.6
Corvallis	85.7	43	e 12 48	+ 6	—	—	—	—
Isabella	z. 85.7	52	i 12 44	+ 2	—	—	—	—
Riverside	z. 86.1	54	i 12 44 _k	0	e 23 8	[0]	e 16 17	PP —
Reno	86.1	48	e 12 45	+ 1	—	—	—	—
Barratt	86.2	55	e 12 44	0	e 23 7	-12	e 16 10	PP —
Palomar	86.2	55	e 12 43	- 2	—	—	—	—
Tinemaha	86.4	51	i 12 46	0	i 23 27	+ 6	e 16 19	PP —
China Lake	z. 86.5	52	i 12 47	+ 1	—	—	—	—
Victoria	87.2	39	e 12 49	0	e 23 32	+ 4	e 35 53	PcP, P' —
Hayfield	N. 87.3	54	i 12 52	+ 2	—	—	e 16 36	PP —
Bokaro	87.5	295	e 12 51	0	i 23 30	- 2	23 53	PS —
Horseshoe Bay	87.6	38	e 12 50	- 1	—	—	—	—
Boulder City	88.7	53	i 12 58	+ 2	—	—	—	—
Colombo	E. 88.8	277	12 57	0	23 23	[- 2]	—	e 44.4
Tiksi Bay	88.9	349	—	—	23 35	- 9	—	—
Eureka	88.9	49	i 12 58	+ 1	e 30 37	PKKP	e 38 40	P'P' —
Madras	E. 89.9	283	e 13 3	+ 1	e 23 31	[- 1]	—	—
Tucson	90.8	57	i 13 9	+ 3	—	—	e 16 51	PP e 41.1
Kodaikanal	E. 91.9	280	i 13 16 _k	+ 5	24 25	+14	17 4	PP —
Hyderabad	E. 92.6	287	e 13 12	- 3	23 40	[- 8]	16 43	PP e 41.1
Hungry Horse	93.0	41	e 13 17	+ 1	e 30 20	PKKP	e 16 35	PP —
Butte	N. 93.2	43	13 29	+11	—	—	—	e 39.0
Chihuahua	93.8	62	—	—	—	—	34 15	SSS —
Dehra Dun	95.8	300	e 13 34	+ 4	e 23 23	[-42]	—	—
Poona	97.1	287	e 13 32	- 3	30 26	SS	16 50	PP e 40.2

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Tacubaya	98.0	72	—	—	—	—	29 46	PKKP e 44.3
Bombay	98.1	287	e 13 41	+ 1	24 13	[- 5]	19 50	PPP
Lubbock	98.4	57	—	—	—	—	e 17 44	PP e 45.7
Lahore	99.2	300	i 13 39	- 6	—	—	—	—
Frunse	100.9	312	i 13 52 _a	0	i 24 29	[- 2]	i 25 25	S
Tashkent	104.6	309	e 14 7	- 2	24 43	[- 6]	e 18 25	PP
Stalinabad	104.7	307	—	—	e 26 1	+ 1	—	—
Resolute	105.3	16	e 27 51	PS	e 24 43	[- 9]	e 17 10	? e 50.1
Quetta	105.3	298	e 14 3	- 9	e 24 54	[+ 2]	e 18 28	PP
Florissant	E. 108.3	53	—	—	—	—	e 28 21	PS
St. Louis I	E. 108.4	54	—	—	24 59	[- 6]	28 11	PS
Sverdlovsk	110.3	326	18 35	[+ 1]	e 25 25	[+12]	e 28 39	PS
Terre Haute	110.6	53	—	—	—	—	29 40	PPS
Tananarive	112.1	243	e 18 39	[+ 2]	—	—	—	e 42.6
Ashkabad	112.9	306	e 18 41	[+ 2]	29 9	PS	i 19 35	PP
Huancayo	Z. 113.2	110	e 18 58	[+19]	i 22 16	PKS	e 19 47	PP
Cleveland	E. 115.0	50	—	—	35 16	SS	i 29 25	PS
Kirkland Lake	115.4	43	e 19 11	[+27]	—	—	—	—
Columbia	115.7	59	—	—	e 26 24	{+28}	e 29 29	PS e 52.6
Chinchina	117.8	92	i 19 19	[+31]	i 29 45	PS	i 20 21	PP 55.6
La Paz	N. 117.9	117	i 18 55	[+ 6]	i 36 11	SS	20 7	PP 54.6
Washington	118.6	53	—	—	—	—	i 20 24	PP e 50.8
Ottawa	118.8	46	e 18 50	[0]	36 41	SS	22 25	PPP
Bogota	119.2	92	—	—	i 30 13	PS	i 20 36	PP 57.6
Sodankyla	120.4	343	i 18 53	[0]	—	—	—	—
Shawinigan Falls	120.6	44	e 18 53 _k	[- 1]	22 30	PPP	19 22	pP'
Palisades	120.8	50	e 21 57	PKS	e 27 15	{- 4}	e 20 17	PP e 56.4
Kiruna	121.7	346	i 18 52	[- 4]	—	—	—	—
Seven Falls	121.7	43	e 18 24	[-32]	36 44	SS	21 59?	PPP
Goris	122.1	308	e 18 57	[0]	25 52	[- 5]	i 15 34	P
Weston	122.5	48	—	—	—	—	i 34 45	SS
Moscow	122.8	329	e 18 55	[- 3]	—	—	i 20 35	PP
Tiflis	122.9	311	e 18 57	[- 1]	e 30 41	PS	e 20 41	PP
Pulkovo	124.1	335	e 19 1	[0]	e 26 45	[+42]	—	—
Kimberley	Z. 124.2	221	i 18 59 _a	[- 2]	—	—	—	—
Halifax	127.3	44	e 19 7	[0]	—	—	—	—
Upsala	128.7	341	19 6	[- 3]	e 33 2	PPS	i 22 28	PKS
San Juan	128.9	77	e 19 9	[- 1]	—	—	e 22 31	PKS
Simferopol	129.4	318	e 19 8	[- 3]	—	—	—	—
Bermuda Navy	129.5	59	—	—	i 22 32	PKS	i 21 23	PP e 61.6
Ksara	131.4	303	i 19 18 _a	[+ 3]	e 39 28	SS	i 33 47	PPS 72.6
Safed	131.9	302	i 19 5	[-11]	—	—	—	—
Jerusalem	132.4	301	i 19 10	[- 6]	—	—	i 21 40	PP
Iasi	132.4	323	i 19 40	[+23]	—	—	e 22 46	PKS
Trinidad	132.6	88	e 19 16	[- 1]	—	—	—	—
Warsaw	132.9	332	e 19 21	[+ 4]	i 22 48	PKS	e 21 48	PP e 65.6
Lwow	132.9	328	i 19 18	[0]	i 22 44	PS	i 21 45	PP
St. Vincent	133.2	85	e 19 16	[- 2]	—	—	—	—
Fort de France	133.4	83	—	—	—	—	e 22 46	SKP
Antigua	133.6	79	e 19 21	[+ 2]	—	—	—	—
Copenhagen	133.7	340	i 19 21 _k	[+ 2]	i 22 49	PKS	e 21 56	PP 65.6
Astrida	134.6	252	i 19 20	[- 1]	—	—	e 21 55	PP
Bucharest	134.7	320	—	—	e 22 45	PKS	21 56	PP 69.6
Skalnate Pleso	135.3	329	i 22 2	PP	i 22 51	PKS	e 39 55	P'P'
Lwiro	135.6	252	e 19 13	[- 9]	—	—	i 22 59	PKS
Aberdeen	E. 135.8	351	—	—	—	—	39 55	SS 75.1
Hamburg	136.2	340	i 19 27	[+ 3]	i 23 8	PKS	—	e 72.6
Prague	137.3	334	i 19 27	[+ 1]	i 23 2	PS	e 27 39	? e 70.6
Bratislava	137.5	330	i 19 26	—	i 22 59	PKS	i 22 14	PP
Jena	Z. 137.8	337	e 19 23	[- 4]	e 26 15	[-31]	e 22 17	PP
Witteveen	137.9	342	19 30	[+ 3]	—	—	—	—
Durham	138.0	350	19 18	[- 9]	—	—	—	70.7
De Bilt	139.0	343	19 29	[0]	e 23 9	PKS	e 19 54	pP' e 64.6
Rathfarnham Castle	140.1	354	19 31	[0]	e 41 5	SS	e 22 27	PP
Stuttgart	140.5	337	e 19 26	[- 5]	e 27 11	[+31]	e 22 18	PP 71.6

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Triest	140.9	330	19 38	[+ 6]	e 27 16	[+35]	e 22 31	PP 68.1
Kew	140.9	347	e 19 32	[- 0]	e 23 11	PKS	e 22 31	PP e 68.6
Ebingen	141.0	336	e 19 29	[- 3]	—	—	—	—
Strasbourg	141.2	338	e 19 31	[- 2]	e 33 4	PS	e 22 37	PP —
Basle	142.1	337	e 19 36	[+ 2]	—	—	e 28 2	? —
Taranto	142.4	321	—	—	—	—	e 23 5	PP —
Paris	142.7	343	e 19 33	[- 2]	e 26 46	[+ 3]	e 22 30	PP —
Neuchatel	142.8	337	e 19 35	[- 0]	—	—	e 22 45	PP —
Bologna	142.9	331	e 19 34	[- 2]	25 8	PP	e 22 11	PKS —
Besançon	142.9	338	e 19 36	[0]	—	—	e 22 42	PP —
Pavia	143.4	333	e 19 34 _a	[- 2]	35 14	PPS	e 22 49	PP —
Florence	143.5	330	i 19 36 _a	[- 0]	i 23 51	SKP	i 22 52	PP e 70.6
Oropa	143.5	335	e 19 31	[- 6]	—	—	e 23 4	SKP —
Rome	144.2	327	i 19 37 _a	[- 1]	i 23 40	SKP	i 19 53	pP' —
Reggio Calabria z.	144.8	319	e 19 35	[- 4]	—	—	—	—
Messina	144.8	319	i 19 39	[0]	41 54	SS	i 23 1	PP —
Clermont-Ferrand	145.2	340	e 19 39	[- 1]	e 42 25	SS	i 23 4	PP 69.6
Monaco	145.3	333	i 19 41 _a	[+ 1]	—	—	—	—
Toledo z.	152.7	345	e 19 47	[- 4]	—	—	23 47	PP 74.8
Algiers Univ. z.	152.8	331	e 19 55	[+ 3]	e 24 2	PP	e 20 22	PKP ₂ —
Alicante	153.0	338	e 19 51	[- 1]	e 26 57	[0]	23 24	PKS e 72.6
Relizane	154.8	333	e 19 55	[+ 1]	e 20 22	PKP ₂	e 24 2	PP —
Almeria	155.0	339	i 19 56	[+ 1]	26 51	[- 9]	e 23 56	PP 83.2
Granada	155.1	342	i 19 57 _a	[+ 2]	e 27 4	[+ 4]	24 29	PP 72.1
Malaga	155.8	343	i 19 56 _a	[+ 1]	i 23 54	PP	i 20 20	P ₂ ' 75.1
Tamanrasset z.	160.2	300	20 1	[0]	e 20 42	PKP ₂	e 24 33	PP —
M'Bour	176.1	79	e 20 2	[- 10]	e 22 13	PKP ₂	e 26 7	PP —

Oct. 27d. 15h. 33m. 2s. Epicentre 11°·88N. 86°·46W. Depth of focus = 0.009R.

A = +0.0604, B = -0.9770, C = +0.2045; $\delta = 0$; $h = +6$;
D = -0.998, E = -0.062; G = +0.013, H = -0.204, K = -0.979.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Comitan	7.0	309	—	—	e 3 22	+21	e 4 30	? —
Balboa Heights	7.4	112	e 1 51	+ 4	—	—	—	—
Merida	9.5	342	—	—	i 4 11	SS	—	—
Vera Cruz	11.8	309	—	—	5 2	+ 4	i 8 10	PcP —
Chinchina	12.7	122	i 2 57	- 2	i 5 31	+12	—	— 6.5
Bogota	14.2	119	e 3 16	- 3	i 5 53	- 2	i 3 29	PP 7.0
Tacubaya	14.4	303	i 3 19	- 2	e 5 47	-11	6 8	sS e 7.0
San Juan	20.7	69	e 4 33	- 2	—	—	i 5 1	pP —
Columbia	22.6	12	e 4 58	+ 4	e 9 18	+27	—	— e 12.4
Fort de France	24.8	81	—	—	e 9 56	pS	—	—
Chapel Hill	24.9	14	5 17	+ 1	—	—	5 45	pP —
Lubbock	25.8	329	e 5 22	- 3	—	—	—	—
Huancayo	26.2	155	e 5 29	0	e 9 58	+ 6	e 6 8	pP —
Washington	28.2	16	e 5 40	- 7	—	—	—	— e 16.9
Philadelphia	29.7	18	e 6 10	+10	e 11 28	+40	—	— e 17.0
Tucson	30.2	316	e 6 7	+ 2	—	—	—	— e 18.8
Palisades	31.0	19	e 6 12	0	e 11 46	+37	—	— e 15.9
Boulder	32.6	333	e 6 23	- 3	—	—	—	—
La Paz	33.5	147	e 6 46	+12	12 8	+20	—	— 16.9
Hayfield N.	34.4	314	e 6 43	+ 2	—	—	e 9 19	PcP —
Barratt z.	34.6	312	e 6 51	+ 8	—	—	e 9 15	PcP —
Ottawa	34.6	13	e 6 43	0	—	—	—	—
Palomar z.	35.1	312	i 6 47	0	—	—	i 9 17	PcP —
Rapid City E.	35.2	339	e 6 47	- 1	—	—	e 7 30	sP —
Brébeuf	35.3	16	i 6 48 _a	0	—	—	—	—
Riverside z.	35.8	313	e 6 54	+ 1	—	—	e 9 18	PcP —
Pasadena	36.4	313	i 6 52	- 6	i 12 46	+14	—	— i 15.5
Shawinigan Falls	36.4	16	e 7 0 _k	+ 2	—	—	—	—
Kirkland Lake	36.6	7	e 6 59 _k	0	—	—	—	—
China Lake z.	36.9	316	i 7 3	+ 1	—	—	e 9 22	PcP —

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Isabella	z.	37.4	315	e 7 8	+ 2	—	—	i 9 23	PcP	—
Seven Falls		37.5	18	e 6 38	-29	—	—	—	—	—
Eureka		37.9	322	i 7 12	+ 1	—	—	—	—	—
Tinemaha	z.	38.0	317	e 7 13	+ 2	—	—	i 9 25	PcP	—
King Ranch	z.	38.1	313	e 7 12	0	—	—	i 9 29	PcP	—
Lick		40.4	315	e 7 32	0	—	—	9 34	PcP	—
Berkeley		41.1	315	e 7 37	0	—	—	e 9 36	PcP	—
Mineral		42.0	319	e 7 44	0	—	—	—	—	—
Shasta		42.6	319	e 9 35	PcP	—	—	—	—	—
Hungry Horse		43.0	333	e 7 51	- 2	—	—	i 9 41	PcP	—
Schefferville		45.6	16	e 8 19	+ 6	—	—	—	—	—
Resolute Bay		63.0	358	9 51	-29	—	—	e 23 19	sSS	—
College		67.3	336	i 10 45	- 3	—	—	—	—	—
Ksara		108.8	48	—	—	—	—	e 17 54	PKP	—
Matusiro		116.0	321	—	—	—	—	29 37	PS	e 59.6

Oct. 28d. 3h. 28m. 38s. Epicentre 33°-22S. 178°-91W.

A = -0.8381, B = -0.0159, C = -0.5453; $\delta = +2$; $h = +1$;
D = -0.019, E = +1.000; G = +0.545, H = +0.010, K = -0.838.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Wellington		9.5	210	2 16	- 5	4 20	+ 7	—	—	—
Nouméa		16.9	306	e 4 7	+ 7	i 7 16	+ 8	—	—	—
Apia		20.4	20	e 4 36	- 6	e 8 13	-13	—	—	—
Brisbane		24.8	276	i 5 30	+ 4	i 9 53	+ 6	—	—	—
Riverview		24.9	260	i 5 30 _a	+ 3	i 9 47	- 1	i 5 38	pP	e 11.9
Macquarie IIs.		26.4	210	i 5 41	+ 1	—	—	—	—	e 12.4
Melbourne		29.6	251	i 6 11	+ 1	i 11 2	- 3	i 6 21	pP	i 14.0
Rabaul		39.5	311	e 7 33	- 1	—	—	—	—	e 17.8
Perth		54.2	252	i 9 30	0	i 17 0	- 6	9 59	PcP	i 26.0
Honolulu		57.7	23	i 9 54 _k	- 1	—	—	—	—	—
Mirny		59.3	208	e 10 4	- 2	i 18 28	PS	e 10 54	PcP	—
Bandung		72.4	273	e 11 31	+ 1	e 20 49	- 5	—	—	—
Lembang		72.5	273	e 11 32	+ 1	i 20 52	- 3	e 25 28	SS	—
Djakarta		73.5	273	e 11 35	- 2	20 58	- 8	e 14 15	PP	40.4
Manila		74.4	299	i 11 40	- 2	i 21 11	- 6	—	—	—
Baguio City		76.0	301	i 11 48	- 3	e 21 28	- 5	—	—	—
Kyoto		80.1	324	12 14 _a	0	22 10	- 8	—	—	—
Matusiro		80.1	326	i 12 11 _a	- 3	i 22 9	- 9	15 10	PP	36.2
Mizusawa		81.0	330	e 12 16	- 2	e 22 18	- 9	12 53	pP	—
Hong Kong		84.3	301	12 36 _a	0	22 56	- 5	e 15 54	PP	—
Zô-Sè		85.4	312	i 12 39 _a	- 2	23 3	[0]	15 57	PP	—
Santa Lucia		85.4	127	i 12 40	- 1	—	—	—	—	—
Canton		85.5	301	12 40 _a	- 1	23 3	[- 1]	—	—	—
Yuzno-Sakhlinsk		87.0	335	i 12 47	- 2	i 23 8	[- 6]	i 16 12	PP	—
Nanking		87.5	311	12 50 _a	- 1	—	—	16 12	PP	—
Barratt		87.9	48	i 12 56 _a	+ 3	i 23 21	[+ 1]	e 16 22	PP	e 36.6
Pasadena		88.0	46	i 12 53 _a	- 1	e 23 16	[- 5]	e 16 4	PP	i 39.7
Santa Clara		88.0	42	e 12 53	- 1	e 23 52	+16	—	—	—
Lick		88.2	42	i 12 55 _a	+ 1	—	—	i 13 10	pP	—
Petropavlovsk		88.2	347	i 12 51	- 3	23 12	[-10]	e 23 30	ScS	—
Berkeley		88.2	41	i 12 54 _a	- 1	i 23 19	[- 3]	i 23 46	S	e 40.1
Palomar	z.	88.2	48	i 12 54 _a	- 1	e 24 8	+29	e 38 50	P'P'	—
Vladivostok		88.3	326	i 12 55	0	i 23 18	[- 4]	e 23 38	ScS	—
Riverside		88.4	47	i 12 53 _a	- 2	i 23 17	[- 6]	i 16 17	PP	e 36.6
Ukiah		88.6	40	e 12 57 _k	+ 1	—	—	—	—	—
Woody	z.	88.6	45	i 12 55 _a	- 2	e 23 53	+11	i 16 3	PP	—
Isabella	z.	88.8	45	i 12 58 _a	0	e 23 24	[- 1]	i 16 27	PP	—
Fresno		88.8	44	i 12 57 _a	- 2	—	—	—	—	—
Hayfield	n.	89.3	48	i 13 0	0	e 23 28	[0]	e 24 10	ScS	—
China Lake	z.	89.5	46	i 13 0 _a	- 1	e 23 25	[- 5]	i 38 47	P'P'	—

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Guadalajara	89.8	65	i 13	5	+ 3	i 23	47	- 6	—	—	—
Tinemaha	89.9	44	i 13	2 _a	- 1	i 23	29	[- 3]	i 16	38	PP
Shasta	90.2	39	i 13	3	- 1	—	—	—	i 13	21	PcP
Mineral	90.3	40	e 13	3 _a	- 2	—	—	—	—	—	—
Reno	90.7	42	e 13	5 _a	- 2	e 23	37	[0]	—	—	—
Boulder City	91.2	47	e 13	9	0	—	—	—	—	—	—
Tucson	91.4	52	e 13	9 _a	- 1	e 23	40	[- 1]	e 24	12	S
Changchun	92.0	323	13	12	0	23	38	[- 6]	16	50	PP
Tacubaya	92.2	68	i 13	19 _k	+ 6	e 23	42	[- 4]	i 16	41	PP
Chihuahua	92.4	57	i 13	19 _k	+ 5	i 23	44	[- 3]	i 25	34	PS
Corvallis	92.5	36	i 13	23	+ 8	—	—	—	—	—	—
Eureka	92.9	44	i 13	16 _a	0	—	—	—	e 13	36	PcP
Suihuwa	93.2	326	e 13	20	+ 3	—	—	—	—	—	—
Peking	94.4	316	i 13	22 _a	- 1	23	53	[- 5]	—	—	—
Vera Cruz	94.5	70	—	—	—	—	—	—	i 15	34	PP
Huancayo	94.6	108	i 13	25	+ 1	e 23	52	[- 7]	e 17	15	PP
Seattle	z. 95.2	34	e 13	52	+25	—	—	—	e 17	52	PP
Victoria	95.2	33	e 13	26	- 1	23	59	[- 3]	—	—	—
Sian	95.3	308	e 13	27	- 1	—	—	—	—	—	—
Magadan	95.8	345	e 13	27	- 2	23	58	[- 7]	i 24	43	ScS
Tatung	96.1	314	e 13	37	+ 6	—	—	—	—	—	—
Sitka	97.2	22	e 17	25	PP	e 24	10	[- 3]	e 24	59	S
La Paz	97.6	115	13	42 _a	+ 4	i 24	13	[- 2]	i 17	40	PP
Lubbock	98.2	55	e 13	40	- 1	e 24	13	[- 5]	e 17	41	PP
Butte	N. 99.0	40	e 13	58	+14	e 24	21	[- 1]	e 25	23	S
Bozeman	99.6	41	—	—	—	e 24	31	[+ 6]	e 26	55	PS
Hungry Horse	99.7	38	e 13	52 _a	+ 4	e 24	21	[- 5]	e 17	50	PP
College	100.8	13	i 13	52 _a	0	—	—	—	—	—	—
Shillong	z. 102.9	292	e 14	2	0	—	—	—	—	—	—
Colombo	E. 103.1	270	—	—	—	27	29	PS	18	13	PP
Rapid City	E. 103.2	46	e 14	9	+ 6	e 24	41	[- 1]	e 18	46	PP
Chinchina	103.8	93	i 14	5	- 1	i 24	44	[- 1]	i 18	26	PP
Fayetteville	104.9	57	i 18	29	[+ 6]	e 24	32	[-18]	e 29	53	PPS
Bogota	104.9	94	—	—	—	i 24	47	[- 3]	i 18	33	PP
Little Rock	E. 105.6	58	—	—	—	—	—	—	e 18	36	PP
Irkutsk	108.2	321	e 14	22	P	e 24	54	[-11]	18	47	PP
Florissant	108.9	56	18	57	PP	e 25	4	[- 4]	28	40	PS
St. Louis I	108.9	56	e 18	59	PP	e 24	59	[- 9]	28	38	PS
Hyderabad	109.7	278	e 19	5	PP	e 25	21	[+11]	e 28	36	PS
Tiksi Bay	110.8	344	e 19	7	PP	e 25	7	[- 8]	e 26	3	SKKS
Pietermaritzburg	z. 111.6	207	i 18	46	[+ 9]	—	—	—	—	—	—
Tananarive	111.8	228	e 18	38	[+ 1]	—	—	—	e 18	52	PP
Columbia	113.5	64	e 19	58	PP	e 25	23	[- 4]	e 26	32	SKKS
Kimberley	z. 114.4	203	i 18	35	[- 7]	—	—	—	i 29	28	PS
Bombay	115.1	277	i 18	30	[-14]	25	31	[- 2]	19	47	PP
Chapel Hill	115.8	63	e 20	7	PP	—	—	—	—	—	—
New Delhi	N. 115.9	288	29	30	PS	25	26	[- 9]	—	—	—
Pretoria	z. 115.9	207	e 18	46	[+ 1]	—	—	—	e 29	21	PS
Cleveland	116.2	56	i 19	50	PP	e 25	31	[- 6]	e 29	41	PS
Washington	118.4	60	—	—	—	—	—	—	i 20	5	PP
Pennsylvania	118.5	58	i 20	5	PP	e 25	40	[- 5]	27	4	SKKS
Kirkland Lake	119.4	49	18	50	[- 2]	—	—	—	30	10	PS
Philadelphia	120.1	60	e 20	40	PP	e 27	11	{- 4}	e 37	7	SS
Resolute Bay	120.2	18	i 18	50	[- 3]	25	45	[- 6]	20	18	PP
Fort de France	121.0	92	—	—	—	e 30	22	PS	e 20	20	PP
Fordham	121.4	59	e 19	2	[+ 6]	—	—	—	e 30	56	PS
Palisades	121.4	59	e 18	53	[- 3]	i 25	48	[- 7]	e 20	28	PP
Ottawa	121.4	53	18	54	[- 2]	30	13	PS	20	45	PP
Brébeuf	122.9	54	i 18	52 _a	[- 7]	—	—	—	—	—	—
Frunse	123.0	303	i 18	58 _a	[- 1]	e 30	18	PSKS	i 23	22	PPP
Weston	123.6	58	i 18	59	[- 1]	—	—	—	—	—	—
Shawinigan Falls	123.7	53	19	0 _a	[0]	28	48	PKKP	23	7	PPP
Quetta	124.7	286	19	2	[0]	i 22	20	PKS	20	48	PP
Seven Falls	125.2	53	18	30 _a	[-33]	25	28 _a	[-39]	27	7	SKKS
Stalinabad	126.0	296	i 19	4	[- 1]	—	—	—	30	49	SKSP

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Tashkent	126.4	300	e 19 5	[- 0]	i 26 8	[- 2]	i 20 55	PP	—
Halifax	129.6	57	i 19 10k	[- 2]	—	—	22 23	PKS	e 54.4
Sverdlovsk	133.6	319	i 19 19	[- 0]	—	—	i 23 10	PP	—
Ashkabad	133.8	293	—	—	i 31 29	SKSP	i 22 50	PKS	—
Astrida	135.3	223	e 19 14	[- 8]	—	—	i 19 23	PKP	—
Lwiro	136.1	222	e 19 11	[- 13]	—	—	i 19 26	PKP	—
Scoresby Sund	140.6	12	e 19 17	[- 15]	—	—	—	—	68.4
Sodankyla	142.7	344	i 19 32	[- 4]	—	—	—	—	—
Goris	143.3	293	i 19 33	[- 4]	—	—	—	—	—
Kiruna	143.6	348	i 19 32	[- 5]	—	—	i 24 30	?	—
Tiflis	144.6	297	i 19 37	[- 2]	—	—	e 26 11	PPP	—
Reykjavik	146.0	18	i 19 43k	[+ 2]	—	—	i 20 4	PKP	—
Moscow	146.2	323	i 19 40	[- 2]	—	—	i 20 41	?	—
Pulkovo	147.2	333	i 19 42	[- 1]	e 29 52	{ - 11}	e 23 19	PKS	—
Ksara	151.1	281	i 19 50k	[+ 1]	i 26 55	[- 1]	i 23 46	PP	71.4
Upsala	151.2	343	i 19 48	[- 2]	i 36 46	PPS	i 23 38	PP	—
Safed	151.2	279	i 19 50	[- 0]	—	—	—	—	—
Jerusalem	151.2	277	e 19 43	[- 7]	—	—	—	—	—
Simferopol	152.0	304	i 19 58 _a	[+ 8]	e 30 24	{ - 5}	e 23 44	PP	—
M'Bour	155.1	134	i 19 56	[+ 1]	e 23 31	SKP	i 20 18	PKP ₂	—
Iasi	155.6	313	i 19 58	[+ 2]	30 45	{ - 4}	—	—	—
Copenhagen	156.2	344	i 19 56 _a	[- 0]	e 23 47	PKS	i 20 25	PKP ₂	73.4
Bacau	156.3	312	e 19 50	[- 7]	—	—	—	—	—
Lwow	156.3	321	i 19 59	[+ 2]	i 30 50	{ - 3}	e 23 59	PP	—
Bucharest	157.6	307	20 12	[+ 14]	30 58	{ - 2}	24 12	PP	—
Campulung	158.0	310	e 20 0	[+ 1]	—	—	—	—	—
Durham	158.4	4	19 59	[- 0]	—	—	20 36	PKP ₂	—
Hamburg	158.7	345	i 20 0	[- 0]	i 20 36	PKP ₂	e 24 5	PP	e 80.4
Rathfarnham Castle	159.2	12	i 20 0k	[- 0]	e 45 32	SS	24 32	PP	e 66.4
Witteveen	160.0	350	e 20 4	[+ 3]	—	—	e 20 41	PKP ₂	—
Sofia	160.1	305	i 19 59	[- 2]	30 2	{ - 71}	28 31	PKKP	—
Prague	160.5	334	20 3	[+ 1]	23 23	PKS	i 20 46	PKP ₂	—
Hurbanovo	160.5	324	i 20 4	[+ 2]	—	—	i 25 28	PP	—
Jena	160.7	340	20 0	[- 2]	e 24 19	PP	i 20 44	pPKP	—
Bratislava	160.8	326	i 20 3	[+ 1]	i 31 18	{ + 1}	i 20 36	PKP ₂	—
De Bilt	160.9	352	e 19 58	[- 4]	e 44 52	SS	e 35 22?	PS	e 62.4
Belgrade	161.1	313	i 20 1 _a	[- 1]	31 15	{ - 3}	e 35 36	PS	e 90.4
Kew	161.7	3	i 20 1	[- 2]	e 31 44	[+ 22]	e 24 50	PP	e 78.4
Karlsruhe	163.3	343	e 20 3k	[- 2]	e 24 37	PP	e 20 55	pPKP	e 80.4
Stuttgart	163.3	341	i 20 4 _a	[- 1]	e 31 25	{ - 5}	i 20 54	pPKP	—
Strasbourg	163.9	344	i 20 4 _a	[- 1]	i 24 34	PP	e 20 48	PKP ₂	e 70.4
Ebingen	163.9	341	e 20 3	[- 2]	—	—	20 58	pPKP	—
Triest	164.2	326	i 20 3	[- 2]	e 26 55	[- 13]	i 24 52	PP	—
Paris	164.4	357	e 20 4	[- 2]	32 8	{ + 33}	i 21 1	PKP ₂	e 77.4
Basle	164.9	343	19 21	[- 45]	—	—	e 31 30	PKKS	—
Besançon	165.5	347	i 20 5	[- 2]	—	—	e 24 49	PP	—
Neuchatel	165.5	344	e 18 5	?	27 32	[+ 23]	—	—	—
Bologna	166.2	328	e 20 29	[+ 22]	21 58	PKP ₂	24 42	PP	—
Pavia	166.5	335	e 20 6	[- 1]	27 2	[- 8]	e 24 56	PP	e 82.6
Oropa	166.5	339	e 20 23	[+ 16]	e 35 9	PS	e 24 44	PP	—
Florence	166.8	326	i 20 5 _a	[- 3]	i 32 4	{ + 17}	i 25 18	PP	e 82.4
Messina	167.2	297	i 20 7k	[- 1]	—	—	i 25 2	PP	—
Rome	167.5	317	—	—	i 39 5	PS	e 32 40	?	80.5
Tamanrasset	168.9	202	e 20 9 _a	[- 0]	e 31 45	{ - 12}	e 25 9	PP	—
Lisbon	170.1	54	e 20 10	[- 0]	27 5	[- 7]	25 15	PP	—
Toledo	172.2	30	e 20 11 _a	[- 0]	46 22	SS	25 22	PP	81.5
Malaga	174.3	51	i 20 10k	[- 2]	27 10	[- 3]	i 25 38	PP	82.0
Granada	174.5	43	21 11	[+ 59]	26 59	[- 14]	i 25 35	PP	188.8
Alicante	174.7	14	i 20 11	[- 0]	27 7	[- 6]	25 33	PP	e 81.9
Almeria	175.4	38	i 20 12	[- 0]	—	—	25 41	PP	87.7
Algiers Univ.	176.1	336	e 20 12	[- 0]	e 32 33	{ + 1}	e 25 44	PP	—
Relizane	177.4	10	i 20 18 _a	[+ 6]	e 29 9	PcP,P'	e 25 55	PP	—

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Oct. 28d. 10h. 45m. 8s. Epicentre 13°·94N. 122°·98E.

A = -0.5285, B = +0.8145, C = +0.2394; $\delta = +3$; $h = +6$;
D = +0.839, E = +0.544; G = -0.130, H = +0.201, K = -0.971.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Manila	2.0	288	i 0 36 _a	0	—	—	—	—
Baguio City	3.4	317	i 0 56	+ 1	—	—	—	—
Hengchun	8.3	346	e 2 4	0	3 23	-16	—	—
Tawu	8.6	347	2 11	+ 3	3 41	- 6	—	—
Hsingkong	9.2	351	e 2 12	- 4	3 48	-15	—	—
Tainan	9.4	344	2 36	+17	—	—	—	—
Alishan	9.8	348	2 21	- 3	4 14	- 2	—	—
Hwalien	10.1	353	2 16	-12	3 36	-47	—	—
Taichung	10.4	348	2 44	+11	—	—	—	—
Ilan	10.8	354	e 2 39	0	—	—	—	—
Taipei	11.1	353	e 2 44	+ 1	4 40	- 9	—	—
Hong Kong	11.8	316	2 52	0	—	—	i 4 6	?
Canton	12.9	316	3 5 _a	- 2	e 4 28	-65	—	—
Zò-Sè	17.2	355	3 58 _a	- 4	7 16	+ 3	4 14	PP
Futzeling	18.3	342	e 4 15	- 2	—	—	—	—
Nanking	18.4	349	4 14	- 4	e 7 42	0	4 40	PPP
Kagosima	18.9	20	e 4 25	+ 1	—	—	—	—
Tomie	19.3	15	e 4 27	- 2	—	—	—	e 9.4
Miyazaki	19.5	22	e 4 31	0	e 8 11	+ 5	—	e 10.1
Nagasaki	19.7	18	e 4 29	- 5	e 8 27	+16	—	—
Unzendake	19.8	18	e 5 4	+29	—	—	—	—
Kumamoto	20.1	19	e 4 38	+ 1	8 27	+ 9	—	10.7
Saga	20.4	18	i 4 44	+ 4	i 9 48	SS	i 5 30	PP
Hukuoka	20.7	18	e 4 44	0	e 8 35	+ 4	—	e 9.7
Simidu	20.8	24	e 4 35	-10	e 8 33	- 1	—	—
Guam	21.2	89	i 4 43	- 6	—	—	—	—
Matuyama	21.7	22	e 4 52	- 2	e 8 43	- 7	—	e 10.6
Koti	21.8	24	e 4 57	+ 2	e 8 47	- 4	—	—
Hirosima	22.1	21	e 4 55	- 3	e 8 54	- 3	e 5 17	PP
Hamada	22.4	20	e 5 4	+ 3	e 9 25	+21	—	e 11.9
Takamatu	22.6	24	e 5 7	+ 4	e 9 10	+ 3	—	e 10.7
Tokusima	N. 22.6	26	e 5 2	- 1	e 9 37	+30	—	—
Siomisaki	22.6	29	e 4 46	-17	e 8 59	- 8	—	—
Sumoto	23.0	26	e 5 8	+ 1	e 9 18	+ 4	—	e 12.0
Owase	N. 23.4	29	e 5 8	- 2	e 9 23	+ 3	—	—
Kobe	23.4	26	e 5 12	+ 1	e 9 27	+ 6	—	—
Osaka	23.5	27	e 5 15	+ 3	e 9 28	+ 5	e 6 3	PP
Nara	23.7	27	e 5 13	- 1	—	—	—	—
Sian	23.9	330	e 5 16	0	9 32	+ 2	5 49	PP
Kyoto	23.9	26	e 5 13	- 3	9 28	- 2	—	e 10.5
Toyooka	24.0	24	e 5 14	- 3	e 9 35	+ 4	—	—
Tu	24.0	28	e 5 20	+ 3	—	—	—	—
Kameyama	24.1	28	e 5 16	- 2	e 9 38	+ 4	e 5 40	PP
Linfen	24.4	337	e 5 20	0	—	—	—	—
Hikone	24.4	27	e 5 16	- 4	9 37	- 1	—	—
Ibukisan	N. 24.5	27	e 5 29	+ 7	—	—	—	—
Nagoya	E. 24.6	28	e 5 14	- 9	—	—	—	—
Gihu	24.7	28	e 5 19	- 5	e 9 32	-12	e 5 48	PP
Omaesaki	24.8	31	e 5 22	- 2	i 9 44	0	i 6 27	PPP
Dairen	24.9	358	e 5 27	+ 2	—	—	—	e 14.2
Hukui	25.0	26	e 5 24	- 3	—	—	—	—
Shizuoka	25.1	31	e 5 24	- 4	e 9 50	- 1	—	—
Iida	25.3	29	e 5 32	+ 3	—	—	—	—
Taiyuan	25.5	341	e 5 30	- 1	—	—	—	—
Osima	N. 25.5	33	—	—	e 10 19	+22	—	—
Misima	25.5	32	e 5 33	+ 2	e 9 58	0	—	—
Djakarta	25.6	220	e 5 33	+ 1	e 11 46	?	i 7 27	?
Lembang	25.6	217	i 5 36 _a	+ 3	e 10 5	+ 6	—	e 17.9
Bandung	25.7	217	e 5 37	+ 4	10 7	+ 7	—	e 19.9
Hunatu	25.8	31	e 5 40	+ 7	—	—	—	—

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		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Kohu		25.8	30	e 5	58	+25	(e 10	18)	+17	—	—	e 10.3	
Mera	N.	25.8	33	e 6	7	+33	—	—	—	—	—	—	
Matumoto	E.	26.0	28	e 5	55	+19	—	—	—	—	—	—	
Toyama		26.0	27	e 5	36	+0	—	—	—	—	—	—	
Yokohama		26.1	32	e 6	4	+27	—	—	—	—	—	—	
Titibu		26.3	30	e 5	46	+8	—	—	—	—	—	—	
Oiwake		26.3	29	e 5	49	+10	—	—	—	—	—	—	
Matusiro		26.3	28	i 5	32 _a	-7	9	49	-22	6	7	PP	i 11.6
Tokyo		26.4	32	e 5	34	-5	e 10	21	+9	—	—	—	—
Nagano	N.	26.4	28	e 5	38	-2	e 10	10	-2	—	—	—	—
Kumagaya		26.6	31	e 5	48	+7	—	—	—	e 11	48	SSS	—
Maebasi		26.6	30	e 6	3	+22	—	—	—	—	—	—	—
Peking		26.7	348	e 5	39 _a	-3	10	12	-4	6	22	PP	—
Kwanting		27.0	348	e 5	44	-1	—	—	—	—	—	—	—
Utunomiya	E.	27.1	31	e 5	41	-5	e 11	21	SS	e 6	20	PP	—
Tatung		27.4	344	e 5	55	+6	—	—	—	—	—	—	—
Shirakawa	N.	27.7	31	e 5	58	+6	—	—	—	—	—	—	—
Niigata		27.8	28	e 6	13	+20	—	—	—	—	—	—	—
Hokusima		28.4	30	e 6	1	+4	—	—	—	—	—	—	—
Sendai		29.0	30	e 6	0	-3	—	—	—	—	—	—	—
Mizusawa		29.8	29	6	7	-3	e 12	52	SS	e 6	43	PP	—
Akita		29.8	27	6	7	-3	e 12	34	SS	—	—	—	e 15.4
Changchun		29.9	3	e 6	6	-5	e 11	3	-5	—	—	—	—
Morioka		30.2	29	e 6	18	+4	—	—	—	—	—	—	e 12.1
Shillong		31.4	296	i 6	21	-3	i 11	30	-2	—	—	—	—
Mori	N.	31.9	25	e 6	41	+12	—	—	—	—	—	—	—
Urakawa		32.9	28	e 6	38	0	e 11	42	-14	e 13	37	SS	—
Sapporo		33.1	25	e 6	33	-6	e 12	2	+4	(e 14	9)	SS	e 14.2
Rabaul		34.1	120	e 6	45	-3	—	—	—	e 8	4	PP	—
Nemuro		35.1	29	e 7	20	+23	—	—	—	—	—	—	—
Wakkanai	N.	35.2	23	—	—	—	e 12	18	-12	—	—	—	—
Chatra	Z.	35.8	297	i 7	2	0	—	—	—	—	—	—	—
Bokaro		36.4	291	e 7	7	-1	i 12	49	-1	8	39	PP	16.1
Irkutsk		41.0	343	7	43	-3	13	56	-3	—	—	—	—
Colombo	E.	42.9	265	—	—	—	16	21	SS	9	43	PP	—
Dehra Dun		44.4	299	e 8	18	+4	i 14	44	-5	18	8	SS	20.3
Kodaikanal	E.	44.6	270	e 8	21	+6	—	—	—	—	—	—	—
New Delhi	N.	44.8	297	e 7	56	-21	e 13	56	-59	9	34	PP	—
Poona		47.3	282	i 8	37	+1	i 15	28	-2	9	52	PcP	22.0
Petropavlovsk		48.2	28	8	39	-5	—	—	—	—	—	—	—
Bombay		48.2	283	e 8	47	+3	e 15	45	+1	10	32	PP	—
Semipalatinsk		50.2	326	8	57	-2	—	—	—	—	—	—	—
Brisbane		50.4	145	i 8	58	-3	i 16	8	-6	—	—	—	—
Frunse		50.5	315	9	0	-1	—	—	—	—	—	—	—
Namangan		52.0	311	9	12	-1	16	35	-1	—	—	—	—
Quetta		53.9	297	e 9	26	-1	e 16	57	-4	—	—	—	—
Riverview		54.6	151	i 9	31 _k	-1	e 17	11	0	e 17	23	PS	—
Melbourne		55.5	159	e 9	36	-2	e 17	35	+12	i 9	44	pP	e 23.4
Tiksi Bay		57.8	2	9	53	-2	—	—	—	—	—	—	—
Sverdlovsk		63.4	327	10	31	-2	19	4	-2	—	—	—	—
Makhach-Kala		70.0	311	11	10	-5	20	26	0	—	—	—	—
Tiflis		72.1	310	11	28	0	20	51	0	—	—	—	—
Wellington		72.8	142	11	29	-3	—	—	—	—	—	—	—
Macquarie IIs.	Z.	74.7	159	e 11	32	-11	—	—	—	—	—	—	—
Sotchi		75.7	312	11	49	0	21	27	+4	—	—	—	—
Moscow		76.0	324	11	50	0	21	26	-8	—	—	—	—
College		77.2	26	i 11	53	-4	—	—	—	i 12	4	pP	—
Simferopol		79.5	314	12	8	-2	22	8	-3	—	—	—	—
Sodankyla		79.7	337	i 12	9	-2	—	—	—	—	—	—	—
Ksara		80.0	302	i 12	16	+4	e 22	19	+3	e 15	11	PP	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Safed	80.5	302	i 12 15	0	—	—	—	—
Jerusalem	80.9	300	i 12 13	- 4	—	—	—	—
Tananarive	81.1	248	e 12 19 ^k	+ 1	—	—	—	—
Kiruna	81.9	338	i 12 21	- 1	e 23 12	?	i 12 26	PcP
Iasi	83.5	317	12 30	- 1	—	—	—	—
Bucharest	85.2	314	12 3	-36	—	—	—	47.9
Upsala	85.6	331	i 12 38	- 3	—	—	i 15 46	PP
Sofia	z. 87.6	313	i 12 52	+ 1	23 32	0	—	—
Resolute	88.4	9	i 12 52 ^a	- 3	e 23 6	[-17]	e 30 21	SS
Bratislava	90.0	320	e 13 13	+11	—	—	—	e 35.8 49.9
Prague	90.9	322	i 13 8	+ 1	—	—	e 15 55	PP
Jena	92.2	324	e 13 12	- 1	—	—	e 16 56	PP
Scoresby Sund	92.4	349	e 13 15	+ 2	—	—	—	54.9
Triest	93.1	318	13 20 ^a	+ 4	24 15	- 7	e 23 31	SKS
Stuttgart	94.6	323	e 13 17	- 6	—	—	25 22	PS
Messina	E. 94.7	311	—	—	e 24 37	[+ 1]	—	e 50.4
Ebingen	95.0	322	13 27	+ 2	—	—	—	—
Florence	95.5	318	i 13 28	+ 1	25 19	+37	i 17 6	PP
Strasbourg	95.5	323	e 13 28 ^a	0	—	—	—	—
Kew	98.4	328	—	—	e 25 27	+20	—	e 46.9
Shasta	98.8	44	e 13 54	+12	—	—	—	—
Mineral	99.4	44	e 13 47	+ 2	—	—	—	—
Hungry Horse	100.0	35	e 13 53	+ 5	e 30 9	PKKP	e 18 24	PP
Woody	z. 103.5	48	—	—	—	—	i 18 31	PP
Eureka	103.6	43	e 14 13	+ 9	—	—	—	—
Isabella	103.8	48	e 18 32	PP	—	—	—	—
China Lake	z. 104.4	47	—	—	—	—	e 18 11	PP
Hayfield	N. 106.2	48	i 14 10	- 8	—	—	—	—
Rapid City	E. 108.6	33	e 19 18	PP	—	—	—	—
Malaga	109.3	317	e 18 36	PP	—	—	—	65.1
Ottawa	118.6	15	—	—	—	—	e 20 15	PP
Palisades	123.1	15	—	—	—	—	e 31 18	PPS
Antigua	149.0	8	i 19 55	[+10]	—	—	—	—
Dominica	150.6	9	e 19 56	[+ 8]	—	—	—	—
Fort de France	151.2	8	i 19 49	[0]	—	—	i 20 35	PKP ₂
St. Vincent	152.7	9	e 20 5	[+14]	—	—	—	—
Chinchina	153.7	46	i 19 54	[+ 2]	—	—	—	—
Bogota	155.0	44	i 20 10	[+16]	—	—	—	—
Trinidad	155.2	11	e 20 5	[+11]	—	—	—	—
Santa Lucia	157.0	150	i 19 57	[0]	—	—	—	—
Huancayo	z. 162.1	86	e 20 7	[+ 5]	e 30 15	PKKP	e 20 56	PKP ₂
La Paz	169.0	105	20 14	[+ 6]	27 54	[+43]	25 20	PP

Oct. 29d. 15h. 42m. 10s. Epicentre 8°·77S. 77°·17W. Depth of focus = 0·005R.

A = +0·2196, B = -0·9638, C = -0·1514; δ = +6; h = +7;
D = -0·975, E = -0·222; G = -0·034, H = +0·148, K = -0·988.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Huancayo	3.7	151	i 0 57	0	1 34	- 6	—	—
La Paz	11.7	132	i 2 46	0	i 5 8	+12	i 3 8	PP
Bogota	13.6	13	i 3 13	+ 1	i 5 44	+ 1	i 3 22	PP
Chinchina	13.7	6	i 3 14	+ 1	i 5 49	+ 4	i 3 37	PP
Antofagasta	16.2	157	e 3 44	0	—	—	—	—
Galerazamba	19.5	6	i 4 24	- 1	i 8 7	+11	i 4 58	pP
Trinidad	24.8	39	e 5 19	+ 1	—	—	—	—
Santa Lucia	z. 25.3	167	i 5 22	0	—	—	—	—
St. Vincent	26.9	36	e 5 34	- 3	—	—	—	—
Barbados	27.9	39	i 5 49	+ 3	—	—	—	—
Fort de France	28.2	34	i 5 47	- 2	—	—	—	—
Dominica	28.6	33	e 5 51	- 1	—	—	—	—
Comitan	28.9	329	—	—	—	—	e 7 54	PP
San Juan	29.1	22	e 5 54	- 3	—	—	i 6 12	pP
Antigua	30.1	32	i 6 8	+ 2	—	—	—	—

Continued on next page.

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		Δ	Az.	P.		O-C.	S.	O-C.	Supp.		L.		
		°	°	m.	s.	s.	m.	s.	m.	s.	m.		
Merida		32.0	338	e 6	22	0	—	—	e 6	40	pP	—	
Tacubaya		35.4	322	e 6	49	- 3	—	—	i 8	2	PP	—	
Bermuda Navy		42.6	16	i 7	56	+ 4	i 14	15	+ 5	i 15	36	?	e 20.0
Columbia		42.7	355	e 7	54	+ 2	—	—	—	—	—	—	—
Chapel Hill		44.5	358	e 8	6	- 1	—	—	—	i 9	32	PP	—
Lubbock		48.2	332	i 8	37	+ 1	—	—	—	i 8	57	pP	—
Palisades		49.6	3	i 8	48	+ 1	i 15	50	+ 1	i 9	21	pP	e 22.5
Tucson		51.9	323	i 9	6	+ 1	—	—	—	e 9	22	pP	—
Ottawa		53.9	1	i 9	19k	- 1	—	—	—	e 9	39	pP	—
Brébeuf		54.1	3	i 9	19k	- 2	—	—	—	—	—	—	—
Halifax		54.5	12	i 9	24	0	—	—	—	—	—	—	—
Shawinigan Falls		55.2	4	i 9	28k	- 1	—	—	—	—	—	—	—
Barratt	z.	55.8	320	i 9	51	+18	—	—	—	i 10	3	pP	—
Hayfield	N.	55.8	321	i 9	34	+ 1	—	—	—	—	—	—	—
Seven Falls		55.9	5	9	0?a	-34	—	—	—	9	20?	pP	—
Palomar	z.	56.4	320	i 9	37a	0	—	—	—	—	—	—	—
Kirkland Lake		56.7	358	i 9	38a	- 2	—	—	—	e 9	58	pP	—
Boulder City		56.9	324	i 9	41	0	—	—	—	i 10	3	pP	—
Riverside	z.	57.1	320	i 9	42a	0	—	—	—	i 10	3	pP	—
Rapid City	E.	57.6	338	e 9	46	0	—	—	—	e 10	7	pP	—
Pasadena	z.	57.7	320	i 9	47a	0	—	—	—	i 10	2	pP	—
China Lake	z.	58.4	322	i 9	53a	+ 1	—	—	—	—	—	—	—
Salt Lake City		58.8	330	i 9	54	0	—	—	—	i 10	14	pP	—
Isabella	z.	58.9	321	i 9	56a	+ 1	—	—	—	—	—	—	—
Woody	z.	59.2	321	i 9	57a	0	—	—	—	i 10	10	pP	—
King Ranch	z.	59.5	320	i 10	0a	+ 1	—	—	—	i 10	21	pP	—
Tinemaha	z.	59.6	322	i 10	0a	0	—	—	—	i 10	22	pP	—
Eureka		60.0	326	i 10	3	+ 1	—	—	—	i 10	25	pP	—
Fresno		60.4	321	i 10	6a	+ 1	—	—	—	—	—	—	—
Lick		61.9	321	i 10	17a	+ 2	—	—	—	i 10	29	pP	—
Reno		62.2	324	i 10	19a	+ 1	—	—	—	—	—	—	—
Berkeley		62.6	321	i 10	21a	+ 1	—	—	—	i 10	44	pP	—
Mineral		63.8	323	e 10	27a	- 1	—	—	—	—	—	—	—
M'Bour		64.0	69	i 10	27	- 2	—	—	—	—	—	—	—
Shasta		64.5	323	i 10	30	- 2	—	—	—	—	—	—	—
Hungry Horse		65.5	334	i 10	39	0	—	—	—	i 11	1	pP	—
Corvallis		67.4	326	10	53	+ 2	—	—	—	—	—	—	—
Seattle	z.	68.9	329	i 11	3	+ 3	—	—	—	—	—	—	—
Victoria		70.0	329	i 11	7	0	—	—	—	—	—	—	—
Horseshoe Bay		70.5	330	i 11	10	0	—	—	—	—	—	—	—
Resolute Bay		84.0	355	i 12	23a	- 2	—	—	—	—	—	—	e 48.8
Relizane		85.2	53	e 12	39	+ 8	—	—	—	e 12	58	pP	—
Tamanrasset	z.	86.7	66	e 12	38	0	e 16	10	PP	e 12	55	pP	—
Scoresby Sund	z.	87.3	16	i 12	40	- 1	—	—	—	i 13	1	pP	—
Durham		88.9	34	—	—	—	—	—	—	30	28	SS	—
College		89.8	336	i 12	53	0	—	—	—	i 13	14	pP	—
Stuttgart		94.1	42	e 13	12	- 1	—	—	—	—	—	—	—
Jena	z.	95.9	40	e 13	22	+ 1	—	—	—	—	—	—	—
Kimberley	z.	96.2	120	i 13	22a	0	—	—	—	i 13	43	pP	—
Grahamstown	z.	96.5	125	e 13	24a	0	—	—	—	—	—	—	—
Pretoria	z.	99.8	118	i 14	0k	+21	—	—	—	—	—	—	—
Lwiro		105.4	95	e 15	24	?	—	—	—	e 18	12	PP	—
Astrida		106.3	95	e 17	31	?	—	—	—	—	—	—	—
Ksara		114.0	57	e 18	26	[- 6]	e 29	6	PS	e 19	26	PP	—
Tananarive		119.0	117	e 18	45	[+ 3]	—	—	—	e 19	6	pP	—
Rabaul		129.2	257	i 19	4	[+ 3]	—	—	—	e 19	28	pP	—
Matusiro		137.6	316	i 19	19	[+ 2]	—	—	—	19	38	PKP ₁	e 64.9
Quetta		140.3	53	e 19	16	[- 6]	—	—	—	e 19	46	pP	—
Dehra Dun		148.4	44	e 19	42	[+ 6]	—	—	—	—	—	—	—
Poona	z.	150.2	68	i 19	42	[+ 3]	—	—	—	—	—	—	—
Shillong	z.	160.3	31	i 19	53	[+ 1]	—	—	—	—	—	—	—
Lembang		163.8	197	i 20	3k	[+ 7]	i 24	43	PP	20	24	pP	—

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Oct. 30d. 0h. 11m. 3s. Epicentre 66°·48N. 17°·74W.

A = +0·3822, B = -0·1223, C = +0·9160; δ = +9; h = -11;
D = -0·305, E = -0·952; G = +0·872, H = -0·279, K = -0·401.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Akureyri	N.	0·8	190	i 0 16	- 3	i 0 28	- 4	—	—
Reykjavik		2·9	218	i 0 48	- 1	i 1 26	0	i 1 32	S*
Vik		3·1	191	i 0 51	- 1	i 1 35	+ 4	—	—
Scoresby Sund		4·3	341	i 1 4	- 5	e 1 43	-18	—	—
Rathfarnham C.	z.	14·4	151	i 3 10	-17	—	—	—	—
Kiruna		14·7	67	i 3 30	- 2	i 6 11	- 6	i 3 39	PP
Witteveen		18·2	127	e 4 17	0	—	—	—	—
Hamburg	z.	18·7	120	i 4 24 _a	+ 1	—	—	—	—
Jena		21·5	122	e 4 50	- 3	—	—	e 5 14	PP
Strasbourg		22·3	131	e 5 1	0	—	—	—	e 11·4
Stuttgart		22·6	129	e 5 3	0	e 9 17	+10	e 5 36	PP
Besançon		23·0	135	e 5 9	+ 2	—	—	e 5 26	PP
Ebingen		23·0	130	e 5 7	- 1	—	—	—	—
Prague		23·2	119	i 5 9	- 1	e 9 14	- 4	i 5 52	PPP
Clermont-Ferrand		23·6	141	e 5 14	+ 1	—	—	—	—
Warsaw		23·8	108	—	—	e 9 44	+14	e 10 14	SS
Resolute Bay		25·0	322	e 5 29	+ 2	e 9 55	+ 7	—	e 15·0
Triest		26·8	126	e 5 46	+ 2	e 10 32	+13	e 6 29	PP
Seven Falls		33·5	261	e 6 11 _?	-33	—	—	—	e 13·4
Messina		34·1	130	—	—	—	—	14 53	SSS
Shawinigan Falls		34·8	263	e 6 53 _k	- 1	—	—	—	—
Kirkland Lake		36·4	271	e 7 8	0	—	—	—	—
Ottawa		36·9	264	e 7 13	+ 1	—	—	—	—
Palisades		39·8	259	—	—	e 13 54	+12	—	e 18·1
College		44·1	332	i 8 11	- 1	—	—	e 9 56	PP
Tamanrasset	z.	46·1	150	e 8 28	0	e 15 19	+ 4	—	—
Rapid City	E.	48·9	288	i 8 51	+ 1	—	—	e 10 43	PP
Hungry Horse		49·2	299	e 8 51	- 1	—	—	e 10 17	PcP
Eureka		57·6	295	e 9 54	- 1	—	—	—	—
Mineral		58·8	300	e 10 3 _k	0	—	—	—	—
Boulder City		60·3	292	e 10 14	+ 1	—	—	—	—
Quetta	z.	60·6	82	e 10 14	- 1	—	—	—	—
China Lake	z.	61·4	294	e 10 23	+ 2	—	—	—	—
Lick		61·6	298	i 10 24 _k	+ 2	—	—	—	—
Isabella	z.	61·9	295	e 10 33	+ 9	—	—	—	—
Woody	z.	62·0	295	i 10 25	0	—	—	—	—
Tucson		62·1	287	i 10 26	+ 1	—	—	—	—
Dalton	z.	63·0	294	e 10 30	- 1	—	—	—	—
Huancayo	z.	88·8	236	e 12 59	+ 1	—	—	—	—

Oct. 31d. 14h. 3m. 43s. Epicentre 27°·25N. 54°·43E.

A = +0·5179, B = +0·7241, C = +0·4554; δ = -7; h = +3;
D = +0·813, E = -0·582; G = +0·265, H = +0·370, K = -0·890.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Ashkabad		11·2	16	i 2 42 _k	- 2	—	—	—	—
Quetta	z.	11·4	72	e 2 46	- 1	—	—	—	—
Goris		14·0	333	i 3 21	- 1	—	—	—	19·1
Tiflis		16·5	334	i 3 54	0	i 7 0	+ 3	—	—
Stalinabad		16·5	43	i 3 51	- 3	i 6 59	+ 1	—	—
Ksara		17·3	297	i 4 5 _k	+ 1	i 7 22	+ 6	—	—
Jerusalem		17·3	290	i 4 4	- 1	i 7 5	-12	—	—
Safed		17·3	294	i 4 3	- 2	i 7 0	-17	—	—
Lahore		17·9	71	4 7	- 5	—	—	—	—
Tashkent		18·6	37	i 4 18	- 3	i 8 5	+19	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Bombay	18.8	112	i 4 23	- 1	i 7 51	- 1	4 45	PP	9.0
Poona	19.9	112	4 36 _a	0	i 8 22	+ 8	—	—	10.5
New Delhi	20.2	81	i 4 39	0	i 8 15	- 6	5 8	PPP	9.4
Dehra Dun	20.9	76	e 4 48	+ 1	i 8 37	+ 1	5 30	PPP	10.0
Frunse	22.6	41	i 5 3k	- 1	i 9 10	+ 2	—	—	—
Simferopol	24.0	323	i 5 18k	+ 1	i 9 31	- 1	i 7 0	PPP	—
Hyderabad	24.2	109	5 20 _a	0	i 9 44	+ 8	6 5	PP	12.3
Kodaikanal	27.5	124	i 5 56 _a	+ 5	10 41	+10	7 8	PPP	13.5
Athens	27.9	300	i 5 53	- 1	—	—	—	—	—
Madras	28.0	115	i 5 53 _a	- 1	10 40	+ 2	6 43	PP	13.3
Focsani	28.4	318	e 6 9	+11	e 10 40	- 5	e 11 58	SS	—
Bucharest	28.4	314	i 6 6 _a	+ 7	i 11 7	+21	i 9 1	PcP	—
Bokaro	28.5	90	e 5 59	0	e 10 59	+13	—	—	—
Iasi	29.0	320	e 6 3	- 1	e 10 56	+ 2	e 8 53	PcP	—
Chatra	29.1	83	i 6 4	- 1	—	—	—	—	—
Campulung	29.5	315	e 6 12	+ 3	e 10 58	- 5	—	—	—
Sofia	29.6	310	e 5 50	-19	e 11 27	+23	—	—	—
Sverdlovsk	29.9	7	i 6 10	- 2	i 11 6	- 3	i 6 57	PP	—
Moscow	30.9	342	i 6 21k	0	11 20	- 5	7 19	PP	—
Colombo	31.5	125	6 23	- 3	11 38	+ 4	—	—	18.3
Timisoara	32.1	314	e 6 34	+ 2	e 12 6	+22	8 5	PP	—
Belgrade	32.3	312	e 6 32 _a	- 1	e 11 45	- 1	e 7 41	PP	e 19.5
Lwow	32.4	322	i 6 33	- 1	i 11 43	- 5	e 14 7	SSS	—
Szeged	33.0	314	6 44	+ 5	11 54	- 4	8 26	PPP	—
Taranto	33.3	303	6 45	+ 3	11 55	- 8	e 8 25	PPP	—
Shillong	33.5	84	i 6 41 _a	- 2	i 12 6	+ 1	7 42	PP	14.6
Reggio Calabria	34.2	298	e 6 48	- 1	e 12 19	+ 3	—	—	17.3
Skalnate Pleso	34.2	319	i 6 48	- 2	i 12 14	- 2	14 18	SS	e 19.3
Messina	34.3	298	i 6 50k	0	i 12 25	+ 8	i 8 11	PP	—
Hurbanovo	34.9	316	e 7 7	+12	e 12 28	+ 1	e 15 17	SSS	—
Warsaw	35.3	324	i 6 59	0	i 12 31	- 2	18 27	PP	e 18.3
Bratislava	35.7	316	i 7 0	- 2	—	—	i 7 19	?	e 17.2
Pulkovo	36.5	340	7 8	- 1	i 12 44	- 7	8 41	PPP	—
Triest	37.0	311	7 9	- 5	12 55	- 5	i 8 20	PP	19.6
Rome	37.1	304	i 7 13 _a	- 1	i 12 48	-13	i 8 21	PP	—
Yumen	37.4	58	e 7 18	+ 2	—	—	—	—	—
Prague	38.0	318	i 7 21	- 1	e 13 10	- 5	i 8 52	PP	—
Lwiro	38.3	224	7 25	0	—	—	i 9 2	PP	—
Florence	38.4	307	e 7 2	-23	i 12 48	-32	i 8 8	PP	—
Bologna	38.4	308	e 7 28	+ 3	e 13 31	+10	e 8 32	PP	—
Prato	38.5	307	e 7 27	+ 1	13 12	-10	—	—	—
Helsinki	38.6	337	e 7 33	+ 7	e 13 23	0	—	—	—
Cheb	39.3	317	i 7 29	- 3	e 13 27	- 7	i 9 1	PP	—
Cuglieri	39.8	301	—	—	e 13 7	-36	—	—	e 18.8
Changyeh	40.0	61	e 7 41	+ 3	—	—	—	—	—
Jena	40.0	318	i 7 39	0	e 13 40	- 5	e 9 0	PP	e 22.3
Pavia	40.1	309	e 7 40	+ 1	e 13 44	- 2	e 9 23	PP	—
Ravensburg	40.3	313	e 7 40	- 1	e 13 42	- 8	—	—	—
Stuttgart	40.9	314	e 7 42	- 3	e 13 50	- 8	e 9 22	PP	23.3
Ebingen	40.9	313	e 7 43	- 2	e 13 52	- 6	—	—	—
Sining	40.9	65	e 7 49	+ 3	—	—	—	—	—
Oropa	41.0	309	e 7 46	- 1	e 13 48	-12	e 9 43	PPP	—
Upsala	41.2	333	i 7 47k	- 1	i 13 54	- 8	i 9 28	PP	—
Copenhagen	41.4	325	i 7 51k	+ 1	i 14 2	- 4	e 9 27	PP	19.3
Karlsruhe	41.4	314	e 7 49k	- 1	e 13 57	- 9	e 9 23	PP	—
Wuwei	41.6	63	e 7 53	+ 2	—	—	—	—	—
Basle	41.6	312	7 52 _a	0	e 14 3	- 6	—	—	—
Strasbourg	41.7	314	e 7 51	- 2	i 14 9	- 1	i 9 48	PP	—
Hamburg	41.9	321	i 7 56	+ 2	i 14 7	- 6	e 17 17	SS	e 23.3
Neuchatel	41.9	311	e 7 55	+ 1	e 14 6	- 8	—	—	—

Continued on next page.

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1956

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		\circ	\circ	m. s.	s.	m. s.	s.	m. s.	m.	
Apatity		42.3	348	i 7 59 _a	+ 2	i 14 16	- 3	i 9 42	PP	—
Lanchow		42.6	65	e 8 2	+ 2	—	—	—	—	—
Besançon		42.6	311	i 7 58	- 2	e 14 32	+ 9	e 9 52	PP	—
Witteveen		43.5	319	8 9	+ 2	—	—	i 10 44	PPP	—
Sodankyla		43.6	345	i 8 9	+ 1	i 14 31	- 6	i 9 44	PP	—
Algiers Univ.	z.	44.1	296	i 8 11 _a	- 1	e 14 39	- 7	e 9 53	PP	—
De Bilt		44.2	318	i 8 13	0	i 14 43	- 4	i 10 2	PP	e 20.3
Tamanrasset	z.	44.3	276	i 8 14 _a	0	e 14 53	+ 5	e 9 58	PP	—
Clermont-Ferrand		44.4	309	e 8 14	0	e 14 46	- 3	e 9 0	pP	21.8
Yinchuan		44.4	62	e 8 16	+ 1	—	—	—	—	—
Irkutsk		44.6	42	8 16 _?	0	14 49	- 4	10 13	PP	—
Barcelona		44.8	302	e 8 25	+ 7	e 14 47	- 8	—	—	e 28.3
Paris		45.2	313	i 8 18	- 3	e 14 56	- 5	i 9 11	pP	e 26.3
Kiruna		45.4	343	i 8 22	- 1	i 15 4	- 1	i 10 10	PP	—
Relizane		46.2	294	e 8 27	- 2	e 15 10	- 6	e 13 57	PcS	—
Tananarive		46.4	189	i 8 31 _k	+ 1	e 15 23	+ 5	e 10 22	PP	—
Alicante		46.9	298	8 35	+ 1	i 15 22	- 3	10 19	PP	e 22.6
Sian		46.9	68	e 8 41	+ 7	15 22	- 3	—	—	—
Paotow		47.3	59	e 8 39	+ 2	—	—	—	—	—
Kew		47.4	316	i 8 38 _k	0	i 15 28	- 5	i 10 33	PP	e 26.3
Senchow		47.8	66	e 8 48	+ 7	—	—	—	—	—
Yumenkow		48.1	64	e 8 48	+ 5	—	—	—	—	—
Almeria		48.6	296	e 8 44	- 3	e 15 43	- 6	10 32	PP	23.8
Durham		48.7	320	i 8 47	- 2	15 46	- 5	10 36	PP	—
Linfen		48.8	65	e 8 50	+ 1	—	—	—	—	—
Granada		49.4	297	i 8 54 _a	0	i 15 53	- 8	10 28	PP	i 26.0
Taiyuan		49.5	62	e 8 54	0	—	—	—	—	—
Aberdeen		49.5	323	i 8 56	+ 1	i 15 55	- 7	i 10 51	PP	—
Toledo		49.5	300	i 8 53	- 2	16 29	+ 27	i 10 40	PP	26.4
Malaga		50.1	296	i 9 0 _k	+ 1	i 15 48	- 22	10 32	PcP	23.6
Rathfarnham Castle		51.3	318	i 9 9 _k	+ 1	e 16 44	+ 18	e 11 17	PP	e 29.8
Kwanting		51.6	59	e 9 9	- 1	—	—	—	—	—
Peking		52.0	59	9 13 _a	- 1	16 33	- 4	11 14	PP	—
Canton		53.0	81	9 21 _a	0	16 48	- 2	20 27	SS	—
Lisbon		53.6	300	e 9 14	- 11	16 41	- 17	9 24	pP	31.0
Hong Kong		54.0	81	e 9 27	- 2	i 17 6	+ 2	—	—	—
Nanking		55.4	68	e 9 37	- 2	17 17	- 6	—	—	—
Dairen		56.4	60	e 9 46	0	—	—	—	—	—
Z6-S6		57.6	69	9 51 _a	- 3	17 45	- 7	10 40	PcP	—
Changchun		58.3	54	e 9 58	- 1	17 59	- 2	—	—	—
Pretoria	z.	58.4	208	9 59 _k	- 1	—	—	—	—	—
Reykjavik		59.9	330	i 10 12 _a	+ 2	—	—	—	—	—
Hwalien		60.0	77	10 13	+ 2	18 25	+ 2	—	—	—
Scoresby Sund		60.0	338	i 10 11	0	i 18 24	+ 1	e 13 54	PPP	28.3
Hsinkong		60.1	78	10 23	+ 11	18 30	+ 6	—	—	—
Djakarta		60.6	115	10 10 _a	- 5	e 18 28	- 2	e 12 25	PP	—
Pietermaritzburg	z.	61.0	204	i 10 18 _a	0	—	—	—	—	—
Lembang		61.6	115	e 10 23 _a	+ 1	e 18 47	+ 4	i 12 37	PP	—
Bandung		61.6	115	e 10 22	0	e 18 42	- 2	—	—	—
Baguio City		61.8	85	e 10 23	0	e 18 47	+ 2	—	—	—
Kimberley	z.	62.5	209	i 10 27 _k	- 1	—	—	—	—	—
Manila		62.8	87	e 10 35	+ 5	i 19 5	+ 6	—	—	—
Vladivostok		63.2	53	i 10 31	- 1	i 18 59	- 4	—	—	—
Grahamstown	z.	65.8	205	i 10 47 _a	- 2	—	—	—	—	—
M'Bour		67.2	275	i 10 56	- 2	e 19 51	- 2	e 13 35	PP	—
Kyoto		68.2	61	11 2	- 3	20 0	- 5	—	—	—
Yuzno-Sakhlinsk		69.5	47	e 11 10	- 3	e 20 13	- 7	—	—	—
Matusiro		69.7	59	i 11 14	0	i 20 15	- 7	24 46	SS	32.4
Hermanus		69.8	210	e 13 54	PP	i 20 23	- 1	e 21 18	ScS	—
Magadan		70.0	33	e 11 13	- 3	i 20 21	- 5	—	—	—

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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	Δ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.	
Resolute Bay	76.4	352	e 11	50 _a	- 3	i 21	31	- 7	e 14	35	PP	—
Petropavlovsk	76.6	37	i 11	51	- 3	i 21	33	- 8	14	50	PP	—
Perth	83.0	131	i 12	29	0	i 22	46	- 1	15	50	PP	e 40.4
Schefferville	84.0	330	e 12	36 _a	+ 2	—	—	—	i 13	36	?	—
College	86.6	9	e 12	44 _a	- 3	i 23	8	[- 3]	i 16	15	PP	i 46.1
Halifax	88.8	321	e 13	3	+ 5	23	26	[+ 1]	16	37	PP	—
Seven Falls	91.0	326	e 12	30 _{7k}	-38	22	59 ₇	[-40]	16	10 ₇	PP	—
Shawinigan Falls	92.2	327	e 13	12 _k	- 2	—	—	—	—	—	—	—
Brébeuf	93.6	326	i 13	25 _a	+ 6	—	—	—	—	—	—	—
Kirkland Lake	94.6	331	e 13	25	+ 1	—	—	—	—	—	—	—
Ottawa	94.7	327	e 13	23 _k	- 1	23	55	[- 4]	17	26	PP	—
Palisades	96.9	323	e 13	31	- 4	i 24	9	[- 2]	e 24	56	S	e 46.6
Fordham	97.0	323	—	—	—	e 24	10	[- 2]	21	38	SS	—
Bermuda Navy	97.1	312	—	—	—	24	11	[- 1]	i 25	17	S	e 53.2
Mirny	98.0	165	e 13	38	- 2	e 24	12	[- 5]	e 25	0	S	—
Rabaul	98.8	90	e 13	49	+ 6	—	—	—	e 17	46	PP	—
Saskatoon	99.2	348	—	—	—	e 24	18	[- 5]	—	—	—	—
Cleveland	100.4	328	—	—	—	e 24	28	[- 1]	—	—	—	—
Morgantown	101.0	326	17	24	?	—	—	—	18	6	PP	—
Hungry Horse	104.0	352	e 14	13	+ 6	e 24	51	[+ 5]	e 18	26	PP	—
Victoria	104.6	358	—	—	—	—	—	—	24	48	?	—
Fort de France	104.9	295	—	—	—	e 24	51	[+ 1]	—	—	—	—
Columbia	105.9	323	e 18	42	PP	e 24	53	[- 2]	i 25	41	S	e 45.6
Rapid City	106.1	343	e 14	27	+12	—	—	—	e 17	35	PKP	e 49.4
Bozeman	106.2	349	—	—	—	e 24	55	[- 1]	—	—	—	e 45.9
Florissant	106.5	332	e 18	49	PP	e 24	54	[- 3]	i 27	58	PS	—
Melbourne	106.6	124	e 18	31	PP	e 25	0	[+ 2]	e 28	34	PPS	e 44.0
St. Louis I	106.6	332	18	5	PP	24	57	[- 1]	i 26	17	S	—
San Juan	106.7	301	e 18	43 _a	PP	—	—	—	—	—	—	—
Brisbane	109.1	112	13	41	P	—	—	—	13	55	?	—
Riverview	109.8	118	i 18	43	[+10]	25	14	[+ 3]	i 19	4	PP	e 47.8
Fayetteville	110.4	333	e 18	29	[- 5]	—	—	—	—	—	—	—
Eureka	113.0	352	i 15	10	?	—	—	—	i 18	0	?	—
Berkeley	115.2	357	—	—	—	—	—	—	e 29	23	PS	—
Lick	115.6	356	e 18	52	[+ 7]	e 30	28	PPS	e 20	19	?	—
Boulder City	116.3	350	e 19	1 _a	[+15]	—	—	—	—	—	—	—
China Lake	z. 116.8	353	e 18	49	[+ 2]	—	—	—	—	—	—	—
Woody	z. 117.1	354	e 18	53	[+ 6]	i 20	42	PP	e 29	14	PKKP	—
Isabella	z. 117.1	354	e 19	1	[+14]	e 19	51	PP	e 29	15	PKKP	—
King Ranch	z. 117.5	355	e 18	47	[- 1]	e 19	47	PP	e 29	18	PKKP	—
Pasadena	118.5	353	e 18	58	[+ 8]	i 27	11	{+ 7}	e 20	5	PP	e 55.8
Riverside	z. 118.6	352	e 18	48	[- 2]	i 29	46	PS	e 29	17	P'P'	—
Hayfield	N. 118.6	351	e 18	58	[+ 8]	—	—	—	—	—	—	—
Palomar	z. 119.2	352	e 18	56	[+ 5]	—	—	—	e 28	58	PKKP	—
Tucson	119.2	346	e 18	58	[+ 7]	e 20	8	PP	e 29	7	PKKP	—
Barratt	z. 119.8	351	e 18	53	[0]	—	—	—	—	—	—	—
Bogota	121.1	294	e 19	14	[+19]	i 25	58	[+ 4]	—	—	—	57.3
Chinchina	122.1	296	i 18	58	[+ 1]	i 27	29	{+ 1}	i 37	8	SS	58.3
Vera Cruz	125.7	325	—	—	—	33	1	PPS	37	39	SS	—
Comitan	125.9	319	e 23	29	PPP	—	—	—	—	—	—	—
La Paz	126.0	269	e 19	9	[+ 5]	30	56	PS	i 20	56	PP	59.8
Tacubaya	127.0	328	e 19	21	[+15]	20	50	PP	e 23	27	PPP	—
Huancayo	130.6	278	i 19	17	[+ 3]	i 22	40	PKS	e 33	3	PPS	—
Santa Lucia	132.7	248	19	18	[+ 1]	—	—	—	21	49	PP	—

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Oct. 31d. 14h. 22m. 23s. Epicentre 27°·30N. 54°·6E.

A = +0·5155, B = +0·7254, C = +0·4562; $\delta = +6$; $h = +3$;
D = +0·815, E = -0·579; G = +0·264, H = +0·372, K = -0·890.

		Δ		P.		O-C.	S.		O-C.	Supp.		L.
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Quetta	z.	11·2	72	e 2	46	+ 2	—	—	—	—	—	—
Lahore		17·7	71	4	8	- 2	—	—	—	—	—	—
Poona	z.	19·8	112	e 4	35	+ 1	—	—	—	—	—	—
Bucharest		28·5	314	e 6	47	+48	—	—	—	—	—	—
Iasi		29·0	320	e 6	6	+ 2	e 11	14	+19	—	—	—
Reggio Calabria		34·3	298	e 7	13	+23	12	13	- 4	—	—	—
Messina	z.	34·4	298	e 7	0	+10	—	—	—	e 8	11	PP
Bratislava		35·7	316	i 7	2	0	—	—	—	—	—	—
Triest		37·1	310	i 7	8	- 6	i 12	56	- 5	i 7	45	?
Prague		38·1	318	i 7	26	+ 4	e 13	15	0	i 9	41	PcP
Astrida		38·2	223	e 7	22	- 1	—	—	—	—	—	—
Lwiro		38·5	224	e 7	29	+ 4	—	—	—	—	—	—
Jena		40·1	318	e 7	40	+ 1	—	—	—	8	12	?
Stuttgart		40·9	314	e 7	44	- 1	—	—	—	—	—	—
Ebingen		40·9	313	7	46	+ 1	—	—	—	—	—	—
Upsala		41·2	332	i 7	46	- 1	i 13	59	- 3	i 9	42	PP
Copenhagen	z.	41·4	325	i 7	49k	- 1	—	—	—	—	—	—
Basle		41·7	312	e 7	50	- 2	e 13	59	-10	—	—	—
Strasbourg		41·8	313	e 7	51	- 2	—	—	—	i 10	2	PPP
Hamburg	z.	41·9	321	i 7	56	+ 2	—	—	—	—	—	—
Neuchatel		42·0	311	e 7	53	- 1	e 14	8	- 6	—	—	—
Besançon		42·7	311	e 7	58	- 2	—	—	—	e 9	44	PP
Sodankyla		43·6	345	i 8	8	+ 1	—	—	—	i 9	46	PP
Algiers Univ.	z.	44·2	296	e 8	11	- 2	e 14	41	- 6	e 9	54	PP
Clermont-Ferrand		44·5	309	e 8	16	+ 2	—	—	—	—	—	—
Tamanrasset	z.	44·5	276	e 8	14	0	—	—	—	e 10	5	PP
Kiruna		45·4	343	8	20 _a	- 2	—	—	—	—	—	—
Relizane		46·3	294	e 8	28	- 1	—	—	—	—	—	—
Tananarive		46·4	189	i 8	30k	0	15	24	+ 6	e 10	20	PP
Alicante		47·0	298	8	36	+ 2	e 15	32	+ 6	10	28	PP e 23·0
Kew		47·5	316	i 8	36	- 2	—	—	—	i 8	56	?
Almeria		48·7	296	—	—	—	—	—	—	19	1	SS
Granada		49·5	297	i 9	1k	+ 7	e 16	13	+11	10	32	PP
Malaga		50·2	296	i 8	58	- 1	—	—	—	—	—	—
Rathfarnham C.	z.	51·3	318	i 9	7	- 1	—	—	—	—	—	—
Lisbon		53·7	300	9	17	- 8	—	—	—	9	25	pP
Hong Kong	z.	53·9	81	e 9	29	+ 2	—	—	—	—	—	—
Nanking		55·3	68	e 9	38	+ 1	—	—	—	—	—	—
Zé-Sè		57·5	69	e 9	54	+ 1	e 17	51	+ 2	—	—	—
Changchun		58·2	54	e 9	58	0	18	0	+ 2	—	—	—
Pretoria	z.	58·6	208	i 9	58k	- 2	—	—	—	—	—	—
Scoresby Sund	z.	60·0	338	e 10	8	- 3	—	—	—	—	—	—
Pietermaritzburg	z.	61·2	204	i 10	17k	- 1	—	—	—	—	—	—
Lembang		61·5	116	i 10	8 _a	-12	e 20	7	+86	—	—	—
Baguio City		61·6	85	i 10	25	+ 4	i 18	48	+ 5	—	—	—
Kimberley	z.	62·6	209	i 10	30	+ 2	—	—	—	—	—	—
Grahamstown	z.	65·9	206	i 10	45	- 5	—	—	—	—	—	—
M'Bour		67·3	275	i 11	6	+ 7	—	—	—	—	—	—
Matusiro	z.	69·5	59	11	11	- 1	—	—	—	—	—	—
Resolute Bay		76·4	352	e 11	50	- 2	e 21	40	+ 3	e 27	57	SS
College		86·5	9	i 12	45	- 1	—	—	—	—	—	—
Seven Falls		91·1	326	e 12	31 _f	-36	—	—	—	—	—	—
Shawinigan Falls		92·4	327	e 13	12	- 2	—	—	—	—	—	—
Kirkland Lake		94·6	331	e 13	22	- 2	—	—	—	—	—	—
Ottawa		94·7	327	e 13	24	0	—	—	—	—	—	—
Hungry Horse		104·0	352	e 14	11	+ 5	e 19	12	PP	e 18	7	PKP
Rapid City	E.	106·1	344	e 19	8	PP	—	—	—	—	—	—
Fayetteville		110·4	333	e 19	2	PP	—	—	—	—	—	—
Eureka		113·0	352	e 18	38	[- 1]	—	—	—	—	—	—
Tucson		119·2	346	e 18	50	[- 1]	—	—	—	e 20	20	PP
La Paz		126·2	269	i 19	2	[- 3]	—	—	—	38	16	SS
Huancayo	z.	130·8	278	i 19	16	[+ 3]	—	—	—	i 22	39	PP
Santa Lucia		132·8	249	19	19	[+ 2]	—	—	—	—	—	—

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Nov. 2d. 16h. 4m. 33s. Epicentre 39°·32N. 23·09E.

A = +0·7135, B = +0·3042, C = +0·6311; $\delta = -9$; $h = -1$;
D = +0·392, E = -0·920; G = +0·580, H = +0·248, K = -0·776.

	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Athens	1·4	160	e 0	29 _k	+ 2	i 0	48	+ 1	i 0	51	S _g	—
Sofia	3·4	3	0	54	- 1	1	37	0	1	54	S _g	—
Taranto	4·6	286	1	10	- 3	1	59	- 9	e 1	40	P _g	—
Bucharest	5·6	23	1	30	+ 4	2	24	- 7	e 1	49	P _g	—
Belgrade	5·8	341	e 1	30 _a	0	2	34	- 4	e 1	52	P _g	—
Reggio Calabria	6·0	260	i 1	32	+ 1	2	41	0	i 3	20	S _g	—
Messina	6·0	262	e 1	33	+ 1	i 2	41	- 1	i 1	48	P*	3·4
Campulung	6·1	13	1	33	- 1	2	34	-11	3	8	S _g	—
Timisoara	6·6	348	e 2	2	+22	e 3	37	+40	e 3	55	S _g	—
Focsani	7·1	24	e 1	59	+12	3	15	+ 6	3	36	S*	—
Szeged	7·3	344	1	46	- 4	3	2	-12	2	2	P*	—
Bacau	7·8	20	1	57	0	3	21	- 5	4	10	S _g	—
Rome	8·5	291	—	—	—	e 4	9	+25	—	—	—	—
Iasi	8·5	21	2	5	- 2	3	41	- 4	4	53	S _g	—
Ksihinev	8·8	27	2	9	- 2	—	—	—	—	—	—	—
Hurbanovo	9·2	339	e 2	34	+17	e 4	1	- 2	5	11	S _g	—
Triest	9·4	316	e 2	11	- 8	3	53	-13	e 2	59	P _g	5·5
Bratislava	9·8	336	2	25	- 1	4	18	0	—	—	—	e 5·2
Florence X.	9·9	300	e 2	55	+28	e 4	1	-19	—	—	—	—
Simferopol	9·9	52	e 2	23	- 4	e 4	9	-11	—	—	—	—
Prato	10·1	301	e 2	45	+16	e 4	58	+34	—	—	—	—
Bologna	10·2	304	e 2	32	+ 2	e 4	41	+14	e 2	46	PP	—
Lwow	10·5	3	i 2	35	0	—	—	—	—	—	—	—
Krakow	11·0	349	e 2	40	- 1	—	—	—	e 2	47	PP	—
Raciborz	11·3	344	2	47	+ 1	—	—	—	—	—	—	—
Ksara	11·6	114	2	55	+ 5	5	23	+21	—	—	—	8·4
Pavia	11·9	304	—	—	—	e 4	25	-42	—	—	—	—
Safed	11·9	118	i 2	55	+ 2	—	—	—	—	—	—	—
Prague	12·4	333	i 2	57	- 3	5	13	- 7	—	—	—	6·2
Jerusalem	12·4	124	i 2	59 _a	- 2	e 5	45	+24	—	—	—	—
Oropa	12·8	304	3	45	+39	—	—	—	—	—	—	e 6·0
Ravensburg	13·0	316	3	5	- 3	—	—	—	—	—	—	—
Warsaw	13·0	354	e 3	14	+ 6	e 5	53	+18	5	59	SS	7·4
Cheb	13·2	328	i 3	13	+ 2	5	39	0	—	—	—	—
Ebingen	13·5	316	e 3	11	- 4	e 5	56	+ 9	3	25	PP	7·5
Stuttgart	13·7	318	e 3	15	- 3	e 6	8	+16	3	28	PP	7·8
Tubingen	13·7	318	e 3	14	- 4	e 5	57	+ 5	—	—	—	e 7·8
Basle	13·9	311	e 3	27	+ 6	e 6	22	+25	—	—	—	e 7·8
Neuchatel	14·0	308	i 3	29	+ 7	e 6	7	+ 7	—	—	—	e 7·7
Jena	14·2	329	3	13 _?	-11	e 6	17	+15	e 3	31	PP	e 8·1
Karlsruhe	14·3	317	—	—	—	—	—	—	3	35	PP	e 6·8
Strasbourg	14·4	315	e 3	35	+ 8	e 6	7	- 1	3	47	PP	—
Besançon	14·8	308	i 3	29	- 2	—	—	—	e 5	48	?	e 7·2
Algiers Univ.	16·0	267	e 3	49	+ 1	e 6	49	+ 3	—	—	—	—
Clermont-Ferrand	16·0	300	e 3	53	+ 5	—	—	—	—	—	—	—
Tiflis	16·7	75	e 4	0	+ 4	—	—	—	—	—	—	—
Hamburg	16·8	332	i 4	0 _a	+ 2	—	—	—	—	—	—	e 9·4
Paris	17·5	310	i 4	6	- 1	e 7	22	+ 1	e 4	21	PP	e 8·4
Copenhagen	17·8	340	4	13 _a	+ 2	7	36	+ 8	—	—	—	9·0
De Bilt	17·8	322	e 4	57	PPP	—	—	—	—	—	—	e 9·4
Relizane	18·2	266	e 4	17	+ 1	—	—	—	e 4	37	PP	—
Alicante	18·4	274	4	10	- 8	7	29	-12	4	27	PP	e 8·8
Makhach-Kala	18·7	71	e 4	23	+ 1	e 7	46	- 2	—	—	—	—
Moscow	19·1	26	4	23	- 3	—	—	—	—	—	—	—
Kew	20·3	314	i 4	42	+ 2	e 8	34	+10	e 5	13	PP	e 10·4
Jersey	20·5	307	e 4	37	- 5	—	—	—	—	—	—	—
Upsala	20·8	352	4	43 _k	- 2	i 8	39	+ 5	—	—	—	—
Toledo	20·9	280	e 4	44	- 2	8	29	- 6	—	—	—	—
Granada	21·0	273	i 4	47 _k	- 1	8	59	+21	5	32	PP	—
Malaga	21·8	272	i 4	57 _a	+ 2	i 8	47	- 5	—	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Tamanrasset	22.3	227	i 4 59k	- 1	e 9 2	+ 1	e 12 47	PcS	e 11.0
Durham	22.7	321	4 50	-14	—	—	—	—	—
Aberdeen	24.3	326	—	—	9 35	- 1	10 35	SS	—
Rathfarnham C. z.	24.4	315	i 5 22	+ 1	—	—	i 5 37	PP	12.4
Lisbon	25.0	279	e 5 25	- 1	—	—	e 5 57	PP	13.4
Sodankyla	28.2	3	i 5 56	0	—	—	i 6 32	PP	—
Kiruna	28.6	358	i 5 58	- 2	—	—	i 6 36	PP	—
Sverdlovsk	30.1	42	5 14	-59	—	—	—	—	—
Namangan	36.8	71	7 12	+ 1	—	—	—	—	—
Quetta	36.9	91	7 11k	- 1	13 2	+ 4	—	—	e 14.8
Frunse	38.5	68	7 26	+ 1	—	—	—	—	—
Scoresby Sund z.	38.9	338	i 7 28	0	—	—	—	—	—
Lwiro	41.7	171	e 7 51	- 1	—	—	—	—	—
Lahore	42.0	84	7 53	- 1	—	—	—	—	—
M'Bour	43.0	246	i 8 2	- 1	—	—	—	—	—
Chatra z.	54.1	83	i 9 27	- 2	—	—	—	—	—
Shillong z.	58.4	81	i 9 56	- 3	—	—	—	—	—
Schefferville	58.9	318	i 10 5k	+ 2	—	—	—	—	—
Resolute Bay	59.2	344	i 10 3a	- 2	—	—	—	—	—
Halifax	61.7	306	10 19k	- 3	—	—	—	—	—
Pretoria z.	64.9	175	i 10 43a	0	—	—	—	—	—
Kimberley z.	67.7	178	i 11 1a	0	—	—	—	—	—
Kirkland Lake z.	69.5	316	e 11 9	- 3	—	—	—	—	—
College	75.9	356	i 11 47	- 3	—	—	—	—	—
San Juan	78.0	284	i 12 0	- 2	—	—	—	—	—
Matusiro	83.7	47	i 12 31a	- 1	—	—	—	—	e 46.2
Hungry Horse	84.8	333	i 12 36	- 1	—	—	—	—	—
Butte N.	86.2	331	12 46	+ 2	—	—	—	—	—
Boulder	88.0	323	e 12 51	- 2	—	—	—	—	—
Eureka	93.1	329	e 13 17	0	—	—	—	—	—
Boulder City	95.6	327	e 13 31	+ 3	—	—	—	—	—
Tucson	96.9	322	e 13 39	+ 5	—	—	—	—	—
Melbourne z.	135.2	107	19 23	[+ 1]	—	—	—	—	—

Nov. 3d. 18h. 2m. 8s. Epicentre 24°·20S. 179°·98E. Depth of focus = 0.073R.

A = -0.9132, B = 0.0000, C = -0.4076; $\delta = +7$; $h = +4$;
D = 0.000, E = +1.000; G = +0.408, H = 0.000, K = -0.913.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Suva N.	6.2	346	e 1 38	- 1	i 3 3	+ 6	—	—
Nouméa	12.6	276	i 2 47	+ 2	i 5 15	+16	i 7 20	PcP
Apia	13.0	38	e 2 48	- 1	5 7	+ 1	—	—
Karapiro N.	14.2	194	e 3 5	+ 3	5 36	+ 7	—	—
Fuai N.	14.8	189	3 11	+ 3	5 37	- 3	—	—
Tongariro z.	15.4	193	e 3 14	- 1	5 54	+ 2	—	—
New Plymouth E.	15.6	197	—	—	e 6 3	+ 7	—	—
Wellington	17.6	193	i 3 34a	- 2	e 6 25	- 6	i 14 15	ScS
Jobb River E.	17.9	198	3 38	- 1	6 37	+ 1	—	—
Kaimata N.E.	19.6	199	e 3 55	0	e 6 57	- 8	—	—
Christchurch	20.2	196	—	—	e 7 9	- 7	e 14 25	ScS
Brisbane	24.4	256	i 4 40	0	7 1	-84	—	—
Riverview	26.9	242	i 5 1k	- 1	i 9 4	+ 1	i 6 24	pP
Melbourne	32.7	237	5 51	- 1	i 10 32	- 2	e 8 13	PcP
Rabaul	33.4	302	5 55	- 2	e 10 26	-17	8 24	PcP
Perth	56.4	247	i 8 55	0	i 16 17	+10	i 11 30	sP
Taguio City	70.6	299	10 27	- 1	—	—	10 35	?
Matusiro	72.1	326	10 34k	- 1	19 19	+ 2	22 17	SS
Lo-Sè	78.7	312	i 11 10k	- 1	20 25	- 2	—	—
Hong Kong	78.9	301	e 11 12	0	—	—	—	—

Continued on next page.

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1956

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Canton		80.0	301	i 11 18k	0	e 20 44	+ 4	13 7	pP	—
Nanking		80.9	311	e 11 23	+ 1	e 20 52	+ 3	—	—	—
Berkeley		82.2	42	e 11 31	+ 2	—	—	—	—	—
Lick		82.2	43	i 11 30a	+ 1	—	—	e 13 23	pP	—
Pasadena	z.	82.6	48	i 11 32	+ 1	—	—	—	—	—
Barratt	z.	82.7	50	e 11 33	+ 1	—	—	—	—	—
Palomar	z.	83.0	49	i 11 33a	0	—	—	—	—	—
Woody	z.	83.0	46	i 11 33a	0	—	—	i 13 24	pP	—
Fresno		83.0	45	e 11 35a	+ 2	—	—	13 27	pP	—
Isabella	z.	83.2	46	i 11 34a	0	—	—	i 13 25	pP	—
China Lake	z.	83.9	46	i 11 37a	- 1	—	—	e 13 26	pP	—
Hayfield	N.	84.0	49	i 11 41	+ 3	—	—	—	—	—
Mineral		84.1	41	e 11 38a	- 1	—	—	e 13 29	pP	—
Boulder City		85.8	48	i 11 47	0	—	—	—	—	—
Tucson		86.6	52	i 11 52	+ 1	—	—	e 13 42	pP	—
Eureka		87.1	44	i 11 53	0	—	—	13 46	pP	—
Peking		87.2	316	11 54k	0	—	—	—	—	—
Hungry Horse		93.2	38	e 14 17	PP	—	—	—	—	—
Boulder		94.4	48	e 12 26	- 1	—	—	—	—	—
La Paz		102.2	114	e 12 55	- 7	i 22 55	[+ 7]	i 27 32	PPS	—
Quetta		120.9	292	e 17 56	[+ 1]	e 24 10	[+ 3]	e 35 28	SS	—
Kimberley	z.	122.2	206	17 49a	[- 9]	—	—	—	—	—
Sodankyla		133.8	346	—	—	—	—	i 21 3	SKP	—
Kiruna		134.6	349	e 18 4	[-17]	—	—	i 21 4	SKP	—
Astrida		140.7	231	e 18 28a	[- 5]	—	—	—	—	—
Lwiro		141.6	231	e 18 31a	[- 4]	—	—	—	—	—
Upsala		142.3	345	i 18 30	[- 6]	—	—	—	—	—
Copenhagen	z.	147.2	347	i 18 47	[+ 3]	—	—	—	—	—
Ksara		147.3	295	i 18 47	[+ 3]	—	—	20 48	pPKP	—
Jerusalem		148.1	292	i 18 49	[+ 4]	—	—	—	—	—
Hamburg	z.	149.7	348	18 53a	[+ 6]	—	—	20 50	pPKP	—
Witteveen	z.	151.0	352	i 18 56	[+ 7]	—	—	—	—	—
Prague		151.8	340	i 18 58	[+ 8]	e 25 43	PPP	21 48	sPKP	—
Jena	z.	151.8	344	e 18 49	[- 1]	—	—	e 20 56	pPKP	—
Bratislava		152.5	335	i 18 52	[+ 1]	i 19 13	PKP ₂	i 20 58	pPKP	—
Stuttgart		154.4	346	e 18 53	[- 3]	e 19 19	PKP ₂	e 21 0	pPKP	—
Strasbourg		154.9	348	e 19 0	[+ 5]	—	—	—	—	—
Ebingen		155.0	346	e 19 3	[+ 6]	—	—	e 19 23	PKP ₂	—
Florence X.	z.	158.4	337	e 18 58	[- 1]	—	—	e 19 38	PKP ₂	—
M'Bour		161.3	118	i 19 50	[+48]	—	—	20 27	PKP ₂	—
Tamanrasset		174.7	256	i 19 12k	[+ 1]	e 24 42	PP	21 16	pPKP	—

Nov. 4d. 5h. 37m. 16s. Epicentre 35°·50N. 140°·23E. Depth of focus = 0.005R.

$\Delta = -0.6271$, $B = +0.5220$, $C = +0.5781$; $\delta = -6$; $h = 0$;
 $D = +0.640$, $E = +0.769$; $G = -0.444$, $H = +0.370$, $K = -0.816$.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Kashiwa		0.4	329	i 0 11	- 3	0 21	- 2	—	—	—
Tokyo, C.M.O.		0.4	295	i 0 13k	- 1	0 23	- 1	e 0 18	?	—
Yokohama		0.5	262	i 0 14k	0	i 0 24	- 1	—	—	—
Tyosi	E.	0.6	66	0 15a	0	0 26	0	—	—	—
Mera	z.	0.7	210	i 0 16k	0	0 26	- 2	—	—	—
Kakioka	z.	0.7	357	i 0 15	- 2	0 25	- 4	—	—	—
Mito		0.9	12	0 18a	0	0 26	- 6	—	—	—
Kumagaya		1.0	313	i 0 19k	0	0 34	+ 1	—	—	—
Osima		1.0	224	i 0 19k	0	i 0 30	- 4	i 0 23	?	—
Ajiro		1.0	244	0 20k	0	i 0 32	- 2	—	—	—
Titibu		1.0	297	i 0 21k	+ 1	i 0 34	- 1	—	—	—
Utunomiya		1.1	345	i 0 19	- 1	i 0 30	- 6	—	—	—
Misima		1.1	250	i 0 21k	0	i 0 33	- 3	—	—	—
Hunatu		1.2	270	i 0 21k	- 1	i 0 35	- 3	—	—	—
Maebasi		1.3	314	i 0 22k	- 1	e 0 39	- 1	—	—	—

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Kohu		1.4	276	i 0 24k	0	i 0 41	- 1	—	—
Onahama		1.5	20	i 0 29a	+ 2	i 0 45	- 1	—	—
Shizuoka		1.6	251	i 0 25a	- 2	i 0 45	- 2	—	—
Oiwake		1.6	302	i 0 27k	0	0 46	- 1	—	—
Shirakawa		1.6	0	i 0 26	- 1	i 0 44	- 4	—	—
Omaesaki		1.9	242	i 0 31k	0	i 0 52	- 2	—	—
Matusiro		1.9	303	i 0 31k	- 1	0 52	- 3	—	—
Iida		2.0	271	i 0 32k	0	i 0 56	0	—	—
Matumoto	E.	2.0	293	i 0 33k	+ 1	i 0 56	0	i 0 43	?
Nagano		2.0	306	i 0 32k	- 1	e 0 57	0	—	—
Hamamatu		2.2	250	i 0 39	+ 4	i 1 3	+ 1	—	—
Hokusima		2.2	5	0 36a	0	1 2	- 1	—	—
Takada		2.3	316	0 36k	0	1 1	- 2	—	—
Takayama	N.	2.5	286	e 0 39	- 1	1 8	- 1	—	—
Niigata		2.6	339	e 0 43	+ 2	e 1 23	+11	—	—
Nagoya		2.7	264	e 0 43	+ 1	1 18	+ 4	—	—
Toyama		2.7	297	e 0 44	+ 1	1 14	- 1	i 2 21	?
Yamagata		2.7	2	i 0 44	+ 1	i 1 14	- 1	—	—
Sendai		2.8	11	e 0 43	- 1	e 1 16	- 1	e 0 57	?
Gihu		2.8	269	i 0 45k	+ 1	i 1 17	0	—	—
Alkawa		3.0	328	i 0 44k	- 2	1 17	- 4	—	—
Isinomaki		3.0	16	0 48	+ 1	1 20	- 3	e 1 3	?
Kanazawa		3.1	290	e 0 50	+ 2	e 1 36	+12	—	—
Tu		3.1	257	0 47	- 2	e 1 21	- 4	—	—
Ibukisan	E.	3.1	269	i 0 48	- 1	e 1 26	+ 1	—	—
Kameyama		3.2	259	i 0 49	0	1 25	- 1	e 1 7	?
Hikone		3.3	267	0 51k	+ 1	e 1 27	- 1	—	—
Hukui		3.3	281	e 0 52	+ 2	e 1 32	+ 4	—	—
Wazima		3.3	306	e 0 46	- 5	—	—	—	—
Tsuruga		3.4	274	i 0 55	+ 3	1 36	+ 4	—	—
Sakata		3.4	355	i 0 56	+ 4	e 1 37	+ 5	—	—
Owase		3.6	248	0 56	+ 1	1 50	+13	—	—
Mizusawa		3.7	11	0 56	+ 0	e 1 35	- 4	—	—
Nara		3.7	258	e 1 0	+ 4	e 1 50	+11	—	—
Kyoto		3.7	264	e 0 58	+ 1	e 1 46	+ 6	—	—
Maizuru		3.9	271	e 1 0	+ 1	e 1 57	+13	—	—
Osaka		4.0	259	e 1 1	+ 1	e 1 59	+14	e 1 24	?
Akita		4.2	359	e 1 6	+ 2	e 2 3	+11	e 1 51	?
Siomisaki		4.2	242	e 1 1	- 3	e 1 59	+ 7	i 1 43	?
Kobe		4.2	260	e 1 6	+ 2	i 2 4	+12	—	—
Morioka		4.3	10	e 1 2k	- 2	e 1 48	- 5	—	—
Wakayama		4.4	254	e 1 5	- 1	e 1 51	- 5	—	—
Miyako		4.4	18	e 1 4	- 2	1 50	- 6	—	—
Toyooka		4.4	272	e 1 14	+ 8	e 2 7	+10	—	—
Sumoto		4.5	257	i 1 8k	0	i 1 59	- 1	—	—
Tokusima		4.9	254	e 1 12	- 1	e 2 9	+ 1	—	—
Himeji		4.9	260	e 1 8	- 5	e 2 14	+ 5	—	—
Tottori	N.	4.9	272	e 1 36	+23	2 36	+27	—	—
Torisima		5.0	179	e 1 17	+ 2	e 2 17	+ 5	—	—
Hatinohe		5.1	11	e 1 14k	- 2	i 2 11	- 4	—	—
Takamatu		5.2	259	e 1 18	0	i 2 38	+21	—	—
Okayama		5.2	263	e 1 16	- 2	i 2 39	+21	—	—
Tsurugiyama		5.3	254	e 1 15	- 4	2 36	+16	—	—
Aomori		5.3	4	e 1 18	- 1	e 2 22	+ 2	e 2 41	?
Muroto		5.5	248	1 22	+ 1	1 53	-31	—	—
Yonago		5.6	271	1 28	+ 5	2 56	+29	—	—
Saigo		5.6	279	e 1 19	- 5	2 45	+17	3 3	?
Matsue		5.8	272	e 1 30	+ 4	e 2 48	+15	i 3 2	?
Koti		5.9	252	e 1 26	0	e 2 33	0	—	—
Hakodate	N.	6.3	3	e 1 36	+ 4	e 2 40	- 4	i 1 46	?
Hirosima		6.5	262	e 1 35a	0	e 2 54	+ 5	—	—
Mori		6.6	2	1 40	+ 3	3 8	+17	e 2 21	?
Simidu		6.6	248	e 1 33	- 4	e 3 10	+18	—	—
Hamada		6.7	267	e 1 40	+ 2	e 2 54	0	—	—
Uwazima		6.7	253	e 1 41	+ 2	e 3 17	+22	—	—

Continued on next page.

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1956

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	Δ	Az.	P.		O - C.	S.		O - C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Urakawa	6.9	16	e 1	39	- 2	e 2	54	- 6	—	—	—
Tomakomai	7.1	8	e 1	53	+ 9	—	—	—	—	—	—
Suttsu	7.3	0	e 1	49	+ 3	e 3	17	+ 9	—	—	—
Ooita	7.5	255	e 1	45	- 4	i 3	38	+25	—	—	—
Sapporo	7.6	6	e 1	50	- 1	e 3	13	- 3	—	—	—
Obihiro	7.8	16	i 1	50	- 3	i 3	10	-10	—	—	—
Simonoseki	7.8	261	e 1	56	+ 2	—	—	—	—	—	—
Miyazaki	8.2	246	2	10	+ 2	e 3	43	+13	—	—	—
Hukuoka	8.3	260	e 2	3	+ 2	—	—	—	—	—	e 4.4
Kumamoto	8.3	254	e 1	56	- 5	—	—	—	e 2	56	?
Asahigawa	8.4	11	e 1	59	- 3	—	—	—	—	—	—
Saga	8.5	258	i 2	8	+ 5	—	—	—	—	—	i 4.5
Nemuro	8.8	26	e 2	3	- 5	e 3	34	-13	—	—	—
Nagasaki	E. 9.0	255	e 2	12	+ 2	—	—	—	e 2	23	?
Abashiri	9.1	19	e 2	10	- 1	e 3	42	-10	4	24	?
Ituhara	E. 9.1	265	e 2	9	- 2	e 4	2	+ 9	—	—	—
Yakusima	9.6	241	i 2	19	+ 1	—	—	—	—	—	—
Tomie	9.9	256	e 2	39	+16	e 4	49	+36	—	—	—
Changchun	14.2	310	e 3	21	+ 2	e 6	3	+ 8	—	—	—
Dairen	15.2	288	e 3	36	+ 4	—	—	—	—	—	—
Zō-Sè	16.5	260	i 3	48 _a	- 1	e 6	58	+ 9	e 4	3	pP
Nanking	18.1	265	e 4	10	+ 1	e 7	36	+10	4	24	pP
Peking	19.5	291	4	20 _a	- 5	e 7	59	+ 3	4	40	pP
Guam	22.3	168	4	53	0	—	—	—	—	—	—
Sian	25.7	276	—	—	—	e 10	6	+19	—	—	—
Baguio City	25.8	228	i 5	43	+16	e 10	44	+54	—	—	—
Hong Kong	Z. 26.2	247	5	28	- 3	—	—	—	—	—	—
Manila	27.1	224	e 6	1	+22	—	—	—	—	—	e 15.2
Rabaul	Z. 41.0	162	7	40	+ 1	—	—	—	9	58	PP
Shillong	Z. 42.4	270	i 7	47 _a	- 3	—	—	—	—	—	—
Chatra	Z. 45.8	274	e 8	15	- 2	—	—	—	—	—	—
College	50.9	32	i 8	55	- 2	i 9	31	sP	9	15	pP
Dehra Dun	51.7	283	e 9	0	- 3	i 16	17	- 1	—	—	—
Lahore	54.2	286	9	23	+ 2	—	—	—	—	—	—
Poona	Z. 60.5	272	i 10	9	+ 3	—	—	—	—	—	—
Quetta	60.5	288	e 10	4	- 2	e 18	15	0	10	20	pP
Bombay	61.1	273	e 10	10	0	e 18	23	0	e 18	55	pS
Resolute Bay	64.3	14	10	29 _a	- 2	—	—	—	—	—	—
Sodankyla	66.0	337	i 10	45	+ 3	—	—	—	i 11	2	pP
Kiruna	67.6	339	i 10	52	0	—	—	—	—	—	—
Victoria	68.2	42	i 10	56	0	—	—	—	—	—	—
Seattle	Z. 69.2	46	i 11	4 _a	+ 2	—	—	—	—	—	—
Riverview	69.7	170	10	58 _a	- 7	21	0	+52	—	—	—
Corvallis	70.2	49	e 11	8	0	—	—	—	—	—	—
Shasta	72.8	52	11	24 _k	0	—	—	—	—	—	—
Mineral	73.5	52	11	28 _k	0	—	—	—	i 11	48	pP
Scoresby Sund	Z. 73.5	354	e 11	28	0	—	—	—	—	—	—
Hungry Horse	73.6	42	i 11	28	0	e 13	56	PP	i 11	53	pP
Upsala	73.9	334	11	28 _a	- 2	—	—	—	i 11	44	pP
Berkeley	74.4	55	i 11	33 _k	0	—	—	—	e 11	53	pP
Reno	75.1	52	11	38 _k	+ 1	—	—	—	—	—	—
Lick	75.1	55	i 11	37 _k	0	—	—	—	—	—	—
Butte	N. 75.7	43	i 11	41	+ 1	—	—	—	—	—	—
Fresno	76.6	54	e 11	48	+ 2	—	—	—	—	—	—
King Ranch	Z. 77.5	56	i 11	52 _k	+ 2	—	—	—	—	—	—
Eureka	77.6	50	i 11	51	0	e 12	26	sP	i 12	11	pP
Woody	Z. 77.9	55	11	52 _k	0	—	—	—	—	—	—
Isabella	Z. 78.2	55	11	54 _k	0	—	—	—	—	—	—
China Lake	Z. 78.6	54	i 11	58 _k	+ 1	—	—	—	i 12	17	pP
Copenhagen	Z. 78.8	333	i 11	56	- 2	—	—	—	—	—	—
Pasadena	79.2	56	i 12	0 _k	0	—	—	—	i 12	20	pP
Salt Lake City	79.3	47	e 12	1	+ 1	—	—	—	—	—	—
Riverside	Z. 79.8	56	i 12	3 _k	0	—	—	—	e 12	22	pP
Boulder City	80.4	53	i 12	7	+ 1	—	—	—	i 12	25	pP
Palomar	80.6	56	i 12	8	+ 1	e 12	27	PcP	i 12	23	pP

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Raciborz		80.6	326	11 56	-11	—	—	12 21	pP	—
Barratt	z.	81.1	56	i 12 10 _k	0	—	—	i 12 28	pP	—
Hayfield	N.	81.2	55	12 11	+ 1	—	—	—	—	—
Hamburg	z.	81.4	333	e 12 20 _a	+ 9	—	—	—	—	—
Safed		82.0	305	i 12 13	- 2	—	—	—	—	—
Prague		82.3	328	12 1	-15	—	—	i 12 27	pP	—
Jena		82.8	330	12 18	- 1	—	—	12 30	pP	—
Belgrade	z.	83.2	322	12 17 _a	- 4	—	—	e 12 36	pP	—
Tucson		85.3	54	i 12 32	+ 1	—	—	e 12 53	pP	—
Stuttgart		85.5	330	e 11 46	?	e 12 30	PcP	e 12 52	pP	—
Ebingen		86.0	331	e 12 39	+ 4	—	—	e 12 54	pP	—
Strasbourg		86.2	331	e 12 35	- 1	—	—	—	—	—
Rathfarnham Castle		86.9	341	12 38 _k	- 1	—	—	12 57	pP	—
Schefferville		87.1	15	e 12 44	+ 4	—	—	—	—	—
Paris		88.0	334	e 12 45	+ 1	—	—	—	—	—
Florence X.	z.	88.5	326	12 47	0	—	—	13 5	pP	—
Kirkland Lake	z.	89.3	26	e 12 50	0	—	—	—	—	—
Lubbock		90.0	48	12 54	0	—	—	—	—	—
Fayetteville		92.6	41	i 13 5	- 1	—	—	—	—	—
Shawinigan Falls		93.1	22	12 48	-20	—	—	—	—	—
Ottawa		93.2	24	e 13 25	+17	—	—	—	—	—
Brébeuf		93.8	23	i 13 12 _a	+ 1	—	—	—	—	—
Tamanrasset		107.9	316	18 1	[-63]	—	—	18 34	pPKP	—
Huancayo	z.	140.3	63	e 19 18	[-4]	—	—	e 22 54	SKP	—
La Paz	z.	148.4	60	i 19 44	[+8]	23 4	PP	20 12	pPKP	—

Nov. 4d. 7h. 5m. 45s. Epicentre 22°·08S. 175°·49W. Focus at Base of Superficial Layers.

A = -0.9247, B = -0.0730, C = -0.3737; $\delta = +5$; $h = +4$;
D = -0.079, E = +0.997; G = +0.373, H = +0.029, K = -0.928.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Suva	N.	6.9	303	i 1 48	+ 6	—	—	—	—
Apia		9.0	24	e 2 5	- 6	3 35	-17	—	—
Nouméa		16.7	266	i 3 45	- 9	i 6 40	-18	i 3 58	pP
Auckland	N.	17.0	208	e 4 8	+11	—	—	—	i 7.4
Karapiro	N.	17.6	204	e 4 9	+ 4	e 7 12	- 5	7 37	sS
Tuai	N.	17.8	199	e 4 2	- 6	e 7 4	-19	—	—
Tongariro	z.	18.7	202	—	—	e 7 44	+ 1	—	—
Wellington		20.8	201	e 4 39	- 3	e 8 13	-15	i 16 6	ScS
Cobb River	E.	21.4	205	e 4 49	+ 1	e 8 26	-12	—	e 9.4
Kaimata	N.E.	23.1	205	e 5 9	+ 4	e 9 9	- 1	—	—
Christchurch		23.6	202	—	—	9 14	- 4	—	—
Brisbane		29.0	253	i 5 58	- 2	i 10 46	- 2	—	—
Riverview		31.6	241	i 6 20 _k	- 2	i 11 26	- 2	i 7 28	PP
Rabaul	z.	36.0	295	e 6 59	- 2	e 12 44	+ 7	i 9 37	PcP
Melbourne		37.4	236	7 11	- 1	i 12 54	- 4	i 7 28	pP
Honolulu		46.3	23	i 8 23	- 2	—	—	—	—
Perth		61.1	245	i 10 13	- 1	i 18 37	+ 8	10 42	pP
Mirny		70.6	205	e 11 12	- 2	i 20 24	- 1	e 14 2	PP
Manila		72.1	294	e 11 24	0	i 21 7	+24	—	—
Matusiro		72.9	322	i 11 27 _k	- 1	20 44	- 7	21 40	PS
Baguio City		73.4	296	i 11 30	- 1	i 20 58	+ 1	—	—
Djakarta		76.3	269	11 46 _a	- 2	e 21 56	+28	—	—
Santa Clara		77.7	41	e 11 57	+ 1	22 12	+28	—	—
King Ranch	z.	77.8	44	i 11 59 _a	+ 3	—	—	e 12 27	pP
Berkeley		77.8	40	11 56 _a	0	e 21 53	+ 7	e 12 11	pP
Lick		77.8	41	i 11 57 _a	0	—	—	i 12 11	pP
Ukiah		78.1	39	i 11 59	+ 1	—	—	—	—
Pasadena		78.1	46	i 11 58 _a	0	i 21 55	+ 6	12 23	pP
Petropavlovsk		78.2	344	11 56	- 2	i 21 48	- 2	i 12 7	PcP
Barratt	z.	78.2	48	11 59 _a	0	i 22 9	+19	i 12 16	pP

Continued on next page.

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		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Yuzno-Sakhlinsk		78.4	332	i 11	59	0	21	57	+ 5	—	—	—
Palomar	Z.	78.5	47	i 12	0	0	—	—	—	i 12	28	pP
Riverside		78.5	46	i 12	1 _a	+ 1	e 22	2	+ 9	i 12	22	pP
Woody	Z.	78.6	44	i 12	0 _a	- 1	—	—	—	i 12	24	pP
Fresno		78.6	43	e 12	2 _a	+ 1	—	—	—	i 12	19	pP
Isabella	Z.	78.8	44	i 12	1	- 1	e 38	59	P'P'	i 12	22	pP
China Lake	Z.	79.5	44	i 12	4	- 1	e 39	4	P'P'	i 12	19	pP
Hayfield	N.	79.5	47	i 12	7	+ 1	e 22	33	+29	—	—	—
Shasta		79.6	38	i 12	15	+ 9	—	—	—	—	—	—
Mineral		79.8	39	e 12	7 _a	0	—	—	—	—	—	—
Reno		80.4	40	e 12	12	+ 2	—	—	—	e 12	25	pP
Z6-S6		80.5	309	i 12	10 _k	- 1	e 22	14	0	e 12	24	pP
Vladivostok		80.9	324	i 12	13	0	i 22	21	+ 3	—	—	—
Boulder City		81.4	46	i 12	14	- 2	—	—	—	—	—	—
Hong Kong		81.5	298	12	18	+ 2	22	27	+ 3	—	—	—
Corvallis		81.7	35	e 12	19	+ 2	—	—	—	—	—	—
Tucson		82.1	51	e 12	19	0	22	37	+ 7	e 15	48	PP
Canton		82.6	298	i 12	23 _k	+ 1	22	35	0	i 15	32	PP
Eureka		82.7	42	i 12	22	0	e 38	45	P'P'	e 30	46	PKKP
Nanking		82.7	309	e 12	23	+ 1	e 22	41	+ 4	—	—	—
Seattle		84.2	33	12	33 _a	+ 3	—	—	—	12	45	pP
Victoria		84.3	32	e 12	29	- 1	—	—	—	—	—	—
Horseshoe Bay		84.9	31	12	33	- 1	—	—	—	—	—	—
Changchun		85.1	321	e 12	36	+ 2	22	53	- 7	—	—	—
Tacubaya		85.2	67	12	41	+ 6	—	—	—	e 16	4	PP
Suihwa		85.8	324	e 12	41	+ 3	e 22	58	[+ 1]	—	—	—
Magadan		85.9	344	e 12	37	- 1	i 23	3	- 5	—	—	—
Salt Lake City		86.0	43	e 12	38	- 1	—	—	—	i 12	56	pP
Butte	N.	88.5	38	e 12	51	0	—	—	—	e 16	16	PP
Peking		88.7	314	i 12	52 _k	0	i 23	18	-16	—	—	—
Hungry Horse		89.0	36	e 12	52	- 1	e 23	21	-17	i 13	17	pP
Kwanting		89.1	314	e 12	57	+ 3	—	—	—	—	—	—
Bozeman		89.2	37	—	—	—	e 23	43	+ 5	—	—	e 38.9
College		89.3	11	i 12	52	- 3	i 23	38	- 2	i 13	19	pP
Lubbock		89.3	53	e 12	45	-10	—	—	—	—	—	e 36.4
Santa Lucia		89.6	126	i 12	56	0	e 23	10	-33	16	26	PP
Banff		89.9	33	12	56	- 2	—	—	—	—	—	—
Boulder		89.9	46	12	58	0	—	—	—	—	—	—
Taiyuan		90.0	311	e 13	2	+ 4	—	—	—	—	—	—
Sian		91.0	307	13	5	+ 2	i 23	32	[- 7]	i 24	4	S
Huancayo		94.7	105	i 13	22	+ 2	e 23	55	[+ 5]	e 25	20	PS
Fayetteville		96.1	54	i 13	28	+ 2	25	10	+31	—	—	e 43.4
La Paz	Z.	99.2	112	i 13	39 _k	- 1	i 25	3	- 3	i 17	44	PP
Florissant	N.	99.9	52	—	—	—	26	38	PS	33	27	?
St. Louis		99.9	52	e 13	49	+ 6	e 24	20	[+ 3]	e 32	14	SS
Tiksi		100.9	344	18	0	PP	24	38	[+16]	25	21	S
Chinchina		101.0	89	—	—	—	i 24	23	[0]	i 32	49	SS
Bogota		102.3	90	e 13	50	- 4	—	—	—	—	—	47.2
Galerazamba		103.4	84	—	—	—	i 24	41	[+ 7]	—	—	55.2
Colombo	E.	106.1	271	14	40	P	—	—	—	—	—	—
Cleveland	N.	107.1	52	—	—	—	26	44	0	—	—	—
Madras	E.	107.9	277	—	—	—	e 24	59	[+ 5]	—	—	—
Resolute Bay		108.7	16	e 18	4	PP	28	12	SKKS	37	12	?
Kodaikanal	E.	109.5	273	—	—	—	25	15	[+14]	—	—	e 52.4
Hyderabad	E.	110.9	281	—	—	—	e 25	8	[+ 2]	—	—	—
Ottawa		112.1	48	18	35	[+ 2]	—	—	—	—	—	—
Fordham		112.6	54	—	—	—	e 27	30	?	e 35	23	SS
Palisades		112.7	54	—	—	—	27	26	PS	i 35	21	SS
Poona		115.4	281	18	41	[+ 2]	25	26	[+ 1]	—	—	46.3
Bombay		116.4	281	19	32	PP	25	31	[+ 2]	26	43	SKKS
Frunse		119.1	308	18	47	[+ 1]	25	41	[+ 2]	i 27	4	SKKS
Tananarive		121.4	229	e 18	53 _a	[+ 2]	—	—	—	e 20	29	PP
Tashkent		122.9	306	i 18	54	[0]	i 25	54	[+ 3]	27	25	SKKS
Stalinabad		123.2	302	e 18	55	[+ 1]	25	52	[0]	—	—	—
Quetta		124.0	292	e 18	57	[+ 1]	e 25	48	[- 7]	e 20	38	PP

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	Δ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.	
Sverdlovsk	126.6	325	19	2	[+ 1]	—	—	—	—	—	—	
Bairam-Ali	128.4	301	19	6	[+ 2]	—	—	—	—	—	—	
Scoresby Sund	129.1	11	i 19	7	[+ 1]	i 31	30	PS	i 22	44	PKS	60.2
Sodankyla	132.6	349	19	12	[0]	—	—	—	i 22	46	SKP	—
Kiruna	133.2	352	i 19	2	[-11]	i 22	46	PKS	i 19	31	pP	—
Pulkovo	138.2	341	e 19	23	[+ 1]	—	—	—	e 22	55	PKS	—
Moscow	138.4	332	22	13	PP	e 25	19	PPP	i 22	58	PKS	—
Goris	140.5	306	e 19	19	[- 8]	—	—	—	i 23	3	PKS	—
Tiflis	141.0	310	e 19	23	[- 5]	e 29	23	SKKS	e 23	6	PKS	—
Upsala	141.1	350	i 19	20	[- 8]	—	—	—	i 19	56	pPKP	—
Uvira	145.0	226	i 19	35	[0]	—	—	—	—	—	—	—
Astrida	145.2	228	i 19	36 ^k	[+ 1]	—	—	—	—	—	—	—
Copenhagen	145.9	352	e 19	37	[+ 1]	42	33	SS	e 19	53	pPKP	—
Lwiro	146.1	228	i 19	40	[+ 3]	—	—	—	—	—	—	—
Simferopol	146.7	320	i 19	41	[+ 4]	—	—	—	e 23	22	PP	—
Durham	147.0	6	19	41	[+ 3]	—	—	—	20	5	pPKP	—
Warsaw	147.3	341	19	38	[- 1]	e 42	8	SS	23	13	PP	e 76.2
Rathfarnham C.	z. 147.8	12	i 19	40 ^a	[+ 1]	i 19	43	PKP ₂	i 19	59	pP'	—
Hamburg	z. 148.3	354	i 19	43	[+ 3]	—	—	—	23	11	PP	—
Lwow	148.3	336	19	42	[+ 3]	—	—	—	—	—	—	—
Iasi	148.8	329	19	48	[+ 7]	—	—	—	—	—	—	—
Witteveen	z. 149.3	357	19	48 ^a	[+ 6]	—	—	—	—	—	—	—
Krakow	149.6	340	19	49	[+ 7]	—	—	—	—	—	—	—
Bacau	149.6	329	19	47	[+ 5]	—	—	—	e 25	53	?	—
De Bilt	150.0	359	19	43	[0]	43	35	SS	23	39	PP	e 69.2
Focsani	150.0	327	e 20	1	[+18]	—	—	—	—	—	—	—
Ksara	150.0	300	i 19	45	[+ 2]	e 30	13	SKKS	i 23	39	PP	72.3
Raciborz	150.0	342	19	43	[0]	—	—	—	e 14	50	P ₂ '	—
Skalnate Pleso	150.2	339	19	47	[+ 4]	—	—	—	i 20	4	pP'	—
Kew	150.4	6	e 19	45	[+ 2]	23	36	PKS	e 20	14	pPKP	e 75.2
Safed	150.6	298	i 19	44	[0]	—	—	—	—	—	—	—
Jena	150.7	351	19	44	[0]	e 26	45	PPP	23	40	PP	—
Prague	151.0	347	e 19	47	[+ 3]	—	—	—	e 23	33	PP	—
Cheb	151.4	349	i 19	51	[+ 6]	i 20	33	sP'	23	40	PP	—
Campulung	151.4	329	19	48	[+ 3]	—	—	—	—	—	—	—
Hurbanovo	152.0	340	20	6	[+20]	—	—	—	20	30	pPKP	—
Bratislava	152.1	342	i 19	44	[- 2]	i 20	5	PKP ₂	i 20	21	pPKP	—
Karlsruhe	153.0	354	19	46 ^k	[- 1]	i 20	6	PKP ₂	e 23	32	PP	—
Stuttgart	153.1	353	e 19	47	[0]	e 20	30	SKKS	e 23	48	PP	—
Paris	153.3	3	e 19	50	[+ 3]	e 30	31	SKKS	e 20	8	P ₂ '	e 62.2
Tubingen	153.4	354	e 19	58	[+11]	—	—	—	e 20	10	P ₂ '	—
Strasbourg	153.4	355	e 19	50 ^a	[+ 2]	e 26	52	[+ 2]	i 20	23	pPKP	—
Ebingen	153.7	355	e 19	58	[+11]	—	—	—	e 20	12	P ₂ '	e 74.8
Belgrade	153.8	334	e 19	51 ^k	[+ 3]	e 30	34	SKKS	e 23	34	PKS	—
Basle	154.5	355	19	14	[-35]	—	—	—	—	—	—	—
Neuchatel	155.1	356	19	52	[+ 2]	—	—	—	—	—	—	—
Clermont-Ferrand	156.3	2	e 19	55	[+ 3]	e 45	5	SS	e 23	56	PP	—
Florence X.	157.6	347	e 19	51	[- 2]	e 30	50	SKKS	e 24	4	PP	e 74.2
M'Bour	158.2	107	i 19	55	[+ 1]	i 20	45	P ₂ '	i 20	33	sP'	76.2
Monaco	158.3	354	e 20	31	PKP ₂	—	—	—	—	—	—	—
Rome	159.1	343	e 20	6	[+11]	e 45	15?	SS	e 24	28	PP	—
Lisbon	159.7	32	i 19	59 ^a	[+ 3]	—	—	—	e 20	36	PKP ₂	68.2
Toledo	160.8	20	e 19	56	[- 1]	44	41	SS	e 24	23	PP	87.4
Messina	161.3	332	e 19	53	[- 4]	e 34	26	PS	e 20	42	pP'	—
Alicante	163.2	14	19	50	[- 9]	26	44	[-15]	24	22	PP	—
Granada	163.4	23	20	5 ^k	[+ 5]	e 27	6	[+ 7]	i 24	41	PP	i 86.4
Malaga	163.5	26	20	0 ^k	[0]	31	36	SKKS	i 24	40	PP	82.6
Algiers Univ.	z. 165.3	5	e 20	2	[+ 1]	e 24	50	PP	e 20	29	pP'	—
Relizane	166.0	13	e 20	3	[+ 1]	e 24	47	PP	e 20	49	sP'	—
Tamanrasset	178.8	307	e 20	9	[+ 2]	e 32	42	SKKS	e 20	30	pP'	—

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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Nov. 6d. 14h. 12m. 39s. Epicentre 5°·47S. 134°·02E.

A = -0·6918, B = +0·7159, C = -0·0946; $\delta = +5$; $h = +7$;
D = +0·719, E = +0·695; G = +0·066, H = -0·068, K = -0·996.

	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Rabaul	18·1	87	e 4	12 _a	0	e 7	47	+15	4	38	PP	—
Guam	21·6	29	i 4	52	+ 1	—	—	—	—	—	—	—
Manila	23·8	327	i 5	13	+ 1	i 9	31	+ 8	—	—	—	—
Baguio City	25·5	329	i 5	28 _k	- 1	i 9	52	- 1	—	—	—	—
Djakarta	27·1	267	e 5	23	-20	e 9	44	?	—	—	—	—
Brisbane	28·4	142	i 5	54	- 1	i 10	38	- 2	—	—	—	—
Perth	31·4	211	i 6	23	+ 1	i 12	50	SS	—	—	—	i 17·
Riverview	32·4	153	6	26 _a	- 5	e 11	43	- 1	e 13	34	SS	e 14·
Melbourne	33·7	164	i 6	44	+ 2	i 12	4	- 4	i 7	1	pP	i 16·
Hong Kong	N. 33·8	326	e 6	41	- 2	12	0	- 5	—	—	—	—
Zô-Sè	38·4	342	i 7	22 _k	0	13	15	- 1	—	—	—	—
Nanking	40·0	340	i 7	36 _k	- 2	e 13	44	0	—	—	—	—
Kyoto	40·3	2	7	37 _k	- 1	13	46	+ 1	—	—	—	—
Matusiro	42·0	5	i 7	50 _k	- 2	13	41	-29	—	—	—	20·
Shenchow	45·9	332	e 8	46	+20	—	—	—	—	—	—	—
Sian	46·1	331	e 8	45	+20	—	—	—	—	—	—	—
Taiyuan	47·4	337	e 8	37	+ 2	—	—	—	—	—	—	—
Peking	48·2	342	i 8	41 _k	0	e 15	40	+ 1	—	—	—	—
Tatung	49·2	339	8	53	+ 4	—	—	—	—	—	—	—
Changchun	49·7	352	8	51 _k	- 2	—	—	—	—	—	—	—
Shillong	Z. 51·2	309	i 9	2	- 3	—	—	—	—	—	—	—
Macquarie IIs.	Z. 52·9	162	9	18	+ 1	—	—	—	9	32	pP	—
Chatra	E. 55·5	308	e 9	35	- 1	—	—	—	—	—	—	—
Madras	E. 56·5	289	i 9	43	- 1	17	34	+ 1	—	—	—	—
Irkutsk	62·8	340	10	25	- 2	18	55	+ 7	—	—	—	—
Poona	63·9	294	i 10	35	+ 1	—	—	—	—	—	—	—
Dehra Dun	64·3	307	e 10	38	+ 2	—	—	—	—	—	—	—
Bombay	64·9	294	e 10	42	+ 1	19	19	- 1	13	21	PP	—
Lahore	67·7	307	10	58	0	—	—	—	—	—	—	—
Honolulu	71·6	66	e 11	23	+ 1	—	—	—	—	—	—	—
Frunse	72·1	318	11	25	0	20	45	- 5	—	—	—	—
Quetta	73·2	304	i 11	33 _k	+ 1	i 20	59	+ 1	—	—	—	—
Namangan	73·3	316	i 11	33	+ 1	i 20	57	- 7	—	—	—	—
Tiksi Bay	77·0	358	11	52	- 2	—	—	—	—	—	—	—
Tananarive	84·9	252	i 12	37	+ 2	—	—	—	e 12	53	pP	—
Sverdlovsk	85·6	328	12	38	0	—	—	—	—	—	—	—
College	89·9	25	i 12	57	- 2	—	—	—	e 17	26	PP	—
Tiflis	93·0	311	13	13	- 1	—	—	—	—	—	—	—
Sodankyla	101·7	338	14	7	+14	—	—	—	—	—	—	—
Kiruna	103·8	339	i 14	0	- 2	—	—	—	—	—	—	—
Shasta	103·8	50	e 14	4	+ 1	—	—	—	—	—	—	—
Astrida	104·0	266	17	42	PP	—	—	—	—	—	—	—
Kimberley	Z. 104·0	239	i 18	50	PP	—	—	—	—	—	—	—
Berkeley	104·2	52	e 14	7	+ 3	—	—	—	—	—	—	—
Mineral	104·5	50	e 14	7	+ 2	—	—	—	—	—	—	—
Lick	104·7	53	e 14	9	+ 3	—	—	—	—	—	—	—
Resolute Bay	105·4	12	e 14	8	—	e 29	44	PPS	18	7	PP	—
Pasadena	Z. 107·8	56	e 18	33	PP	—	—	—	—	—	—	—
Riverside	108·5	56	e 18	50	PP	—	—	—	—	—	—	—
Hungry Horse	108·6	41	e 18	29	PP	—	—	—	—	—	—	—
Eureka	108·9	50	e 14	28	PP	i 29	37	PKKP	i 18	31	PP	—
Palomar	Z. 109·0	57	e 19	11	PP	—	—	—	—	—	—	—
Boulder City	110·3	54	e 18	34	[+ 3]	—	—	—	e 21	4	PP	—
Jena	Z. 114·3	324	e 18	39	[0]	—	—	—	—	—	—	—
Triest	Z. 114·8	318	18	39	[- 1]	—	—	—	19	42	PP	—
Stuttgart	116·6	323	e 18	44	[+ 3]	—	—	—	e 19	50	PP	—
Boulder	116·8	48	e 18	46	[+ 2]	—	—	—	—	—	—	—
Rapid City	E. 117·0	43	e 18	46	[+ 2]	—	—	—	e 20	4	PP	—
Florence X.	117·1	317	e 18	44	[0]	—	—	—	i 19	59	PP	—
Strasbourg	117·5	323	e 18	46	[+ 1]	—	—	—	—	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Tamanrasset	127.5	294	i 19 7k	[+ 3]	—	—	21 5	PP	—
Kirkland Lake	z. 128.5	29	19 5	[- 1]	—	—	—	—	—
Ottawa	132.5	28	e 19 15	[+ 1]	—	—	—	—	—
Shawinigan Falls	133.0	25	e 19 16	[+ 1]	—	—	—	—	—
Seven Falls	133.3	23	e 18 34?	[- 41]	—	—	—	—	—
Morgantown	134.2	37	e 19 21	[+ 4]	—	—	—	—	—
Santa Lucia	134.7	150	19 12	[- 6]	—	—	—	—	—
Halifax	138.1	19	19 27	[+ 3]	—	—	—	—	—
Huancayo	z. 146.0	121	e 19 43	[+ 5]	—	—	—	—	—
La Paz	z. 149.1	135	i 19 50	[+ 7]	—	—	i 20 7	PKP ₂	—
M'Bour	150.1	289	i 19 48	[+ 3]	—	—	23 35	PP	—

Nov. 8d. 6h. 50m. 28s. Epicentre 18°·21S. 177°·87W. Depth of focus = 0.073R.

A = -0.9499, B = -0.0353, C = -0.3105; δ = -3; h = +5;
D = -0.037, E = +0.999; G = +0.310, H = +0.012, K = -0.951.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Suva	N. 3.5	270	i 1 19	+ 4	i 2 16	+ 2	—	—
Apia	7.3	54	i 1 47	- 3	3 10	- 8	—	—
Nouméa	15.3	252	i 3 8	- 5	i 5 44	- 5	—	—
Onerahi	E. 18.8	200	e 3 54	+ 6	e 6 58	+ 6	—	—
Auckland	19.7	198	—	—	e 6 2	- 65	—	—
Karapiro	N. 20.5	195	e 4 4	0	—	—	6 19	?
Tuai	N. 21.0	191	4 10	+ 1	7 21	- 8	—	—
Tongariro	z. 21.7	194	e 4 14	- 1	—	—	—	—
Wellington	23.8	194	i 4 32	- 3	e 8 9	- 6	7 10	?
Cobb River	E. 24.2	198	e 4 35	- 3	e 8 17	- 4	—	—
Kaimata	N.E. 25.9	198	e 5 22	+ 29	e 9 23	+ 35	—	—
Brisbane	28.3	246	i 5 14	0	i 9 24	- 2	—	—
Riverview	31.7	234	5 42 _a	- 2	i 10 18	- 1	7 12	pP
Rabaul	z. 32.4	292	i 5 48	- 2	e 10 26	- 4	i 8 21	PcP
Melbourne	37.9	231	i 6 35	0	i 11 49	- 2	i 8 10	pP
Honolulu	43.8	27	i 7 22	0	—	—	—	—
Guam	48.5	308	i 7 58	0	—	—	—	—
Matusiro	68.4	323	10 12k	- 1	18 36	+ 1	e 12 57	PP
Baguio City	69.7	296	10 21k	0	—	—	—	—
Zô-Sè	76.3	310	i 10 58k	- 1	20 3	0	—	—
Berkeley	76.4	42	i 10 59k	0	—	—	e 12 46	pP
Lick	76.5	43	i 11 0k	0	—	—	e 12 50	pP
Ukiah	76.6	41	e 11 0	0	—	—	e 12 50	pP
King Ranch	z. 76.6	46	e 11 1	+ 1	—	—	e 12 48	pP
Pasadena	77.0	47	i 11 2k	- 1	i 20 8	- 2	i 12 49	pP
Barratt	z. 77.3	49	i 11 4k	0	—	—	e 12 51	pP
Fresno	77.4	44	e 11 6	+ 2	—	—	e 12 52	pP
Woody	z. 77.4	46	i 11 5k	0	—	—	i 12 50	pP
Riverside	z. 77.5	48	i 11 5k	0	i 20 18	+ 3	e 12 48	pP
Palomar	z. 77.6	49	i 11 5k	0	—	—	i 12 52	pP
Hong Kong	77.7	298	11 7k	+ 1	—	—	—	—
Shasta	78.0	40	i 11 8	0	—	—	e 12 55	pP
Mineral	78.3	40	e 11 9k	0	—	—	e 12 56	pP
Nanking	78.6	309	11 11	0	20 30	+ 4	e 21 12	ScS
Canton	78.8	299	i 11 13k	+ 1	—	—	—	—
Reno	78.9	42	e 11 13k	0	—	—	—	—
Corvallis	79.8	36	e 11 18	+ 1	—	—	e 13 9	pP
Boulder City	80.3	47	i 11 20	0	—	—	i 13 8	pP
Changchun	80.7	322	i 11 21k	- 1	—	—	—	—
Eureka	81.4	44	i 11 26	+ 1	e 21 2	+ 7	i 13 15	pP
Tucson	81.4	52	i 11 27	+ 1	e 21 0	+ 5	e 13 15	pP
Victoria	82.2	33	i 11 29	- 1	—	—	13 21	pP
Seattle	82.3	34	11 31	+ 1	—	—	—	—
Horseshoe Bay	82.8	32	11 32	- 1	—	—	—	—
Peking	84.4	315	i 11 41k	+ 1	—	—	—	—

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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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	
	°	°	m. s.	s.	m. s.	s.	m. s.	
Salt Lake City	84.8	44	e 11 43	+ 1	—	—	i 13 33	pP
College	86.0	12	i 11 45	- 3	i 21 35	- 4	i 13 35	pP
Sian	86.9	307	e 11 57	+ 4	—	—	—	—
Hungry Horse	87.2	37	i 11 52	- 2	i 21 50	- 1	e 13 47	pP
Rapid City	E. 92.0	44	i 12 16	0	—	—	e 14 17	pP
Huancayo	Z. 97.9	105	—	—	—	—	29 18	PKKP
Quetta	120.4	295	i 17 56	[+ 2]	e 24 11	[+ 5]	e 19 27	pPKP
Hamburg	144.2	352	i 18 39	[- 2]	—	—	i 20 46	pPKP
Iasi	144.3	330	18 41	[+ 1]	—	—	—	—
Rathfarnham Castle	144.4	9	18 39 _a	[- 1]	—	—	19 40	pPKP
Bacau	145.1	330	18 43	[+ 2]	—	—	—	—
Krakow	N. 145.2	340	e 18 40	[- 1]	—	—	e 19 20	pPKP
Witteveen	145.3	355	i 18 43	[+ 2]	—	—	—	—
Focsani	145.6	328	18 50	[+ 8]	—	—	e 19 7	pPKP
Raciborz	145.7	342	e 18 45	[+ 3]	—	—	—	—
Uvira	145.8	234	18 43 _k	[+ 1]	—	—	20 43	pPKP
Astrida	145.8	236	18 43 _k	[+ 1]	—	—	20 43	pPKP
De Bilt	146.1	357	i 18 48	[+ 6]	—	—	—	—
Jena	146.5	349	e 18 43	[0]	—	—	e 20 42	pPKP
Safed	146.7	303	i 18 45	[+ 2]	—	—	i 20 44	pPKP
Kew	Z. 146.8	3	e 18 46	[+ 3]	—	—	e 20 43	pPKP
Lwiro	146.8	235	18 45 _k	[+ 2]	—	—	i 20 47	pPKP
Campulung	147.0	330	18 51	[+ 7]	—	—	—	—
Jerusalem	147.2	301	18 49	[+ 5]	—	—	—	—
Bratislava	147.7	341	i 18 46	[+ 1]	—	—	i 20 47	pPKP
Stuttgart	149.0	351	18 46	[0]	—	—	20 50	pPKP
Belgrade	Z. 149.4	334	i 18 49 _k	[+ 2]	—	—	e 20 52	pPKP
Strasbourg	149.4	353	e 18 46	[- 1]	19 11	PKP ₂	e 20 55	pPKP
Ebingen	149.6	351	e 18 53	[+ 6]	—	—	e 20 52	pPKP
Besançon	150.9	355	e 18 48	[- 1]	i 19 5	PKP ₂	i 20 55	pPKP
Triest	151.0	343	i 18 50	[0]	26 6	[+58]	20 56	pPKP
Clermont-Ferrand	152.5	358	e 19 2	[+10]	—	—	e 21 0	pPKP
Florence X.	Z. 153.4	345	i 18 44 _a	[- 9]	—	—	i 20 51	pPKP
Monaco	154.2	351	e 18 53	[- 1]	—	—	21 3	pPKP
Granada	160.4	14	e 18 28	[-34]	e 23 50	PP	21 41	sPKP
Algiers Univ.	Z. 161.5	358	e 19 3	[0]	—	—	e 21 45	pPKP ₂
Tamanrasset	Z. 174.4	326	i 19 13 _k	[+ 1]	e 30 20	SKKS	e 21 20	pPKP

Nov. 9d. 6h. 1m. 51s. Epicentre 35°·67N. 34°·45W.

A = +0.6715, B = -0.4606, C = +0.5805; $\delta = +4$; $h = 0$;
D = -0.566, E = -0.825; G = +0.479, H = -0.328, K = -0.814.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Halifax	23.9	301	i 5 13 _a	- 3	—	—	—	—
Malaga	24.2	79	i 5 17 _k	- 2	i 9 25	-10	i 6 1	PP 11.8
Granada	24.8	77	i 5 36 _k	+11	e 10 28	SS	i 6 12	PP 12.0
Bermuda Navy	25.2	271	5 16	-13	9 57	+ 5	—	e 10.6
Almeria	25.7	78	i 5 36	+ 2	6 16	PP	6 27	PPP
Rathfarnham Castle	26.5	39	i 5 40 _k	0	e 9 53	-21	5 58	PP
Alicante	27.2	74	5 45	- 2	11 28	+63	11 38	SS e 13.1
Clermont-Ferrand	30.0	59	e 6 11	- 1	—	—	—	—
Paris	30.0	53	e 6 19	+ 6	—	—	—	—
Shawinigan Falls	30.6	303	e 6 15	- 2	—	—	7 15	PP
Besançon	32.1	56	i 6 32	+ 1	—	—	—	—
Basle	33.2	56	e 6 31 _k	- 9	—	—	—	—
Strasbourg	33.4	54	i 6 43 _a	+ 1	—	—	e 6 59	?
Ebingen	Z. 34.2	55	e 6 49	0	—	—	e 7 0	?
Stuttgart	Z. 34.4	54	e 6 51	0	—	—	—	—
Kirkland Lake	35.6	305	e 7 5	+ 4	—	—	—	—
Florence	Z. 35.7	63	i 6 50 _? _a	-12	—	—	i 8 30 _?	PP
Morgantown	35.9	290	e 7 4	0	—	—	—	—
Jena	Z. 36.2	50	e 7 5	- 1	—	—	e 8 20	PP
Tamanrasset	Z. 36.9	99	i 7 13 _k	+ 1	e 13 4	+ 6	e 8 39	PP 17.4

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Triest		37.4	59	i 7 15k	- 1	e 12 50	-15	—	—
Prague		37.9	52	i 7 21	0	e 13 57	+44	e 8 43	PP
Columbia		38.0	281	e 7 21	0	—	—	—	—
Messina		39.7	71	e 7 35	0	e 13 39	0	—	e 19.9
Skalstugan		39.7	31	i 7 36	0	—	—	—	—
Raciborz	z.	40.3	52	e 7 42	+ 1	—	—	—	—
Upsala		41.1	37	i 7 47	0	—	—	—	—
Kiruna		44.4	26	i 8 13	- 1	—	—	—	—
Fayetteville		47.7	289	i 8 39	- 1	—	—	—	—
Resolute		48.2	342	e 8 43a	- 1	e 15 45	+ 1	—	e 23.4
Chinchina		48.6	241	i 8 47	- 1	—	—	—	—
Rapid City	E.	52.0	302	e 9 15	+ 2	—	—	—	—
Boulder		54.8	297	e 9 33	- 1	—	—	—	—
Hungry Horse		57.9	309	e 9 55	- 1	—	—	e 10 45	PcP
Salt Lake City		59.2	300	e 10 4	- 1	—	—	—	—
La Paz	z.	60.9	217	10 16	- 1	—	—	—	—
Huancayo	z.	61.2	227	i 10 17	- 2	—	—	—	—
Tucson		61.9	291	e 10 28	+ 4	—	—	—	—
Boulder City		63.3	296	i 10 32	- 1	—	—	—	—
Reno		65.2	302	e 10 50	+ 5	—	—	—	—
Corvallis		65.3	308	e 10 46	0	—	—	—	—
Palomar	z.	65.9	295	e 10 49	- 1	—	—	e 13 17	PP
Riverside	z.	66.0	295	e 10 55	+ 5	—	—	—	—
Isabella	z.	66.0	298	i 10 50	- 1	—	—	e 13 19	PP
Mineral		66.1	303	e 10 50	- 1	—	—	—	—
Barratt	z.	66.1	294	e 10 51	0	—	—	e 13 20	PP
Woody	z.	66.3	298	i 10 51	- 1	—	—	e 13 22	PP
Shasta		66.5	304	e 10 52	- 1	—	—	—	—
Pasadena		66.5	296	e 10 53	- 1	e 19 39	- 5	—	e 31.6
College		67.2	335	e 10 57	- 1	—	—	—	—
Lick		67.5	300	e 11 1	+ 1	—	—	—	—
Lwiro		69.9	108	e 11 15k	0	—	—	—	—
Quetta		81.3	59	e 12 20k	0	—	—	—	—
Rabaul	z.	148.1	347	e 19 47	[+ 3]	—	—	—	—

Nov. 9d. 13h. 6m. 15s. Epicentre 17°·45N. 94°·08W. Depth of focus = 0·015R.

$A = -0.0678$, $B = -0.9521$, $C = +0.2981$; $\delta = -5$; $h = +5$;
 $D = -0.998$, $E = +0.071$; $G = -0.021$, $H = -0.297$, $K = -0.955$.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Comitan		2.2	122	i 0 44	+ 7	i 1 13	+ 8	—	—
Oaxaca		2.6	261	i 0 37a	- 5	e 1 9	- 5	—	—
Puebla		4.2	292	i 1 0k	- 4	i 1 50	- 3	—	—
Tacubaya		5.2	292	i 1 17k	0	i 2 22	+ 5	i 1 36	sP
San Salvador		6.0	128	e 1 25	- 2	i 2 9	-25	—	—
Guadalajara		9.3	292	i 2 15k	+ 3	i 3 51	- 4	i 2 23	PP
Manzanillo		9.9	281	i 2 17k	- 3	i 4 5	- 4	i 2 41	PPP
Mazatlan		12.9	298	e 3 3	+ 4	e 5 27	+ 7	e 5 54	SS
Chihuahua		15.7	317	i 3 38k	+ 3	i 6 30	+ 6	i 3 45	PP
Fayetteville	E.	18.6	0	i 4 11a	+ 2	e 7 9	-19	e 16 4	ScS
Galerazamba		19.4	107	i 4 40	+22	i 8 7	+22	—	—
Columbia		20.2	33	i 4 26	0	i 8 10	+ 9	—	i 11.4
Port au Prince		20.7	84	e 4 43	+12	i 8 48	SS	—	—
Tucson		21.1	317	i 4 35	- 1	e 8 25	+ 7	i 5 4	pP
St. Louis		21.4	8	e 4 38k	0	i 8 30	+ 8	i 5 3	pP
Florissant	N.	21.5	8	i 4 40a	+ 1	i 8 31	+ 6	—	—
Chinchina		21.9	122	i 4 42	- 1	i 8 36	+ 4	i 9 25	sS
Chapel Hill		22.7	33	i 4 53	+ 2	—	—	—	—
Lincoln		23.4	355	e 4 59	+ 1	e 9 0	+ 2	—	i 9.5
Boulder		24.5	339	i 5 9	0	—	—	—	—

Continued on next page.

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1956			560									
	Δ	Az.	P.		O-C.	S.	O-C.	Supp.		L		
	°	°	m.	s.	s.	m.	s.	m.	s.	m		
Chicago	24.9	12	i 5	11	- 1	i 9	23	0	i 5	39	pP	i 10
Morgantown	25.3	26	i 5	16	0	—	—	—	i 5	49	PP	—
Barratt	25.4	311	e 5	16	- 1	e 9	34	+ 3	i 5	47	pP	—
Palomar	25.9	312	i 5	21	0	i 6	4	sP	i 5	52	pP	—
Pittsburgh	26.0	25	i 5	23	+ 1	i 9	51	+10	i 5	54	PP	—
Washington	26.0	31	i 5	22	0	i 6	30	PP	i 5	51	pP	i 10
Boulder City	26.1	319	e 5	22	- 1	i 8	47	PcP	i 5	52	pP	e 13
Cleveland	26.3	22	i 5	24	- 1	i 9	48	+ 2	i 5	52	pP	—
Riverside	26.6	313	i 5	27	- 1	i 6	10	sP	i 5	58	pP	—
San Juan	26.6	84	e 5	26	- 2	i 9	49	- 2	i 6	1	pP	i 10
Pasadena	27.2	312	e 5	33	- 1	i 10	4	+ 3	i 6	3	pP	i 10
Rapid City	27.6	346	i 5	37	0	i 10	38	+30	e 6	16	pP	e 11
Salt Lake City	27.8	330	e 5	40	+ 1	i 10	18	+ 7	i 6	10	pP	i 11
Isabella	28.2	315	i 5	42	- 1	i 8	50	PcP	i 6	13	pP	—
Woody	28.5	314	i 5	44	- 1	i 10	5	-17	i 6	20	pP	i 12
King Ranch	28.9	313	e 5	50	+ 1	—	—	—	i 6	19	pP	—
Palisades	29.2	32	i 5	50	- 1	i 10	29	- 4	i 6	23	pP	e 12
Fresno	29.7	315	e 5	55	- 1	—	—	—	—	—	—	—
Bermuda Navy	30.4	55	i 5	42	-20	i 10	47	- 5	i 6	1	PP	e 12
Lick	31.3	315	i 6	10 _a	0	i 9	2	PcP	i 6	40	pP	e 16
Reno	31.4	320	e 6	9 _k	- 1	—	—	—	i 6	57	sP	—
Bozeman	31.5	337	e 6	10	- 2	i 11	10	+ 1	i 6	44	pP	e 15
Santa Clara	31.5	314	e 6	15 _a	+ 3	e 11	12	+ 3	—	—	—	e 17
Weston	31.5	33	e 6	10	- 2	i 11	9	0	—	—	—	12
Fort de France	31.7	90	i 6	10	- 4	e 11	8	- 5	i 6	42	pP	—
Ottawa	31.8	25	i 6	15	+ 1	—	11 17	+ 3	6	46	pP	13
St. Vincent	31.9	93	e 6	12	- 3	—	—	—	—	—	—	—
Berkeley	32.0	315	e 6	17 _k	+ 1	i 11	23	+ 6	i 6	46	pP	e 18
Trinidad	32.3	98	e 6	16 _?	- 2	—	—	—	—	—	—	—
Butte	32.4	336	i 6	81	- 1	i 11	23	0	i 6	51	pP	i 14
Kirkland Lake	32.7	17	e 6	19 _a	- 3	—	—	—	—	—	—	—
Brébeuf	32.8	27	i 6	20	- 3	i 11	30	+ 1	i 6	35	pP	—
Mineral	32.9	319	e 6	24 _a	0	—	—	—	i 6	59	pP	—
Ukiah	33.3	316	e 6	30	+ 3	e 11	43	+ 6	e 6	59	pP	e 15
Barbados	33.5	92	e 7	20	PP	—	—	—	—	—	—	—
Shasta	33.6	319	i 6	32	+ 2	i 12	40	ScP	i 7	4	pP	e 17
Shawinigan Falls	34.0	27	e 6	32	- 1	—	11 50	+ 3	7	44	PP	15
Huancayo	34.7	146	i 6	39	0	i 11	54	- 4	e 7	19	sP	e 14
Hungry Horse	34.9	336	i 6	39	- 1	i 12	5	+ 4	e 7	14	pP	e 20
Seven Falls	35.2	28	e 5	55 _?	-49	e 12	2 _?	+ 7	i 6	46 _?	P	14
Saskatoon	36.0	347	i 6	50	0	i 12	21	3	—	—	—	—
Corvallis	36.5	324	e 6	54	0	e 13	55	?	i 7	26	pP	—
Halifax	37.2	37	e 7	0	0	i 8	33	PP	i 7	34	pP	—
Banff	37.7	338	e 7	3	- 2	—	—	—	—	—	—	—
Seattle	38.0	329	i 7	9	+ 2	—	—	—	e 7	40	pP	—
Victoria	39.1	329	e 7	15	- 1	—	—	—	—	—	—	—
Horseshoe Bay	39.6	330	i 7	21	+ 1	—	13 16	+ 3	7	53	pP	—
La Paz	42.3	141	i 7	41	- 1	i 13	55	+ 2	i 8	1	pP	20
Antofagasta	46.9	150	i 8	19	0	e 15	1	+ 2	e 8	54	pP	—
Sitka	50.1	332	i 8	45	+ 2	i 15	48	+ 5	i 9	17	pP	e 20
Santa Lucia	55.3	156	i 9	18	- 4	i 16	57	+ 3	—	—	—	23
Resolute	57.2	0	e 9	30 _a	- 6	i 17	21	+ 1	e 13	3	PPP	—
Concepción	57.8	159	e 9	50 _a	+10	—	19 37	ScS	10	39	sP	—
College	59.3	336	i 9	47	- 3	i 17	47	+ 1	e 12	23	PP	e 23
Honolulu	60.2	285	e 9	53	- 3	—	—	—	i 10	39	PcP	i 21
Buenos Aires	61.8	147	10	6	- 2	—	18 18	- 1	—	—	—	—
Reykjavik	66.7	27	i 10	39 _k	0	—	—	—	11	23	sP	—
Scoresby Sund	67.7	20	i 10	45	0	i 11	31	sP	i 11	11	pP	—
M'Bour	73.7	80	i 11	22	+ 1	i 20	44	+ 4	i 11	36	PcP	30
Rathfarnham Castle	74.9	38	i 11	28 _k	0	e 20	58	+ 5	i 12	4	pP	e 32
Lisbon	75.4	54	i 11	33 _k	+ 2	—	—	—	i 12	10	pP	37
Aberdeen	76.6	34	e 12	21	sP	i 21	11	- 1	i 22	14	PS	—
Durham	77.4	36	i 11	43	+ 1	i 21	20	0	i 12	20	pP	—
Jersey	78.3	42	i 11	48	+ 1	e 21	31	+ 1	e 12	47	sP	—
Kew	78.8	39	i 11	49	- 1	e 21	35	- 1	i 12	28	pP	e 43

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Toledo	79.0	52	i 12	39 _k	+48	i 21	39	+ 1	13	29	pP	—
Malaga	79.5	55	i 11	45 _k	- 9	i 21	43	+ 0	14	49	PP	37.8
Granada	80.0	54	i 12	0 _a	+ 4	i 21	51	+ 3	14	45	PP	i 38.8
Almeria	81.0	54	i 12	0	- 2	e 21	58	0	12	37	pP	39.2
Paris	81.3	42	i 12	2	- 1	e 22	5	+ 3	e 12	42	pP	e 38.8
Skalstugan	81.6	26	i 12	4	- 1	i 15	46	PP	i 12	40	pP	—
De Bilt	82.0	38	i 12	9	+ 2	i 22	13	+ 5	i 12	43	pP	e 38.8
Alicante	82.1	52	i 12	8	+ 1	i 22	14	+ 4	—	—	—	e 39.9
Clermont-Ferrand	82.6	44	i 12	9	- 1	i 22	17	+ 3	i 12	47	pP	33.8
Witteveen	82.6	37	i 12	12	+ 2	—	—	—	e 12	45	pP	—
Apia	82.7	253	e 12	14	+ 4	e 16	23	PcS	e 13	51	?	—
Kiruna	82.8	20	i 12	10	- 1	i 22	19	+ 3	i 12	50	pP	—
Barcelona	83.2	49	—	—	—	23	35	PS	—	—	—	e 42.6
Relizane	83.6	55	e 12	13	- 2	e 22	29	+ 4	e 12	54	pP	—
Hamburg	84.2	36	i 12	18 _a	0	i 22	31	0	e 12	55	pP	e 36.0
Strasbourg	84.7	41	i 12	19	- 1	e 28	19	SS	i 12	59	pP	e 37.6
Neuchatel	84.7	42	e 12	19	- 1	e 22	34	- 1	—	—	—	—
Copenhagen	84.7	33	i 12	23 _a	+ 2	i 22	32	[+ 2]	i 12	57	pP	—
Basle	84.9	42	e 12	21	0	e 22	37	- 1	—	—	—	—
Karlsruhe	84.9	40	i 12	21 _a	0	i 13	0	sP	i 12	49	pP	—
Sodankyla	85.0	19	i 12	20	- 2	i 22	30	[- 1]	i 12	59	pP	—
Algiers Univ.	85.3	53	e 12	22	- 1	e 22	36	[+ 3]	e 12	57	pP	—
Uppsala	85.5	28	i 12	23 _k	- 1	i 22	34	[0]	i 13	1	pP	—
Stuttgart	85.5	40	i 12	24 _a	0	e 22	37	[+ 3]	e 12	50	pP	—
Fubingen	85.5	40	e 12	26	+ 2	e 22	48	+ 5	—	—	—	—
Ebingen	85.6	41	i 12	25 _a	0	e 22	45	+ 1	—	—	—	—
Dropa	85.8	43	e 12	15	-11	e 22	57	+11	e 12	57	pP	—
Jena	86.1	38	i 12	27	0	e 22	38	[0]	e 12	59	pP	—
Monaco	86.1	45	e 12	26 _a	- 1	i 13	22	sP	i 13	3	pP	—
Petropavlovsk	86.1	325	e 12	33	+ 5	—	—	—	e 12	58	pP	—
Fiksi	86.5	347	e 12	27	- 2	e 12	31	PcP	e 13	2	pP	—
Pavia	86.8	44	e 12	32	+ 1	e 22	41	[- 2]	e 13	11	pP	e 39.4
Jheb	86.9	38	i 12	35	+ 4	i 23	3	+ 6	i 13	12	pP	—
Apatity	87.0	18	i 12	30	- 2	i 22	44	-14	—	—	—	—
Magadan	87.1	332	e 12	33	+ 1	e 22	49	[+ 4]	—	—	—	—
Prague	88.1	38	i 12	39	+ 2	i 22	55	[+ 4]	i 13	1	pP	50.2
Bologna	88.5	44	e 12	41	+ 2	e 22	59	[+ 5]	e 13	19	pP	—
Prato	88.6	44	i 12	41	+ 2	i 23	9	- 3	—	—	—	—
Florence	88.7	44	e 12	42	+ 2	i 23	8	- 5	i 13	12	pP	e 36.8
Friest	89.6	42	12	45	+ 1	i 23	2	[+ 1]	e 13	21	pP	39.0
Rome	90.3	46	i 12	49 _a	+ 2	i 23	8	[+ 3]	i 13	27	pP	e 37.8
Raciborz	90.3	37	e 12	48	+ 1	e 23	7	[+ 2]	e 23	38	ScS	—
Varsaw	90.8	34	e 25	40	PPS	i 23	8	[+ 4]	i 23	21	S	e 35.8
Pulkovo	90.9	25	i 12	51	+ 1	i 23	11	[+ 3]	e 13	33	pP	—
Krakow	91.3	36	e 12	54	+ 2	e 23	13	[+ 2]	e 16	22	PP	—
Iurbanovo	91.3	39	—	—	—	i 23	15	[+ 4]	i 23	44	S	—
Pamanrasset	91.8	66	i 12	54	0	e 23	46	+ 4	e 13	33	pP	—
Lwow	93.7	35	i 13	4	+ 1	i 23	23	[- 1]	i 24	4	S	—
Messina	94.0	48	e 13	3	- 1	i 23	24	[- 2]	e 13	51	pP	44.8
Reggio Calabria	94.1	48	e 13	5	0	e 23	25	[- 1]	—	—	—	—
Paranto	94.1	45	—	—	—	23	25	[- 1]	—	—	—	40.8
Belgrade	94.2	40	i 13	8 _a	+ 3	i 23	31	[+ 4]	e 16	53	PP	—
Ymisoara	94.2	39	e 14	16	?	e 23	33	[+ 6]	—	—	—	—
Moscow	96.5	25	i 13	13	- 3	e 24	21	- 1	i 23	37	SKS	—
Lampulung	96.7	38	—	—	—	23	48	[+ 8]	—	—	—	—
Sofia	97.0	41	e 13	19	+ 1	23	47	[+ 5]	—	—	—	—
Sacau	97.1	37	—	—	—	23	45	[+ 3]	—	—	—	—
Asi	97.1	36	13	19	+ 1	23	44	[+ 2]	e 24	30	S	—
Bocsani	97.7	37	—	—	—	23	48	[+ 2]	—	—	—	—
Bucharest	97.8	39	e 18	19	pPP	23	47	[+ 1]	26	19	PS	40.8
Fuzno-Sakhlinsk	98.1	325	—	—	—	e 23	51	[+ 3]	—	—	—	—
Athens	99.7	45	—	—	—	e 23	48	[- 8]	24	59	S	—
Limferopol	102.1	35	e 17	50	PP	i 24	7	[0]	26	48	SP	—
Wellington	102.1	230	—	—	—	24	10	[+ 3]	—	—	—	—
Verdlovsk	103.0	14	i 17	57	PP	24	15	[+ 4]	e 27	7	PS	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Matusiro	107.1	318	e 14 5	P	24 30	[0]	e 18 12	PP e 45.3
Kabansk	108.5	347	e 26 9	S	24 40	[+ 4]	e 14 49	pP
Ksara	110.2	43	e 18 15	[- 1]	—	—	—	—
Goris	112.3	32	e 19 5	PP	21 54	PKS	i 28 33	SP
Rabaul	z. 113.9	273	i 18 24	[+ 1]	—	—	e 19 11	PP
Brisbane	117.8	248	i 19 45	PP	e 27 22	?	—	—
Hermanus	118.7	120	i 27 32	?	e 35 56	SS	e 39 27	SKKKS
Frunse	119.1	9	e 18 31	[- 2]	i 25 19	[+ 3]	i 19 47	PP
Ashkabad	119.1	25	19 56	PP	25 22	[+ 6]	i 26 44	SKKS
Tashkent	119.5	14	e 19 53	PP	e 25 18	[+ 1]	i 26 20	SKKS
Riverview	119.9	240	e 19 56	PP	e 25 20	[+ 1]	i 29 45	PS e 55.6
Lwiro	122.0	82	e 18 45	[+ 6]	—	—	e 18 7	?
Stalinabad	122.0	16	e 18 41	[+ 2]	25 31	[+ 5]	e 19 18	pP'
Uvira	122.7	83	e 18 43	[+ 3]	—	—	—	—
Astrida	122.9	82	e 18 44	[+ 3]	—	—	e 21 9	?
Grahamstown	z. 124.8	119	i 18 46	[+ 1]	—	—	—	—
Melbourne	124.8	236	e 20 23	PP	e 25 36	[+ 2]	e 30 29	PS e 51.4
Pretoria	z. 126.0	109	e 18 48	[+ 1]	—	—	—	—
Quetta	129.2	21	e 18 42	[- 11]	i 27 45	SKKS	e 19 22	pP'
Mirny	130.7	184	e 19 6	[+ 10]	e 26 13	[+ 22]	i 21 11	PP
Dehra Dun	N. 131.9	9	e 19 7	[+ 9]	26 3	[+ 9]	21 18	PP
Baguio City	132.1	313	i 19 2k	[+ 4]	22 2	?	—	—
Chatra	z. 136.0	358	e 19 2	[- 4]	—	—	—	—
Bombay	141.6	20	e 19 10	[- 6]	e 26 45	[+ 33]	e 22 43	PKS
Poona	142.3	19	e 19 14	[- 3]	e 22 30	SKP	—	—
Tananarive	143.6	98	i 19 18	[- 1]	29 22	SKKS	22 55	PP
Madras	E. 149.2	11	e 19 37	[+ 8]	—	—	20 59	?
Perth	149.4	236	19 31	[+ 2]	i 34 24	PS	23 9	PP i 70.0
Colombo	E. 155.1	14	e 19 41	[+ 4]	e 34 46	ScS,P'	e 27 38	PPP
Djakarta	156.7	296	e 20 38	?	—	—	—	—

Nov. 10d. 0h. 8m. 34s. Epicentre 10°-68N. 85°-68W. Depth of focus = 0.014R.

A = +0.0740, B = -0.9801, C = +0.1842; δ = 0; h = +6;
D = -0.997, E = -0.075; G = +0.014, H = -0.184, K = -0.983.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
San Salvador	4.6	312	e 1 13	+ 4	e 1 45	-16	—	—
Balboa Heights	6.3	105	e 1 27	- 4	—	—	—	—
Chinchina	11.5	119	i 2 40	- 1	i 5 6	+19	—	5.9
Bogota	13.0	117	e 3 14	+14	i 6 0	+38	—	6.9
Vera Cruz	13.2	311	i 8 32	PcP	—	—	—	—
Tacubaya	15.7	305	3 31	- 4	e 6 0	-24	i 3 40	PP
San Juan	20.4	66	e 4 32	+ 3	e 8 32	+27	e 4 58	pP e 8.7
Columbia	23.6	10	i 5 2	+ 2	i 9 32	+30	—	e 11.6
Fort de France	24.3	78	—	—	e 10 2	SS	—	—
Huancayo	24.8	155	e 5 14	+ 2	e 9 39	+16	e 8 43	PcP
Chapel Hill	25.8	12	i 5 23	+ 2	—	—	e 5 31	?
Fayetteville	26.4	344	i 5 25k	- 2	—	—	—	—
Morgantown	29.3	9	i 5 53	+ 1	—	—	—	—
Tucson	31.6	317	i 6 12	- 1	—	—	i 9 5	PcP
Palisades	31.9	17	e 6 13	- 3	e 11 53	+36	—	e 14.9
La Paz	32.1	147	6 2	-15	10 53	-26	—	15.7
Ottawa	35.6	12	i 6 47	0	12 28	+14	17 28	ScS 18.7
Hayfield	N. 35.7	315	i 6 48	0	—	—	—	—
Barratt	z. 35.9	312	e 6 50	0	—	—	e 9 18	PcP
Palomar	z. 36.4	313	i 6 54s	0	—	—	e 9 22	PcP
Boulder City	36.5	318	i 6 56	+ 1	—	—	e 7 30	pP
Rapid City	E. 36.6	339	e 6 55	0	—	—	—	—
Riverside	z. 37.1	314	i 7 0	0	—	—	i 9 30	PcP
Shawinigan Falls	37.4	15	e 7 2	0	—	—	—	—
Kirkland Lake	z. 37.6	6	e 7 3	- 1	—	—	—	—

Continued on next page.

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1956

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Pasadena	37.8	313	i 7 5 _a	0	i 13 4	+18	e 9 28	PcP e 17.0
Salt Lake City	37.8	327	e 7 5	-1	—	—	—	—
Seven Falls	38.4	16	e 6 25	-46	—	—	—	—
Isabella	z. 38.8	315	i 7 12	-2	i 12 14	ScP	i 9 27	PcP
Woody	z. 39.0	315	i 7 16 _a	0	i 12 13	ScP	i 9 27	PcP
Eureka	39.3	322	e 7 18	0	—	—	—	—
King Ranch	z. 39.5	314	e 7 20	+1	—	—	—	—
Fresno	40.3	316	e 7 24 _a	-2	—	—	—	—
Reno	41.8	319	i 7 40 _k	+2	—	—	—	—
Lick	41.8	315	i 7 39 _a	0	—	—	i 8 12	pP
Berkeley	42.5	316	e 7 44 _a	0	—	—	e 9 39	PcP e 25.6
Mineral	43.4	319	i 7 56	+5	—	—	—	—
Shasta	44.0	319	i 7 55	-2	—	—	e 9 43	PcP
Hungry Horse	44.4	333	e 7 58	-2	—	—	i 9 43	PcP
Corvallis	46.7	323	e 8 18	0	—	—	e 9 54	PcP
College	68.7	336	i 10 50	-2	—	—	i 11 24	pP
Rathfarnham C.	z. 75.2	38	i 11 57	pP	—	—	—	—
Tamanrasset	z. 87.0	67	e 12 35	+3	—	—	—	—
Upsala	87.4	29	i 19 9	?	—	—	—	—
Astrida	115.4	88	e 18 34 _a	[+7]	—	—	—	—
Quetta	131.6	32	e 19 3	[+5]	—	—	—	—

Nov. 10d. 14h. 39m. 56s. Epicentre 15°·64N. 120°·33E.

A = -0.4865, B = +0.8316, C = +0.2679; $\delta = +1$; h = +6;
D = +0.863, E = +0.505; G = -0.135, H = +0.231, K = -0.963.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Baguio City	0.8	17	i 0 17	+1 _g	i 0 26	0 _g	—	—
Manila	1.2	149	i 0 27	+3	—	—	—	—
Hengchun	6.3	4	e 1 39	+2	e 3 13	+2*	—	—
Tawu	6.7	4	i 1 44	+2	—	—	—	—
Hsinkong	7.5	7	e 1 57	+4	—	—	—	—
Alishan	7.8	3	e 1 16	-42	e 2 58	-31	—	—
Hwaiien	8.4	8	e 2 8	+3	e 3 54	+12	—	—
Taichung	8.5	2	e 2 16	+9	—	—	—	—
Hong Kong	8.8	320	e 2 9 _a	-3	3 33	-20	—	—
Ilan	9.2	8	e 2 16	-1	e 4 16	+14	—	—
Taipei	9.4	7	e 2 26	+6	4 56	+13*	—	—
Canton	10.0	319	e 2 30 _a	+3	—	—	—	—
Zô-Sè	15.4	3	i 3 39 _a	-1	6 49	+17	—	—
Nanking	16.4	355	e 3 52 _a	-1	7 8	+13	—	—
Hukuoka	20.1	25	e 4 35	-2	—	—	—	—
Sian	21.2	333	e 4 51	+2	e 8 47	+6	—	—
Koti	21.5	31	e 4 52	0	—	—	—	—
Takamatu	22.3	31	e 5 1	0	e 9 6	+4	—	—
Taiyuan	23.1	344	e 5 10	+2	—	—	—	—
Kyoto	23.7	33	e 5 10 _a	-4	—	—	—	—
Peking	24.6	352	e 5 24	+2	—	—	—	—
Kwanting	24.8	351	e 5 30	+5	—	—	—	—
Djakarta	25.5	213	e 5 34 _k	+3	e 10 17	+20	—	—
Matusiro	26.2	34	i 5 34	-4	10 10	+1	e 7 4	? 11.6
Maebasi	26.6	35	e 5 42	0	—	—	—	—
Shillong	z. 28.4	295	i 5 55	-3	e 10 41	-3	—	—
Sendai	28.9	35	e 6 1	-2	—	—	—	—
Chatra	z. 32.8	295	i 6 36	0	—	—	i 7 5	? 11.6
Rabaul	z. 37.2	119	e 7 14	0	—	—	i 7 52	? 11.6
Irkutsk	38.7	344	e 7 25	-2	—	—	—	—
Colombo	E. 40.6	262	8 3	+21	e 13 55	+2	—	—
Dehra Dun	41.3	298	e 7 50	+1	i 13 59	-5	i 17 50	SSS e 23.0
Poona	44.4	281	i 8 15	+1	e 14 41	-8	—	—
Bombay	45.4	281	e 8 22	0	e 15 4	+1	—	—
Frunse	47.5	314	8 37	-1	15 34	0	—	—

Continued on next page.

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1956

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	Δ	Az.	P.		O - C.	S.		O - C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Namangan	48.9	311	8	50	0	e 15	53	0	—	—	—
Quetta	50.8	296	e 9	3 _a	- 1	i 16	19	- 1	i 10	23	PcP
Brisbane	53.3	143	i 9	21	- 2	—	—	—	i 10	2	?
Tiksi	56.2	3	9	40	- 4	—	—	—	—	—	—
Riverview	57.3	150	i 9	56 _a	+ 4	e 17	57	+10	—	—	e 28.9
Melbourne	58.0	157	e 9	55	- 2	e 18	19	+22	—	—	e 28.4
Sverdlovsk	60.6	327	10	13	- 2	18	27	- 3	—	—	—
Tifis	69.0	309	11	10	+ 1	—	—	—	—	—	—
Moscow	73.1	324	11	32	- 2	—	—	—	—	—	—
Apatity	74.5	336	i 11	39	- 3	—	—	—	—	—	—
College	76.8	26	i 11	51	- 4	—	—	—	i 14	49	PP
Ksara	76.9	302	i 11	57	+ 1	e 21	54	+11	e 22	36	PPS
Sodankyla	77.1	337	i 11	54	- 3	—	—	—	i 12	18	PcP
Safed	77.4	301	i 11	59	+ 1	—	—	—	—	—	—
Jerusalem	77.9	300	i 12	1	0	—	—	—	12	7	PcP
Kiruna	79.3	338	i 12	7 _a	- 2	—	—	—	i 12	31	PcP
Tananarive	79.4	247	e 12	10	+ 1	—	—	—	—	—	—
Lwow	82.2	320	i 12	22	- 2	—	—	—	—	—	—
Upsala	82.9	330	i 12	25 _a	- 2	—	—	—	12	44	PcP
Skalstugan	83.9	335	i 12	30 _a	- 3	—	—	—	—	—	—
Sofia	84.6	313	i 12	36	0	—	—	—	—	—	—
Athens	85.6	308	e 12	40	- 1	—	—	—	—	—	—
Raciborz	85.7	321	i 12	42	0	—	—	—	—	—	—
Bratislava	87.0	319	i 12	48	0	—	—	—	i 15	52	PP
Resolute	87.2	9	i 12	47 _k	- 2	e 23	27	- 1	—	—	e 52.3
Prague	88.0	322	e 12	53	0	e 15	32	PP	e 13	16	PcP
Jena	89.3	323	e 12	58	- 1	—	—	—	e 16	36	PP
Witteveen	z. 91.2	326	e 13	8	0	—	—	—	—	—	—
Astrida	91.3	268	e 13	11	+ 3	—	—	—	—	—	—
Messina	91.6	310	e 13	10	0	e 30	29	SS	e 13	40	? e 48.4
Stuttgart	z. 91.6	322	e 13	9	- 1	—	—	—	e 16	49	PP
Ebingen	z. 92.0	321	e 13	10	- 2	—	—	—	e 13	13	PcP
Lwiro	92.1	268	e 13	17	+ 5	—	—	—	—	—	—
Florence	z. 92.5	317	e 13	13	- 1	—	—	—	e 16	44	PP
Strasbourg	92.6	322	i 13	14	0	—	—	—	e 13	19	PcP
Basle	93.2	321	e 13	18	+ 1	—	—	—	—	—	—
Horseshoe Bay	94.4	36	e 13	22	- 1	—	—	—	—	—	—
Paris	95.5	324	e 13	28	0	—	—	—	e 13	32	PcP
Pretoria	z. 98.5	246	e 13	45	+ 3	—	—	—	—	—	—
Shasta	99.3	43	e 13	45	0	—	—	—	e 17	47	PP
Mineral	100.0	43	e 13	49	+ 1	—	—	—	—	—	—
Hungry Horse	100.1	33	e 13	49	0	—	—	—	—	—	—
Algiers Univ.	z. 101.2	313	e 13	51	- 3	—	—	—	e 17	59	PP
Lick	101.5	46	e 14	1	+ 6	—	—	—	e 18	0	PP
Eureka	104.1	42	e 14	7	0	—	—	—	e 18	19	PP
Woody	z. 104.2	46	e 18	22	PP	—	—	—	—	—	—
Isabella	z. 104.5	46	e 18	31	PP	—	—	—	—	—	—
Pasadena	105.5	47	e 18	48	PP	i 28	56	PPS	i 33	22	SS
Tamanrasset	z. 105.7	300	e 14	14	+ 1	—	—	—	e 18	37	PP
Salt Lake City	105.9	39	e 18	33	PP	—	—	—	—	—	—
Riverside	z. 106.2	47	e 18	39	PP	—	—	—	—	—	—
Boulder City	106.8	44	e 17	48	PP	—	—	—	—	—	—
Palomar	z. 106.9	47	e 18	43	PP	—	—	—	—	—	—
Barratt	z. 107.4	48	e 18	45	PP	—	—	—	—	—	—
Rapid City	E. 108.5	32	e 18	58	PP	—	—	—	—	—	—
Tucson	111.7	45	e 19	15	PP	—	—	—	—	—	—
San Juan	145.6	11	i 19	39	[- 1]	—	—	—	—	—	—
Huancayo	z. 164.4	79	e 20	9	[+ 4]	—	—	—	—	—	—
La Paz	171.8	97	20	20	[+10]	—	—	—	i 25	32	PP

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1956

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Nov. 11d. 19h. 15m. 28s. Epicentre 44°·49N. 148°·72E. Depth of focus = 0·003R.

A = -0·6117, B = +0·3716, C = +0·6984; $\delta = +3$; $h = -3$;
D = +0·519, E = +0·855; G = -0·597, H = +0·363, K = -0·716.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Kurilsk	0·9	321	i 0 18	0	—	—	—	—
Nemuro	2·5	244	e 0 38k	- 2	e 1 7	- 3	—	—
Abashiri	3·2	263	e 0 49	- 1	e 1 28	+ 1	e 1 56	SS
Kusiro	3·5	246	i 0 53	0	i 1 33	- 1	—	—
Obihiro	4·3	250	e 1 4	- 1	e 1 47	- 7	e 1 20	PP
Asahigawa	4·6	263	e 1 13	+ 4	e 2 7	+ 5	—	—
Yuzno-Sakhlinsk	4·9	302	i 1 13k	0	i 2 10	+ 1	—	—
Urakawa	4·9	244	e 1 16	+ 3	e 2 7	- 3	i 1 27	PP
Wakkanai	N. 5·1	283	—	—	e 2 15	0	—	—
Sapporo	5·5	258	i 1 24k	+ 2	i 2 25	0	1 36	PP
Tomakomai	5·5	252	e 1 25	+ 3	e 2 27	+ 1	—	—
Muroran	6·0	252	e 1 31	+ 2	e 2 37	- 1	—	—
Suttsu	6·4	258	e 1 37	+ 3	e 2 23	+ 7	—	—
Mori	6·4	251	1 32	- 2	2 43	- 4	2 33	S
Ulegorsk	6·5	317	i 1 37a	+ 2	i 2 50	+ 1	—	—
Hatinohe	6·6	236	e 1 34	- 3	e 2 44	- 8	—	—
Aomori	6·9	241	e 1 40	- 1	e 2 58	- 1	—	—
Miyako	7·0	228	e 1 38	- 4	e 2 50	-11	—	—
Morioka	7·4	232	e 1 44	- 4	e 3 1	-10	—	—
Mizusawa	7·8	229	1 49	- 4	e 3 12	- 9	—	—
Akita	8·0	236	e 1 55	- 1	e 3 21	- 5	—	—
Isinomaki	8·2	225	e 1 55	- 4	e 3 22	-10	—	—
Sendai	E. 8·5	226	e 2 0	- 4	e 3 30	-10	—	—
Sakata	8·7	233	e 2 10	+ 4	—	—	—	—
Yamagata	8·8	228	—	—	e 3 37	- 9	—	—
Hokusima	9·2	226	e 2 14	+ 2	3 46	- 9	—	—
Onahama	9·6	221	e 2 13	- 5	i 3 55	-10	—	—
Shirakawa	9·8	224	e 2 26	+ 5	e 3 57	-13	—	—
Aikawa	10·2	234	—	—	e 3 43	-37	—	—
Mito	10·3	221	e 2 29	+ 2	e 4 10	-12	—	—
Utunomiya	10·4	223	e 2 26	- 3	e 4 26	0	e 4 45	SS
Kakioka	Z. 10·5	221	e 2 26	- 5	4 14	-14	—	e 5·0
Petropavlovsk	10·8	34	e 2 37	+ 2	—	—	—	—
Maebasi	10·9	226	e 2 34	- 2	e 4 30	- 8	e 2 56	PPP
Kumagaya	11·0	224	e 2 38	+ 1	e 4 32	- 7	—	e 5·6
Tokyo	11·2	221	2 35	- 4	e 4 30	-14	—	—
Nagano	11·2	229	2 41	+ 1	e 5 52	+68	—	—
Titibu	11·2	224	—	—	e 4 36	-10	—	—
Oiwake	11·2	227	e 2 43	+ 2	—	—	—	—
Matusiro	11·2	229	i 2 37k	- 4	e 4 46	0	i 2 45	PP
Yokohama	11·4	221	e 2 37	- 6	e 4 45	- 5	—	e 6·2
Matumoto	E. 11·6	228	e 2 48	+ 2	—	—	—	—
Mera	E. 11·7	219	—	—	e 4 46	-12	—	—
Kohu	11·8	225	e 2 50	+ 2	e 4 46	-13	—	—
Hunatu	11·8	224	—	—	e 4 52	- 7	—	—
Misima	12·0	222	e 2 50	- 1	e 5 5	+ 1	e 4 52	?
Osima	N. 12·1	220	—	—	e 4 54	-12	—	—
Vladivostok	12·2	269	e 2 53	- 1	e 5 11	+ 1	—	—
Gihu	12·9	229	e 3 1	- 2	—	—	—	—
Nagoya	E. 13·0	228	e 3 29	+25	e 5 34	+ 7	—	—
Hikone	13·3	230	3 7	- 1	—	—	—	—
Kameyama	Z. 13·5	228	e 3 16	+ 6	—	—	—	—
Klyuchi	14·1	28	e 3 18	0	—	—	—	—
Tokusima	15·1	231	e 3 38	+ 7	—	—	—	—
Magadan	15·1	4	e 3 28	- 4	—	—	—	—
Takamatu	15·2	233	e 3 37	+ 4	—	—	e 5 44	?
Changchun	16·8	276	e 3 54	+ 1	e 6 56	- 1	—	—
Peking	24·4	271	i 5 14a	- 1	9 33	+ 5	10 33	SS
Kwanting	24·7	272	e 5 19	+ 1	—	—	—	—
Zò-Sè	25·4	248	e 5 25	+ 1	e 9 49	+ 4	—	—

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1956

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		^e	^e	m. s.	s.	m. s.	s.	m. s.	m.
Nanking		26.4	252	e 5 33	- 1	e 10 2	+ 1	—	—
Tiksi		28.9	347	e 7 0	PP	e 12 45	SSS	—	—
Irkutsk		30.1	301	e 6 6	- 1	—	—	e 7 3?	PP
Hong Kong	z.	36.0	243	e 6 59?	+ 1	—	—	—	—
Baguio City		36.7	229	i 6 42	-22	—	—	—	—
College		39.8	37	i 7 31	+ 1	e 13 33	+ 3	—	—
Semipalatinsk		45.2	303	e 8 14	0	—	—	—	—
Rabaul	z.	48.6	175	e 8 40	0	—	—	i 8 56	pP
Shillong	z.	49.2	267	e 8 45	0	—	—	—	—
Frunse		51.9	296	i 9 5	0	e 16 25	+ 2	—	—
Sverdlovsk		53.4	317	9 16	- 1	—	—	—	—
Resolute		53.9	17	i 10 18 _a	PcP	—	—	e 16 15	? e 27.8
Tashkent		56.1	297	i 9 35	- 1	—	—	—	—
Dehra Dun		56.2	281	e 9 36	- 1	—	—	—	—
Horseshoe Bay		57.0	51	i 9 42	- 1	—	—	—	—
Victoria		57.4	52	i 9 46	+ 1	—	—	—	—
Stalinabad		57.9	294	i 9 50	+ 1	—	—	—	—
Corvallis		59.6	56	i 10 2	+ 1	—	—	—	—
Sodankyla		60.2	338	i 10 2	- 3	—	—	i 10 49	PcP
Kiruna		61.5	340	i 10 11	- 3	—	—	—	—
Shasta		62.3	59	e 10 20	+ 1	—	—	i 10 33	pP
Hungry Horse		62.6	48	e 10 21	0	—	—	—	—
Mineral		63.0	59	e 10 27	+ 3	—	—	—	—
Quetta		64.0	288	e 10 30 _a	- 1	e 18 58	- 3	e 10 48	pP
Berkeley		64.1	62	i 10 31	0	—	—	e 10 45	pP
Moscow		64.5	324	e 10 33	- 1	—	—	—	—
Reno		64.6	59	e 10 35	+ 1	—	—	e 10 49	pP
Butte	N.	64.8	50	i 10 36	0	—	—	i 11 9	PcP
Lick		64.8	62	i 10 36	0	—	—	—	—
Ashkabad		64.9	299	10 34	- 2	e 19 12	0	—	—
Scoresby Sund	z.	65.1	357	e 10 37	- 1	—	—	—	—
Fresno		66.3	61	e 10 46	+ 1	—	—	—	—
Poona	z.	66.6	273	i 10 47	0	—	—	—	—
Skalstugan		66.9	340	i 10 47	- 2	—	—	—	—
Eureka		67.0	57	i 10 50	0	—	—	i 11 2	pP
Bombay	E.	67.0	274	—	—	e 19 37	- 1	—	—
Woody	z.	67.6	62	i 10 53	0	—	—	i 11 7	pP
Isabella	z.	67.9	61	i 10 55 _k	0	—	—	i 11 8	pP
Upsala		68.6	336	i 10 58 _a	- 1	—	—	i 11 23	PcP
Salt Lake City		68.6	54	e 11 0	+ 1	—	—	—	—
Pasadena		69.0	62	i 11 2 _k	0	—	—	i 11 16	pP e 32.2
Riverside	z.	69.6	62	i 11 5	- 1	—	—	i 11 19	pP
Boulder City		69.9	59	i 11 8	0	—	—	i 11 19	pP
Kirovobad		70.3	308	i 11 10	0	—	—	—	—
Palomar		70.4	62	i 11 12 _k	+ 2	—	—	i 11 26	pP
Tiflis		70.5	310	i 11 12	+ 1	e 20 22	+ 3	—	—
Hayfield	N.	70.9	61	i 11 14	0	—	—	i 11 23	pP
Barratt	z.	70.9	63	i 11 13 _k	- 1	—	—	i 11 27	pP
Rapid City	E.	71.1	46	i 11 15	0	—	—	—	—
Goris		71.1	307	e 11 15	0	e 20 31	+ 5	—	—
Brisbane		71.7	176	e 11 38	+19	—	—	—	—
Copenhagen	z.	73.6	336	i 11 29	- 1	—	—	—	—
Simferopol		73.7	318	i 11 30 _a	0	—	—	—	—
Lwow		74.4	326	i 11 34	0	—	—	e 11 53	PcP
Tucson		74.9	60	i 11 38	+ 1	—	—	—	—
Krakow		75.8	329	i 11 42	0	e 12 6	sP	e 11 48	PcP
Hamburg	z.	76.1	336	i 11 45 _a	+ 1	—	—	—	—
Raciborz	z.	76.4	330	i 11 46	0	—	—	—	—
Witteveen		77.7	337	i 11 55 _k	+ 2	—	—	—	—
Prague		77.8	332	i 11 53	0	—	—	12 6	PcP
Jena		77.9	334	i 11 54	0	—	—	12 6	pP
Kirkland Lake	z.	78.3	31	e 11 55 _a	- 1	—	—	—	—
Bratislava		78.4	329	i 11 57	0	—	—	i 13 15	?
Cheb		78.4	333	i 11 56 _k	- 1	i 14 50	PP	i 12 14	pP
Belgrade		79.9	325	i 12 4 _a	- 1	e 22 4	+ 1	e 12 35	PcP

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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		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Rathfarnham C.	z.	80.3	345	i 12	7k	0	—	—	—	—	—	—
Sofia		80.4	322	i 12	7	-1	—	—	—	—	—	—
Stuttgart	z.	80.6	334	i 12	8a	-1	i 12	12	PcP	e 12	21	pP
Karlsruhe	z.	80.6	335	e 12	10a	+1	—	—	—	i 12	20	PcP
Kew		80.7	341	i 12	9a	0	—	—	—	e 14	32?	PP
Tubingen		80.8	334	e 12	10	0	—	—	—	—	—	—
Ksara		81.0	309	i 12	11	0	—	—	—	—	—	47.5
Ebingen	z.	81.2	334	i 12	12a	0	—	—	—	e 12	23	pP
Strasbourg		81.2	335	i 12	12a	0	e 12	40	sP	e 12	24	pP
Fayetteville		81.6	47	i 12	15k	+1	—	—	—	e 12	27	pP
Triest		81.8	330	i 12	12a	-3	—	—	—	e 19	0	?
Safed		81.9	309	i 12	17	+2	—	—	—	i 12	30	pP
Melbourne	z.	82.0	183	i 12	18	+2	i 12	38	sP	i 12	32	pP
Basle		82.2	335	e 12	17k	0	e 22	18	-9	—	—	—
Ottawa		82.2	30	i 12	16	-1	—	—	—	—	—	—
Shawinigan Falls		82.2	27	e 12	17	0	—	—	—	—	—	—
Seven Falls		82.3	26	e 11	30?	-48	—	—	—	—	—	—
Paris		82.5	338	i 12	19	+1	—	—	—	i 12	38	pP
Brébeuf		82.8	28	i 12	20k	0	—	—	—	—	—	e 49.5
Neuchatel		82.9	335	e 12	20	0	—	—	—	—	—	—
Besançon		82.9	335	i 12	20	-1	—	—	—	e 12	46	sP
Jerusalem		82.9	308	i 12	22	+1	—	—	—	i 12	48	sP
Florence		84.3	330	i 12	27a	-1	e 22	54	+6	i 12	51	sP
Clermont-Ferrand		85.1	337	i 12	33	+1	—	—	—	—	—	—
Monaco		85.6	333	e 12	34a	0	—	—	—	e 13	1	sP
Halifax		86.7	22	i 12	40k	0	—	—	—	—	—	—
Chapel Hill		89.0	37	i 12	52	+1	—	—	—	e 13	4	pP
Columbia		89.7	39	i 12	54	0	—	—	—	—	—	—
Algiers Univ.	z.	93.3	333	e 13	8	-3	—	—	—	—	—	—
Relizane		95.1	205	e 13	18	+1	—	—	—	e 14	6	PcP
Tamanrasset	z.	105.1	325	e 14	5	P	e 18	21	PP	e 29	44	PKKP
Astrida		112.2	289	e 14	19	P	—	—	—	—	—	—
Huancayo	z.	130.4	63	e 19	6	[+ 1]	e 22	50	PKS	22	26	SKP
Santa Lucia	z.	147.7	84	i 19	40	[+ 4]	—	—	—	i 19	52	pP'

Nov. 13d. 9h. 55m. 29s. Epicentre 48°·74S. 123°·39E.

A = -0.3643, B = +0.5528, C = -0.7495; $\delta = +5$; $h = -5$;
D = +0.835, E = +0.550; G = +0.412, H = -0.626, K = -0.662.

		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Perth		17.7	338	i 4	13	+4	7	34	+8	i 8	49	PcP
Melbourne		19.1	63	i 4	26	0	i 8	3	+7	i 4	45	PP
Macquarie IIs.	z.	22.6	118	i 5	9	+5	—	—	—	—	—	i 9.3
Riverview		25.4	64	i 5	30k	-1	e 9	58	+2	i 6	13	PP
Brisbane		31.2	58	i 6	22	-1	i 11	30	+1	—	—	e 11.9
Nouméa		43.1	68	i 8	2	-1	—	—	—	—	—	—
Djakarta		44.7	336	e 8	17a	+1	e 14	53	-1	—	—	—
Rabaul	z.	50.7	38	e 9	1	-2	—	—	—	i 9	1	?
Tananarive		66.7	267	e 10	50	-5	—	—	—	—	—	—
Colombo	e.	67.2	312	—	—	—	e 19	53	PS	e 28	21	?
Hong Kong		71.2	351	i 11	23	+1	e 20	46?	+7	—	—	—
Canton		72.1	350	e 11	29	+1	e 20	55	+6	—	—	—
Kimberley	z.	74.2	244	i 11	39k	-1	—	—	—	—	—	—
Pretoria	z.	74.4	249	e 11	39	-2	—	—	—	—	—	—
Shillong	z.	79.2	331	e 12	1	-7	—	—	—	—	—	—
Zé-Sè		79.5	358	i 12	10a	0	e 22	14	+3	e 12	23	PcP
Poona		80.2	313	i 12	14	+1	e 22	23	+5	—	—	—
Nanking		80.5	356	i 12	16a	+1	e 22	22	0	—	—	—
Bombay		81.0	312	e 12	19	+1	e 28	4	SS	e 24	41	?
Matusiro		85.9	12	i 12	43a	0	23	10	-6	e 28	20	SS

Continued on next page.

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Nov. 13d. 14h. 38m 53s. Epicentre 15°·16N. 122°·80E.

A = -0.5231, B = +0.8117, C = +0.2599; $\delta = +4$; $h = +6$;
D = +0.841, E = +0.542; G = -0.141, H = +0.218, K = -0.966.

	Δ	Az.	P		O-C	S		O-C	Supp		L
	°	°	m	s	s	m	s.	s.	m.	s.	m.
Manila	1.8	252	i 0	36	0 _g	—	—	—	—	—	—
Baguio City	2.5	301	i 0	44	- 1*	i 1	27	+ 4 _g	—	—	—
Hong Kong	10.8	312	e 2	37	- 3	—	—	—	—	—	—
ZO-Sè	15.9	355	e 3	52	+ 5	e 6	53	+ 8	—	—	—
Nanking	17.2	348	e 4	6	+ 2	e 7	20	+ 6	—	—	—
Sian	22.8	329	e 5	10	+ 5	e 9	16	+ 6	—	—	—
Matusiro	25.3	30	i 5	27	- 3	e 9	55	0	e 9	15	PcP
Peking	25.4	348	e 5	31	0	—	—	—	—	—	e 10.6
Shillong	z. 30.7	295	i 6	18 _a	- 1	—	—	—	—	—	—
Rabaul	z. 34.9	121	i 6	53	- 2	—	—	—	—	—	—
Chatra	z. 35.1	295	i 6	56	- 1	—	—	—	—	—	—
Poona	z. 46.9	281	i 8	34	0	—	—	—	—	—	—
Namangan	51.0	311	e 9	3	- 3	—	—	—	—	—	—
Brisbane	51.5	145	i 9	7	- 3	—	—	—	i 9	16	?
Quetta	53.2	296	e 9	22	0	e 16	51	- 1	—	—	—
Melbourne	56.7	159	e 9	54	+ 6	—	—	—	e 12	6	PP
Sverdlovsk	62.3	327	i 10	25	- 2	—	—	—	—	—	e 23.8
Moscow	74.9	324	i 11	42	- 3	—	—	—	—	—	—
College	76.1	26	i 11	48	- 4	—	—	—	—	—	—
Sodankyla	78.5	337	i 12	4	- 1	—	—	—	—	—	—
Jerusalem	80.2	300	i 12	14	0	—	—	—	i 12	24	PcP
Kiruna	80.7	338	i 12	14	- 3	—	—	—	—	—	—
Tananarive	81.4	248	e 12	21	0	—	—	—	i 12	30	PcP
Upsala	84.4	331	i 12	34 _a	- 2	—	—	—	—	—	—
Skalstugan	85.3	335	i 12	39	- 2	—	—	—	—	—	—
Resolute	87.3	9	i 12	48 _a	- 2	—	—	—	—	—	—
Copenhagen	88.6	328	—	—	—	e 23	37	- 5	—	—	47.1
Hungry Horse	99.1	34	e 13	54	+ 9	—	—	—	—	—	—
Eureka	102.9	43	e 14	8	+ 6	—	—	—	—	—	—
Tamanrasset	z. 108.0	300	e 18	28	[- 1]	—	—	—	—	—	—
La Paz	169.4	99	e 21	35	PKP ₂	—	—	—	—	—	—

Nov. 14d. 0h. 51m. 28s. Epicentre 36°·67N. 71°·10E. Depth of focus = 0.008R.

A = +0.2605, B = +0.7607, C = +0.5946; $\delta = +7$; $h = 0$;
D = +0.946, E = -0.324; G = +0.193, H = +0.563, K = -0.804.

	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Khorog	0.9	26	i 0	21	+ 2	0	32	- 2	—	—	—
Kulyab	1.6	320	i 0	30	+ 2	—	—	—	—	—	—
Obi-garm	2.3	332	0	37	0	—	—	—	—	—	—
Garm	2.4	345	i 0	38	- 1	i 1	6	- 1	—	—	—
Dzhergetal	2.5	2	0	42	+ 1	—	—	—	—	—	—
Stalinabad	2.6	316	i 0	41	- 1	1	9	- 4	—	—	—
Khorongon	2.7	318	i 0	43	0	i 1	20	+ 5	—	—	—
Murgab	2.8	52	i 0	48	+ 4	—	—	—	—	—	—
Fergana	3.7	8	i 0	58	+ 1	—	—	—	—	—	—
Andijan	4.2	13	i 1	4	+ 1	1	36	- 16	—	—	—
Namangan	4.3	6	i 1	5	0	—	—	—	—	—	—
Samarkand	4.4	314	i 1	5	- 1	—	—	—	—	—	—
Tchimkent	5.7	349	i 1	22	- 3	—	—	—	—	—	—
Lahore	5.8	151	1	25	0	2	22	- 9	—	—	—
Naryn	6.1	37	i 1	29	- 1	i 3	7	SS	i 1	34	PP
Frunse	6.8	22	i 1	38	- 1	i 2	50	- 5	—	—	—
Rybach'e	6.9	32	—	—	—	i 3	41	+ 42	—	—	—
Bairam-Ali	7.2	280	i 1	41	- 4	i 2	48	- 19	—	—	—
Quetta	7.3	209	i 1	48	+ 1	i 3	7	- 2	i 2	22	sP
Fabrichnaya	7.7	30	i 1	50	- 1	i 3	19	+ 2	—	—	—

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Almata	8.0	32	i 1	56	0	i 3	24	- 1	i 2	28	sP	—
Almata II	8.2	34	i 1	57	- 1	—	—	—	—	—	—	—
Kurmenty	8.4	39	e 2	1	- 1	—	—	—	—	—	—	—
Dehra Dun	8.6	135	e 2	4	0	i 3	37	- 3	2	18	PP	3.9
New Delhi	N. 9.6	146	i 2	15k	- 2	i 3	59	- 5	2	34	PP	—
Ashkabad	10.2	281	i 2	22 _a	- 4	4	10	-10	—	—	—	—
Semipalatinsk	15.2	23	i 2	29	-63	e 5	8	-69	—	—	—	—
Chatra	16.8	121	i 3	44	- 8	i 6	42	-12	—	—	—	—
Bombay	17.8	175	e 4	6	+ 3	e 7	14	- 2	4	25	PP	—
Bokaro	18.0	131	i 4	7	+ 1	i 7	15	- 6	4	27	PP	8.0
Poona	18.2	172	i 4	9k	0	i 7	34	+ 8	4	37	PPP	—
Makhach-Kala	19.2	296	i 4	18	- 2	e 7	46	- 1	—	—	—	—
Goris	19.7	286	i 4	24	- 1	i 7	56	- 1	—	—	—	—
Kirovobad	19.7	289	4	25	0	7	52	- 6	—	—	—	—
Hyderabad	E. 20.2	159	e 5	3	PPP	e 8	18	+10	—	—	—	—
Yumen	20.6	72	e 4	35	0	—	—	—	—	—	—	—
Shillong	20.9	116	i 4	38 _a	0	i 8	25	+ 4	5	8	PP	—
Tifis	21.0	292	i 4	40	+ 2	i 8	30	+ 8	i 5	14	PP	—
Sverdlovsk	21.4	344	i 4	41	- 1	8	30	0	i 5	16	PP	—
Leninakan	21.6	289	e 4	51	+ 6	—	—	—	—	—	—	—
Changyeh	23.4	75	e 5	5	+ 3	—	—	—	—	—	—	—
Sotchi	24.9	296	i 5	18	+ 1	i 9	35	+ 3	5	42	pP	—
Madras	E. 24.9	159	e 5	21	+ 4	10	4	+32	5	56	pP	11.1
Kodaikanal	E. 26.9	166	e 6	23 _a	+47	11	5	+60	7	17	PP	13.7
Irkutsk	28.1	46	5	44	- 2	e 10	22	- 1	e 7	9	PPP	—
Ksara	28.8	275	i 5	59	+ 6	i 10	42	+ 7	i 6	59	PPP	—
Yalta	28.9	297	5	53	- 1	e 6	26	sP	e 6	37	PP	—
Simferopol	29.0	298	i 5	53 _a	- 1	e 10	36	- 2	e 6	36	PP	—
Kabansk	29.3	47	5	55	- 3	e 10	48	+ 4	e 11	55	SS	—
Moscow	29.6	329	i 5	58	- 2	e 10	41	- 5	6	19	pP	—
Jerusalem	29.9	271	i 6	4	+ 1	i 12	22	SS	—	—	—	—
Iasi	33.6	302	6	33	- 2	12	43	sS	7	47	PP	—
Bucharest	34.7	297	6	52	+ 8	12	18	+11	7	9	pP	—
Pulkovo	34.8	325	i 6	44	- 1	i 12	6	- 3	7	5	pP	—
Peking	35.2	70	e 6	47	- 2	e 12	17	+ 2	—	—	—	—
Lwow	36.1	306	i 6	57	+ 1	i 12	32	+ 3	i 8	16	PP	—
Sofia	36.8	295	i 7	3	+ 3	i 12	40	+ 4	—	—	—	—
Athens	37.4	287	e 7	10	+ 3	i 12	54	+ 6	—	—	—	—
Helsinki	37.5	324	e 7	7	- 1	e 12	46	- 4	e 8	38	PP	—
Apatity	37.5	337	i 7	8	0	i 12	48	- 2	i 15	23	SS	—
Warsaw	38.2	310	e 8	20	PP	e 15	47	SS	e 13	1	ScP	e 18.5
Belgrade	38.7	298	e 7	18 _a	0	e 13	24	+16	e 7	40	pP	—
Canton	38.7	98	7	19	+ 1	e 13	15	+ 7	e 7	52	pP	—
Krakow	38.8	307	e 7	19	+ 1	e 13	7	- 1	e 8	47	PP	—
Nanking	39.3	82	e 7	23	0	e 13	23	+ 5	8	1	pP	—
Sodankyla	39.6	335	i 7	25	0	i 13	23	+ 1	i 8	3	pP	—
Hong Kong	39.8	99	7	28 _a	+ 1	—	—	—	e 8	5	pP	—
Raciborz	39.9	307	e 7	21	- 7	e 13	18	- 8	e 9	20	PP	—
Hurbanovo	40.0	303	i 7	31 _a	+ 2	e 13	24	- 2	i 9	9	PP	—
Bratislava	40.7	304	i 7	35	+ 1	e 17	4	SS	i 8	2	pP	—
Upsala	41.0	322	i 7	36k	- 1	i 13	39	- 3	i 9	17	PP	—
Z6-S6	41.6	83	i 7	41	0	e 13	51	0	8	9	pP	—
Taranto	41.7	292	—	—	—	13	32?	-21	—	—	—	—
Kiruna	42.0	334	i 7	44k	- 1	e 13	36	-21	i 9	23	PP	—
Prague	42.3	307	i 7	48	0	i 13	59	- 3	e 8	32	pP	e 18.6
Triest	43.3	300	e 7	59	+ 4	i 14	12	- 4	i 9	22	PP	—
Copenhagen	43.4	315	i 7	57k	+ 1	i 14	19	+ 2	e 9	48	PP	21.5
Messina	43.6	289	i 7	55k	- 3	i 14	18	- 2	i 8	40	pP	—
Jena	44.1	308	i 8	1	- 1	e 14	53	+25	e 8	20	pP	—
Skalstugan	44.1	327	i 8	1k	- 1	i 9	46	PP	i 8	44	pP	—
Hamburg	44.9	312	i 8	9	+ 1	e 14	17	-21	e 9	54	PP	e 17.1
Rome	44.9	295	e 8	32	+23	e 14	41	+ 1	e 18	22	SS	—
Florence	45.4	298	i 8	15 _a	+ 3	i 14	54	+ 8	i 8	52	pP	—
Tiksi	45.6	22	e 8	13	- 1	e 14	47	- 2	e 8	36	pP	—
Stuttgart	45.9	306	i 8	16k	0	e 14	55	+ 2	e 8	38	pP	—

Continued on next page.

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		Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Tubingen		46.0	305	e 8 17	0	e 9 3	sP	e 8 38	pP	—
Ebingen	z.	46.1	305	i 8 18k	0	e 9 0	sP	e 8 41	pP	—
Vladivostok		46.2	62	i 8 16	- 3	e 14 56	- 2	—	—	—
Karlsruhe	z.	46.3	306	e 8 20k	0	e 10 48	PPP	e 8 36	pP	—
Pavia		46.5	301	—	—	e 15 10	+ 7	e 19 31	SSS	e 24.7
Strasbourg		46.8	305	i 8 23k	- 1	e 15 10	+ 3	i 9 58	PcP	—
Witteveen	z.	46.9	311	i 8 24	0	—	—	e 10 8	PP	—
Basle		47.1	304	e 8 25	- 1	e 15 11	0	—	—	—
Neuchatel		47.7	304	e 8 30	0	e 15 17	- 2	—	—	—
De Bilt		47.9	311	e 8 32	0	e 15 25	+ 3	e 8 59	pP	e 22.5
Baguio City		48.1	101	i 8 36	+ 3	—	—	—	—	—
Besançon		48.3	304	i 8 32	- 3	—	—	i 10 29	PP	—
Paris		50.2	307	i 8 50	0	e 15 58	+ 4	i 9 14	pP	—
Clermont-Ferrand		50.5	303	i 8 52	0	i 16 7	+ 8	e 19 32?	SS	—
Aberdeen		51.3	318	—	—	i 16 12	+ 3	e 11 4	PP	i 25.1
Kew		51.4	311	i 8 58k	- 1	e 16 10	0	e 9 47	pP	e 23.5
Durham		51.4	315	i 9 4	+ 5	i 16 6	- 5	i 9 41	pP	—
Yuzno-Sakhlinsk		52.6	55	e 9 7	- 1	e 16 37	+12	e 12 56	PPP	—
Matusiro		52.8	69	i 9 8a	- 2	e 16 29	- 1	9 52	pP	e 26.7
Jersey		53.0	308	e 7 55	-76	e 16 34	+ 3	e 14 2	ScP	—
Algiers Univ.	z.	53.4	292	e 9 10	- 4	—	—	e 9 34	pP	—
Rathfarnham C.	z.	54.5	314	i 11 22	PP	e 16 15	-37	i 9 58	pP	—
Astrida		54.8	234	e 9 26a	+ 2	—	—	e 9 51	pP	—
Lwiro		55.2	235	e 9 27a	0	—	—	e 10 26	PP	—
Uvira		55.9	234	e 9 29	- 3	—	—	e 9 55	pP	—
Scoresby Sund		56.9	336	e 9 43	+ 4	i 17 34	+ 9	e 10 6	pP	27.5
Toledo		57.4	298	i 9 42k	- 1	17 32?	0	i 10 7	pP	—
Tamanrasset	z.	57.6	276	e 9 43	- 1	e 17 35	+ 1	e 10 6	pP	—
Malaga		58.9	295	i 9 55k	+ 2	i 17 55	+ 4	—	—	—
Tananarive		59.6	206	e 9 52a	- 7	—	—	10 46	PcP	—
Resolute		68.5	356	i 10 56a	0	e 19 48	- 2	23 33	sS	—
Pretoria	z.	74.1	220	i 11 29k	0	—	—	—	—	—
College		74.3	16	i 11 28	- 2	i 14 11	PP	i 12 14	pP	—
Pietermaritzburg	z.	76.2	216	i 11 30a	-11	—	—	—	—	—
Kimberley	z.	78.3	220	i 11 48k	- 5	—	—	—	—	—
Grahamstown	z.	81.1	216	i 11 58	-10	—	—	—	—	—
Seven Falls		89.9	335	e 12 2?	-49	—	—	—	—	—
Shawinigan Falls		91.0	336	e 12 59	+ 2	—	—	13 27	pP	—
Kirkland Lake	z.	91.7	341	e 13 6a	+ 6	—	—	—	—	—
Banff		92.3	4	i 13 2	- 1	—	—	—	—	—
Ottawa		93.0	337	i 13 7	+ 1	—	—	—	—	—
Horseshoe Bay		93.4	9	e 13 7	0	—	—	—	—	—
Victoria		94.2	10	e 13 11	0	—	—	—	—	—
Hungry Horse		95.2	3	e 13 16	0	—	—	e 14 24	sP	—
Palisades		96.3	334	e 38 9	P'P'	i 23 45 [0]	—	e 31 12	SS	e 45.2
Butte	N.	97.6	3	e 13 28	+ 1	—	—	—	—	—
Rapid City	E.	99.5	356	e 13 36	+ 1	—	—	—	—	—
Morgantown		99.5	338	i 13 37	+ 2	—	—	—	—	—
Bermuda		99.8	323	—	—	i 24 10 [+ 7]	—	—	—	e 45.2
Shasta		102.0	10	e 16 56	?	—	—	e 18 1	PP	—
Mineral		102.5	10	e 18 0	PP	—	—	—	—	—
Eureka		103.9	6	e 13 57	+ 2	e 29 44	PKKP	e 38 4	P'P'	—
Fayetteville		106.3	348	e 18 24	PP	—	—	—	—	—
Woody	z.	107.4	8	e 18 21	[+ 3]	—	—	i 18 44	PP	—
Isabella	z.	107.5	8	e 18 24	[+ 6]	—	—	e 18 49	PP	—
Boulder City		107.5	5	e 14 17	+12	—	—	—	—	—
King Ranch	z.	107.7	9	e 18 45	PP	—	—	e 19 0	PP	—
Pasadena		109.0	8	e 18 22	[+ 2]	i 28 4	PS	i 18 55	PP	e 50.8
Riverside	z.	109.3	7	e 18 23	[+ 3]	—	—	e 19 8	PP	—
Hayfield	N.	109.7	6	e 19 8	PP	—	—	—	—	—
Palomar	z.	109.9	7	e 18 25	[+ 3]	e 19 25	PP	e 18 50	pP'	—
Barratt	z.	110.6	7	e 18 27	[+ 4]	—	—	—	—	—
Tucson		111.4	2	e 18 27	[+ 2]	e 30 28	PKKP	e 17 30	?	—
Tacubaya		123.5	349	—	—	e 22 24	PKS	—	—	—
La Paz		138.8	288	e 19 22	[+ 5]	e 22 42	SKP	—	—	—
Huancayo	z.	141.1	300	i 19 25a	[+ 4]	e 22 51	PKS	e 20 22	?	—
Santa Lucia	z.	148.7	264	i 19 34	[0]	—	—	—	—	—

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1956

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Nov. 16d. 8h. 48m. 13s. Epicentre 4°·04S. 139°·06E. Depth of focus = 0·012R.

A = -0·7535, B = +0·6537, C = -0·0700; $\delta = -1$; $h = +7$;
D = +0·655, E = +0·755; G = +0·053, H = -0·046, K = -0·998.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Rabaul	z.	13·1	91	i 3 2	- 1	—	—	i 3 12	PP	—
Guam		18·3	18	i 4 6	- 2	—	—	—	—	—
Brisbane		26·8	152	i 5 32	0	i 10 45	+46	—	—	—
Baguio City		27·3	318	i 5 38	+ 1	—	—	6 22	PP	—
Riverview		31·7	161	e 6 43	pP	i 11 19	+ 3	e 6 43	PP	14·4
Djakarta		32·2	265	e 6 25	+ 5	e 11 4	-19	—	—	—
Melbourne		34·1	177	i 6 36	0	e 12 41	+48	7 0	pP	—
Perth		35·3	215	i 8 38	PPP	i 17 12	ScS	i 13 59	i	—
Kyoto		39·0	356	7 25k	+ 8	—	—	—	—	—
Matusiro		40·4	359	i 7 27k	- 2	i 13 26	- 3	8 40	sP	e 25·6
Vladivostok		47·4	353	8 24	- 1	—	—	—	—	—
Tual	N.	48·9	140	e 9 10	pP	—	—	—	—	—
Wellington		49·0	144	e 9 3	pP	e 16 17?	PS	—	—	—
Apia		49·4	105	9 11	pP	e 9 34	sP	—	—	—
Macquaries Is.	z.	52·8	166	i 9 33	pP	—	—	—	—	—
Shillong	z.	54·4	305	i 9 15	- 3	—	—	—	—	—
Irkutsk		63·3	337	e 10 19	- 1	—	—	—	—	—
Honolulu		66·7	64	i 10 40	- 1	—	—	—	—	—
Dehra Dun		67·5	305	e 10 52	+ 6	i 19 31	- 1	—	—	—
Poona		68·0	292	i 10 47	- 3	e 20 27	sS	—	—	—
Bombay		69·0	292	e 11 25	pP	e 20 41	sS	e 13 55	PP	—
Quetta		76·7	302	e 11 40k	- 1	i 21 17	0	i 12 8	pP	—
College		86·5	24	i 12 30	- 2	i 13 14	sP	i 13 4	pP	—
Sverdlovsk		87·0	327	e 12 33	- 2	—	—	—	—	—
Tananarive		90·1	251	13 19	pP	—	—	13 40	pP	—
Horseshoe Bay		98·0	41	i 13 25	0	—	—	—	—	—
Shasta		99·1	50	i 13 31	+ 1	e 17 31	PP	i 14 4	pP	—
Berkeley		99·3	52	i 13 32 _a	+ 1	—	—	—	—	—
Mineral		99·7	50	e 13 33	0	—	—	—	—	—
Lick		99·8	53	e 13 34k	+ 1	—	—	—	—	—
King Ranch	z.	101·5	55	e 18 22	PP	—	—	—	—	—
Sodankyla		102·2	338	i 13 31	-13	—	—	i 13 46	PcP	—
Pasadena	z.	102·8	56	e 13 48	+ 1	e 17 59	PP	e 14 20	pP	—
Resolute		102·9	13	e 13 45	- 2	—	—	e 17 56	PP	—
Riverside	z.	103·5	56	e 13 50	0	e 18 8	PP	e 14 21	pP	—
Jerusalem		103·9	302	e 17 54	PP	—	—	—	—	—
Palomar		104·0	57	e 13 53	+ 1	e 18 18	PP	e 14 39	sP	—
Eureka		104·1	50	i 13 53	+ 1	i 18 8	PP	i 14 27	pP	—
Barratt	z.	104·2	57	e 13 53	0	e 18 11	PP	e 14 27	pP	—
Hungry Horse		104·2	41	e 13 53	0	—	—	e 18 5	PP	—
Kiruna		104·2	340	i 13 51 _a	- 2	—	—	—	—	—
Hayfield	N.	105·0	56	e 18 59	PP	—	—	—	—	—
Boulder City		105·4	54	e 13 56	- 1	—	—	—	—	—
Butte	N.	105·6	43	e 18 12	[+ 2]	—	—	—	—	—
Rapid City	E.	112·5	44	e 18 55	[+ 32]	—	—	—	—	—
Stuttgart	z.	118·4	325	e 18 34	[- 1]	e 20 38	PP	e 19 7	pP'	—
Algiers Univ.	z.	128·2	315	e 19 16	[+ 22]	—	—	e 21 39	PP	—
Morgantown		130·0	39	i 18 58	[+ 1]	—	—	i 23 9	i	—
Tamanrasset	z.	131·4	297	19 1	[+ 1]	e 32 15	SP	e 19 34	pP'	—
Santa Lucia	z.	133·3	145	e 19 33	[+ 29]	—	—	20 3	pP'	—
Huancayo	z.	142·3	115	e 19 20	[0]	—	—	—	—	—
La Paz	z.	146·2	128	e 19 31	[+ 4]	—	—	i 20 2	pP'	—
San Juan		151·5	58	i 19 42	[+ 7]	—	—	i 20 13	pP'	—

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1956

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Nov. 16d. 11h. 53m. 54s. Epicentre 8°·20N. 71°·06W.

A = +0·3212, B = -0·9364, C = +0·1416; δ = +6; h = +7;
D = -0·946, E = -0·324; G = +0·046, H = -0·134, K = -0·990.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m
Bogota	4·6	220	i 1 15	+ 2	i 2 10	+ 1	—	—
Chinchina	5·5	235	i 1 27	+ 1	i 2 28	- 4	—	—
Balboa Heights	8·4	276	i 2 4	- 2	i 3 34	- 9	—	—
Trinidad	9·7	75	i 2 21	- 4	—	—	—	—
St. Vincent	10·8	62	e 2 33	- 7	—	—	—	—
San Juan	11·2	25	i 2 41	- 4	i 4 44	- 8	(i 4 53)	SS 14·9
Fort de France	11·7	55	i 2 34	-18	i 4 16	-48	—	—
Dominica	11·8	52	e 2 51	- 2	—	—	—	—
Barbados	12·3	65	e 3 0	0	—	—	—	—
San Salvador	18·7	289	e 4 31	+ 8	—	—	—	—
Huancayo	20·5	192	i 4 42	- 1	e 8 22	- 7	—	e 11·2
Merida	21·9	307	e 4 58	+ 1	9 1	+ 5	e 5 18	PP —
La Paz	24·7	173	i 5 23	- 1	i 9 45	+ 1	i 6 5	PP 12·0
Bermuda	24·8	13	i 5 21	- 4	i 9 39	- 7	—	e 11·3
Vera Cruz	26·7	297	—	—	e 10 27	+10	e 10 39	? e 15·4
Columbia	27·3	342	e 5 47	- 1	e 10 27	0	e 6 44	PP e 11·1
Chapel Hill	28·5	346	i 6 2	+ 2	—	—	i 6 16	? —
Tacubaya	29·4	295	i 6 21	+13	e 11 3	+ 1	i 6 53	PP —
Washington	31·0	351	e 6 25	+ 3	—	—	i 6 46	? —
Morgantown	32·3	347	i 7 3	PP	—	—	—	—
Palisades	32·8	356	i 6 39	+ 2	e 11 44	-10	e 12 26	PcS e 15·7
Fayetteville	34·9	326	i 6 54 _k	- 1	—	—	e 6 58	? —
Brébeuf	37·2	357	i 7 15 _k	0	—	—	—	—
Ottawa	37·3	355	e 7 18	+ 2	—	—	—	—
Lubbock	38·0	316	e 7 20	- 2	—	—	—	—
Shawinigan Falls	38·2	358	e 7 24	0	9 39	PPP	9 9	PP —
Seven Falls	38·8	0	e 6 34 _?	-55	—	—	—	—
Kirkland Lake	z. 40·5	351	e 7 44 _a	+ 1	—	—	—	—
Santa Lucia	z. 41·4	179	i 7 46	- 4	—	—	—	—
Tucson	43·9	309	e 8 9	- 2	—	—	—	—
Boulder	44·0	322	e 8 10	- 1	—	—	—	—
Rapid City	E. 45·4	327	e 8 21	- 1	e 15 13	+ 9	—	—
Hayfield	N. 48·2	308	e 8 47	+ 3	—	—	—	—
Boulder City	48·5	311	e 8 45	- 2	—	—	—	—
Barratt	z. 48·7	307	e 8 49	+ 1	—	—	e 9 13	? —
Palomar	z. 49·1	307	i 8 51	0	—	—	—	—
Riverside	z. 49·7	308	e 8 52	- 4	—	—	—	—
Pasadena	50·4	308	i 9 4	+ 3	—	—	i 9 24	? i 21·4
Eureka	50·8	315	i 9 2	- 2	—	—	i 9 27	? —
Butte	N. 51·8	324	e 9 10	- 2	—	—	i 9 40	? —
King Ranch	52·0	309	e 9 11	- 3	—	—	—	—
Fresno	52·5	310	e 9 19	+ 1	—	—	—	—
Reno	53·5	314	e 9 23	- 2	—	—	—	—
Hungry Horse	53·9	326	e 9 27	- 1	—	—	—	—
Lick	54·1	310	e 9 27	- 2	—	—	i 9 53	? —
Berkeley	54·7	311	e 9 32	- 2	—	—	—	—
Mineral	55·1	314	e 9 34	- 3	—	—	—	—
Shasta	55·8	314	e 9 40	- 2	—	—	e 12 4	PP —
Ukiah	55·8	312	e 9 45	+ 3	—	—	—	—
Banff	56·3	328	e 9 45	0	—	—	—	—
Corvallis	57·8	318	e 9 58	+ 2	—	—	—	—
Victoria	59·5	322	e 10 5	- 3	—	—	—	—
Horseshoe Bay	59·8	323	e 10 6	- 4	—	—	—	—
Reykjavik	z. 65·7	21	e 10 52	+ 3	—	—	—	—
Resolute	67·8	353	e 11 3 _a	0	—	—	e 12 41	? e 27·0
Rathfarnham C.	z. 68·5	36	i 11 9 _k	+ 2	—	—	e 11 38	PcP —
Scoresby Sund	69·4	16	e 11 17	+ 5	e 20 18	- 1	—	— 34·1
Durham	71·5	35	—	—	i 22 30	? —	—	—
Kew	71·7	38	i 11 28 _k	+ 2	—	—	—	e 40·1
Paris	73·0	41	e 11 38	+ 4	—	—	—	e 33·1

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Clermont-Ferrand	73.1	45	e 11 26	- 9	—	—	—	—
Tamanrasset	74.5	69	e 11 43	0	e 21 22	+ 4	e 14 30	PP
Besançon	75.2	43	i 11 47	0	—	—	e 12 10	PcP
Neuchatel	75.9	44	e 11 53	+ 2	—	—	—	—
Monaco	76.1	47	e 11 54 _a	+ 2	—	—	e 14 54	PP
Strasbourg	76.5	42	i 11 56	+ 2	—	—	e 12 20	PcP
Karlsruhe	77.0	42	e 11 59 _a	+ 2	—	—	e 12 7	PcP
Ebingen	77.3	42	e 12 0	+ 2	—	—	—	—
Stuttgart	77.5	42	e 12 1	+ 2	—	—	e 12 16	PcP
Hamburg	78.1	37	e 12 7 _a	+ 4	—	—	—	—
Florence	78.8	47	e 11 54	-13	—	—	—	—
Jena	79.1	40	e 12 9	+ 1	—	—	e 12 33	PcP
Skalstugan	79.7	27	i 12 16	+ 4	—	—	—	—
Rome	79.8	49	—	—	e 29 43	?	—	—
Prague	80.9	41	i 12 23	+ 5	—	—	12 34	PcP
Upsala	82.3	31	i 12 28 _k	+ 3	—	—	—	—
Messina	82.3	52	—	—	e 30 40	SSS	—	—
Bratislava	82.7	42	i 12 29	+ 1	—	—	i 12 58	?
Kiruna	83.0	22	i 12 28	- 1	—	—	—	—
Sodankyla	85.4	23	i 12 42	+ 1	—	—	—	—
Shillong	z. 142.5	26	e 19 30	[- 5]	—	—	—	—

Nov. 17d. 20h. 27m. 17s. Epicentre 54°·57N. 133°·63W.

A = -0.4018, B = -0.4215, C = +0.8130; δ = +7; h = -7;
D = -0.724, E = +0.690; G = -0.561, H = -0.588, K = -0.582.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Sitka	2.7	340	i 0 43	- 2	i 1 19	0	—	i 2.0
Alberni	7.6	131	e 1 52	- 3	e 3 15	- 8	e 3 50	?
Horseshoe Bay	8.2	125	e 2 3	- 1	3 25	-14	—	—
Victoria	8.8	130	e 2 10	- 1	i 3 35	-17	—	—
Seattle	9.9	130	2 28	+ 1	4 25	+ 4	e 3 1	?
Banff	11.4	100	i 2 50	+ 2	e 5 50	+52	—	—
Corvallis	12.0	142	i 2 56 _k	0	—	—	—	—
Hungry Horse	13.7	109	i 3 17	- 1	e 6 20	+28	—	—
Shasta	15.8	147	i 3 45 _k	0	—	—	e 8 40	PcP
Butte	N. 15.9	114	i 3 45	- 2	i 6 48	+ 4	—	—
Saskatoon	16.3	88	i 3 46	- 6	i 6 49	- 4	—	—
Mineral	16.4	146	e 3 52 _a	- 1	i 7 1	+ 5	i 3 57	PP
Bozeman	16.9	112	i 3 58	- 2	i 7 14	+ 6	i 5 2	?
Ukiah	17.0	151	i 4 1	0	i 7 27	+18	—	—
Reno	17.7	143	e 4 9 _a	- 1	e 7 48	SS	e 4 15	PP
Berkeley	18.4	150	e 4 18 _k	- 1	e 7 49	+ 7	i 8 41	PcP
Santa Clara	19.0	150	i 4 24 _k	- 2	i 8 9	+14	—	—
Lick	19.1	150	i 4 28 _k	+ 1	e 8 14	+17	i 4 48	PP
Eureka	19.2	134	e 4 25	- 3	—	—	—	—
Salt Lake City	20.0	125	e 4 38	0	e 8 28	+10	i 5 4	PPP
Fresno	20.2	146	e 4 37	- 2	—	—	—	—
King Ranch	z. 21.5	148	e 4 52	- 1	i 9 15	+27	i 5 12	PP
Isabella	z. 21.6	145	i 4 53 _k	- 1	i 9 9	+19	i 5 14	PP
Rapid City	E. 22.3	106	i 5 0	0	e 9 58	+57	—	—
Boulder City	22.7	137	i 5 5	0	i 9 31	+22	i 5 23	PP
Pasadena	23.1	146	e 5 8 _k	- 1	i 9 22	+ 5	—	—
Riverside	z. 23.5	144	e 5 11 _k	- 2	i 9 41	+17	—	—
Boulder	23.9	116	i 5 17	+ 1	—	—	—	—
Palomar	z. 24.3	144	e 5 19	- 1	—	—	i 5 39	PP
Hayfield	N. 24.4	141	e 5 23	+ 2	e 10 6	+27	i 5 36	PP
Barratt	z. 25.0	144	e 5 26 _k	- 1	i 10 6	+17	—	—
Resolute	25.2	23	i 5 29 _a	0	i 10 5	+12	e 6 49	?
Tucson	27.6	135	i 5 51	0	e 10 48	+17	—	—
Lubbock	30.6	120	e 6 17	- 1	e 11 28	+ 8	e 12 52	SS
Chihuahua	32.7	131	e 8 3	PPP	e 11 36	-16	e 16 51	ScS

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m
Fayetteville	32.8	108	i 6	35 ^k	- 2	e 12	8	+14	—	—	e 17.2
Florissant	33.0	100	e 6	37	- 2	11	56	- 2	7 48	PP	—
St. Louis	33.2	101	6	38 ^a	- 3	12	1	+ 1	—	—	17.7
Kirkland Lake	z. 33.4	78	e 6	41	- 1	—	—	—	—	—	i 17.4
Terre Haute	34.2	97	7	8	+18	13	13	+56	—	—	—
Cleveland	36.4	89	i 7	8	0	e 13	1	+11	—	—	—
Buffalo (Larkin)	37.2	85	i 7	13	- 2	—	—	—	—	—	—
Schefferville	37.4	61	e 7	19 [?]	+ 3	—	—	—	—	—	e 19.3
Ottawa	37.4	80	i 7	15 ^k	- 1	13	7	+ 2	9 12	PPP	18.8
Honolulu	38.0	219	e 7	27	+ 5	—	—	—	—	—	—
Shawinigan Falls	38.4	76	i 7	24 ^k	- 1	13	37	+17	8 55	PP	19.8
Brébeuf	38.5	78	i 7	25 ^a	- 1	14	26	+64	9 32	PcP	—
Pennsylvania	38.9	87	e 8	54	PP	e 13	30	+ 1	—	—	—
Seven Falls	39.1	74	6	38 [?]	?	12	36 [?]	?	8 10 [?]	?	18.1
Guadalajara	40.9	134	—	—	—	e 17	27	SSS	e 17 56	ScS	e 22.2
Philadelphia	41.0	86	—	—	—	e 13	58	- 3	e 17 1	SS	i 19.0
Palisades	41.1	84	e 7	46	- 1	e 14	2	+ 1	e 9 28	PP	i 21.0
Fordham	41.2	84	i 7	46	- 2	e 14	0	- 3	—	—	—
Chapel Hill	41.5	94	e 7	52	+ 1	e 17	40	SSS	—	—	—
Tiksi	41.7	332	7	52	0	—	—	—	—	—	—
Weston	41.7	80	i 7	53 ^a	0	e 14	14	+ 4	—	—	21.5
Columbia	41.7	97	e 7	50	- 3	e 14	15	+ 5	e 9 35	PP	e 17.2
Tacubaya	43.8	130	e 8	25	+15	e 14	56	+15	e 9 55	PP	e 27.6
Vera Cruz	45.4	126	—	—	—	i 18	33	SS	—	—	e 23.2
Scoresby Sund	46.1	26	—	—	—	i 15	10	- 4	e 15 39	PPS	21.4
Bermuda	52.4	85	i 9	22	+ 6	i 16	37	- 5	i 20 32	SS	e 24.2
Kiruna	56.4	12	i 9	44	- 2	—	—	—	—	—	—
Sodankyla	57.5	9	i 9	50	- 4	—	—	—	i 12 1	PP	—
Vladivostok	58.6	301	10	3	+ 1	18	1	- 3	—	—	—
Skalstugan	59.2	17	i 10	4	- 2	—	—	—	—	—	—
Matusiro	60.2	292	i 10	8 ^a	- 4	e 18	16	- 9	e 22 36	SS	e 25.6
Changchun	61.3	306	10	15 ^a	- 5	—	—	—	—	—	—
Aberdeen	61.9	28	—	—	—	i 18	55	+ 8	e 24 8	?	30.5
Balboa Heights	62.4	116	e 10	51	+24	e 19	16	+23	—	—	—
Irkutsk	63.2	324	e 10	29	- 3	18	51	-12	—	—	—
Galerazamba	63.2	110	—	—	—	e 19	11	+ 8	—	—	30.7
Upsala	63.6	16	i 10	33 ^k	- 2	—	—	—	—	—	—
Rathfarnham C.	z. 64.0	32	e 10	50	+12	—	—	—	e 11 37	PcP	—
Durham	64.1	29	e 11	2	+23	—	—	—	11 26	PcP	—
Copenhagen	66.6	20	—	—	—	24	25	SS	—	—	32.7
Kew	67.4	30	e 10	58	- 2	20	2	+ 7	e 24 23	SS	e 31.7
Chinchina	67.8	114	i 11	5	+ 3	i 20	10	+10	—	—	32.7
Witteveen	z. 68.0	25	e 11	3	- 1	—	—	—	e 11 31	PcP	—
Hamburg	68.1	22	e 11	4	0	—	—	—	—	—	e 36.7
De Bilt	68.3	26	e 11	11	+ 6	e 20	11	+ 5	e 24 43	SS	e 32.7
Sverdlovsk	68.4	352	11	3	- 3	—	—	—	—	—	—
Peking	68.5	309	e 11	9	+ 2	—	—	—	—	—	—
Bogota	69.0	113	e 11	15	+ 6	i 20	12	- 2	—	—	32.7
Moscow	69.8	5	e 11	11	- 4	20	10	-13	—	—	—
Paris	70.6	29	e 11	18	- 1	e 20	16	-17	e 11 48	PcP	e 32.7
Jena	70.9	22	e 11	19	- 2	e 20	40	+ 3	e 14 0	PP	—
Warsaw	71.5	16	e 11	30	+ 5	e 20	53	+10	e 11 46	PcP	e 37.7
Cheb	71.9	22	i 11	32	+ 5	e 14	32	PP	e 15 55	PPP	—
Karlsruhe	z. 72.0	25	e 11	27 ^k	- 1	—	—	—	e 11 32	PcP	—
Strasbourg	72.2	26	i 11	28 ^a	- 1	e 20	59	+ 7	e 14 13	PP	34.7
Prague	72.4	21	i 11	31	+ 1	—	—	—	e 13 57	PP	37.7
Stuttgart	72.4	25	e 11	28	- 2	e 20	57	+ 3	e 11 42	PcP	e 35.7
Tubingen	72.6	25	e 11	30	- 1	—	—	—	e 12 3	?	—
Ebingen	z. 72.9	25	e 11	31	- 2	—	—	—	e 11 53	PcP	—
Besançon	73.0	28	e 11	34	0	—	—	—	i 11 53	PcP	—
Raciborz	73.1	18	e 12	0	PcP	—	—	—	—	—	—
Basle	73.1	26	e 11	39	+ 4	—	—	—	e 16 54	?	—
Zô-Sê	73.3	300	—	—	—	21	7	+ 3	—	—	—
Krakow	z. 73.4	17	e 11	35	- 1	—	—	—	e 11 47	PcP	—
Neuchatel	73.4	27	e 11	41	+ 5	—	—	—	—	—	—

Continued on next page.

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Clermont-Ferrand	73.5	30	e 11 36	- 1	e 21 17	+11	e 25 43? SS	—
Nanking	73.7	302	e 11 40	+ 2	e 21 7	- 2	—	—
Oropa	75.0	27	e 11 58	+13	e 21 54	+31	e 16 40 PPP	—
Lisbon	75.6	42	e 11 55	+ 7	—	—	e 12 10 PcP	e 36.7
Pavia	75.7	26	e 11 53	+ 4	e 21 55	+24	e 16 38 PPP	e 36.9
Triest	76.4	23	i 11 55	+ 2	21 43	+ 5	e 14 58 PP	—
Toledo	76.5	38	e 11 55	+ 1	e 21 34	- 5	e 12 6 PcP	e 33.9
Monaco	76.6	28	e 12 0	+ 6	—	—	e 12 15 PcP	—
Barcelona	77.2	33	—	—	e 22 2	+15	—	e 41.7
Florence	77.6	25	e 12 1	+ 1	i 22 5	+14	e 14 11 PP	e 36.7
Granada	79.0	38	i 12 8 _a	0	e 22 17	+10	12 22 PcP	i 34.7
Alicante	79.1	36	12 7	- 1	22 8	+ 1	15 11 PP	e 38.3
Malaga	79.2	39	e 12 12	+ 3	—	—	—	39.5
Rome	79.6	25	e 12 9	- 2	e 22 20	+ 7	e 22 54 PS	e 38.6
Almeria	79.8	38	12 0	-12	—	—	—	37.7
Frunse	80.0	339	12 8	- 5	—	—	—	—
Simferopol	80.3	9	12 14	- 1	—	—	—	—
Algiers Univ.	z. 81.7	34	e 12 22	0	e 22 45	+11	e 15 37 PP	—
Relizane	81.8	36	e 12 21	- 1	—	—	—	—
Sotchi	82.1	5	12 29	+ 5	22 38	0	—	—
Taranto	82.1	22	—	—	e 21 43?	PPS	—	—
Huancayo	82.5	123	i 12 27	+ 1	—	—	—	e 48.4
Messina	83.9	24	e 12 31	- 2	e 22 59	+ 2	e 15 49 PP	39.2
Tiflis	84.1	1	e 12 34	0	—	—	—	—
La Paz	89.9	119	e 13 5	+ 3	24 3	+ 9	25 13 PPS	40.9
Lahore	90.9	336	13 6	- 1	—	—	—	—
Shillong	z. 91.1	320	e 12 42	-26	—	—	—	—
Dehra Dun	91.2	333	e 13 10	+ 2	e 23 51	-14	—	—
Ksara	91.5	9	e 13 28	+18	e 24 47	+39	—	50.7
Safed	92.3	9	i 13 19	+ 5	—	—	i 16 15 ?	—
Jerusalem	93.5	10	e 13 21	+ 2	—	—	16 15 ?	—
Quetta	93.8	342	e 13 22 _k	+ 2	e 24 0	[+ 6]	e 17 15 PP	—
Tamanrasset	z. 95.4	37	e 13 28	0	e 26 6	PS	e 17 21 PP	—
Poona	z. 103.5	333	e 18 16	[- 4]	—	—	—	—
Lwiro	z. 125.9	22	e 19 8	[+ 4]	—	—	e 21 1 PP	—
Astrida	126.4	21	e 19 1	[- 5]	—	—	—	—
Uvira	127.2	22	e 21 8	PP	—	—	—	—
Tananarive	144.4	358	e 19 38 _k	[0]	—	—	—	—
Pretoria	z. 148.2	32	e 19 49	[+ 4]	—	—	—	—
Kimberley	z. 149.8	40	i 19 52	[+ 5]	—	—	—	—
Pietermaritzburg	z. 152.5	31	i 20 3	PKP ₂	—	—	—	—
Grahamstown	z. 154.6	41	i 20 13	PKP ₂	—	—	—	—

Nov. 18d. 5h. 19m. 27s. Epicentre 39°·84N. 76°·77E.

A = +0.1763, B = +0.7495, C = +0.6381; $\delta = 0$; $h = -2$;
D = +0.973, E = -0.229; G = +0.146, H = +0.621, K = -0.770.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Naryn	1.7	340	i 0 30	- 1	—	—	i 0 34 P _g	—
Murgab	2.6	237	e 0 49	+ 2*	i 1 27	+ 1 _g	—	—
Rybach'e	2.7	349	i 0 48	- 1*	1 22	- 2*	i 0 59 P _g	—
Kurmenty	3.4	19	e 0 57	+ 2	i 1 46	+ 1*	—	—
Almata	3.4	2	i 0 58	+ 2	i 1 48	+ 3*	—	—
Frunse	3.4	332	i 0 58	+ 2	i 1 43	- 2*	—	—
Almata II	3.5	7	i 0 59	+ 3	i 1 49	+ 1*	i 1 10 P _g	—
Andijan	3.5	286	i 0 57	0	i 1 56	0 _g	i 1 52 S*	—
Fergana	3.9	280	e 1 13	+ 3*	e 2 9	0 _g	i 1 49 S	—
Namangan	4.0	288	e 1 9?	- 2*	i 2 12	0 _g	—	—
Dzhergetal	4.3	264	i 1 13	+ 4	—	—	e 1 31 P _g	—
Khorog	4.7	241	e 1 19	+ 5	i 2 18	+ 8	—	—
Kulyab	5.8	253	e 1 30	+ 1	—	—	i 1 54 P _g	—
Tashkent	5.9	287	e 1 29	- 2	e 2 43	+ 3	i 3 13 S _g	—
Tchimkent	6.0	295	i 1 31	- 1	e 2 48	+ 5	i 2 6 P _g	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Stalinabad	6.3	261	i 1 36	- 1	i 2 48	- 3	e 2 6	P _g	—
Samarkand	7.5	272	1 51	- 3	3 18	- 3	—	—	—
Lahore	8.5	194	2 9	+ 2	3 36	- 9	—	—	—
Dehra Dun	9.6	173	e 2 22	0	i 4 10	- 1	4 23	SS	4.5
New Delhi	n. 11.2	178	e 2 46	+ 1	i 4 48	- 5	—	—	—
Bairam-Ali	11.7	264	e 3 2	+11	i 6 6	+63	e 5 54	?	—
Quetta	12.6	223	e 3 0	- 3	e 5 21	- 3	i 5 44	SS	—
Yumen	15.5	82	—	—	e 6 34	- 1	—	—	—
Chatra	15.6	143	e 3 31	-12	i 6 37	0	—	—	—
Changyeh	18.4	85	—	—	e 7 56	SS	—	—	—
Shillong	19.0	134	e 4 24	- 2	i 7 57	+ 1	4 49	PPP	8.9
Sverdlovsk	20.0	334	4 35	- 2	7 45	-32	i 4 43	PP	—
Wuwei	20.2	87	e 4 41	+ 2	—	—	—	—	—
Bombay	21.2	190	e 4 53	+ 4	e 8 43	+ 3	e 9 33	SSS	e 9.8
Poona	21.4	188	e 4 52	+ 1	e 8 54	+ 9	—	—	—
Makhach-Kala	22.1	288	e 4 56	- 3	e 9 3	+ 4	—	—	—
Hyderabad	E. 22.4	176	e 9 5	PcP	—	—	e 6 20	?	—
Irkutsk	22.6	48	e 5 4	0	e 9 15	+ 7	—	—	—
Yinchuan	22.9	84	e 5 47	PPP	—	—	—	—	—
Kirovobad	23.2	282	e 5 9	0	e 9 16	- 1	—	—	—
Kyakhta	23.3	53	e 5 18	+ 8	e 9 26	+ 6	—	—	—
Kabansk	23.9	49	e 5 16	0	e 9 59	+29	—	—	—
Tifis	24.2	285	e 5 20	+ 1	—	—	e 10 35	SSS	e 12.5
Paotow	25.3	78	—	—	e 10 6	SS	—	—	—
Linfen	27.6	87	—	—	e 12 6	SSS	—	—	—
Moscow	30.2	315	e 6 11	- 4	—	—	e 6 48	PP	—
Simferopol	31.6	294	—	—	e 11 36	+ 1	—	—	—
Ksara	33.1	273	e 6 37	- 2	—	—	—	—	—
Lwow	38.0	303	e 8 53	PP	—	—	—	—	—
Sodankyla	38.8	332	i 7 31	+ 3	—	—	—	—	—
Kiruna	41.2	331	i 7 45	- 3	—	—	—	—	—
Upsala	41.4	319	i 7 48	- 2	—	—	—	—	—
Skalstugan	44.0	324	i 8 9	- 2	—	—	—	—	—
Triest	45.6	299	e 8 52	+28	—	—	e 10 47	PPP	—
Jena	Z. 45.7	307	e 8 25	+ 1	—	—	—	—	—
Messina	E. 46.8	289	e 12 45	?	e 15 33	+10	e 18 51	SS	e 27.8
Matusiro	Z. 47.6	73	e 8 38	- 1	—	—	—	—	—
Rome	47.6	294	—	—	e 15 56	PPS	e 19 25	SS	e 22.2
Stuttgart	47.7	304	e 8 40	0	e 19 27	SS	e 10 44	PP	—
Florence	47.8	297	e 8 41	0	—	—	e 10 45	PP	—
Durham	52.4	314	e 12 11	PPP	—	—	e 12 20	?	—
Tamanrasset	Z. 61.7	277	e 10 19	- 3	—	—	—	—	—
College	70.0	19	i 11 12	- 3	—	—	—	—	—
Hungry Horse	91.7	7	e 13 8	- 2	—	—	—	—	—

Nov. 18d. 21h. 22m. 40s. Epicentre 28°·48N. 130°·07E.

$$\begin{aligned} \Delta &= -0.5666, B = +0.6737, C = +0.4744; & \delta &= -4; & h &= +2; \\ D &= +0.765, E = +0.644 & G &= -0.305, H = +0.363, K = -0.880 \end{aligned}$$

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Yakusima	2.0	11	0 33	- 2	0 55	- 6	—	—
Kagosima	3.1	8	e 0 50	- 1	e 1 25	- 4	e 1 4	P _g
Miyazaki	3.6	18	e 0 57	- 1	1 42	0	—	—
Unzendake	4.2	2	e 1 15	0*	1 55	- 3	—	—
Nagasaki	N. 4.2	358	e 1 14	- 1*	1 57	- 1	—	—
Kumamoto	4.4	7	e 1 8	- 2	1 51	-11	—	—
Asosan	4.5	11	1 11	0	e 2 18	0*	—	—
Saga	4.8	2	e 1 24	- 1*	e 2 39	0 _g	—	—
Ooita	4.9	15	e 1 15	- 2	e 2 11	- 4	e 1 26	P*
Simidu	5.0	30	e 1 17	0	e 2 4	-12	e 2 40	S _g

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.		L.	
		°	°	m. s.	s.	m. s.	s.	m.	s.	m.	
Hukuoka		5.1	3	1 18	- 1	2 20	+ 1				
Ituhara	E.	5.7	354	e 1 39	- 1*	e 2 45	+ 9				
Matuyama		5.8	23	e 1 25	- 4	e 2 36	- 2	e 2 27	?		
Koti		5.9	30	e 1 28	- 2	e 2 27	- 12				
Muroto		5.9	36			e 3 16	+ 1 _g	i 3 36	?		
Hirosima		6.2	18	e 1 30	- 5	e 2 48	0				
Takamatu		6.8	29	e 1 39	- 3	e 3 27	+ 1*				
Tokusima		6.8	34	e 1 40	- 3	e 3 27	+ 1*	e 2 13	P _g		
Sumoto		7.2	34	e 1 46	- 2	e 3 53	- 5 _g				
Matsue		7.4	19	e 2 44	+ 16 _g	e 3 16	- 1				
Osaka		7.7	36	e 2 2	+ 6	e 4 10	- 4 _g				
Tottori	N.	7.8	26			e 3 36	+ 8	e 3 50	S*		
Kyoto		8.1	35	e 1 58	- 3	e 4 27	- 1 _g				
Zō-Sē		8.2	291	e 2 5	+ 3	e 3 43	+ 7				
Saigo		8.2	19			e 3 35	- 3			e 4.3	
Kameyama	Z.	8.4	39	e 2 5	0	e 3 59	+ 18				
Hikone		8.6	36	2 5	- 3	e 4 32	- 12 _g				
Nagoya	E.	8.9	40	e 2 20	+ 8						
Gihu		9.0	38	e 2 10	- 3						
Hukui		9.2	33	e 2 16	- 1						
Kanazawa		9.8	33	e 2 35	+ 11			e 3 0	P*		
Misima	E.	10.0	46	e 2 29	+ 1			e 2 44	PPP		
Kohu	E.	10.1	43	e 2 36	+ 6						
Nanking		10.4	293	e 2 34	+ 1	e 4 43	+ 12				
Matusiro		10.6	38	i 2 33 _a	- 3	e 4 30	- 6	i 2 49	PP	i 5.7	
Oiwake		10.6	40	e 2 57	+ 21						
Kakioka	E.	11.5	45	e 3 1	+ 13						
Shirakawa	N.	12.1	42	e 2 50	- 7						
Futzeling		12.3	287	e 2 59	0						
Changchun		15.8	347	3 47 _a	+ 2						
Mori	E.	16.0	29	e 4 10	PPP						
Peking		16.2	319	e 3 51	0	7 3	+ 11				
Kwanting		16.7	318	e 3 57	0						
Taiyuan		17.3	307	e 4 9	+ 5						
Tatung		18.0	314	4 16	+ 3						
Sian		18.9	293	e 4 25	+ 1	e 8 7	+ 14				
Shillong	Z.	34.1	274	i 6 45 _k	- 3						
Rabaul	Z.	38.8	143	i 7 32	+ 4						
Frunse		46.5	303	e 8 40	+ 9						
Lahore		47.9	288	8 38	- 4						
Poona	Z.	52.1	272	i 9 11	- 3						
Quetta		54.4	288	e 9 29 _a	- 2						
Sverdlovsk		55.5	321	e 9 36	- 3						
Brisbane		59.8	156	i 10 10	+ 1						
College		61.3	29	i 10 17	- 2						
Moscow		68.3	322	e 11 0	- 4						
Sodankyla		69.0	336	e 11 17	+ 8						
Kiruna		70.9	338	i 11 15	- 6						
Resolute		73.0	11	i 11 29 _a	- 4					e 37.8	
Simferopol		74.4	313	e 11 38	- 4						
Skalstugan		76.1	336	i 11 46	- 5						
Upsala		76.1	331	e 11 46	- 5						
Ksara		77.9	302	e 12 4	+ 3						
Safed		78.6	301	i 12 4	- 1						
Jerusalem		79.3	300	i 12 8	- 1						
Bratislava		83.0	322	i 12 26	- 2						
Hamburg	Z.	83.2	329	i 12 32	+ 3						
Shasta		83.9	47	i 12 32	- 1						
Jena		84.2	326	e 12 32	- 2			i 12 41	PcP		
Hungry Horse		84.4	37	e 12 32	- 3			e 12 36	PcP		
								i 12 44	PcP		
Mineral		84.6	47	e 12 56	+ 20						
Witteveen	Z.	85.2	329	e 12 37	- 2						
Reno		86.2	47	e 12 44 _a	0						
Lick		86.2	49	e 12 54 _a	+ 10						
Butte	N.	86.7	38	e 12 44	- 2						

Continued on next page.

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		Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Stuttgart	z.	86.7	325	e 12 42	- 5	—	—	—	—
Fresno		87.7	49	e 12 51	- 1	—	—	—	—
King Ranch	z.	88.6	50	e 12 57	+ 1	—	—	—	—
Eureka		88.6	45	e 12 51	- 5	—	—	i 13 17	?
Paris		89.9	328	e 12 59	- 3	—	—	—	e 47.3
Pasadena	z.	90.3	50	e 13 4	0	—	—	—	—
Riverside	z.	91.0	50	e 13 17	+10	—	—	—	—
Boulder City		91.5	47	e 12 56	-13	—	—	—	—
Palomar	z.	91.7	50	e 12 32	-38	—	—	e 13 7	P
Barratt	z.	92.2	51	e 12 55	-17	—	—	—	—
Hayfield	N.	92.3	50	e 13 24	+11	—	—	—	—
Rapid City	E.	92.9	35	e 13 23	+ 7	—	—	—	—
Tucson		96.4	48	e 13 32	0	—	—	—	—
Tamanrasset	z.	106.1	308	e 13 54	pP	—	—	—	—
Huancayo		151.2	61	e 19 58	[+ 9]	—	—	—	—

Nov. 19d. 12h. 2m. 44s. Epicentre 12°·19N. 144°·04E. Depth of focus = 0.042R.

A = -0.7914, B = +0.5742, C = +0.2098; δ = +4; h = +6;
D = +0.587, E = +0.809; G = -0.170, H = +0.123, K = -0.978.

		Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Guam		1.4	28	i-0 10	-52	—	—	—	—
Rabaul		18.2	153	e 3 37	-17	—	—	i 3 53	pP
Mera	N.	23.0	351	e 4 48	+ 8	—	—	—	—
Misima	N.	23.3	349	e 4 35	- 8	—	—	—	—
Koti		23.3	337	e 4 47	+ 3	e 9 9	+37	—	—
Tokusima		23.4	340	e 5 0	+15	e 9 6	+33	e 5 18	PP
Yokohama		23.5	351	e 4 47	+ 2	—	—	e 6 3	PPP
Kameyama	E.	23.6	344	e 6 0	PPP	—	—	e 7 42	?
Sumoto		23.6	341	e 4 51	+ 5	e 8 41	+ 5	—	e 12.9
Osaka		23.7	342	e 5 48	PP	—	—	—	—
Hunatu		23.7	349	—	—	e 8 51	+13	—	—
Tokyo		23.7	351	e 4 46	- 1	e 9 2	+24	e 9 52	SS
Ooita	N.	23.8	334	e 4 46	- 2	—	—	—	—
Kohu	E.	23.9	349	e 5 29	+40	e 9 16	+35	—	—
Kumamoto		23.9	331	e 4 46	- 3	—	—	—	—
Kyoto		24.0	343	4 56	+ 7	9 15	+33	—	—
Kumagaya		24.2	351	e 4 42	-10	e 9 12	+25	—	—
Saga		24.4	331	e 5 5	+11	—	—	—	—
Hirosima		24.5	336	e 5 18	+24	e 9 12	+21	—	—
Maebasi		24.5	350	e 5 20	+25	e 9 14	+23	e 5 56	pP
Oiwake		24.5	349	e 4 59	+ 4	—	—	—	—
Utunomiya		24.6	352	e 4 50	- 5	e 9 2	+10	e 5 23	pP
Matumoto	N.	24.6	348	e 4 52	- 3	e 9 3	+11	—	—
Hukuoka	N.	24.7	332	e 5 19	+23	—	—	—	—
Matusiro		24.8	349	4 47 _a	-10	i 9 11	+15	i 5 41	PP
Shirakawa		25.1	353	—	—	e 9 21	+21	—	—
Hamada		25.1	336	e 5 6	+ 6	e 9 4	+ 4	—	e 11.1
Hukusima		25.7	354	i 4 59	- 6	e 9 36	+26	—	—
Niigata		26.0	351	e 5 36	+28	—	—	—	—
Sendai	N.	26.1	354	e 5 14	+ 5	—	—	e 10 20	SS
Akita		27.6	353	e 6 20	PP	e 11 2	SS	—	—
Mori	E.	30.0	355	e 6 1	+18	—	—	—	—
Hong Kong		30.2	294	—	—	e 10 16?	- 6	—	—
Sapporo	E.	30.9	356	—	—	e 10 25	- 7	—	—
Brisbane		40.4	168	i 7 7	- 4	e 13 15	+18	—	—
Nouméa		40.7	147	i 7 28	+14	i 13 56	+55	—	—
Djakarta		41.2	246	i 7 18 _a	0	e 13 24	+15	—	—
Riverview		46.3	172	e 8 3	+ 5	e 14 49	+28	i 18 1	SS
Melbourne		49.8	179	e 8 22	- 3	e 9 32	sP	e 9 9	pP
Shillong	z.	50.8	293	i 8 31	- 2	—	—	—	i 24.0

Continued on next page.

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1956

580

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Chatra	z.	55.1	294	i 8 50	-14	—	—	i 9 24	pP	—
Tiksi		60.1	355	12 21	PP	—	—	—	—	—
Dehra Dun		63.3	298	e 9 52	-7	e 18 31	+25	—	—	—
Lahore		66.5	299	10 19	-1	—	—	—	—	—
Frunse		66.8	312	e 10 20	-2	—	—	—	—	—
Poona	z.	67.6	285	e 10 26	-1	—	—	—	—	—
Bombay		68.6	286	e 10 33	0	e 19 37	+27	e 20 30	PPS	—
College		69.8	25	i 10 34	-6	i 11 30	sP	i 11 18	pP	—
Quetta		72.9	298	e 10 57 _a	-2	e 20 21	+22	—	—	—
Sverdlovsk		76.3	326	e 11 18	0	—	—	—	—	—
Horseshoe Bay		82.6	41	e 11 53	+2	—	—	—	—	—
Victoria		82.6	42	e 11 50	-2	—	—	—	—	—
Corvallis		83.4	46	i 12 2	+6	—	—	—	—	—
Seattle	z.	83.6	43	i 11 58	+2	—	—	—	—	—
Shasta		84.8	50	e 12 1	-2	—	—	—	—	—
Mineral		85.5	50	e 12 6	0	—	—	—	—	—
Berkeley		85.5	52	e 12 6	0	—	—	—	—	—
Resolute		86.1	13	i 12 7 _k	-2	e 23 22	SP	—	—	e 40.6
Lick		86.1	53	e 12 9 _k	0	—	—	—	—	—
Reno		87.0	50	i 12 14 _a	+1	—	—	—	—	—
Banff		87.0	38	i 12 11	-2	—	—	—	—	—
Fresno		87.7	53	i 12 16 _a	0	—	—	—	—	—
Hungry Horse		88.8	41	i 12 21	0	e 15 48	PP	e 13 1	pP	—
Isabella	z.	89.0	54	i 12 22	0	—	—	15 48	PP	—
Moscow		89.0	327	e 12 21	-2	—	—	—	—	—
Pasadena		89.6	55	i 12 25	0	—	—	i 13 19	pP	i 35.8
Eureka		89.9	50	i 12 25	-2	—	—	i 15 55	PP	—
Riverside	z.	90.3	55	i 12 28	0	—	—	i 12 56	pP	—
Butte	N.	90.4	43	i 12 28	-1	—	—	e 16 0	PP	—
Kiruna		90.6	342	e 12 28	-2	—	—	—	—	—
Palomar	z.	90.8	56	i 12 32	+1	—	—	i 12 58	pP	—
Boulder City		91.7	53	i 12 35	0	—	—	i 13 5	pP	—
Tucson		96.0	55	e 12 56	+1	—	—	e 16 49	PP	—
Rapid City	E.	97.3	42	i 13 1	0	—	—	e 16 55	PP	—
Boulder		97.5	46	13 2	0	—	—	—	—	—
Ksara		97.9	307	e 17 12	PP	—	—	—	—	—
Jerusalem		99.1	305	i 13 12	+3	—	—	—	—	—
Rathfarnham C.	z.	110.0	342	—	—	e 27 20	SP	—	—	—
Tamanrasset	z.	126.5	310	e 18 28	[0]	—	—	e 20 27	PP	—
Huancayo	z.	141.5	94	e 19 1	[+ 4]	—	—	—	—	—
St. Vincent		144.4	46	e 18 56	[- 5]	—	—	—	—	—
Trinidad		145.9	49	e 19 6	[+ 2]	—	—	—	—	—
M'Bour		147.6	324	i 19 16	[+ 10]	—	—	19 45	sPKP	—
La Paz		148.6	102	i 19 17	[+ 9]	—	—	i 19 32	PKP ₂	—

Nov. 20d. 23h. 20m. 52s. Epicentre 39°·26N. 26°·27E.

A = +0.6962, B = +0.3436, C = +0.6303; $\delta = +3$; $h = -1$;
D = +0.443, E = -0.897; G = +0.565, H = +0.279, K = -0.776.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Athens		2.4	238	e 0 44	0*	e 1 6	-5	i 1 18	S _g	—
Sofia		4.1	328	1 8	+3	1 52	-3	2 8	S _g *	—
Bucharest		5.2	359	1 25	+5	2 26	+5	1 39	P _g	—
Campulung		6.1	352	1 34	+1	2 38	-7	e 2 2	P _g	—
Focsani		6.5	6	1 49	-5*	2 51	-3	3 16	S _g *	—
Taranto		7.0	283	e 1 6	-40	—	—	—	—	—
Belgrade	z.	7.0	324	e 1 47 _a	+1	e 3 16	+8	e 2 16	P _g	—
Bacau		7.3	3	1 53	+3	3 23	+8	e 2 4	P _g *	—
Timisoara	E.	7.5	332	e 1 57	+4	e 3 15	-4	—	—	—
Iasi		8.0	6	1 56	-4	3 41	+9	e 2 35	P _g	—
Simferopol		8.2	43	1 58	-4	3 19	?	—	—	—
Szeged		8.3	329	2 20	-5*	4 5	-5	4 21	S _g	—
Reggio Calabria		8.4	265	e 2 3	-2	e 3 39	-3	—	—	—
Ksara		9.4	122	e 2 24	+4	e 4 20	+12	—	—	—
Safed		9.8	127	i 2 23	-1	—	—	—	—	—

Continued on next page.

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1956

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	Δ °	Az. °	P.		O-C.	S.		O-C.	Supp.		L.
			m.	s.	s.	m.	s.	m.	s.	m.	
Hurbanovo	10.4	328	e 3	31	+58	e 5	18	+ 5*	—	—	—
Jerusalem	10.4	133	i 2	32	- 1	i 4	34	+ 2	—	—	—
Rome	10.8	288	e 2	59	P*	e 6	7	S _g	—	—	i 6.6
Bratislava	11.1	326	i 2	44	+ 1	i 4	29	-20	i 2	51	PP
Triest	11.2	309	e 2	36	- 8	e 4	38	-14	i 5	48	S _g
Florence	12.1	297	e 3	3	+ 6	—	—	—	—	—	i 7.3
Raciborz	12.2	335	e 3	2	+ 4	e 5	2	-14	i 8	43	PcP
Bologna	12.3	300	e 3	0	+ 1	—	—	—	—	—	e 7.6
Warsaw	13.5	346	e 3	18	+ 3	e 5	46	0	e 3	31	PPP
Prague	13.7	326	e 3	17	0	e 5	53	+ 2	i 3	40	PPP
Tiflis	14.3	74	3	28	+ 2	6	28	+22	—	—	—
Cheb	14.6	322	e 3	23	- 7	—	—	—	e 4	28?	—
Oropa	14.9	301	e 3	8	-25	—	—	—	—	—	e 8.8
Ebingen	z. 15.3	311	e 3	40	+ 1	—	—	—	—	—	—
Tubingen	15.4	312	e 3	48	+ 8	—	—	—	e 3	57	PP
Stuttgart	z. 15.5	313	e 3	37	- 4	—	—	—	e 3	52	PP
Jena	15.6	323	e 3	44	+ 2	e 6	34	- 2	e 4	0	PP
Basle	15.9	307	e 3	52	+ 6	—	—	—	—	—	e 9.9
Neuchatel	16.1	305	e 3	48	0	—	—	—	e 8	44	PcP
Strasbourg	16.2	311	e 3	53	+ 3	—	—	—	—	—	e 8.1
Besançon	16.8	305	i 4	2	+ 5	—	—	—	e 4	50	PP
Hamburg	z. 18.1	328	e 4	18	+ 4	—	—	—	—	—	—
Moscow	18.1	21	4	8	- 6	7	13	-22	—	—	—
Clermont-Ferrand	18.2	298	e 4	17	+ 1	—	—	—	—	—	—
Algiers Univ.	z. 18.5	270	e 4	15	- 3	—	—	—	—	—	—
Copenhagen	18.8	335	e 4	24	+ 1	e 7	48	- 3	—	—	10.1
Paris	19.5	307	e 4	28	- 3	—	—	—	—	—	e 9.1
Upsala	21.3	348	i 4	46	- 4	i 12	37	PcS	i 5	5	PP
Kew	22.2	312	—	—	—	e 9	1	+ 2	—	—	e 11.1
Tamanrasset	z. 24.1	233	e 5	20	+ 2	e 9	23	-10	e 5	40	PP
Skalstugan	25.8	346	i 5	32	- 1	—	—	—	—	—	—
Sodankyla	28.2	0	e 5	56	0	—	—	—	—	—	—
Kiruna	28.8	355	i 5	58	- 3	—	—	—	—	—	—
Quetta	34.4	93	e 6	49	- 2	—	—	—	—	—	—
Lwiro	41.4	176	e 7	50	+ 1	—	—	—	—	—	—
Astrida	41.8	175	e 7	54	+ 2	—	—	—	—	—	—
Halifax	63.7	307	e 10	34	- 1	—	—	—	—	—	—
Seven Falls	66.7	312	e 9	52 _a ?	?	—	—	—	—	—	—
Shawinigan Falls	68.2	313	e 11	1	- 3	—	—	—	—	—	—
Brébeuf	69.2	312	i 11	14 _a	+ 4	—	—	—	—	—	—
Ottawa	70.5	313	e 11	17	- 1	—	—	—	—	—	—
College	76.1	357	e 11	48	- 3	—	—	—	—	—	—
Hungry Horse	85.9	335	i 12	41	- 2	—	—	—	—	—	—
Eureka	94.4	332	e 13	21	- 1	—	—	—	—	—	—
Antofagasta	109.5	255	i 13	56	-35	—	—	—	—	—	—

Nov. 21d. 7h. 33m. 29s. Epicentre 38°·26N. 142°·36E. Depth of focus = 0.002R.

A = -0.6234, B = +0.4808, C = +0.6166; $\delta = -1$; $h = -1$;
D = +0.611, E = +0.792; G = -0.488, H = +0.377, K = -0.787.

	Δ °	Az. °	P.		O-C.	S.		O-C.	Supp.		L.
			m.	s.	s.	m.	s.	m.	s.	m.	
Isinomaki	0.8	282	i 0	15k	- 2	i 0	28	- 1	—	—	—
Sendai	1.2	271	i 0	19k	- 2	e 0	31	- 5	—	—	—
Mizusawa	1.3	312	i 0	22k	- 1	0	36	- 3	—	—	—
Miyako	1.4	348	0	23k	- 1	i 0	41	- 1	—	—	—
Hokusima	1.6	252	i 0	26k	- 1	0	42	- 4	—	—	—
Yamagata	1.6	270	i 0	25k	- 2	i 0	41	- 5	—	—	—
Morioka	1.7	328	i 0	29k	+ 1	i 0	52	+ 2	—	—	—
Onahama	1.8	222	i 0	29k	0	i 0	49	- 1	—	—	—
Shirakawa	2.0	237	i 0	33k	0	i 0	57	- 1	—	—	—
Sakata	2.1	289	e 0	37	+ 3	e 1	1	+ 2	—	—	—

Continued on next page.

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		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Akita		2.3	310	i 0	37	0	1	6	+ 2	—	—	—
Hatinohe		2.4	344	i 0	37 ^a	- 1	i 1	4	- 2	—	—	—
Mito		2.4	219	0	35	- 3	1	4	- 3	—	—	—
Utunomiya		2.6	230	i 0	39 ^k	- 2	e 1	8	- 4	i 0	47	PP
Niigata		2.6	264	e 0	41	0	1	15	+ 2	—	—	—
Kakioka	N.	2.7	221	i 0	40	- 2	1	10	- 3	—	—	—
Tyosi		2.8	206	e 0	44	0	1	29	+12	e 0	51	PP
Aomori		2.8	335	e 0	45	+ 1	i 1	16	- 2	—	—	—
Kumagaya		3.2	229	e 0	48	- 1	1	35	+ 9	—	—	—
Maebasi		3.2	236	i 0	50 ^k	0	e 1	27	0	i 1	20	?
Aikawa		3.2	267	e 0	46	- 4	1	25	- 3	—	—	—
Tokyo		3.3	220	e 0	50 ^k	- 1	1	29	- 1	—	—	—
Takada		3.5	252	e 0	54	+ 1	e 1	37	+ 4	—	—	—
Titibu		3.5	230	i 0	52	- 1	i 1	31	- 3	—	—	—
Yokohama		3.6	218	e 0	53	- 2	e 1	42	+ 6	e 1	4	PP
Oiwake		3.6	239	i 0	55 ^a	0	1	49	+12	—	—	—
Nagano	N.	3.7	246	e 0	57	+ 1	e 1	38	- 1	—	—	—
Matusiro		3.7	244	i 0	56 ^k	0	1	34	- 6	—	—	—
Hakodate	N.	3.8	340	i 0	59 ^k	+ 1	i 1	43	+ 1	—	—	—
Urakawa		3.9	5	e 1	3	+ 4	e 1	46	+ 1	—	—	—
Mera		3.9	212	0	58	- 1	1	48	+ 3	—	—	—
Hunatu		4.0	227	i 1	3 ^k	+ 2	i 1	47	0	1	55	SS
Kohu		4.0	230	e 1	2	+ 1	e 1	53	+ 6	—	—	—
Matumoto		4.0	242	e 1	2	+ 1	e 1	52	+ 4	i 1	25	PPP
Mori	E.	4.1	341	e 1	3 ^a	+ 1	1	49	0	e 1	37	PPP
Ajiro		4.1	220	e 1	2	- 1	e 1	48	- 3	e 2	17	SSS
Misima		4.2	222	i 1	2	- 1	e 1	49	- 2	—	—	—
Muroran		4.2	346	e 1	6	+ 2	e 1	52	0	—	—	—
Osima		4.2	216	i 1	3 ^a	- 1	e 1	46	- 7	—	—	—
Tomakomai		4.3	352	e 1	7	+ 2	i 2	1	+ 6	—	—	—
Toyama		4.4	251	e 1	6	0	1	58	+ 1	i 2	15	SS
Wazima		4.4	260	e 1	6	- 1	e 1	59	+ 2	e 1	28	PPP
Iida		4.5	234	i 1	7	- 1	e 1	59	- 2	—	—	—
Shizuoka		4.6	225	1	8 ^k	- 1	i 2	0	- 1	—	—	—
Takayama	E.	4.6	244	e 1	9	0	2	5	+ 3	—	—	—
Obihiro		4.7	8	i 1	9	- 2	e 2	5	0	i 1	22	PPP
Suttsu		4.8	341	e 1	12	0	e 2	11	+ 3	e 2	45	SSS
Kanazawa		4.9	251	e 1	17	+ 4	—	—	—	—	—	—
Sapporo		4.9	351	e 1	11	- 2	i 2	3	- 6	e 1	19	PP
Omaesaki		5.0	224	e 1	15	+ 1	e 2	11	0	i 1	25	PP
Kusiro		5.0	18	e 1	13	- 1	i 2	9	- 2	—	—	—
Hamamatu		5.1	228	e 1	24 ^k	+ 7	i 2	17	+ 1	e 3	0	?
Gihu		5.3	239	i 1	20	+ 1	e 2	23	+ 3	e 1	48	PPP
Nagoya	E.	5.3	236	1	21	+ 2	2	25	+ 5	—	—	—
Hukui		5.3	248	e 1	23	+ 3	—	—	—	—	—	—
Asahigawa		5.5	0	e 1	24	+ 2	e 2	27	+ 2	—	—	—
Hatidyozima		5.5	203	e 2	0	+38	e 2	21	- 4	—	—	—
Ibukisan	E.	5.6	241	e 1	18	- 5	e 2	31	+ 4	—	—	—
Nemuro		5.6	25	e 1	20	- 4	e 2	19	- 9	e 1	28	PP
Tsuruga	E.	5.7	245	i 1	26	+ 2	i 2	35	+ 6	—	—	—
Hikone		5.7	241	e 1	27 ^a	+ 2	2	35	+ 4	—	—	—
Kameyama		5.8	236	1	27	+ 1	2	32	- 1	—	—	—
Tu		5.9	235	e 1	30	+ 3	e 2	42	+ 8	—	—	—
Abashiri		5.9	14	e 1	28	0	e 2	35	+ 1	i 2	56	SS
Maizuru		6.2	245	e 1	34	+ 3	e 2	44	+ 2	—	—	—
Kyoto		6.2	241	e 1	30	- 1	2	40	- 3	—	—	—
Owase		6.5	232	1	37	+ 1	e 2	58	+ 8	—	—	—
Osaka		6.6	239	e 1	36	- 1	e 2	58	+ 6	e 2	19	?
Toyooka		6.6	248	i 1	39 ^a	+ 1	e 2	55	+ 2	—	—	—
Kobe		6.8	240	e 1	45	+ 5	e 3	18	+21	—	—	—
Wakayama		7.1	238	e 1	44	0	e 3	6	+ 2	e 2	27	PPP
Tottori	N.	7.1	250	1	46	+ 2	3	10	+ 6	—	—	—
Siomisaki		7.2	230	e 1	42	- 3	e 3	23	+16	e 2	46	?
Sumoto		7.2	239	e 1	45	0	e 3	6	- 1	—	—	—
Himeji		7.4	242	e 1	42	- 7	—	—	—	—	—	—

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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1956

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Saigo	E.	7.5	257	i 1 52	+ 2	3 27	+13	i 3 43	SSS	4.4
Tokusima		7.6	239	e 1 50	- 1	e 3 10	- 6	e 2 1	PP	—
Yonago		7.8	251	1 57	+ 4	—	—	—	—	—
Takamatu		7.8	242	e 1 53	- 1	e 3 37	+16	—	—	e 3.9
Matsue		8.0	252	e 1 57	+ 1	e 3 29	+ 3	—	—	—
Kurilsk		8.1	29	e 1 58	0	—	—	—	—	—
Muroto		8.3	236	2 4	+ 3	—	—	e 2 10	PP	—
Koti		8.6	239	e 2 4	- 1	e 3 38	- 3	e 3 19	?	—
Yuzno-Sakhlinsk		8.7	2	i 2 7 _a	+ 1	i 3 42	- 2	—	—	—
Hirosima		8.9	247	e 2 9	0 _a	e 3 46	- 3	—	—	—
Hamada		8.9	251	e 2 12	+ 2	e 3 55	+ 5	—	—	—
Matuyama	N.	9.0	243	e 2 10	0	e 3 55	+ 5	—	—	e 4.9
Vladivostok		9.3	305	i 2 14 _a	- 1	e 4 4	+ 5	i 2 26	PPP	—
Simidu		9.4	237	e 2 16	0	e 4 5	+ 3	—	—	—
Ooita		10.1	243	e 2 23	- 2	i 3 55	-23	i 4 37	SS	—
Simonoseki		10.2	248	e 2 38	+11	e 4 43	+22	—	—	—
Asosan		10.6	243	2 35	+ 2	4 44	+12	—	—	—
Hukuoka		10.8	248	e 2 36	+ 2	e 4 39	+ 5	—	—	—
Ulegorsk		10.8	359	i 2 35	0	—	—	—	—	—
Kumamoto		10.9	244	e 2 40	+ 3	—	—	e 3 1	PPP	—
Miyazaki		11.0	238	e 2 37	0	e 4 49	+ 9	—	—	—
Saga		11.0	247	e 2 41	+ 3	—	—	—	—	i 5.5
Kagosima		11.8	239	e 3 3	+15	e 5 6	+ 7	—	—	—
Tomie		12.4	67	e 2 55	- 2	—	—	—	—	—
Yakusima		12.5	235	e 2 53	- 5	—	—	—	—	—
Changchun		14.0	299	e 3 17	- 1	—	—	—	—	—
Petropavlovsk		18.7	32	i 4 15 _a	- 2	i 7 46	+ 6	—	—	—
Z6-S6		18.8	254	i 4 18 _k	- 1	e 7 45	+ 2	4 47	PPP	—
Nanking		20.2	259	4 30 _k	- 4	e 8 14	+ 1	4 52	PP	—
Klyuchi		21.8	28	i 4 51	0	e 8 53	+ 9	i 5 7	PP	—
Magadan		22.0	12	i 4 53	0	i 8 57	+10	—	—	—
Taiyuan		23.4	278	e 5 4	- 2	—	—	—	—	—
Hong Kong		28.9	245	5 57 _k	0	e 10 46	+ 3	—	—	—
Baguio		29.0	227	i 6 6	+ 8	e 10 46	+ 2	—	—	—
Canton		29.1	247	5 58 _k	- 1	e 10 48	+ 2	—	—	—
Irkutsk		29.8	310	i 6 5 _a	0	i 11 1	+ 3	—	—	—
Tiksi		34.2	352	e 6 41	- 2	e 12 8	+ 3	e 9 19	PcP	—
Shillong		44.2	269	i 8 5	- 2	i 14 54	+18	—	—	—
Chatra		47.3	273	e 8 18	-13	—	—	—	—	—
College	Z.	47.7	33	i 8 34	0	i 15 27	+ 1	i 8 49	pP	e 20.0
Frunse		50.4	298	i 8 55 _a	0	i 16 7	+ 3	e 19 36	SS	—
Dehra Dun		52.8	282	e 9 3	-10	i 16 41	+ 4	19 57	SS	—
Tashkent		54.7	298	e 9 26	- 1	e 17 3	+ 1	e 10 28	PcP	—
Sverdlovsk		54.7	318	i 9 27	- 1	17 7	+ 4	10 15	PcP	—
Lahore		55.1	285	9 29	- 1	—	—	—	—	—
Stalinabad		56.2	295	i 9 36	- 2	i 17 22	0	—	—	—
Hyderabad	E.	59.1	268	e 9 55	- 3	i 18 1	+ 1	12 10	PP	26.4
Resolute		61.2	15	i 10 12 _a	- 1	e 18 27	- 1	e 13 52	PPP	28.6
Quetta		61.3	287	i 10 13 _a	- 1	e 18 23	- 6	i 10 24	pP	—
Apatity		61.9	336	i 10 17	0	—	—	e 22 44	SS	—
Poona		62.7	272	i 10 18	- 1	e 18 36	- 3	—	—	—
Bombay		62.7	273	e 10 22	- 1	e 18 47	+ 1	—	—	—
Ashkabad		63.7	299	i 10 29 _a	- 1	i 19 5	+ 6	—	—	—
Sodankyla		64.1	337	i 10 33	+ 1	i 12 47	PP	i 10 53	pP	—
Horseshoe Bay		64.7	46	i 10 36	0	—	—	—	—	—
Victoria		65.0	47	i 10 38	0	—	—	—	—	—
Kiruna		65.6	339	i 10 41 _a	- 1	i 19 44	+21	i 13 3	PP	—
Seattle	Z.	66.1	47	10 47	+ 2	—	—	—	—	—
Brisbane		66.2	170	i 10 44	- 1	—	—	e 11 1	pP	—
Moscow		66.7	323	i 10 47 _a	- 2	i 19 38	+ 2	20 12	PS	—
Corvallis		67.1	5	i 10 53	+ 2	—	—	—	—	—
Pulkovo		67.5	330	i 10 54	0	—	—	—	—	—
Banff		68.0	42	i 10 57	0	—	—	—	—	—
Shasta		69.8	54	i 11 9	+ 1	e 15 29	PPP	i 11 21	pP	—
Ukiah		70.1	56	e 11 10	0	—	—	—	—	—

Continued on next page.

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1956

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		Δ	Az.	P.		O-C.	S.	O-C.	Supp.		L.
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m. s.	s.	m. s.		m.
Hungry Horse		70.4	44	i 11	12	+ 1	i 20 23	+ 4	e 15 35	PPP	—
Mineral		70.5	54	e 11	12 ^a	0	—	—	—	—	—
Tiflis		70.6	308	i 11	13	0	e 20 23	0	e 13 57	PP	—
Goris		70.9	306	e 11	14	- 1	—	—	—	—	—
Scoresby Sund	z.	71.0	354	i 11	16	+ 1	—	—	i 11 37	pP	—
Skalstugan		71.0	339	i 11	15 ^a	- 1	—	—	—	—	—
Berkeley		71.4	56	e 11	18 ^a	0	—	—	—	—	—
Reno		72.1	54	i 11	22 ^a	0	—	—	—	—	—
Lick		72.1	56	e 11	22 ^a	0	—	—	i 11 33	pP	—
Riverview		72.2	172	i 11	22	0	e 20 49	+ 9	—	—	—
Upsala		72.2	334	i 11	21 ^a	- 1	—	—	—	—	—
Butte	N.	72.6	45	e 11	22	- 3	—	—	i 11 33	pP	—
Fresno		73.7	56	e 11	31 ^a	0	—	—	—	—	—
Eureka		74.5	52	i 11	37	+ 1	—	—	—	—	—
Simferopol		75.0	316	i 11	38 ^a	- 1	e 21 12	0	—	—	—
Melbourne	z.	75.8	178	i 11	43	0	—	—	e 11 54	pP	—
Salt Lake City		76.2	49	e 11	46	0	—	—	—	—	—
Pasadena		76.3	57	i 11	46 ^a	0	i 22 3	+ 37	i 11 58	pP	i 35.0
Warsaw		76.4	327	i 11	47	0	e 21 32	+ 4	14 35	PP	40.5
Lwow		76.8	324	i 11	49	0	e 21 36	+ 4	e 12 2	PcP	—
Riverside	z.	76.9	57	i 11	49 ^a	- 1	—	—	i 12 0	pP	—
Iasi		76.9	320	11	49	- 1	—	—	14 56	PP	—
Copenhagen		77.2	334	i 11	52 ^a	+ 1	e 21 43	+ 7	e 12 4	PcP	38.5
Boulder City		77.3	54	i 11	52	0	—	—	e 12 11	pP	—
Palomar	z.	77.6	57	i 11	53	- 1	—	—	i 12 5	pP	—
Rapid City	E.	78.9	42	i 12	4	+ 3	—	—	—	—	—
Hamburg		79.7	333	i 12	7	+ 2	—	—	i 12 28	pP	e 43.5
Boulder		80.5	46	i 12	10	+ 1	—	—	—	—	—
Prague		80.8	329	i 12	11	0	e 15 1	PP	i 12 25	pP	e 42.9
Hurbanovo		80.9	326	e 12	14	+ 3	—	—	—	—	43.5
Ksara		81.0	306	i 12	12	0	e 22 7	- 10	i 12 27	pP	48.5
Bratislava		81.2	326	i 12	15	+ 2	e 22 52	ScS	i 12 28	pP	e 43.5
Jena		81.2	331	e 12	13	0	e 21 58	- 21	e 12 24	pP	—
Cheb		81.6	330	i 12	15	0	—	—	i 12 26	pP	44.8
Safed		81.8	306	i 12	19	+ 3	—	—	i 12 41	pP	—
Belgrade	z.	82.1	322	e 12	30 ^k	+ 12	—	—	e 15 29	PP	—
Tucson		82.3	55	e 12	19	+ 1	—	—	—	—	—
Durham	z.	82.3	340	—	—	—	24 11	PPS	—	—	—
Jerusalem		82.8	305	i 12	23	+ 2	—	—	i 12 36	pP	—
Stuttgart		83.9	331	i 12	27 ^a	0	e 22 37	- 9	e 12 38	PcP	34.8
Tubingen		84.2	331	e 12	29	+ 1	—	—	e 12 40	PcP	—
Ebingen		84.5	331	i 12	30 ^a	0	—	—	e 12 41	PcP	—
Triest		84.6	327	e 12	44	+ 14	e 23 10	+ 18	—	—	—
Strasbourg		84.6	332	i 12	30 ^a	0	e 23 1	+ 8	i 12 50	pP	—
Rathfarnham Castle		84.8	342	i 12	33 ^a	+ 2	—	—	e 16 34	PP	—
Kew		84.9	338	e 12	29	- 3	i 23 20	+ 25	e 12 42	pP	39.5
Basle		85.6	331	e 12	35 ^k	0	e 21 20	?	—	—	—
Kirkland Lake	z.	86.1	27	e 12	38 ^a	+ 1	—	—	—	—	—
Neuchatel		86.2	331	e 12	38	0	—	—	—	—	—
Paris		86.3	335	—	—	—	22 47	[-10]	—	—	e 44.5
Besançon		86.4	33 2	i 12	39	0	—	—	i 12 53	pP	—
Lubbock		86.9	49	e 12	37	- 5	—	—	—	—	—
Florence		87.1	327	e 12	44	+ 1	e 23 21	+ 4	e 24 10	PS	—
Clermont-Ferrand		88.7	333	e 12	52	+ 2	—	—	e 16 21	PP	48.5
Fayetteville		89.4	42	i 12	54 ^a	0	—	—	—	—	—
Shawinigan Falls		89.9	23	i 12	56 ^a	0	—	—	—	—	—
Ottawa		89.9	26	e 12	56 ^a	0	—	—	—	—	—
Seven Falls		90.0	22	e 12	5 5	- 1	—	—	—	—	—
Brébeuf		90.6	24	i 12	59 ^k	0	—	—	—	—	—
Morgantown		93.3	31	i 13	14	+ 2	—	—	—	—	—
Palisades		94.4	27	i 13	18	+ 1	e 24 22	0	e 23 53	SKS	e 42.9
Alicante		96.4	331	13	19	- 7	24 29	- 10	17 16	PP	e 45.9
Tamanrasset	z.	107.0	319	e 14	14	P	e 20 54	PPP	e 18 39	PP	—
Astrida		109.3	282	e 18	56	PKP	—	—	—	—	—
Lwiro		109.8	283	e 19	1	PP	—	—	—	—	—
Kimberley	z.	128.0	261	i 19	3 ^a	+ 1	—	—	—	—	—
Huancayo	z.	137.5	62	e 19	12	- 7	—	—	e 23 18	PKS	—
La Paz		145.6	59	i 19	3 7	+ 3	42 1	SS	i 23 21	PKS	71.0
Santa Lucia	z.	152.9	90	i 19	4 7	+ 2	—	—	20 5	pP'	—

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1956

585

Nov. 24d. 1h. 56m. 13s. Epicentre 21°·93S. 68°·31W. Depth of focus = 0·012R.

A = +0·3431, B = -0·8628, C = -0·3714; $\delta = +8$; $h = +4$;
D = -0·929, E = -0·370; G = -0·137, H = +0·345, K = -0·928.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	
		°	°	m. s.	s.	m. s.	s.	m. s.	
Antofagasta		2·6	228	i 0 41	0	e 1 8	- 4	—	—
La Paz		5·4	2	i 1 22	+ 2	i 2 52	+31	i 1 35	PP
Copiapo	E.	5·7	198	i 1 25	+ 1	i 2 26	- 2	2 52	SS
Santa Lucia	Z.	11·6	190	i 2 40	- 4	5 24	SS	i 3 5	PPP
Huancayo		11·9	325	e 2 45	- 2	e 5 11	+13	—	—
Bogota		27·0	347	e 5 35	+ 2	e 10 28	+27	—	—
Chinchina		27·7	344	i 5 39	- 1	i 10 59	+47	—	—
San Juan		40·1	3	i 7 24	- 2	e 9 3	PP	i 7 52	pP
Columbia		56·9	347	i 9 35	- 1	—	—	i 10 4	pP
Chapel Hill		58·4	350	e 9 45	- 1	—	—	i 10 15	pP
M'Bour		61·9	59	i 10 10	0	—	—	—	—
Fayetteville		62·7	337	i 10 13k	- 2	—	—	e 10 33	pP
Lubbock		63·8	329	i 10 21	- 2	—	—	i 10 50	pP
Brébeuf		67·3	356	i 10 45k	0	i 11 34	sP	i 11 16	pP
Ottawa		67·3	354	e 10 45	0	—	—	11 16	pP
Tucson		67·5	322	i 10 47	+ 1	—	—	—	—
Shawinigan Falls		68·3	357	e 10 50	- 1	—	—	—	—
Seven Falls		68·8	358	e 9 49	?	—	—	—	—
Kirkland Lake	Z.	70·6	352	e 11 4a	- 1	—	—	e 11 35	pP
Boulder		70·6	331	i 11 5	0	—	—	—	—
Barratt	Z.	71·3	318	i 11 11k	+ 2	i 11 53	sP	i 11 41	pP
Hayfield	N.	71·4	320	e 11 11k	+ 1	—	—	—	—
Palomar	Z.	71·9	319	i 11 14k	+ 1	i 11 58	sP	i 11 44	pP
Boulder City		72·5	322	i 11 18	+ 2	—	—	i 11 48	pP
Riverside	Z.	72·6	319	i 11 18k	+ 1	i 12 2	sP	i 11 48	pP
Rapid Cit./	E.	73·0	334	i 11 19	- 1	—	—	i 11 50	pP
Pasadena		73·2	318	i 11 21k	0	i 12 6	sP	i 11 51	pP
Isabella	Z.	74·4	320	i 11 29k	+ 1	i 12 13	sP	i 11 59	pP
King Ranch	Z.	75·0	319	i 11 33k	+ 2	i 12 18	sP	i 11 57	pP
Eureka		75·6	324	i 11 35	+ 1	—	—	i 12 6	pP
Fresno		75·9	320	e 11 36k	0	—	—	—	—
Lick		77·4	319	i 11 45k	0	—	—	—	—
Reno		77·8	322	i 11 48k	+ 1	—	—	—	—
Berkeley		78·1	319	e 11 49k	0	—	—	—	—
Butte	N.	78·6	330	i 11 52	+ 1	i 12 39	sP	i 12 23	pP
Mineral		79·4	321	e 11 55k	0	—	—	i 12 27	pP
Ukiah		79·5	320	e 11 57	+ 1	—	—	—	—
Shasta		80·4	321	i 11 58k	- 1	—	—	i 12 30	pP
Hungry Horse		81·0	331	i 12 4	0	—	—	i 12 36	pP
Grahamstown	Z.	82·1	123	i 12 11	+ 1	—	—	—	—
Kimberley	Z.	82·3	118	i 12 12	+ 1	—	—	—	—
Corvallis		83·0	324	e 12 15	0	—	—	e 13 11	?
Tamanrasset	Z.	84·5	63	e 12 24	+ 2	e 12 36	PcP	i 12 55	pP
Victoria		85·7	327	i 12 28	0	—	—	—	—
Horseshoe Bay		86·1	328	i 12 28	- 2	—	—	i 12 59	pP
Quetta		139·2	69	e 19 18a	[+ 4]	—	—	—	—
Matusiro	Z.	152·8	308	19 46	[+ 10]	—	—	20 20	PKP _s

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1956

586

Nov. 25d. 14h. 15m. 11s. Epicentre 17°·41S. 71°·23W. Depth of focus = 0·009R.

A = +0·3073, B = -0·9040, C = -0·2974; $\delta = +10$; $h = +5$;
D = -0·947, E = -0·322; G = -0·096, H = +0·282, K = -0·955.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
La Paz	3·1	74	0 50	+ 2	1 22	- 2	i 1 4	PP	1·8
Antofagasta	6·2	173	e 1 35	+ 3	e 3 13	+31	i 2 28	S	—
Huancayo	6·6	323	i 1 36 _a	- 1	e 2 41	-11	—	—	—
Santa Lucía	z. 16·0	178	i 3 34	- 7	—	—	—	—	—
Bogota	22·1	352	i 4 50	+ 1	i 9 13	+32	i 8 49	PcP	11·8
Chinchina	22·7	349	i 4 56	+ 2	i 9 4	+13	i 12 26	PcS	—
Trinidad	29·5	20	e 5 58	0	—	—	—	—	—
St. Vincent	31·9	19	i 6 17	- 2	—	—	—	—	—
San Juan	35·9	8	i 6 50	- 4	—	—	—	—	—
Tacubaya	45·8	322	e 8 12	- 2	e 15 12	+22	e 9 42	PcP	—
Columbia	52·0	349	i 9 2	+ 1	—	—	i 9 15	pP	—
Chapel Hill	53·6	352	i 9 14	0	—	—	—	—	—
Fayetteville	57·5	338	i 9 40 _a	- 2	—	—	—	—	—
Palisades	58·2	358	i 9 46	- 1	—	—	—	—	—
Lubbock	58·5	330	e 9 49	0	—	—	e 10 2	pP	—
M'Bour	62·2	63	i 10 15 _a	+ 1	—	—	i 10 34	pP	—
Tucson	62·3	322	e 10 29	+14	—	—	—	—	—
Ottawa	62·6	356	i 10 16 _a	- 1	—	—	—	—	—
Brébeuf	62·6	358	i 10 17 _k	0	—	—	i 10 30	pP	—
Shawinigan Falls	63·7	359	i 10 23 _a	- 1	—	—	—	—	—
Boulder	65·4	332	i 10 35	0	—	—	—	—	—
Kirkland Lake	z. 65·7	354	i 10 36 _a	- 1	—	—	i 10 51	pP	—
Barratt	z. 66·1	319	e 10 40	0	—	—	i 10 54	pP	—
Hayfield	N. 66·2	320	e 10 55	pP	—	—	—	—	—
Palomar	z. 66·7	319	e 10 43	0	—	—	i 10 58	pP	—
Boulder City	67·2	323	i 10 57	+10	—	—	—	—	—
Riverside	z. 67·4	320	e 10 48	0	—	—	i 11 2	pP	—
Rapid City	E. 67·8	336	i 10 51	0	—	—	i 11 5	pP	—
Pasadena	68·0	319	e 10 53	+ 1	e 13 23	PP	i 11 6	pP	—
Salt Lake City	69·1	328	11 0	+ 2	—	—	i 11 14	pP	—
Isabella	z. 69·2	320	i 11 0	+ 1	—	—	i 11 14	pP	—
King Ranch	z. 69·8	319	i 11 5	+ 2	—	—	i 11 18	pP	—
Eureka	70·3	325	i 11 7	+ 1	—	—	i 11 21	pP	—
Lick	72·2	320	i 11 19	+ 2	—	—	i 11 32	pP	—
Reno	72·6	323	e 11 21	+ 2	—	—	—	—	—
Berkeley	72·9	320	e 11 23	+ 2	—	—	e 11 36	pP	—
Mineral	74·1	322	e 11 29	+ 1	—	—	—	—	—
Shasta	74·8	322	e 11 32	0	—	—	e 11 44	pP	—
Hungry Horse	75·8	332	i 11 38	0	—	—	i 11 52	pP	—
Corvallis	77·8	325	e 11 51	+ 2	—	—	e 12 4	pP	—
Banff	78·5	333	i 12 24	+31	—	—	—	—	—
Horseshoe Bay	80·9	328	i 12 6	0	—	—	—	—	—
Toledo	z. 84·5	45	i 12 25 _a	+ 1	—	—	—	—	—
Tamanrasset	z. 85·0	64	i 12 29 _a	+ 2	—	—	e 12 43	pP	—
Kimberley	z. 86·9	119	i 12 36 _k	0	—	—	—	—	—
Algiers Univ.	z. 88·2	51	e 12 42	0	—	—	—	—	—
Rathfarnham C.	z. 89·7	33	e 17 34 _k	?	—	—	e 19 49	?	—
Stuttgart	z. 96·8	41	e 13 22	0	—	—	e 13 38	pP	—
College	100·0	335	e 13 36	- 1	—	—	—	—	—
Rabaul	z. 132·1	247	e 19 5	[+ 1]	e 37 49?	SS	e 22 27	PKS	—
Quetta	139·9	64	e 19 21	[+ 3]	—	—	—	—	—
Poona	z. 146·8	83	i 19 35	[+ 5]	—	—	—	—	—
Matusiro	147·8	312	i 19 37 _a	[+ 5]	—	—	19 52	pP'	i 62·3
Shillong	z. 162·3	60	e 19 52	[+ 1]	—	—	—	—	—

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Nov. 25d. 18h. 7m. 37s. Epicentre 14°·58S. 167°·68E.

A = -0.9459, B = +0.2065, C = -0.2502; $\delta = -3$; $h = +6$;
D = +0.213, E = +0.977; G = +0.244, H = -0.053, K = -0.968.

		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Nouméa		7.8	188	i 1	47	- 7	e 3	23	0	i 2	1	PP	e 3.5
Suva	N.	10.9	110	e 2	37	- 1	4	47	+ 7	—	—	—	5.2
Rabaul		18.4	302	e 4	18	+ 2	e 8	9	+31	i 4	53	PP	—
Brisbane		18.7	224	i 4	21	+ 2	i 7	57	+13	—	—	—	—
Apia		19.9	90	e 4	36	+ 3	—	—	—	e 5	6	PPP	—
Onerahi	E.	21.9	165	e 4	59	+ 6	—	—	—	—	—	—	—
Karapiro	N.	24.3	165	e 5	17	+ 1	—	—	—	—	—	—	—
Riverview		24.3	215	e 5	18	+ 1	i 9	39	+ 7	i 5	32	pP	e 11.9
Tuai	N.	25.5	163	e 5	24	- 4	—	—	—	—	—	—	—
Wellington		27.3	168	e 5	33	-12	e 10	33	+12	e 6	13	PP	e 14.6
Christchurch		29.2	173	e 5	55	- 6	e 10	35	-16	—	—	—	—
Gebbies Pass	N.	29.3	173	e 6	3	0	—	—	—	—	—	—	—
Melbourne		30.7	217	i 6	14	- 1	e 11	22	+ 7	e 12	23	SS	e 13.2
Macquarie IIs.	Z.	40.4	188	i 7	41	+ 3	—	—	—	—	—	—	—
Perth		50.2	240	i 9	4	+ 8	e 16	31	+26	i 11	1	PP	24.4
Baguio City		55.8	302	i 9	31?	- 6	—	—	—	9	43?	?	—
Matusiro		58.0	332	e 9	48 _a	- 5	17	54	+ 4	19	54	ScS	25.8
Zò-Sò		63.7	316	10	32 _a	0	19	13	+10	—	—	—	—
Nanking		65.9	316	10	47 _a	+ 1	19	39	+ 9	—	—	—	—
Changchun		69.8	329	i 11	10 _a	0	—	—	—	—	—	—	—
Peking		72.4	321	e 11	27	+ 1	—	—	—	—	—	—	—
Ukiah		83.6	47	i 12	33	+ 5	—	—	—	—	—	—	—
Berkeley		83.8	48	e 12	28 _a	0	—	—	—	—	—	—	e 37.4
Shillong		83.9	298	i 12	30 _a	+ 1	e 22	52	+ 2	—	—	—	—
Lick		84.0	49	e 12	30 _a	0	—	—	—	i 12	43	PcP	—
King Ranch	Z.	84.7	52	e 12	34	+ 1	—	—	—	—	—	—	—
Shasta		84.8	46	i 12	39	+ 5	—	—	—	e 15	38	PP	—
Fresno		85.2	50	i 12	35 _a	0	—	—	—	—	—	—	—
Pasadena		85.4	53	i 12	36 _a	- 1	—	—	—	e 15	47	PP	e 38.6
Corvallis		85.8	42	e 12	40	+ 1	—	—	—	—	—	—	—
Riverside	Z.	86.0	54	i 12	39 _a	- 1	—	—	—	e 15	57	PP	—
Irkutsk		86.0	327	e 12	39	- 1	—	—	—	—	—	—	—
College		86.1	18	i 12	39	- 1	—	—	—	—	—	—	—
Barratt	Z.	86.1	55	i 12	39	- 1	—	—	—	i 12	47	PcP	—
Palomar	Z.	86.2	54	i 12	40 _a	0	—	—	—	i 13	24	?	—
Reno		86.2	48	e 12	50	+10	e 23	18	- 1	—	—	—	—
Hayfield	N.	87.3	54	e 12	47	+ 1	—	—	—	—	—	—	—
Victoria		87.4	38	e 12	47	+ 1	—	—	—	—	—	—	—
Seattle		87.7	40	e 12	50	+ 2	—	—	—	e 13	5	?	—
Horseshoe Bay		87.9	38	i 12	48	- 1	—	—	—	—	—	—	—
Boulder City		88.6	52	i 12	53	+ 1	—	—	—	i 13	32	?	—
Eureka		88.9	49	i 12	54	0	—	—	—	e 38	47	P'P'	—
Colombo	E.	89.6	277	13	49	+52	e 23	29	[- 5]	—	—	—	e 49.9
Tucson		90.6	57	i 13	3	+ 1	—	—	—	—	—	—	—
Salt Lake City		92.4	49	e 13	10	0	—	—	—	—	—	—	—
Hungry Horse		93.2	41	e 13	13	0	—	—	—	e 16	53	PP	—
Butte	N.	93.4	43	e 13	14	- 4	—	—	—	—	—	—	—
Poona	Z.	98.1	287	e 13	39	+ 3	—	—	—	—	—	—	—
Bombay		99.1	287	e 17	12	?	e 24	23	[+ 7]	e 25	28	?	—
Resolute Bay		105.9	16	—	—	—	e 27	33	PS	e 33	57	PSS	e 47.5
Quetta		106.3	298	e 14	14	- 3	i 25	3	[+13]	e 28	2	PS	—
Huancayo		112.2	110	e 18	36	[+ 3]	e 29	33	PS	e 19	23	PP	—
Chinchina		117.1	92	i 18	49	[+ 6]	i 29	37	PS	i 19	54	PP	55.4
Ottawa		118.9	46	i 18	47 _k	[0]	—	—	—	—	—	—	—
Brebeuf		120.3	46	e 18	49	[0]	—	—	—	—	—	—	—
Shawinigan Falls		120.7	44	e 18	50	[0]	—	—	—	—	—	—	—
Palisades		120.8	51	e 37	48	P'P'	—	—	—	e 46	23	?	e 56.4
Seven Falls		121.9	43	e 17	44 _a	?	—	—	—	—	—	—	—
Kiruna		122.7	346	i 18	53	[- 1]	—	—	—	—	—	—	—
Kimberley	Z.	124.0	220	i 18	59	[+ 3]	—	—	—	—	—	—	—

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	Δ °	Az °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Skalstugan	128.1	346	i 19 5	[+ 1]	—	—	—	—
Ksara	132.5	303	i 19 17	[+ 4]	i 22 43	PKS	i 21 45	PP
Jerusalem	133.5	300	i 19 18	[+ 3]	—	—	—	—
Lwiro	136.0	251	e 19 23	[+ 4]	e 22 44	PKS	—	—
Bratislava	138.6	330	i 19 28	[+ 4]	i 23 1	PKS	i 22 20	PP
Jena	z. 138.9	337	e 19 25	[0]	—	—	—	—
Stuttgart	z. 141.6	337	19 31	[+ 2]	e 23 18	PKS	21 58	PP
Ebingen	z. 142.2	337	e 19 33	[+ 3]	—	—	—	—
Strasbourg	142.3	338	e 19 37	[+ 6]	—	—	e 20 10	?
Basle	143.2	337	e 18 24	[-68]	—	—	e 27 42	?
Taranto	143.5	321	19 13	[-20]	—	—	—	—
Neuchatel	143.9	338	e 19 27	[- 6]	—	—	—	—
Florence	z. 144.6	330	i 19 35 _a	[0]	—	—	i 22 59	PP
Rome	145.4	327	i 19 38 _a	[+ 2]	i 21 46	?	i 22 53	PP
Reggio Calabria	z. 145.9	319	e 19 27	[-10]	—	—	—	—
Clermont-Ferrand	146.3	340	e 19 41	[+ 4]	—	—	20 52	?
Monaco	146.4	334	e 19 40	[+ 2]	—	—	e 19 44	PKP ₂
Toledo	z. 153.8	346	i 19 53	[+ 4]	—	—	—	—
Algiers Univ.	z. 154.0	331	e 19 48	[- 1]	e 20 13	PKP ₂	e 23 47	PP
Alicante	154.1	338	19 50	[+ 1]	26 56	[+ 4]	23 49	PP e 72.9
Relizane	156.0	334	e 19 54	[+ 2]	—	—	20 25	PKP ₂
Tamanrasset	z. 161.2	298	e 20 1	[+ 3]	e 30 59	{-19}	e 24 31	PP
M'Bour	175.5	92	i 20 10	[+ 2]	e 26 56	[-11]	e 25 42	PP

Nov. 26d. 5h. 7m. 56s. Epicentre 0°·69N. 122°·37E.

A = -0.5354, B = +0.8445, C = -0.0119; δ = -2; h = +7;
D = +0.845, E = +0.535; G = -0.006, H = +0.010, K = -1.000.

	Δ °	Az °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Baguio City	15.7	354	i 3 48	+ 3	—	—	—	—
Djakarta	17.0	246	e 4 10 _k	+10	—	—	—	e 9.2
Hong Kong	22.9	340	i 5 9 _k	+ 2	9 15	+ 2	5 41	PP
Canton	24.0	339	i 5 19 _k	+ 2	e 9 29	- 2	6 7	PPP
Rabaul	z. 30.2	100	i 6 16	+ 2	—	—	i 6 38	?
Zô-Sè	30.3	358	6 16 _k	+ 1	e 11 12	- 3	6 50	PP
Nanking	31.4	354	—	—	e 11 30	- 2	—	—
Perth	33.0	190	i 6 38	- 1	e 13 49	SS	i 7 12	? —
Sian	35.7	341	e 7 59	+57	—	—	—	—
Matusiro	38.6	21	i 7 26 _k	- 1	—	—	—	22.9
Peking	39.6	352	e 7 36	+ 1	—	—	8 10	?
Tatung	40.1	349	e 7 42	+ 3	—	—	—	—
Brisbane	40.6	136	i 7 43	- 1	—	—	i 8 10	?
Chatra	z. 42.7	310	i 7 58	- 2	—	—	—	—
Madras	E. 43.6	288	e 8 7	0	—	—	—	—
Melbourne	43.6	154	e 8 8	0	—	—	e 9 57	PP e 18.1
Riverview	43.7	144	i 8 9 _k	0	e 14 39	0	i 9 52	PP
Poona	50.8	293	i 9 3	- 1	—	—	15 10	?
Bombay	51.8	294	e 9 8	- 4	e 16 23	-11	e 17 4	PPS
Irkutsk	53.6	346	—	—	16 53	- 5	—	—
Lahore	54.8	309	9 31	- 3	17 4	-10	—	—
Quetta	60.2	305	e 10 10	- 2	i 18 14	-11	i 10 44	PcP
Namangan	60.8	318	10 16	- 1	18 27	- 7	—	—
Stalinabad	61.8	314	10 22	- 1	18 38	- 8	—	—
Sverdlovsk	74.3	330	11 39	- 2	—	—	—	—
Tiflis	80.3	312	12 12	- 2	—	—	—	—
Safed	87.0	303	i 12 48	- 1	—	—	—	—
Jerusalem	87.2	302	i 12 48	- 2	—	—	i 13 22	?
College	89.3	25	e 13 0	0	—	—	e 13 25	?
Shasta	108.4	46	e 19 4	PP	—	—	—	—

Continued on next page.

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Mineral	109.1	47	e 19 26	PP	—	—	—	—
Hungry Horse	111.1	37	e 19 43	PP	—	—	—	—
Eureka	113.5	46	e 18 40	[0]	—	—	i 19 58	PP
Pasadena	z. 113.6	52	e 18 41	[0]	—	—	e 19 6	PP
Tamanrasset	z. 114.4	295	e 18 41k	[- 1]	—	—	e 20 5	PP
Palomar	z. 114.9	52	e 18 45	[+ 2]	—	—	e 19 19	PP
Boulder City	115.6	49	e 18 45	[+ 1]	—	—	e 19 10	?
Rapid City	E. 119.8	36	e 18 50	[- 2]	—	—	—	—
Lubbock	126.3	46	e 19 4	[- 1]	—	—	19 30	?
Shawinigan Falls	131.1	14	—	—	22 27	SKP	—	—
Ottawa	131.4	17	e 19 15	[0]	e 22 28	SKP	—	—
Huancayo	159.1	123	20 3	[+ 3]	e 25 13	PP	e 21 5	PKP ₂
Chinchina	161.2	72	i 20 2	[0]	—	—	—	—
La Paz	z. 161.2	147	i 20 5	[+ 3]	—	—	i 21 4	PKP ₂

Nov. 26d. 18h. 49m. 52s. Epicentre 25°·93S. 69°·88W. Depth of focus = 0·003R.

A = +0·3097, B = -0·8455, C = -0·4349; δ = -8; h = +3;
D = -0·939, E = -0·344; G = -0·150, H = +0·408, K = -0·900.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Copiapo	E. 1.5	196	i 0 23	- 2	—	—	i 0 30	?
Antofagasta	N. 2.3	348	e 0 36	- 1	i 1 5	0	e 0 52	PP
Santiago	7.5	185	e 1 51	+ 1	i 3 12	- 2	—	—
Santa Lucía	7.5	185	e 1 52	+ 2	i 3 13	- 1	i 1 58	PP
La Paz	9.5	10	i 2 19 _a	+ 1	i 4 8	+ 4	i 2 35	PPP
Buenos Aires	13.1	134	3 3	- 3	5 33	+ 3	—	—
Huancayo	14.7	339	i 3 30	+ 3	e 6 29	+20	—	—
Bogota	30.6	352	i 6 14	+ 2	i 11 11	+ 2	7 15	PP
Chinchina	31.2	349	i 6 16	- 1	i 11 20	+ 2	i 7 35	PPP
St. Vincent	39.8	13	e 7 28	- 1	—	—	—	—
Dominca	41.8	12	e 7 45	- 1	—	—	—	—
San Juan	44.2	5	i 8 2	- 4	e 14 24	-10	i 8 18	pP
Vera Cruz	51.6	328	e 9 11	+ 8	e 16 38	+19	e 19 11	ScS
Tacubaya	53.3	325	i 9 29	+13	—	—	12 35	PPP
Bermuda	58.2	5	i 9 52	+ 1	i 18 0	+13	—	—
Columbia	60.5	349	i 10 5	- 2	—	—	i 10 17	pP
Chapel Hill	62.1	352	i 10 16	- 2	—	—	i 10 32	pP
M'Bour	65.2	58	i 10 41	+ 3	e 19 30	+14	i 11 2	pP
Fayetteville	65.8	339	i 10 42 _a	0	e 11 15	PcP	e 10 56	pP
Lubbock	66.5	331	i 10 45	- 2	e 19 31	- 1	i 11 1	pP
Palisades	66.7	357	i 10 47 _a	- 1	i 19 35	+ 1	i 20 29	ScS
Pennsylvania	66.8	353	i 10 52	+ 4	e 19 42	+ 7	—	—
Cleveland	z. 67.9	351	i 10 52	- 3	—	—	i 11 8	pP
Tucson	69.8	324	i 11 22	+15	e 20 14	+ 3	—	—
Brebeuf	71.2	357	i 11 15 _k	0	—	—	i 11 30	pP
Ottawa	71.2	356	i 11 15 _a	0	20 28	+ 1	i 11 31	pP
Shawinigan Falls	72.2	358	i 11 27 _a	+ 6	—	—	11 43	pP
Seven Falls	72.7	359	i 10 14 _a ?	?	19 38?	?	10 35?	?
Hayfield	N. 73.3	319	e 11 30	+ 3	—	—	—	—
Barratt	z. 73.4	320	i 11 29 _a	+ 1	—	—	i 11 44	pP
Boulder	73.4	332	i 11 29	0	—	—	—	—
Palomar	z. 74.0	320	i 11 32 _a	0	—	—	i 11 47	pP
Kirkland Lake	z. 74.3	353	i 11 33 _a	- 1	—	—	e 11 48	pP
Riverside	z. 74.7	321	i 11 35 _a	- 1	—	—	i 11 51	pP
Boulder City	74.8	324	i 11 13	-23	i 11 36	P	11 51	pP
Pasadena	75.3	320	i 11 39 _a	0	e 21 11	- 2	i 11 55	pP
Rapid City	E. 76.1	336	i 11 44	0	—	—	11 59	pP
Salt Lake City	77.0	329	e 11 48	- 1	—	—	i 12 4	pP
King Ranch	z. 77.0	320	i 11 51	+ 2	—	—	i 12 6	pP
Eureka	78.0	325	i 11 55	+ 1	e 38 56	P'P'	i 12 12	pP

Continued on next page.

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		Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Fresno		78.1	321	e 11 54	- 1	—	—	e 12 9	pP	—
Lick		79.5	320	e 12 4 _a	+ 1	—	—	i 12 19	pP	—
Reno		80.1	323	e 12 6	0	—	—	e 12 22	pP	—
Berkeley		80.3	320	e 12 6 _a	- 1	e 22 10	+ 2	e 12 22	pP	—
Grahamstown	z.	81.2	123	i 12 15 _a	+ 3	—	—	—	—	—
Butte	N.	81.4	332	i 12 13	0	—	—	i 12 29	pP	—
Mineral		81.7	323	e 12 14	0	—	—	—	—	—
Ukiah		81.7	321	e 12 14	0	—	—	i 12 29	pP	—
Kimberley	z.	81.7	118	i 12 15	+ 1	—	—	—	—	—
Shasta		82.3	322	i 12 16 _a	- 1	—	—	i 12 32	pP	—
Hungry Horse		83.9	332	i 12 25	0	—	—	i 12 43	pP	—
Corvallis		85.4	325	e 12 24	- 9	—	—	12 49	pP	—
Pietermaritzburg	z.	85.8	121	i 12 34	- 1	—	—	—	—	—
Tamanrasset	z.	87.6	63	i 12 45 _a	+ 1	e 23 57	SP	e 13 16	pP	—
Victoria		88.2	328	i 12 46	- 1	—	—	—	—	—
Horseshoe Bay		88.8	328	i 12 48	- 1	—	—	—	—	—
Tongariro	z.	91.0	225	e 13 0	0	—	—	e 13 16	pP	—
Algiers Univ.	z.	92.7	50	e 13 7	- 1	—	—	e 13 27	pP	—
Lwiro		96.8	96	i 17 23	PP	—	—	—	—	—
Astrida		97.5	97	e 17 29	PP	—	—	—	—	—
Florence	z.	101.5	47	e 18 18	PP	—	—	—	—	—
Resolute Bay		101.7	353	14 0	pP	e 25 17	- 4	18 1	PP	42.5
Ebingen	z.	101.9	42	e 18 20	PP	—	—	—	—	—
Stuttgart	z.	102.3	42	e 18 26	PP	—	—	—	—	—
Triest	z.	103.9	46	e 18 18	PP	—	—	18 34	pPP	—
Ksara		116.4	63	e 18 27	[- 11]	i 20 47	PP	e 19 3	pP'	59.1
Rabaul	z.	129.4	240	i 19 4	[+ 1]	e 22 20	PKS	i 19 20	pP'	—
Quetta		141.8	74	e 19 23	[- 3]	i 23 10	PKS	e 22 46	PP	—
Bombay		144.9	94	e 19 32	[+ 1]	e 22 49	PP	e 19 50	pP'	—
Guam		145.2	256	i 19 33	[+ 1]	—	—	—	—	—
Poona	z.	145.7	95	i 19 37	[+ 4]	—	—	—	—	—
Lahore		148.2	71	19 38	[+ 1]	—	—	19 57	pP'	—
Dehra Dun		151.4	74	e 19 51	[+ 9]	—	—	—	—	—
Matusiro		153.8	301	e 19 47	[+ 2]	30 31	SKKS	43 17	SS	70.1

Nov. 26d. 23h. 29m. 41s. Epicentre 21°·57S. 169°·13E.

A = -0.9141, B = +0.1756, C = -0.3655; δ = 0; h = +4;
D = +0.189, E = +0.982; G = +0.359, H = -0.069, K = -0.931.

		Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Nouméa		2.6	253	i 0 46	+ 2	i 1 24	+ 7	e 8 35	PcP	—
Suva	N.	9.4	70	i 2 21 _a	+ 1	i 4 30	+ 22	—	—	—
Onrahi	E.	14.9	163	e 3 38	+ 4	e 6 36	+ 16	—	—	e 7.8
Brisbane		15.8	245	i 3 42	- 4	i 6 39	- 3	—	—	—
Auckland	N.	16.0	163	i 3 49 _k	0	i 7 1	+ 14	e 7 41	SSS	e 8.3
Karapiro	N.	17.2	163	e 4 5	+ 1	e 7 20	+ 5	—	—	—
Tongariro	z.	18.4	164	e 4 19	0	—	—	—	—	—
Tuai	N.	18.5	160	e 4 21	+ 1	e 7 48	+ 4	—	—	—
Cobb River	E.	19.7	172	e 4 37	+ 3	e 8 25	+ 14	—	—	—
Apia		19.8	70	e 4 33	- 2	e 8 16	+ 4	e 4 54	PP	e 8.7
Riverview		20.0	229	i 4 36 _k	- 2	i 8 38	SS	i 4 54	PP	e 9.3
Wellington		20.2	168	i 4 37 _a	- 3	i 8 29	+ 7	i 7 17	?	e 10.2
Kaimata	N.E.	21.0	175	e 4 46	- 2	e 8 47	+ 10	—	—	—
Christchurch		22.1	173	4 55	- 4	i 9 5	+ 7	—	—	—
Gebbies Pass	N.	22.3	173	e 4 58	- 2	e 9 4	+ 3	—	—	12.3
Rabaul	z.	23.9	314	e 5 18	+ 2	—	—	i 5 25	?	—
Melbourne		26.4	227	i 5 38	- 2	i 10 13	0	i 6 24	PP	e 12.3
Macquarie IIs.		33.8	191	i 6 45	- 1	—	—	—	—	e 14.7
Guam		42.2	323	i 7 48	- 9	—	—	i 8 15	?	—
Perth		48.3	246	i 8 54	+ 9	i 15 51	+ 6	i 10 51	PP	23.2

Continued on next page.

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	Δ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.	
Djakarta	62.0	274	i 10	24 _a	- 1	i 18	52	+ 3	—	—	—	
Matusiro	64.8	333	i 10	42 _k	- 1	19	21	- 2	22	51	SS	26.7
Hong Kong	69.1	306	e 11	10	0	e 20	19?	+ 4	—	—	—	—
Zò-Sò	69.7	317	e 11	15	+ 1	e 20	26	+ 4	—	—	—	—
Canton	70.2	306	e 11	18	+ 1	e 20	32	+ 4	—	—	—	—
Nanking	71.8	316	e 11	26	- 1	e 20	52	+ 5	—	—	—	—
Yuzno-Sakhlinsk	72.2	341	11	33	+ 4	21	6	+14	—	—	—	—
Petropavlovsk	74.9	354	i 11	40	- 5	21	30	+ 8	—	—	—	—
Changchun	76.5	329	e 11	53	- 1	e 21	45	+ 6	—	—	—	—
Peking	78.7	321	i 12	8 _a	+ 2	22	10	+ 7	—	—	—	—
Santa Clara	87.4	48	e 12	55 _a	+ 4	—	—	—	—	—	—	—
Ukiah	87.4	46	e 12	50 _k	- 1	—	—	—	—	—	—	—
Berkeley	87.4	48	e 12	51 _k	0	23	22	[+ 5]	—	—	—	e 40.9
Lick	87.6	48	e 12	51 _k	- 1	—	—	—	i 13	7	?	—
King Ranch	z. 88.0	51	i 12	45	- 8	e 23	37	- 3	—	—	—	—
Pasadena	88.6	52	i 12	56 _k	0	i 23	29	[+ 5]	e 16	31	PP	e 40.9
Fresno	88.6	49	e 12	56 _k	0	—	—	—	—	—	—	—
Shasta	88.7	45	i 12	57 _k	0	—	—	—	—	—	—	—
Woody	E. 88.8	51	e 12	57	0	—	—	—	—	—	—	—
Barratt	89.0	54	i 12	58 _k	0	i 23	30	-16	—	—	—	—
Riverside	z. 89.1	53	i 12	58 _k	- 1	e 23	27	-19	e 16	27	PP	—
Palomar	z. 89.2	54	i 12	59 _k	0	—	—	—	i 13	28	?	—
Reno	89.9	47	e 13	2	- 1	e 23	36	[+ 4]	—	—	—	—
Corvallis	90.1	41	e 13	3	- 1	—	—	—	—	—	—	—
Hayfield	N. 90.1	54	i 13	5	+ 2	e 23	43	{ 0}	—	—	—	—
Colombo	E. 91.8	277	11	19	?	e 23	46	[+ 3]	—	—	—	e 45.3
Boulder City	91.8	52	i 13	11 _k	0	—	—	—	i 13	37	?	—
Victoria	92.0	38	e 13	12	- 1	i 23	50	[+ 6]	—	—	—	—
College	92.3	17	i 13	12 _a	- 2	e 23	42	[- 4]	e 44	41	?	e 48.8
Eureka	92.5	48	i 13	14 _k	- 1	i 24	25	+ 8	e 23	39	SKS	—
Horseshoe Bay	92.6	37	e 13	14	- 1	—	—	—	—	—	—	—
Irkutsk	92.6	326	12	15	-60	24	25	+ 7	—	—	—	—
Tucson	93.3	57	e 13	21 _a	+ 3	e 23	57	[+ 5]	e 25	43	PS	e 42.1
Madras	E. 93.7	282	—	—	—	e 24	14	-14	—	—	—	—
Kodaikanal	E. 95.2	279	—	—	—	e 24	5	[+ 3]	—	—	—	—
Salt Lake City	95.9	49	e 13	30 _k	0	—	—	—	—	—	—	—
Butte	N. 97.5	44	e 13	37 _k	- 1	i 24	21	[+ 7]	e 26	31	PS	e 39.3
Hungry Horse	97.5	41	e 13	41	+ 3	—	—	—	e 30	17	PKKP	—
Lubbock	100.8	58	e 13	48	- 5	e 24	34	[+ 3]	—	—	—	e 50.6
Poona	z. 101.3	286	e 13	56	+ 1	—	—	—	—	—	—	—
Bombay	102.4	286	e 18	19	PP	24	50	[+11]	e 20	19	PPP	—
Rapid City	E. 103.1	48	e 14	17	+14	24	49	[+ 7]	e 18	18	PP	e 58.8
Fayetteville	107.6	58	e 29	44	PKKP	—	—	—	—	—	—	—
Huancayo	108.5	112	e 29	49	PKKP	e 25	45	{ - 9}	e 19	7	PP	e 43.8
Namangan	109.3	307	e 19	8	PP	—	—	—	—	—	—	—
Quetta	110.7	295	e 18	36	[+ 1]	e 25	15	[0]	e 14	38	P	—
Florissant	E. 111.1	56	—	—	—	28	44	PS	26	14	SKKKS	—
St. Louis	E. 111.2	56	—	—	—	28	44	PS	26	13	SKKKS	—
Resolute Bay	112.2	17	e 18	35	[- 3]	e 26	28	[+66]	28	54	PS	e 53.5
La Paz	112.3	119	i 19	29	PP	i 25	35	[+13]	i 35	3	SS	51.3
Chinchina	115.3	95	i 18	46	[+ 2]	i 25	42	[+ 9]	—	—	—	57.3
Bogota	116.6	96	—	—	—	i 36	3	SS	i 29	58	PS	56.3
Hermanus	117.4	208	—	—	—	e 26	19?	[+38]	—	—	—	—
Kirkland Lake	119.5	46	e 18	55	[+ 3]	—	—	—	—	—	—	—
Ottawa	122.6	49	i 18	58 _k	[0]	—	—	—	—	—	—	—
Palisades	123.9	54	e 20	42	PP	e 26	10	[+ 7]	30	47	PS	e 58.5
Brébeuf	124.0	49	e 18	59	[- 2]	—	—	—	—	—	—	—
Shawinigan Falls	124.6	48	i 19	2 _k	[0]	—	—	—	—	—	—	—
Seven Falls	125.8	47	e 17	55 _k ?	?	26	43?	?	29	44?	?	—
San Juan	128.2	83	e 19	4	[- 5]	e 25	47	[-29]	e 31	19	PS	e 65.1
Sodankyla	128.5	342	i 19	9	[0]	—	—	—	i 19	24	?	—
Tiflis	129.4	307	19	11	[0]	—	—	—	—	—	—	—
Kiruna	129.8	345	i 19	10	[- 2]	—	—	—	—	—	—	—
Moscow	130.6	326	19	16	—	23	0	PKS	—	—	—	—
Bermuda	131.3	65	i 21	41	PP	i 22	43	PKS	i 24	44	PPP	e 61.7

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Astrida		133.6	244	e 19 21	[+ 2]	—	—	e 21 50	PP	—
Lwiro		134.6	244	e 19 25	[+ 4]	—	—	e 21 56	PP	—
Skalstugan		135.2	346	i 19 23	[+ 1]	—	—	—	—	—
Simferopol		136.0	313	e 19 26	[+ 1]	e 23 4	PKS	—	—	—
Upsala		136.8	339	i 19 29	[+ 4]	—	—	—	—	—
Ksara		137.2	297	i 19 26	[0]	e 26 34	[- 1]	i 22 22	PP	71.3
Safed		137.6	296	i 19 35	[+ 9]	—	—	19 56	?	—
Jerusalem		137.8	294	i 19 33	[+ 6]	—	—	e 22 22	PP	—
Iasi		139.9	319	19 38	[+ 7]	23 8	PKS	—	—	—
Raciborz		143.5	328	e 19 35	[- 2]	i 22 5	PKS	e 19 40	PKP ₂	—
Hamburg	z.	144.3	339	i 19 39	[+ 1]	—	—	—	—	—
Sofia		144.5	314	i 19 38	[- 1]	—	—	—	—	—
Hurbanovo		144.9	325	i 19 46	[+ 7]	—	—	—	—	—
Prague		145.3	331	i 19 41k	[+ 1]	—	—	—	—	—
Bratislava		145.3	327	i 19 41	[+ 1]	—	—	—	—	—
Belgrade	z.	145.4	319	i 19 41a	[+ 1]	—	—	e 23 29	PP	—
Jena		145.8	334	e 19 41	[0]	e 22 48	PP	e 19 48	PKP ₂	—
Witteveen	z.	146.0	341	i 19 43a	[+ 2]	—	—	—	—	—
Cheb		146.2	333	i 19 45	[+ 3]	e 23 47	PKS	—	—	—
Rathfarnham C.	z.	148.1	355	i 19 49k	[+ 4]	—	—	i 19 58	PKP ₂	—
Stuttgart	z.	148.5	334	e 19 44	[- 1]	—	—	i 19 55	PKP ₂	—
Karlsruhe	z.	148.6	335	19 49k	[+ 3]	—	—	i 19 55	PKP ₂	—
Triest		148.7	326	i 19 46a	[0]	—	—	—	—	—
Tubingen		148.7	334	e 19 51	[+ 5]	—	—	e 19 59	PKP ₂	—
Kew		149.0	347	e 19 50	[+ 4]	—	—	20 7	PKP ₂	e 60.3
Ebingen	z.	149.0	334	e 19 45	[- 1]	—	—	i 19 53	PKP ₂	—
Strasbourg		149.2	336	i 19 49a	[+ 2]	e 23 38	PP	i 20 1	PKP ₂	—
Taranto		149.6	315	19 50	[+ 3]	29 25	?	34 19	PS	—
Basle		150.1	334	e 19 55	[+ 7]	—	—	—	—	—
Paris		150.8	342	e 19 51	[+ 2]	—	—	e 20 1	PKP ₂	—
Neuchatel		150.8	335	e 19 55	[+ 6]	—	—	—	—	—
Besançon		151.0	336	i 19 50	[+ 1]	—	—	i 20 13	PKP ₂	—
Florence	z.	151.2	326	i 19 50a	[0]	—	—	i 20 9	PKP ₂	—
Rome		151.8	321	i 19 57	[+ 7]	e 29 44	{-44}	e 21 18	PKP ₂	e 71.3
Reggio Calabria	z.	151.8	312	e 19 59	[+ 8]	—	—	—	—	—
Monaco		153.2	330	e 19 51	[- 1]	—	—	e 20 13	PKP ₂	—
Clermont-Ferrand		153.3	338	e 19 54	[+ 1]	—	—	i 20 3	PKP ₂	—
Algiers Univ.	z.	160.6	324	e 20 0	[- 2]	e 24 30	PP	20 39	PKP ₂	—
Toledo	z.	160.8	344	e 20 2	[0]	24 28	PP	i 20 48	PKP ₂	—
Alicante		161.0	334	e 20 2	[0]	27 6	[0]	24 32	PP	e 76.6
Relizane		162.7	327	e 20 7	[+ 3]	e 25 0	PP	e 20 58	PKP ₂	—
Almeria		163.1	336	20 4	[0]	23 30	PKS	20 54	PKP ₂	86.3
Granada		163.2	340	20 11k	[+ 7]	e 30 53	{-36}	i 24 44	PP	i 87.1
Malaga		163.9	341	i 20 7a	[+ 2]	i 25 1	PP	i 21 5	PKP ₂	76.6
Tamanrasset	z.	164.8	278	e 20 7	[+ 1]	e 24 47	PP	e 21 3	PKP ₂	—
M'Bour		170.8	140	i 20 12	[+ 2]	i 25 19	PP	i 21 31	PKP ₂	80.3

Nov. 27d. 0h. 51m. 46s. Epicentre 21°-33S. 168°-86E.

A = -0.9147, B = +0.1801, C = -0.3617; δ = -6; h = +4;
D = +0.193, E = +0.981; G = +0.355, H = -0.070, K = -0.932.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Nouméa		2.4	246	i 0 40?	- 2	—	—	—	—	—
Suva	N.	9.6	72	e 2 26	+ 4	e 4 35	+23	—	—	e 5.0
Brisbane		15.7	244	i 3 43	- 1	i 6 58	+19	—	—	—
Apia		19.9	71	e 4 42	+ 6	—	—	4 59	PP	—
Riverview		20.0	228	i 4 37a	0	e 8 23	+ 6	i 4 59	PP	e 9.4
Wellington		20.5	167	e 4 46	+ 3	i 8 34	+ 6	—	—	e 11.1
Christchurch		22.4	173	—	—	e 8 54	- 9	—	—	e 9.6
Gebbies Pass	N.	22.5	173	e 5 5	+ 2	—	—	—	—	—
Raubal	z.	23.5	314	i 5 18	+ 5	—	—	—	—	—
Melbourne		26.4	226	e 5 40	0	e 10 7	- 5	e 6 23	PP	e 11.7

Continued on next page.

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1956		593										
		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Djakarta		61.7	274	e 10	22 _a	- 1	e 19	2	+18	—	—	—
Matusiro	z.	64.4	333	i 10	42 _k	+ 1	—	—	—	—	—	—
Nanking		71.5	317	e 11	27	+ 2	—	—	—	—	—	—
Changchun		76.2	329	i 11	53 _k	+ 1	—	—	—	—	—	—
Peking		78.3	321	e 12	7	+ 3	e 22	18	+19	—	—	—
Ukiah		87.4	46	e 12	50	- 1	—	—	—	—	—	—
Berkeley		87.4	48	e 12	51 _k	0	—	—	—	i 13	0	?
Lick		87.6	48	i 12	52 _k	0	—	—	—	i 12	58	?
King Ranch	z.	88.0	51	e 12	54	0	—	—	—	i 13	4	?
Pasadena		88.6	52	i 12	56 _k	- 1	—	—	—	e 16	32	PP
Fresno		88.6	50	e 12	56 _k	- 1	—	—	—	i 13	6	?
Shasta		88.7	45	i 12	55 _k	- 2	—	—	—	i 13	7	?
Barratt	z.	89.1	54	i 12	58 _k	- 1	—	—	—	i 13	8	?
Mineral		89.1	46	e 12	58 _k	- 1	—	—	—	e 13	7	?
Riverside	z.	89.1	53	i 12	57 _k	- 2	—	—	—	i 13	7	?
Palomar	z.	89.2	54	i 12	59 _k	0	—	—	—	i 13	8	?
Reno		89.9	47	e 13	2	- 1	—	—	—	e 13	12	?
Corvallis		90.1	41	e 13	3	- 1	—	—	—	e 13	12	?
Hayfield	N.	90.2	54	e 13	5	+ 1	—	—	—	—	—	—
Boulder City		91.9	52	i 13	12	0	—	—	—	i 13	21	?
Victoria		92.0	38	e 13	11	- 1	—	—	—	—	—	—
College		92.1	17	i 13	11	- 2	—	—	—	—	—	—
Horseshoe Bay		92.5	37	e 13	15	0	—	—	—	—	—	—
Eureka		92.5	48	i 13	14	- 1	—	—	—	—	—	—
Tucson		93.4	57	e 13	18	- 1	—	—	—	—	—	—
Salt Lake City		96.0	49	e 13	30	- 1	—	—	—	—	—	—
Butte	N.	97.5	44	e 13	37	- 1	—	—	—	—	—	—
Hungry Horse		97.5	41	e 12	35	-63	—	—	—	—	—	—
La Paz		112.6	119	19	22	PP	—	—	—	—	—	—
Sodankyla		128.2	342	e 19	10	[+ 1]	—	—	—	—	—	—
Kiruna		129.5	345	e 19	11	[0]	—	—	—	—	—	—
Astrida		133.5	244	e 18	21	[- 58]	—	—	—	—	—	—
Lwiro		134.4	244	e 19	25	[+ 4]	—	—	—	—	—	—
Raciborz		143.2	328	e 19	36	[0]	—	—	—	e 20	15?	—
Hamburg	z.	144.0	339	i 19	38	[0]	—	—	—	—	—	—
Sofia		144.2	314	i 19	38	[0]	—	—	—	—	—	—
Bratislava		144.9	326	i 19	40	[0]	—	—	—	—	—	—
Prague		144.9	331	i 19	40 _k	[0]	—	—	—	—	—	—
Jena	z.	145.5	334	e 19	40	[- 1]	—	—	—	e 19	51	?
Cheb		145.8	333	i 19	43	[+ 2]	—	—	—	—	—	—
Stuttgart	z.	148.2	334	e 19	46	[+ 1]	—	—	—	e 19	58	PKP ₂
Triest	z.	148.3	326	e 19	43	[- 2]	—	—	—	i 19	58	PKP ₂
Tubingen		148.4	334	e 19	51	[+ 6]	—	—	—	—	—	—
Ebingen	z.	148.7	334	e 19	50	[+ 4]	—	—	—	e 19	56	PKP ₂
Strasbourg		148.9	335	e 19	51	[+ 5]	—	—	—	i 19	57	PKP ₂
Basle		149.8	334	e 19	54	[+ 6]	—	—	—	—	—	—
Paris		150.5	342	e 19	55	[+ 6]	—	—	—	e 20	6	PKP ₂
Besançon		150.7	336	i 19	56	[+ 7]	—	—	—	e 20	4	PKP ₂
Florence	z.	150.9	325	i 19	48 _a	[- 1]	—	—	—	i 20	4	PKP ₂
Rome	z.	151.4	321	e 19	47 _a	[- 3]	—	—	—	i 19	57	PKP ₂
Monaco		152.8	330	e 19	53	[+ 1]	—	—	—	e 20	10	PKP ₂
Clermont-Ferrand		153.0	338	e 20	2	[+10]	—	—	—	—	—	—
Algiers Univ.	z.	160.3	324	e 19	55	[- 7]	e 24	21	PP	20	45	PKP ₂
Relizane		162.4	327	e 20	7	[+ 3]	—	—	—	—	—	—
Tamanrasset	z.	164.5	278	i 20	7 _k	[+ 1]	e 28	27	PPP	e 24	47	PP
M'Bour		171.1	140	i 20	12	[+ 2]	—	—	—	e 21	30	PKP ₂

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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1956

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Nov. 28d. 15h. 11m. 35s. Epicentre 29°·74S. 176°·16W.

A = -0.8678, B = -0.0583, C = -0.4935; $\delta = +2$; $h = +2$;
D = -0.067, E = +0.998; G = +0.492, H = +0.033, K = -0.870.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Onerahi	E.	10.0	230	2 29	+ 1	—	—	e 3 6	?
Tuai	N.	10.6	210	e 2 38	+ 2	4 22	-15	—	—
Karapiro	N.	10.7	218	e 3 2	+25	—	—	—	—
Suva	N.	12.6	336	e 3 3	0	5 8	-16	—	e 6.1
Wellington	N.	13.7	210	e 3 12	- 6	i 5 31	-20	—	—
Cobb River	E.	14.5	216	e 3 33	+ 5	5 50	-21	—	—
Kaimata	N.E.	16.2	215	—	—	e 6 33	-18	—	—
Gebbies Pass	N.	16.6	210	e 3 48	- 7	6 36	-23	—	—
Nouméa		17.3	291	e 4 6	+ 2	e 7 17	+ 1	e 7 41	SS
Brisbane		27.1	267	i 5 45	- 1	10 17	- 7	—	—
Riverview		28.0	253	5 57 _a	+ 2	10 34	- 5	i 6 40	PP
Melbourne		33.1	246	i 6 38	- 2	e 12 11	+12	i 6 59	PP
Rabaul	z.	39.3	304	e 7 30	- 2	—	—	e 9 9	PP
Matusiro		78.6	324	12 4	- 1	21 56	- 6	e 20 52	?
King Ranch	z.	83.7	43	e 12 34	+ 2	—	—	—	—
Barratt	z.	83.8	47	i 12 32 _a	- 1	—	—	—	—
Pasadena		83.9	45	i 12 33 _a	0	—	—	—	e 39.2
Lick		84.0	41	e 12 34	0	—	—	e 12 45	?
Berkeley		84.0	40	i 12 34 _a	0	—	—	—	—
Palomar	z.	84.2	46	i 12 34 _a	0	—	—	—	—
Riverside	z.	84.3	46	12 35 _a	0	—	—	e 15 49	PP
Ukiah		84.4	39	e 12 36	+ 1	—	—	—	—
Hong Kong	z.	84.6	299	12 37	0	—	—	—	—
Fresno		84.7	42	12 37 _a	0	—	—	e 12 48	?
Hayfield	N.	85.2	47	12 41	+ 2	—	—	—	—
Santa Lucia	z.	85.6	126	12 40	- 2	—	—	—	—
Shasta		86.0	38	e 12 44	+ 1	—	—	e 12 55	?
Mineral		86.2	39	e 12 44	0	—	—	—	—
Reno		86.6	40	e 12 47	+ 1	—	—	—	—
Boulder City		87.1	45	e 12 49	0	—	—	13 0	PcP
Tucson		87.4	50	e 12 51	+ 1	—	—	e 13 3	PcP
Eureka		88.7	42	i 12 57	0	—	—	i 13 8	PcP
Victoria		91.1	32	13 7	- 1	—	—	—	—
Salt Lake City		92.0	44	e 13 12	0	—	—	—	—
Huancayo	z.	93.3	106	e 13 20	+ 2	—	—	e 17 17	PP
Butte	N.	94.8	39	e 13 24	- 1	—	—	—	—
Hungry Horse		95.5	36	13 24	- 4	—	—	—	—
La Paz		96.8	113	13 35	+ 1	24 5	[- 6]	—	—
College		96.9	12	e 13 33	- 1	—	—	e 16 53	PP
Resolute		116.1	17	e 18 43	[- 2]	—	—	—	—
Quetta		126.0	287	e 19 5 _a	[+ 1]	e 28 6	{+12}	e 31 22	PS
Sverdlovsk		132.4	322	e 18 52	[-25]	—	—	—	—
Sodankyla		139.9	346	19 31	[+ 1]	—	—	—	—
Kiruna		140.6	350	i 19 31	[- 1]	—	—	—	—
Moscow		144.7	327	e 19 37	[- 3]	—	—	—	—
Skalstugan		145.7	353	19 41 _a	[+ 1]	—	—	—	—
Upsala		148.5	347	i 19 47 _a	[+ 2]	—	—	—	—
Ksara		152.5	287	e 19 45	[- 6]	—	—	23 41	PP
Jerusalem		153.0	282	e 19 50	[- 2]	—	—	e 20 11	PKP ₂
Jena	z.	158.0	347	e 19 57	[- 2]	—	—	20 32	PKP ₂
Prague		158.2	341	i 20 34	[+35]	—	—	e 20 59	PKP ₂
Bratislava		159.0	335	i 20 1	[+ 1]	—	—	20 38	PKP ₂
Stuttgart	z.	160.6	349	20 1	[0]	—	—	20 43	PKP ₂
Strasbourg		161.0	352	20 1 _k	[- 1]	—	—	20 45	PKP ₂
Ebingen	z.	161.2	349	20 1	[- 1]	—	—	20 46	PKP ₂
Tamanrasset	z.	172.9	193	i 20 12 _a	[+ 1]	25 25	PP	21 37	PKP ₂
Algiers Univ.	z.	173.0	5	e 20 12	[+ 1]	—	—	e 21 31	PKP ₂

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1956

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Nov. 28d. 19h. 27m. 17s. Epicentre 49°·25N. 155°·32E. Depth of focus = 0·003R.

A = -0·5954, B = +0·2736, C = +0·7554; $\delta = -1$; $h = -5$;
D = +0·418, E = +0·909; G = -0·686, H = +0·315, K = -0·655.

		Δ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.	
				m.	s.		m.	s.		m.	s.		
Petropavlovsk		4·4	27	i 1	7 _a	0	i 1	57	- 1	1	29	sP	—
Klyuchi		7·8	23	i 1	55	+ 1	—	—	—	i 2	4	PP	—
Yuzno-Sakhlinsk		8·7	260	i 2	11 _k	+ 4	i 3	52	+ 7	2	31	sP	—
Nemuro		9·0	232	e 2	7	- 3	e 3	43	- 8	e 2	37	?	—
Abashiri		9·2	240	i 2	18	+ 4	—	—	—	—	—	—	—
Kusiro		9·8	234	e 2	20	- 2	e 4	4	- 8	—	—	—	e 4·8
Wakkanai	N.	10·0	253	e 2	37	+ 12	—	—	—	—	—	—	—
Asahigawa		10·5	243	e 2	37	+ 6	—	—	—	—	—	—	—
Obihiro	Z.	10·5	238	e 2	33	+ 2	—	—	—	—	—	—	—
Urakawa		11·3	236	e 2	43	+ 1	e 4	44	- 3	—	—	—	—
Sapporo		11·5	243	e 2	48	+ 4	e 4	58	+ 6	e 3	6	PPP	e 6·2
Tomakomai		11·7	240	e 2	50	+ 4	—	—	—	—	—	—	—
Muroran		12·2	241	e 2	52	- 1	—	—	—	—	—	—	—
Suttsu		12·3	244	e 3	9	+ 14	i 5	19	+ 6	e 5	27	SS	e 6·3
Mori		12·5	241	e 3	1	+ 3	5	20	+ 2	e 3	25	PPP	e 6·4
Hatinohe		13·1	233	e 2	59	- 7	e 5	16	- 15	—	—	—	—
Aomori		13·3	236	e 3	13	+ 5	e 5	29	- 6	—	—	—	—
Miyako		13·5	230	e 3	11	0	e 5	26	- 15	—	—	—	—
Morioka		13·9	232	e 3	13	- 3	i 5	36	- 14	—	—	—	e 7·0
Mizusawa		14·3	230	e 3	18	- 4	5	46	- 14	—	—	—	—
Akita		14·4	234	—	—	—	e 6	2	0	—	—	—	—
Isinomaki		14·8	228	—	—	—	e 6	9	- 3	—	—	—	—
Sendai		15·1	229	e 3	30	- 2	e 6	12	- 6	e 4	17?	—	—
Yamagata		15·4	230	e 3	39	+ 3	e 6	26	+ 1	—	—	—	—
Hukusima		15·7	229	e 3	40	0	e 6	24	- 9	—	—	—	—
Onahama		16·2	226	e 3	48	+ 3	e 6	37	- 6	—	—	—	—
Shirakawa		16·3	228	e 3	47	- 1	e 6	42	- 5	—	—	—	—
Aikawa	N.	16·6	234	e 3	51	- 1	—	—	—	—	—	—	—
Mito		16·8	226	e 3	53	- 1	e 7	7	+ 9	—	—	—	—
Utunomiya		17·0	227	e 3	53	- 3	e 7	6	+ 5	e 4	18	PP	—
Kakioka		17·1	226	e 3	53	- 4	6	58	- 6	—	—	—	—
Takada		17·3	232	e 4	5	+ 5	i 7	17	+ 9	—	—	—	—
Maebasi		17·5	229	e 4	0	- 2	e 7	20	+ 7	i 4	31	PPP	—
Kumagaya		17·5	228	e 4	3	0	e 7	31	+ 17	—	—	—	—
Nagano	N.	17·7	231	e 4	7	+ 2	e 7	29	+ 11	e 4	56?	?	—
Tokyo		17·7	226	e 4	4	- 1	e 7	15	- 3	4	13	PP	—
Matusiro		17·8	231	i 4	3 _a	- 3	i 7	24	+ 4	16	37	ScS	9·7
Oiwake		17·8	230	e 3	56	- 10	e 7	25	+ 5	—	—	—	—
Titibu		17·8	228	e 4	6	0	—	—	—	—	—	—	—
Yokohama		18·0	226	e 4	8	0	e 7	12	- 12	e 4	27	PP	e 8·8
Matumoto		18·1	231	e 4	10	0	e 7	6	- 22	—	—	—	—
Toyama		18·2	233	e 4	12	+ 1	e 7	34	+ 5	e 5	28	?	—
Mera		18·3	224	e 4	6	- 6	—	—	—	e 6	52	?	—
Kohu		18·3	228	e 4	13	0	e 7	42	+ 10	—	—	—	—
Hunatu		18·3	228	4	12	- 1	e 7	38	+ 6	—	—	—	—
Ajiro		18·5	226	e 4	14	- 1	—	—	—	—	—	—	—
Misima		18·6	227	e 4	16	+ 1	e 7	29	- 8	—	—	—	—
Takayama	E.	18·6	232	e 4	17	+ 1	—	—	—	—	—	—	—
Osima	N.	18·6	225	e 4	16	0	e 7	43	+ 4	i 5	13	?	—
Iida		18·8	230	e 4	18	0	—	—	—	—	—	—	—
Shizuoka		18·9	227	e 5	22	?	e 7	56	+ 10	—	—	—	—
Hukui		19·2	234	e 4	26	+ 4	—	—	—	—	—	—	—
Omaesaki		19·3	227	e 4	31	+ 7	i 8	9	+ 15	i 4	42	PP	—
Gihu		19·4	231	i 4	26	+ 1	e 7	59	+ 3	—	—	—	e 9·9
Nagoya	E.	19·5	231	e 4	26	0	e 8	4	+ 6	e 4	38	PP	—
Tsuruga	N.	19·6	233	e 4	5	- 22	e 7	48	- 12	—	—	—	—
Ibukisan	E.	19·6	232	e 4	27	0	—	—	—	—	—	—	—
Hikone		19·8	232	4	30	+ 1	8	7	+ 3	—	—	—	11·0
Kameyama		20·0	231	e 4	31	0	e 8	31	+ 22	e 5	8	PPP	e 10·5
Tu		20·1	231	e 4	35	+ 3	—	—	—	—	—	—	—

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Kyoto	20.2	233	e 4	31 _a	- 3	e 8	25	+12	—	—	e 10.6
Toyooka	20.3	235	e 4	34	- 1	e 8	14	- 1	—	—	—
Osaka	20.6	232	e 4	39	+ 1	e 8	35	+14	e 5	3	PP
Saigo	20.7	239	e 4	30	- 8	e 8	15	- 7	i 5	4	PP
Owase	20.8	230	e 4	39	0	e 8	34	+11	—	—	—
Kobe	20.8	233	e 4	39	- 1	e 8	31	+ 7	—	—	—
Sumoto	21.2	233	e 4	45	+ 1	e 8	35	+ 3	—	—	e 12.3
Changechun	21.3	267	e 4	42	- 2	e 8	22	-11	5	2	sP
Siomisaki	21.5	230	e 4	46	0	e 8	40	+ 4	i 5	10	PP
Tokusima	21.6	233	e 4	46	- 2	e 8	45	+ 6	6	23	?
Takamatu	21.7	234	e 4	49	+ 1	i 8	51	+11	e 16	32	ScS
Torisima	21.9	217	e 4	51	0	—	—	—	—	—	—
Hamada	22.3	239	e 4	57	+ 2	e 8	57	+ 5	—	—	e 11.7
Hirosima	22.5	237	e 4	57 _a	0	9	2	+ 6	e 5	22	PP
Koti	22.5	234	e 4	58	+ 1	e 9	0	+ 4	e 5	52	PPP
Matuyama	22.7	236	e 4	59	0	e 9	3	+ 3	e 5	50	PPP
Simidu	23.4	234	e 5	9	+ 3	e 9	19	+ 7	e 5	30	PP
Ooita	23.8	237	e 5	13	+ 4	e 9	26	+ 9	i 6	24	?
Hukuoka	24.2	239	e 5	16 _a	+ 4	9	29	+ 5	—	—	e 12.2
Saga	24.5	239	5	20	+ 4	—	—	—	—	—	—
Kumamoto	24.6	237	5	19 _k	+ 2	9	36	+ 4	—	—	—
Miyazaki	24.9	235	e 5	24	+ 4	9	47	+10	—	—	e 12.2
Nagasaki	25.1	238	5	27 _a	+ 5	e 9	52	+11	e 5	47	sP
Tiksi	25.5	341	e 5	25	- 1	i 11	8	SSS	e 5	45	sP
Kagosima	25.7	236	e 5	29	+ 2	e 9	49	- 1	e 8	21	?
Tomie	25.8	240	e 5	29	0	e 9	57	+ 4	—	—	e 13.5
Peking	29.1	266	e 5	59	+ 1	—	—	—	—	—	—
Tatung	30.9	269	e 6	16	+ 1	—	—	—	—	—	—
Zô-Sè	31.4	248	e 6	18	- 1	e 11	22	0	6	44	sP
Irkutsk	31.9	295	6	23 _a	0	—	—	—	e 7	24	PP
Nanking	32.2	252	e 6	25	- 1	e 11	29	- 5	6	49	sP
College	33.3	41	i 6	35 _a	0	i 11	55	+ 4	i 8	4	PP
Sian	37.1	264	e 7	15	+ 7	—	—	—	—	—	e 13.7
Canton	42.0	247	e 7	49	0	e 14	4	0	8	14	sP
Hong Kong	42.1	245	7	50 _a	+ 1	e 14	5?	0	—	—	—
Baguio City	43.2	233	i 7	57	- 1	e 14	23	+ 2	—	—	—
Resolute	48.0	20	i 8	35 _a	- 1	i 15	33	+ 3	i 10	28	PP
Horseshoe Bay	50.5	57	i 8	56	0	e 16	9	+ 4	e 19	8	ScS
Victoria	50.9	58	i 8	59	0	e 16	15	+ 5	19	12	ScS
Seattle	52.0	58	i 9	9	+ 2	—	—	—	—	—	24.6
Sverdlovsk	53.0	317	9	14	0	16	38	- 1	i 9	37	sP
Corvallis	53.2	62	i 9	16	0	e 14	9	ScP	e 11	27	PP
Rabaul	53.3	184	i 9	15 _a	- 2	e 16	45	+ 2	e 12	28	PPP
Banff	53.6	51	i 9	19	0	—	—	—	—	—	—
Frunse	53.9	296	i 9	20	- 1	i 17	13	PS	19	45	sP
Shillong	53.9	268	i 9	21 _a	0	i 16	50	- 1	10	22	PcP
Apatity	55.6	337	e 9	32	- 2	—	—	—	—	—	—
Hungry Horse	56.1	54	i 9	36 _a	- 1	i 17	26	+ 6	e 19	26	ScS
Shasta	56.1	65	i 9	37 _a	0	—	—	—	i 9	46	pP
Ukiah	56.6	67	i 9	40 _a	- 1	—	—	—	—	—	—
Mineral	56.8	65	e 9	41 _a	- 1	—	—	—	—	—	—
Sodankyla	57.4	339	i 9	44	- 3	i 10	11	sP	i 10	2	pP
Tashkent	57.9	298	e 9	48	- 2	e 18	5	PS	e 12	0	PP
Berkeley	58.0	68	e 9	50 _a	0	e 17	53	+ 8	e 19	38	ScS
Butte	58.3	55	i 9	52 _a	- 1	—	—	—	—	—	e 28.3
Reno	58.4	65	i 9	53 _a	0	e 17	56	+ 6	—	—	—
Kiruna	58.4	342	i 9	51 _a	- 2	—	—	—	e 13	43	PPP
Santa Clara	58.5	68	e 9	58 _a	+ 5	e 18	0	+ 8	—	—	—
Lick	58.7	68	e 9	54 _a	- 1	—	—	—	i 10	7	pP
Bokaro	59.1	271	e 10	1	+ 3	e 18	2	+ 2	—	—	—
Dehra Dun	59.7	282	e 9	58	- 4	18	17	+ 9	11	55	PP
Stalinabad	60.0	295	i 10	4	0	e 18	6	- 6	—	—	27.3
Fresno	60.2	67	i 10	5 _a	- 1	—	—	—	—	—	—
Scoresby Sund	60.6	359	i 10	8	0	i 18	22	+ 3	e 25	1	SSS
Eureka	60.7	63	i 10	9 _a	0	e 23	14	SS	e 39	4	P'P'

Continued on next page.

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		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
King Ranch	z.	61.2	68	i 10	13k	+ 1	e 39	22	P'P'	i 10	34	pP	—
New Delhi	N.	61.4	282	e 10	11	- 3	e 18	22	- 8	10	57	PcP	—
Salt Lake City		62.2	59	e 10	19k	0	—	—	—	39	16	P'P'	—
Pulkovo		62.5	332	e 10	18	- 3	e 18	39	- 4	11	0	PcP	—
Pasadena		62.9	68	i 10	24a	0	i 18	51	+ 3	i 12	43	PP	e 29.2
Moscow		63.2	326	10	24	- 2	19	15	PS	10	50	sP	—
Riverside		63.5	68	i 10	26a	- 2	e 18	55	- 1	e 39	7	P'P'	—
Boulder City		63.7	65	i 10	29a	0	i 11	5	PcP	e 39	25	P'P'	—
Skalstugan		63.8	343	i 10	32	+ 2	—	—	—	i 10	54	pP	—
Palomar	z.	64.3	68	i 10	32a	- 1	i 11	9	PcP	e 39	8	P'P'	—
Rapid City	E.	64.6	52	i 10	35k	0	i 19	15	+ 6	e 39	15	P'P'	—
Hayfield	N.	64.8	67	i 10	25	-11	—	—	—	—	—	—	—
Barratt		64.8	69	i 10	35a	- 1	i 19	16	+ 4	e 39	20	P'P'	—
Upsala		66.0	338	i 10	42a	- 2	i 19	23	- 3	i 11	22	PcP	—
Boulder		66.3	56	i 10	47	+ 1	—	—	—	—	—	—	—
Ashkabad		66.4	301	10	47	0	13	14	PP	15	2	PPP	—
Quetta		66.8	290	e 10	48a	- 1	i 19	35	- 1	e 39	21	P'P'	—
Reykjavik		66.9	359	i 10	51k	+ 1	—	—	—	—	—	—	—
Hyderabad	E.	68.5	272	i 11	0a	+ 1	i 19	58	+ 2	11	25	PcP	31.7
Tucson		68.7	65	i 11	1a	0	e 20	6	+ 8	e 39	12	P'P'	—
Djakarta		69.4	233	e 11	6a	+ 1	e 20	13	+ 5	—	—	—	—
Suva	N.	70.2	157	e 12	1	+51	e 20	20	+ 4	e 20	52	PS	e 31.7
Madras	E.	70.6	267	i 11	12a	0	i 20	23	+ 2	11	37	PcP	—
Poona		70.7	276	i 11	14a	+ 1	e 20	25	+ 3	11	32	PcP	28.9
Tifis		70.8	312	i 11	14	0	i 20	26	+ 3	e 11	37	PcP	—
Copenhagen		70.9	339	i 11	16a	+ 2	e 20	30	+ 5	i 20	55	PS	33.7
Bombay		71.1	277	e 11	16	+ 1	e 20	27	0	11	43	PcP	—
Warsaw		71.7	332	i 11	20	+ 1	e 20	38	+ 4	i 11	45	PcP	34.7
Goris		71.7	310	i 11	19	0	i 20	38	+ 4	14	2	PP	—
Kirkland Lake	z.	71.8	35	i 11	18a	- 2	—	—	—	—	—	—	—
Lwow		72.8	329	i 11	25	- 1	e 20	48	+ 2	i 11	44	PcP	—
Simferopol		73.1	321	i 11	26a	- 1	e 20	49	- 1	e 11	40	PcP	—
Hamburg	z.	73.4	339	i 11	31	+ 2	—	—	—	i 11	58	sP	e 39.7
Iasi		73.8	326	11	30	- 1	—	—	—	11	44	PcP	—
Kodaikanal	E.	74.4	268	e 11	41	+ 6	—	—	—	—	—	—	—
Raciborz		74.4	333	i 11	38	+ 3	—	—	—	—	—	—	—
Durham	z.	74.6	346	—	—	—	20	41	-25	—	—	—	—
Florissant		74.9	48	11	39a	+ 2	i 21	14	+ 5	16	18	PPP	—
Fayetteville		75.1	52	i 11	38a	- 1	e 21	47	PS	e 12	1	PcP	—
St. Louis		75.1	48	i 11	38k	- 1	21	14	+ 2	11	53	PcP	—
Colombo	E.	75.3	264	11	24	-16	21	14	0	—	—	—	42.1
Jena		75.5	337	i 11	42	+ 1	e 21	7	- 9	e 14	44	PP	—
Prague		75.5	335	i 11	41	0	e 22	1	PS	i 14	36	PP	—
Terre Haute		75.8	45	e 15	3	?	21	43	SP	—	—	—	—
Ottawa		75.8	34	i 11	42a	- 1	21	21	+ 2	11	53	PcP	35.0
Shawinigan Falls		75.8	32	i 11	44	+ 1	—	—	—	12	12	pP	—
De Bilt		75.9	342	—	—	—	e 21	27	+ 6	e 26	47	SS	e 37.7
Seven Falls		76.0	30	e 10	30a	-74	20	11	-71	—	—	—	—
Campulung		76.4	326	11	49	+ 3	—	—	—	—	—	—	—
Brisbane		76.4	182	i 11	45	- 1	i 21	28	+ 2	—	—	—	—
Brébeuf		76.4	33	i 11	46k	- 1	—	—	—	—	—	—	—
Bratislava		76.5	333	i 11	47	0	i 21	17	-10	i 14	16	PP	e 37.2
Budapest		76.5	331	11	45	- 2	e 21	28	+ 1	e 21	59	PS	42.7
Rathfarnham Castle		76.6	349	i 11	47k	- 1	e 16	11	PPP	i 12	14	pP	e 43.7
Bucharest		76.7	325	11	51	+ 3	21	33	+ 3	14	23	PP	—
Kew		77.5	345	i 11	52a	- 1	e 21	41	+ 2	—	—	—	e 38.7
Karlsruhe	z.	78.0	338	e 11	55a	0	—	—	—	e 12	2	PcP	—
Stuttgart		78.1	338	i 11	55a	- 1	e 21	48	+ 3	e 15	3	PP	e 41.7
Tubingen		78.3	338	e 11	57	0	e 12	7	PcP	e 12	24	pP	—
Belgrade		78.4	329	i 11	49a	- 8	e 21	51	+ 3	e 14	51	PP	e 47.9
Strasbourg		78.6	339	i 11	59a	+ 1	e 21	59	+ 9	e 12	26	pP	e 37.7
Ebingen	z.	78.7	338	i 11	59a	0	e 12	4	PcP	e 12	24	pP	—
Pennsylvania		78.8	38	i 12	1	+ 1	i 21	53	0	i 22	14	ScS	—
Morgantown		79.0	40	i 12	0	0	—	—	—	e 19	7	?	—
Sofia		79.2	326	i 12	1	- 1	—	—	—	—	—	—	—

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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1956

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Paris	79.6	342	i 12	4	0	e 21	51	- 9	i 12	11	PcP	e 35.7
Basle	79.6	338	e 12	4k	0	e 21	39	-22	—	—	—	—
Triest	79.7	334	i 12	4k	- 1	i 22	6	+ 4	i 23	2	PS	41.7
Weston	80.0	34	i 12	7	+ 1	—	—	—	—	—	—	e 33.9
Palisades	80.2	36	i 12	7a	0	i 22	9	+ 2	i 15	11	PP	e 37.6
Besançon	80.3	339	i 12	8	0	—	—	—	e 15	24	PP	—
Neuchatel	80.3	339	i 12	8	0	—	—	—	—	—	—	—
Fordham	80.4	36	i 12	6	- 2	e 22	8	0	i 15	9	PP	—
Philadelphia	80.6	37	—	—	—	e 22	7	- 4	—	—	—	e 37.3
Ksara	81.4	313	i 12	14	+ 1	i 22	15	- 4	i 12	41	pP	—
Pavia	81.4	336	i 12	14	0	e 22	25	+ 5	e 14	57	PP	—
Bologna	81.5	335	e 12	23	+ 9	—	—	—	—	—	—	—
Prato	82.1	335	e 12	22	+ 5	e 21	24	-63	—	—	—	—
Florence	82.2	335	i 12	16	- 1	i 22	31	+ 4	i 12	46	pP	e 39.7
Clermont-Ferrand	82.3	341	e 12	19	+ 1	e 22	35	+ 6	i 12	55	sP	41.2
Chapel Hill	82.4	42	i 12	21	+ 2	—	—	—	—	—	—	—
Riverview	82.8	184	i 12	20a	- 1	i 22	39	+ 6	i 12	33	pP	e 34.4
Columbia	83.2	44	i 12	23a	0	i 23	5	+28	i 12	39	pP	e 36.0
Monaco	83.2	337	i 12	23	0	i 12	48	sP	i 12	36	pP	—
Jerusalem	83.3	312	i 12	23k	0	—	—	—	i 15	40	PP	—
Rome	83.5	333	i 12	27a	+ 3	i 22	49	+ 8	i 12	47	pP	e 42.3
Tacubaya	85.2	66	e 12	35	+ 2	e 23	5	+ 8	e 23	18	ScS	—
Reggio Calabria z.	86.0	329	e 12	35	- 2	—	—	—	—	—	—	—
Vera Cruz	87.1	64	—	—	—	e 23	27	+12	—	—	—	—
Melbourne	87.2	188	i 12	43	+ 1	23	4	[+ 2]	i 12	55	pP	e 35.9
Perth	88.2	213	i 12	50	+ 3	e 24	48	PS	—	—	—	40.2
Toledo	89.4	344	i 12	53	0	i 23	26	-11	32	46	?	46.9
Merida	89.5	58	e 12	55k	+ 2	e 24	21	SP	e 24	5	ScS	—
Alicante	90.2	341	i 12	55	- 2	e 23	46	+ 2	18	30	PPP	e 42.7
Algiers Univ. z.	90.9	338	e 12	55	- 5	e 23	41	- 9	e 16	20	PP	—
Bermuda	91.3	33	—	—	—	24	2	+ 8	—	—	—	e 48.9
Wellington n.	91.8	166	—	—	—	e 23	27	[- 3]	e 24	3	S	e 42.3
Granada	91.9	343	e 13	8a	+ 3	24	1	+ 1	—	—	—	i 51.0
Almeria	92.0	342	e 13	1	- 4	e 23	57	- 4	—	—	—	41.7
Malaga	92.5	344	i 13	11a	+ 3	i 24	7	+ 2	i 23	15	SKS	e 38.7
Christchurch	93.6	168	—	—	—	e 23	41	[+ 1]	e 25	37	PS	e 44.7
San Juan	103.3	40	e 17	59	PP	—	—	—	—	—	—	—
Tamanrasset z.	103.4	332	e 13	57	0	e 24	37	[+ 7]	e 18	15	PP	—
Antigua	106.5	36	e 18	35	PP	—	—	—	—	—	—	—
Dominica	108.0	37	e 18	44	PP	—	—	—	—	—	—	—
St. Vincent	110.0	38	e 18	59	PP	—	—	—	—	—	—	—
Chinchina	110.3	56	i 19	7	PP	—	—	—	—	—	—	52.7
Bogota	111.4	54	i 18	51	PP	i 30	25	PPS	—	—	—	52.7
Astrida	114.5	297	e 18	37a	[+ 2]	—	—	—	—	—	—	—
Tananarive	115.6	270	e 18	39a	[+ 2]	—	—	—	19	54	PP	—
Huancayo	124.3	66	i 18	56	[+ 2]	—	—	—	e 20	45	PP	—
Mirny	124.8	206	e 20	41	PP	—	—	—	—	—	—	—
La Paz	132.0	63	i 19	14k	[+ 5]	28	29	SKKS	i 22	32	PP	63.5
Pretoria z.	133.1	280	i 19	13	[+ 2]	—	—	—	—	—	—	—
Pietermaritzburg z.	134.3	274	i 18	43	[-30]	—	—	—	—	—	—	—
Kimberley z.	137.4	280	e 19	5	[-14]	—	—	—	i 19	18	PKP	—
Grahamstown z.	139.2	273	e 19	26?	[+ 4]	—	—	—	—	—	—	—
Santa Lucia z.	142.6	82	i 19	26	[- 2]	—	—	—	—	—	—	—

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1956

599

Nov. 29d. 4h. 13m. 33s. Epicentre 58°·67S. 47°·56W.

A = +0·3526, B = -0·3856, C = -0·8526; δ = -6; h = -8;
D = -0·738, E = -0·675; G = -0·575, H = +0·629, K = -0·522.

		Δ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.	
				m.	s.		m.	s.		m.	s.		
Buenos Aires		25·2	338	e 5	34	+ 6	—	—	—	—	—	—	
Santiago		29·6	318	i 6	6	- 3	e 11	54	+51	—	—	—	
Santa Lucia		29·6	318	i 6	6	- 3	11	54	+50	7	32	PP	14·5
Antofagasta		38·6	325	e 7	24	- 2	e 13	24	+ 1	—	—	—	22·4
La Paz		44·8	331	8	18 _a	+ 1	15	3	+ 9	i 10	6	PP	22·0
Huancayo		51·0	324	i 9	2	- 3	e 16	8	-14	e 10	59	PP	e 27·8
Grahamstown	z.	54·1	96	i 9	29 _a	0	—	—	—	—	—	—	—
Kimberley	z.	56·8	92	i 9	49 _k	+ 1	—	—	—	—	—	—	—
Pietermaritzburg	z.	59·1	97	i 10	3	- 1	—	—	—	—	—	—	—
Bogota		66·6	331	i 10	51	- 3	i 19	24	-20	—	—	—	32·4
Chinchina		67·3	330	10	55	- 3	19	56	+ 3	—	—	—	—
Trinidad		70·0	345	e 11	17	+ 2	—	—	—	—	—	—	—
St. Vincent		72·4	346	e 11	29	- 1	—	—	—	—	—	—	—
Fort de France		74·0	346	e 11	39	0	—	—	—	—	—	—	—
Dominica		74·6	346	i 11	43	+ 1	—	—	—	—	—	—	—
Antigua		76·2	347	i 11	57	+ 5	—	—	—	—	—	—	—
Tananarive	z.	76·7	104	i 11	53 _a	- 1	—	—	—	i 12	3	PcP	—
M'Bour		77·0	30	i 12	2	+ 6	e 22	2	+18	i 12	13	PcP	43·4
San Juan		78·3	342	i 12	1	- 2	—	—	—	—	—	—	—
Uvira		80·1	80	e 12	16 _a	+ 3	—	—	—	—	—	—	—
Astrida		81·2	80	e 12	22 _a	+ 3	—	—	—	—	—	—	—
Riverview		86·5	196	i 12	51 _a	+ 5	23	13	- 9	i 16	12	PP	e 40·2
Tacubaya		88·6	312	e 12	48	- 8	—	—	—	—	—	—	—
Tamanrasset	z.	92·2	48	e 13	16	+ 3	e 24	7	- 7	e 16	59	PP	—
Algiers Univ.	z.	104·0	40	e 18	30	PP	—	—	—	—	—	—	57·4
Tucson		104·7	308	e 18	17	PP	—	—	—	—	—	—	—
Barratt	z.	107·5	304	i 18	41	PP	—	—	—	—	—	—	—
Palomar	z.	108·2	304	18	46	PP	—	—	—	—	—	—	—
Riverside	z.	108·9	304	i 18	51	PP	—	—	—	e 20	42	?	—
Pasadena		109·4	304	e 18	55	PP	—	—	—	19	40	?	—
Boulder City		109·6	307	e 18	56	PP	—	—	—	—	—	—	—
King Ranch	z.	111·1	303	e 19	9	PP	—	—	—	—	—	—	—
Rapid City	E.	112·2	320	e 18	59	[+21]	—	—	—	—	—	—	—
Salt Lake City		112·5	312	e 18	25	[-13]	—	—	—	—	—	—	—
Jerusalem		113·0	67	e 18	38	[- 1]	—	—	—	i 19	32	PP	—
Eureka		113·0	309	e 18	31	[- 8]	i 19	19	PP	e 15	1	P	—
Lick		113·6	303	e 19	25	PP	—	—	—	—	—	—	—
Mineral		116·1	305	e 19	41	PP	—	—	—	—	—	—	—
Stuttgart	z.	116·7	38	18	39	[- 7]	—	—	—	e 19	59	PP	—
Shasta		116·7	305	e 19	44	PP	—	—	—	—	—	—	—
Hungry Horse		119·7	315	e 18	44	[- 8]	—	—	—	e 20	8	PP	—
Corvallis		120·3	307	e 20	13	PP	—	—	—	—	—	—	—
Victoria		123·5	309	e 18	52	[- 7]	—	—	—	—	—	—	—
Horseshoe Bay		124·1	310	i 18	52	[- 8]	—	—	—	—	—	—	—
Quetta		127·9	93	e 19	3	[- 5]	e 26	6	- 8	e 20	46	PP	—
Upsala		128·7	36	i 19	4	[- 5]	—	—	—	i 22	25	PKS	—
Scoresby Sund	z.	130·1	11	i 19	8	[- 4]	—	—	—	—	—	—	—
Kiruna		135·6	30	i 19	7	[-15]	—	—	—	i 22	4	PP	—
Resolute		136·7	343	i 19	17 _k	[- 7]	—	—	—	i 22	6	PP	—
Sodankyla		137·0	33	i 19	11	[-14]	—	—	—	i 22	21	SKP	—
College		144·2	314	i 19	28	[- 9]	—	—	—	—	—	—	—
Matusiro		157·6	192	19	57	[- 1]	40	39	PKP ₂	20	39	SKP	—

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1956

600

Nov. 29d. 9h. 15m. 31s. Epicentre 27°·07N. 141°·19E. Depth of focus = 0·007R.

A = -0·6948, B = +0·5589, C = +0·4527; δ = +5; h = +3;
D = +0·627, E = +0·779; G = -0·353, H = +0·284, K = -0·892.

	Δ	Az.	P.	O - C.	S.	O - C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Torisima	3·5	347	i 0 48	- 5	i 1 31	- 2	—	—
Hatidyozima	6·1	349	i 1 32	+ 3	—	—	—	—
Osima	7·8	349	i 1 53 _a	0	i 3 36	+15	—	e 4·1
Siomisaki	7·9	325	1 53 _k	- 1	e 3 25	+ 3	—	e 3·8
Mera	7·9	352	1 51	- 3	e 3 28	+ 5	—	5·1
Omaesaki	7·9	342	e 1 53	- 1	—	—	—	—
Ajro	8·2	348	e 1 57	0	e 4 28	+59	—	i 4·0
Hamatu	8·2	340	i 1 59	+ 1	—	—	—	e 6·0
Owase	8·2	330	1 59 _a	+ 1	e 3 33	+ 3	—	e 4·2
Shizuoka	8·2	344	1 57	- 1	3 58	+27	e 2 45	?
Misima	8·2	347	i 1 55	- 4	4 15	+44	—	—
Yokohama	8·4	351	e 1 59	- 2	e 3 53	+17	e 2 41	?
Tu	8·6	333	e 2 3	- 1	—	—	—	e 4·0
Tyosi	8·6	358	e 2 0	- 4	—	—	—	—
Muroto	8·6	317	2 4	0	e 3 38	- 3	—	—
Hunatu	8·6	347	2 6	+ 2	—	—	—	i 4·6
Tokyo, C.M.O.	8·7	352	e 2 3	- 1	e 3 36	- 5	2 57	?
Kameyama	8·7	334	i 2 5	0	e 3 51	+ 8	i 2 58	?
Kohu	8·8	346	e 2 4	- 3	e 4 19	?	—	i 4·0
Nagoya	8·8	337	e 2 7	0	e 3 57	+11	—	e 4·8
Nara	8·9	330	e 2 9	+ 2	e 4 16	+30	—	—
Iida	8·9	342	i 2 9	+ 2	i 3 51	+ 4	—	i 4·8
Osaka	9·0	329	e 2 12	+ 3	e 4 0	+11	—	5·2
Tokusima	9·0	322	e 2 9	0	e 4 1	+11	3 11	?
Sumoto	9·1	325	e 2 10	0	e 3 58	+ 7	—	—
Titibu	9·1	349	i 2 7	- 3	e 3 53	+ 2	—	—
Simidu	9·1	310	e 2 10	0	e 3 46	- 6	—	—
Gihu	9·1	337	i 2 9 _k	- 2	e 4 1	+ 9	—	e 4·1
Kakioka	E. 9·2	355	e 2 8	- 3	3 57	+ 3	—	—
Kobe	9·2	327	e 2 13 _a	+ 2	e 3 57	+ 3	2 21	?
Kumagaya	9·2	351	e 2 13	+ 2	4 37	L	—	(4·6)
Hikone	9·2	334	2 14 _k	+ 2	e 4 9	+15	—	—
Kyoto	9·2	331	e 2 11 _k	- 1	e 4 3	+ 9	—	e 4·7
Koti	9·2	316	e 2 13	+ 1	e 3 42	-13	—	4·3
Ibukisan	E. 9·2	335	e 2 16	+ 4	—	—	—	—
Mito	9·3	356	e 2 10	- 3	e 3 53	- 4	e 3 7	?
Himeji	9·4	323	e 2 18	+ 3	e 5 10	L	—	(e 5·2)
Maebasi	9·5	350	e 2 13	- 2	e 4 6	+ 5	i 2 42	?
Takamatu	9·5	321	e 2 17	+ 2	i 4 48	L	—	(i 4·8)
Utunomiya	9·5	354	e 2 11	- 5	e 3 55	- 7	e 2 41	?
Matumoto	9·6	344	e 2 15	- 1	e 5 1	L	15 45	ScS (e 5·0)
Tsuruga	9·6	334	e 2 24	+ 7	e 3 47	-17	i 2 54	PP
Takayama	9·6	341	2 17	- 1	4 11	+ 6	—	—
Matusiro	9·8	346	2 15 _k	- 4	—	—	—	i 5·1
Miyazaki	9·8	302	e 2 25 _k	+ 5	4 9	0	—	—
Onahama	9·8	359	e 2 14	- 6	e 4 3	- 7	—	—
Hukui	9·9	336	e 2 24	+ 3	—	—	—	—
Nagano	9·9	346	e 2 23	+ 2	4 45	+34	—	—
Matuyama	9·9	315	e 2 13	- 8	e 4 23	+11	e 2 57	?
Yakusima	10·0	292	e 2 22	0	4 9	- 4	—	—
Toyooka	10·0	329	e 2 24	+ 1	e 4 20	+ 5	—	—
Shirakawa	10·0	356	2 17	- 6	4 54	+39	e 4 6	S
Toyama	10·2	342	e 2 28	+ 3	e 4 55	+37	—	e 6·0
Kanazawa	10·2	339	e 2 32	+ 7	—	—	—	—
Tottori	N. 10·3	326	e 2 33	+ 7	—	—	—	—
Takada	10·3	347	2 23	- 4	e 4 22	+ 1	—	—
Ooita	10·3	309	e 2 28	+ 1	e 4 36	+15	e 3 14	?
Hirosima	10·5	316	e 2 31 _a	+ 2	e 4 36	+11	e 2 51	PP
Asosan	10·5	306	e 2 44	+15	—	—	—	e 7·3
Hukusima	10·7	357	e 2 25	- 6	4 25	- 5	—	e 5·6

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Yonago	10.7	323	2	35	+ 3	5	24	+54	—	—	—
Kumamoto	10.7	305	2	40	+ 7	4	41	+ 9	—	—	6.1
Matsue	10.8	322	2	45	+11	—	—	—	—	—	e 6.0
Niigata	11.0	351	e 2	44	+ 9	e 4	51	+14	—	—	e 5.5
Unzendake	11.0	303	e 2	52	+16	e 4	50	+11	—	—	—
Hamada	11.0	317	2	38 ^a	+ 1	4	56	+17	—	—	—
Yamagata	11.2	357	e 2	40	+ 2	—	—	—	—	—	6.2
Simonoseki	11.2	310	e 2	43	+ 5	e 5	22	+40	—	—	—
Aikawa	N. 11.2	348	e 2	27	-12	—	—	—	—	—	—
Saga	11.2	306	2	45	+ 6	—	—	—	—	—	i 7.0
Saigo	11.3	326	e 2	40	0	e 4	56	+11	—	—	e 5.8
Nagasaki	11.3	303	2	47 ^a	+ 7	e 4	52	+ 7	—	—	6.5
Isinomaki	11.3	0	e 2	34	- 6	e 4	33	-13	—	—	6.0
Hukuoka	E. 11.3	308	2	45	+ 5	5	17	+31	—	—	—
Sakata	11.8	355	e 2	58	+11	e 5	31	+33	—	—	—
Mizusawa	12.0	0	e 2	43	- 7	5	42	+39	—	—	—
Tomie	12.1	300	e 2	48	- 3	e 5	7	+ 2	5	27	?
Ituhara	12.5	308	e 2	59 ^k	+ 3	e 5	21	+ 8	—	—	—
Miyako	12.6	3	e 2	53	- 4	e 5	4	-11	—	—	e 5.8
Morioka	12.6	0	e 2	55	- 2	e 5	6	-10	—	—	e 5.9
Akita	12.6	356	e 2	46	-12	e 5	25	+ 8	e 3	28	?
Hatinohe	13.4	1	e 2	59	- 9	—	—	—	—	—	e 6.5
Aomori	13.7	359	3	8	- 4	—	—	—	—	—	7.1
Guam	13.9	166	e 3	15	0	—	—	—	—	—	e 7.2
Hakodate	N. 14.7	359	e 3	18	- 6	—	—	—	—	—	—
Mori	15.0	358	3	31	+ 3	6	11	- 2	—	—	e 8.5
Urakawa	15.1	5	e 3	30	0	e 6	12	- 3	e 3	52	PP
Muroran	15.2	359	e 3	31	0	—	—	—	—	—	e 6.8
Tomakomai	15.4	1	e 3	38	+ 4	e 6	44	+22	—	—	e 9.3
Suttsu	15.7	357	e 3	37	- 1	e 6	37	+ 8	—	—	e 9.2
Obihiro	Z. 15.9	5	e 3	37	- 3	—	—	—	—	—	e 7.4
Sapporo	16.0	0	i 3	42	+ 1	e 6	43	+ 8	e 4	35	?
Kusiro	16.1	8	e 3	42	0	e 6	52	+14	e 4	6	PP
Nemuro	16.6	11	e 3	47	- 2	e 7	0	+10	e 6	40	?
Asahigawa	16.7	3	e 3	54	+ 4	—	—	—	—	—	—
Abashiri	17.1	8	e 3	58	+ 3	e 7	13	+12	—	—	—
Ilan	17.6	267	3	57	- 5	7	26	+13	—	—	—
Taipei	17.8	268	3	59	- 4	7	26	+10	—	—	—
Hwalien	17.9	264	e 4	2	- 3	7	19	0	—	—	—
Z0-Sè	17.9	288	i 4	4 ^a	- 1	7	30	+10	—	—	—
Wakkanai	E. 18.3	1	e 4	3	- 7	e 7	37	+ 9	—	—	—
Hsinkong	18.4	262	4	6	- 4	7	42	+13	—	—	—
Taitung	18.7	261	e 4	52	+38	8	24	+48	—	—	—
Taichung	18.7	266	e 4	16	+ 2	—	—	—	—	—	—
Alishan	18.8	264	i 4	14	- 1	7	45	+ 7	—	—	—
Tawu	19.0	260	e 4	20 ^k	+ 2	7	54	+11	—	—	—
Henchun	19.3	259	e 4	7	-13	—	—	—	—	—	—
Tainan	19.4	262	4	34	+12	8	21	+29	—	—	—
Kaohsiung	19.5	261	e 4	19	- 4	—	—	—	—	—	—
Yuzno-Sakhlinsk	19.9	3	i 4	30 ^a	+ 3	i 8	15	+14	i 5	1	PPP
Tsingtau	19.9	302	e 4	32	+ 5	—	—	—	—	—	—
Nanking	20.1	290	4	28 ^k	- 1	8	15	+10	—	—	—
Dairen	20.2	311	e 4	28	- 2	—	—	—	—	—	—
Changchun	21.1	327	4	36 ^k	- 3	8	32	+ 8	—	—	—
Baguio City	21.8	245	i 4	52	+ 5	e 8	49	+10	—	—	—
Futzing	22.1	287	4	50	0	—	—	—	—	—	—
Suihwa	22.5	334	e 5	20	+27	—	—	—	—	—	—
Manila	22.6	241	i 5	0	+ 6	—	—	—	—	—	—
Peking	24.4	308	5	10 ^k	- 2	9	31	+ 7	—	—	—
Kwanting	24.9	308	5	15	- 2	—	—	—	—	—	—
Hong Kong	25.0	265	5	19 ^a	+ 2	—	—	—	—	—	—
Canton	25.6	267	i 5	23 ^a	0	i 9	52	+ 9	—	—	—
Taiyuan	26.3	301	e 5	29	- 1	—	—	—	—	—	—
Tatung	26.5	306	5	33	+ 1	—	—	—	—	—	—
Linfen	26.7	297	e 5	36	+ 2	—	—	—	—	—	—

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Sian		28.6	292	e 5 50	0	—	—	—	—
Paotow		29.0	306	e 5 54	0	—	—	—	—
Petropavlovsk		29.1	22	e 6 4k	+ 9	e 12 41	SS	7 5	PP
Yinchuan		31.3	300	6 19	+ 4	—	—	—	—
Rabaul	z.	32.8	160	6 26	- 2	e 11 35	- 4	i 7 8	PP
Lanchow		32.9	295	6 29	0	—	—	—	—
Wuwei		34.0	298	6 38	0	—	—	—	—
Sining		34.6	296	e 6 45	+ 2	—	—	—	—
Changyeh		35.8	300	6 55	+ 2	—	—	—	—
Irkutsk		37.3	322	7 3k	- 3	15 27	SS	8 27	PP
Yumen		38.7	302	e 7 17	0	—	—	—	—
Shillong		44.0	280	i 8 0k	- 1	i 14 32	+ 5	9 45	PP
Tiksi		45.1	354	i 8 9	- 1	i 14 47	+ 4	i 9 55	PP
Djakarta		46.9	230	e 8 21a	- 3	i 15 11	+ 3	—	—
Chatra		47.8	283	i 8 30	- 1	—	—	—	—
Bokaro		49.8	279	i 8 46	0	i 16 0	+12	i 19 31	SS
Dehra Dun		54.8	289	e 9 20	- 4	i 16 55	- 2	11 1	PP
Frunse		55.4	305	i 9 26k	- 2	i 17 26	+21	i 12 44	PPP
New Delhi		56.0	288	i 9 29	- 3	i 17 18	+ 5	12 53	PPP
Lahore		57.7	292	9 44	0	—	—	—	—
Suva	N.	57.7	137	e 10 5	+21	—	—	e 12 8	PP
College		57.8	28	i 9 45k	0	i 17 45	+ 9	e 10 30	PcP
Hyderabad	E.	58.4	274	i 9 47k	- 2	i 17 51	+ 7	12 5	PP
Madras	E.	58.5	269	i 9 49k	- 1	i 17 49	+ 3	10 36	PcP
Tashkent		59.6	304	e 9 55	- 2	i 18 7	+ 7	—	—
Stalinabad		60.5	301	i 10 2	- 2	i 18 17	+ 5	12 19	PP
Riverview		61.3	171	10 9k	0	18 30	+ 8	10 21	pP
Colombo	E.	61.4	263	10 7	- 3	18 27	+ 4	—	—
Poona		62.0	278	i 10 13	- 1	e 18 37	+ 6	10 39	PcP
Kodaikanal	E.	62.1	267	10 17k	+ 3	18 47	+16	10 47	PcP
Sverdlovsk		62.7	322	12 45	PP	19 13	+34	11 0	PcP
Bombay		62.8	278	i 10 18	- 1	e 18 50	+ 9	10 44	PcP
Perth		63.5	204	i 10 23	- 1	i 19 1	+12	—	—
Quetta		64.1	292	10 25k	- 3	19 2	+ 5	39 23	P'P'
Melbourne		64.7	177	e 10 30	- 1	e 19 13	+ 9	e 19 33	PS
Ashkabad		68.6	303	i 10 54k	- 2	—	—	13 48	PP
Apatity		71.7	337	e 11 15	0	e 21 4	PS	e 11 25	PcP
Resolute		72.3	13	11 18k	- 1	20 27	- 7	14 3	PP
Horseshoe Bay		73.4	43	11 26	+ 1	—	—	—	—
Victoria		73.6	44	i 11 28	+ 2	e 21 0	+11	—	—
Sodankyla		74.1	338	i 11 27	- 2	i 21 0	+ 6	—	—
Seattle	z.	74.6	44	11 36	+ 4	—	—	—	—
Wellington		74.8	154	i 11 31k	- 2	e 21 3	+ 1	e 21 45	sS
Corvallis		75.2	47	e 11 38	+ 3	—	—	—	—
Moscow		75.2	325	11 33	- 3	21 39	+32	14 21	PP
Kiruna		75.8	340	i 11 31	- 8	21 42	+29	i 11 44	PcP
Christchurch		76.0	157	11 36k	- 4	21 15	0	—	—
Pulkovo		76.7	331	e 11 41	- 3	22 17	+54	e 11 53	PcP
Goris		76.8	308	i 11 43	- 1	i 21 32	+ 8	11 53	PcP
Tifis		77.0	310	11 44	- 1	21 57	+31	e 14 38	PP
Banff		77.1	39	e 11 47	+ 1	—	—	—	—
Shasta		77.4	51	e 11 49k	+ 1	—	—	e 14 59	PP
Ukiah		77.5	52	11 54	+ 6	—	—	—	—
Mineral		78.1	51	e 11 53k	+ 1	—	—	—	—
Berkeley		78.7	53	i 11 56k	+ 1	e 22 40	PS	—	e 35.8
Helsinki		78.8	333	—	—	21 51	+ 6	e 22 22	PS
Santa Clara		79.1	54	e 12 1a	+ 4	e 22 11	+22	—	—
Hungry Horse		79.3	41	i 12 0k	+ 2	e 21 59	+ 8	—	—
Lick		79.4	54	12 0k	+ 1	—	—	—	—
Reno		79.7	51	i 12 3k	+ 3	e 22 5	+10	—	—
Fresno		81.0	53	e 12 8	0	—	—	—	—
Skalstugan		81.1	339	i 12 5k	- 3	—	—	—	—
Butte	N.	81.3	43	12 11k	+ 2	—	—	i 15 41	PP
King Ranch	z.	81.6	55	12 13k	+ 2	—	—	—	—
Upsala		81.8	335	i 12 9k	- 3	i 22 17	0	i 15 23	PP

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Scoresby Sund	82.0	354	i 12	12	0	e 23	6	+47	i 12	20	pP	39.5
Eureka	82.3	50	12	15k	+ 1	15	46	PP	e 17	52	PPP	—
Simferopol	82.4	317	12	15a	+ 1	e 22	47	+25	e 23	19	PS	—
Pasadena	83.3	55	i 12	21k	+ 2	i 22	41	+ 9	e 16	3	PP	i 37.7
Riverside	z. 84.0	55	i 12	23k	+ 1	i 22	57	+18	e 15	46	PP	—
Salt Lake City	84.4	47	i 12	28a	+ 3	e 22	56	+13	e 15	52	PP	e 35.7
Palomar	z. 84.7	55	i 12	28k	+ 2	—	—	—	e 15	46	PP	—
Boulder City	84.8	52	i 12	29k	+ 2	—	—	—	—	—	—	—
Barratt	85.1	56	i 12	30k	+ 2	i 22	44	- 6	e 15	54	PP	—
Warsaw	85.3	328	12	26	- 3	e 22	42	-10	e 15	41	PP	e 43.5
Lwow	85.3	325	i 12	30	+ 1	23	38	PS	i 12	39	PcP	—
Hayfield	N. 85.5	56	i 12	27	- 3	—	—	—	—	—	—	—
Copenhagen	86.7	334	e 12	44	+ 8	e 23	3	- 2	e 16	0	PP	44.5
Ksara	86.9	306	i 12	38	+ 1	i 23	10	+ 3	i 18	2	PPP	—
Bucharest	87.4	320	—	—	—	23	25	+13	e 14	16	?	—
Safed	87.6	306	—	—	—	—	—	—	i 15	38	PP	—
Rapid City	E. 87.9	41	i 12	44a	+ 2	e 23	37	+20	e 16	11	PP	—
Raciborz	88.1	327	12	40	- 3	—	—	—	12	50	PcP	46.3
Jerusalem	88.4	305	12	41	- 3	—	—	—	16	14	PP	—
Boulder	89.0	45	12	50	+ 3	—	—	—	—	—	—	—
Hamburg	89.2	333	13	16	+28	16	17	PP	i 13	39	pP	e 47.5
Budapest	E 89.4	325	e 16	29	PP	e 24	42	PS	e 29	45	SS	e 49.5
Hurbanovo	89.6	326	—	—	—	e 25	47	PS	17	11	pPP	—
Tucson	89.6	54	i 12	52	+ 2	—	—	—	e 13	45	pP	e 38.3
Prague	89.9	329	—	—	—	32	51	SSS	13	56	?	42.8
Bratislava	89.9	326	i 12	51	0	e 23	46	+11	e 16	51	PP	46.5
Belgrade	90.4	322	12	49a	- 4	23	2	[-14]	e 24	55	PS	e 52.7
Jena	90.5	331	e 12	52	- 2	—	—	—	e 16	24	PP	—
Aberdeen	90.6	341	—	—	—	23	55	+14	24	50	PS	e 50.6
Cheb	90.8	330	—	—	—	32	11	SSS	e 26	11	PPS	—
Durham	z. 92.4	340	—	—	—	22	1	-116	—	—	—	—
Stuttgart	93.2	331	13	4	- 2	24	52	+48	e 25	38	PS	e 41.5
Triest	93.3	326	e 13	9	+ 2	e 24	19	+14	19	6	PP	47.3
Ebingen	z. 93.7	330	e 13	7	- 2	—	—	—	—	—	—	—
Strasbourg	93.9	331	e 13	7	- 3	e 23	53	-17	16	53	PP	e 48.3
Taranto	95.0	321	e 27	33	?	e 22	53	?	e 18	33	PPP	50.2
Pavia	95.9	328	e 13	17	- 2	—	—	—	e 38	45	SSS	—
Florence	95.9	326	e 13	34	+15	e 24	3	-24	e 17	20	PP	e 46.5
Paris	95.9	334	13	29	+10	23	43	[- 4]	e 17	45	PP	e 49.5
Rome	96.6	324	e 13	32	+10	e 26	12	PS	e 17	12	PP	—
Messina	97.5	320	e 13	43	+17	25	28	+47	e 17	44	PP	53.5
Clermont-Ferrand	98.1	332	—	—	—	—	—	—	26	48	PPS	51.5
Fayetteville	98.3	42	i 13	31k	+ 1	—	—	—	—	—	—	—
Florissant	98.7	38	—	—	—	e 27	40	PPS	17	38	PP	—
St. Louis	98.9	38	13	33a	+ 1	24	17	[+15]	e 17	38	PP	—
Mirny	100.2	198	e 17	32	PP	e 24	54	- 9	e 26	22	PS	—
Tananarive	101.5	255	—	—	—	—	—	—	17	59	PP	—
Palisades	104.8	27	e 18	22	PP	24	43	-59	33	25	SS	49.8
Algiers Univ.	z. 105.3	326	14	3	P	26	21	+36	18	21	PP	—
Tacubaya	105.4	58	e 18	13	PP	—	—	—	e 20	17	PPP	—
Alicante	105.7	330	14	1	+ 2	25	54	+ 6	18	26	PP	e 50.1
Malaga	108.8	331	i 19	1	PP	24	55	[+ 6]	i 21	45	PKS	63.0
Astrida	110.3	278	18	57k	+35	—	—	—	—	—	—	—
Uvira	111.2	277	19	3k	+39	—	—	—	—	—	—	—
Tamanrasset	z. 114.5	315	e 18	33k	+ 2	25	57	+47	19	27	PP	—
Pretoria	z. 120.7	255	18	43	0	—	—	—	—	—	—	—
San Juan	127.6	33	e 18	57	+ 1	—	—	—	e 20	58	PP	—
Chinchina	132.2	54	19	7	+ 2	—	—	—	22	38	SKP	62.5
Fort de France	133.1	30	—	—	—	—	—	—	e 21	49	PKS	—
M'Bour	133.7	330	i 19	12	+ 5	e 26	36	+27	e 22	42	PKS	—
Huancayo	142.6	74	e 19	23	- 1	e 26	49	+25	e 22	31	PP	e 76.5
La Paz	150.9	75	i 19	42	+ 5	i 23	28	PKS	40	4	P'P'	70.5
Santa Lucia	z. 151.8	111	e 19	41	+ 2	—	—	—	—	—	—	—

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Nov. 30d. 19h. 30m. 32s. Epicentre 31°·58S, 69°·20W. Depth of focus = 0·012.

A = +0·3031, B = -0·7978, C = -0·5212; $\delta = 0$; $h = +1$;
D = -0·935, E = -0·355; G = -0·185, H = +0·487, K = -0·854.

		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Santiago		2·2	213	i 0	36	0	i 1	4	+ 1	—	—	—
Santa Lucia		2·2	214	i 0	36k	0	i 1	4	0	0 46	PP	—
Copiapo	E.	4·3	346	e 1	2	- 3	1 54	- 1	—	—	—	—
Antofagasta		8·0	352	e 1	57	+ 3	e 3 26	+ 2	—	2 27	PPP	—
Buenos Aires		9·5	111	2	14	- 1	4 27	+27	—	—	—	—
La Paz		15·0	4	i 3	29k	+ 1	i 6 22	+10	—	3 46	PP	7·8
Huancayo		20·2	342	i 4	30	+ 2	e 8 13	+ 9	—	5 6	sP	—
Chinchina		36·9	349	i 7	0	+ 1	i 12 45	+10	—	—	—	17·5
Trinidad		42·6	11	e 7	48	+ 1	—	—	—	—	—	—
St. Vincent		45·1	11	i 8	4	- 3	—	—	—	—	—	—
Fort de France		46·7	11	i 8	18	- 1	—	—	—	—	—	—
Dominica		47·2	10	e 8	7	-18	—	—	—	—	—	—
Antigua		48·9	10	i 8	38	+ 1	—	—	—	—	—	—
San Juan		49·8	4	i 8	40	- 3	—	—	—	i 9 10	pP	—
Tacubaya		58·3	326	e 9	46	+ 1	e 17 42	+ 5	—	e 10 33	PcP	—
M'Bour		67·8	56	i 10	50	+ 2	e 20 34	ScS	—	i 11 27	pP	—
Chapel Hill		67·8	351	e 10	47	- 1	—	—	—	e 11 33	pP	—
Fayetteville		71·3	339	i 11	8 _a	- 1	—	—	—	—	—	—
Palisades		72·4	356	i 11	46k	+30	—	—	—	—	—	—
Tucson		74·7	324	e 11	38	+ 9	—	—	—	—	—	—
Brébeuf		76·8	357	i 11	41 _a	0	—	—	—	—	—	—
Ottawa		76·8	355	i 11	41k	0	—	—	—	11 48	PcP	—
Grahamstown	z.	77·7	122	i 11	46k	0	—	—	—	—	—	—
Shawinigan Falls		77·8	358	i 11	46	- 1	—	—	—	—	—	—
Barratt	z.	78·1	321	i 11	49k	+ 1	—	—	—	i 12 22	pP	—
Hayfield	N.	78·3	322	i 11	50	+ 1	—	—	—	—	—	—
Kimberley	z.	78·6	117	i 11	51 _a	0	—	—	—	—	—	—
Palomar	z.	78·7	321	i 11	52k	+ 1	—	—	—	i 12 25	pP	—
Riverside	z.	79·5	321	i 11	56k	0	—	—	—	i 12 29	pP	—
Boulder City		79·7	324	i 11	57	0	—	—	—	i 12 30	pP	—
Kirkland Lake	z.	80·0	353	e 11	56 _a	- 2	—	—	—	—	—	—
Pasadena	z.	80·0	321	i 11	59k	0	—	—	—	i 12 32	pP	—
Rapid City	E.	81·4	336	i 12	6	0	—	—	—	—	—	—
King Ranch	z.	81·8	320	i 12	8k	0	—	—	—	i 12 40	pP	—
Salt Lake City		82·1	329	e 12	8	- 1	—	—	—	—	—	—
Pietermaritzburg	z.	82·4	120	i 12	12	- 1	—	—	—	—	—	—
Fresno		82·9	321	e 12	13k	0	—	—	—	—	—	—
Eureka		83·0	325	i 12	14	0	—	—	—	i 12 48	pP	—
Lick		84·3	321	i 12	21k	+ 1	—	—	—	i 12 55	pP	—
Reno		84·9	323	i 12	25k	+ 1	—	—	—	e 12 59	pP	—
Berkeley		85·0	321	e 12	25k	+ 1	—	—	—	e 12 56	pP	—
Butte	N.	86·6	331	i 12	32	0	—	—	—	i 13 7	pP	—
Shasta		87·1	322	i 12	34	0	—	—	—	i 13 8	pP	—
Hungry Horse		89·1	332	i 12	43	- 1	e 13 32	sP	—	i 13 19	pP	—
Tamanrasset	z.	89·6	63	e 12	47	+ 1	e 13 33	sP	—	e 13 17	pP	—
Corvallis		90·4	325	e 12	50	0	—	—	—	—	—	—
Banff		92·0	333	i 12	56	- 1	—	—	—	—	—	—
Rathfarnham C.	z.	100·6	33	—	—	—	—	—	—	i 16 4	PP	—
Resolute		107·3	353	e 18	17	PP	—	—	—	—	—	—
College		113·5	333	e 18	58	PP	—	—	—	—	—	—
Upsala		115·2	34	i 18	20	[- 8]	—	—	—	—	—	—
Kiruna		118·7	26	i 18	35k	[- 0]	—	—	—	—	—	—
Sodankyla		120·9	27	i 18	38	[- 1]	—	—	—	i 19 10	pPKP	—
Quetta		142·5	80	e 19	17	[- 3]	—	—	—	—	—	—
Poona	z.	144·3	102	i 19	23	[- 2]	—	—	—	—	—	—
Lahore		149·0	80	19	32	[+ 1]	—	—	—	—	—	—
Dehra Dun		151·9	84	e 19	46	[+10]	—	—	—	—	—	—
Matusiro		156·8	290	19	46	[+ 4]	—	—	—	i 20 2	pPKP	—
Shillong		162·3	105	19	48k	[0]	—	—	—	—	—	—
Baguio City		162·5	213	—	—	—	30 13	SKKS	—	—	—	—

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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1956

605

Dec. 2d. 2h. 59m. 55s. Epicentre 52°·51N. 169°·05W.

A = -0.6001, B = -0.1161, C = +0.7915; $\delta = +7$; $h = -6$;
D = -0.190, E = +0.982; G = -0.777, H = -0.150, K = -0.611.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
College	16.5	33	i 3 54	0	i 7 4	+ 6	i 4 7	PP	i 7.2
Victoria	28.9	79	i 6 2	- 1	—	—	—	—	—
Seattle	30.0	80	e 6 14	+ 2	—	—	e 7 5	PP	—
Corvallis	30.9	86	e 6 28	+ 8	—	—	e 7 47	PPP	—
Banff	32.5	71	e 6 33	- 1	—	—	—	—	—
Shasta	33.6	92	e 6 45	+ 1	—	—	e 7 59	PP	—
Ukiah	34.0	95	e 6 48	0	—	—	—	—	—
Mineral	34.3	92	e 6 50 _a	0	—	—	i 7 33	?	—
Hungry Horse	34.6	74	i 6 52	- 1	—	—	e 9 32	PcP	—
Berkeley	35.4	96	e 6 59	- 1	e 12 33	- 2	e 15 29	SSS	—
Reno	35.9	91	e 7 3	- 1	—	—	—	—	—
Lick	36.1	96	e 7 6 _a	0	—	—	i 8 10	PP	—
Resolute	36.2	26	i 7 6	0	e 11 57	- 49	e 16 56	ScS	e 23.0
Butte	36.6	77	e 7 19	+ 9	—	—	i 8 11	PP	—
Fresno	37.6	95	e 7 19 _a	+ 1	—	—	i 7 55	?	—
Eureka	38.2	88	i 7 23	- 1	—	—	i 7 39	?	—
King Ranch	38.6	96	e 7 27	0	—	—	i 7 41	?	—
Woody	38.9	95	i 7 27	- 2	—	—	i 7 42	?	—
Matusiro	39.9	268	e 7 36	- 1	13 40	- 3	i 7 47	?	e 16.5
Salt Lake City	40.0	84	e 7 44	+ 6	—	—	—	—	—
Pasadena	40.4	96	e 7 40	- 1	—	—	(e 17 11)	SSS	e 17.2
Riverside	40.9	96	e 7 44	- 2	—	—	i 7 58	?	—
Palomar	41.7	96	i 7 52	0	—	—	—	—	—
Hayfield	42.2	95	e 8 12	+ 16	—	—	—	—	—
Barratt	42.3	97	e 7 56	- 1	—	—	i 8 10	?	—
Rapid City	43.2	74	e 8 4	- 1	—	—	—	—	—
Boulder	44.4	80	e 8 16	+ 2	—	—	—	—	—
Tucson	46.1	92	e 8 28	0	—	—	21 45	?	e 25.7
Irkutsk	49.7	306	8 54	- 2	—	—	—	—	—
Kirkland Lake	53.5	56	e 9 26 _a	+ 1	—	—	—	—	—
Fayetteville	53.6	76	e 9 22	- 3	—	—	e 13 9	?	—
Scoresby Sund	55.0	13	e 9 36	0	—	—	—	—	31.1
Ottawa	57.6	56	i 9 53 _a	- 1	—	—	—	—	—
Shawinigan Falls	58.2	54	e 9 56 _a	- 3	—	—	—	—	—
Brébeuf	58.5	55	i 9 59 _a	- 2	—	—	—	—	—
Morgantown	59.3	64	e 9 56	- 10	—	—	—	—	—
Kiruna	59.8	356	i 10 8	- 1	—	—	—	—	—
Sodankyla	59.9	353	i 10 10	0	—	—	i 10 28	?	—
Palisades	61.6	59	i 10 21	- 1	e 18 42	- 1	—	—	e 30.7
Chapel Hill	62.5	66	e 10 30	+ 2	—	—	—	—	—
Tacubaya	62.6	94	e 10 32	+ 3	—	—	e 12 57	PP	—
Columbia	62.7	69	e 10 25	- 4	—	—	i 10 40	PcP	—
Sverdlovsk	63.7	332	10 36	+ 1	—	—	—	—	—
Skalstugan	64.2	359	i 10 38	- 1	—	—	—	—	—
Upsala	67.9	356	i 11 1	- 1	—	—	—	—	—
Frunse	70.3	316	11 17	0	20 56	PS	—	—	—
Hamburg	74.3	1	e 11 43	+ 2	—	—	—	—	—
Witteveen	75.0	3	11 47	+ 2	—	—	—	—	—
Shillong	75.4	293	e 11 46	- 1	—	—	—	—	—
Stalinabad	76.4	317	11 53	0	—	—	—	—	—
Jena	76.9	0	e 11 56	0	—	—	e 12 7	PcP	—
Stuttgart	79.1	1	e 12 8	0	—	—	e 12 17	PcP	—
Strasbourg	79.2	2	i 12 13	+ 4	—	—	e 12 17	PcP	—
Ebingen	79.7	1	e 12 11	0	—	—	e 12 24	PcP	—
Besançon	80.5	3	e 12 15	- 1	—	—	e 12 24	PcP	—
Neuchatel	80.8	3	e 12 18	+ 1	—	—	—	—	—
Simferopol	80.9	344	12 19	+ 1	—	—	—	—	—
Tiflis	81.7	335	12 24	+ 2	—	—	—	—	—
Clermont-Ferrand	81.9	6	e 12 23	0	—	—	e 12 33	PcP	—
San Juan	83.2	69	12 29	- 1	—	—	i 12 41	PcP	—

Continued on next page.

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1956

606

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Florence	z.	84.1	0	e 12 32	- 2	—	—	i 12 45	PcP	—
Quetta		84.3	314	e 12 35	0	e 23 1	+ 1	—	—	—
Chinchina		88.2	84	i 12 55	+ 1	i 23 40	+ 2	—	—	—
Granada		89.8	12	12 51 _a	- 11	e 24 21	+ 28	16 7	PP	—
Poona	z.	90.8	302	i 13 8	+ 1	—	—	i 13 19	?	—
Ksara		91.3	339	i 13 19	+ 10	—	—	—	—	—
Jerusalem		93.4	340	e 13 19	0	—	—	—	—	—
La Paz	N.	109.5	92	e 18 35	[+ 3]	—	—	—	—	—

Dec. 3d. 7h. 20m. 6s. Epicentre 52°·64N. 168°·61W.

A = -0.5974, B = -0.1204, C = +0.7929; $\delta = +7$; $h = -6$;
D = -0.198, E = +0.980; G = -0.777, H = -0.157, K = -0.609.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
College		16.2	33	i 3 51	0	e 6 42	- 10	1 4 59	?	e 7.0
Sitka		19.5	64	i 4 34	+ 2	1 8 18	+ 11	—	—	e 11.1
Petropavlovsk		19.7	284	4 36	+ 2	—	—	—	—	—
Victoria		28.6	80	e 5 2	- 58	e 10 50	+ 4	e 11 40	SS	e 14.5
Seattle		29.7	81	i 6 20	+ 10	e 11 24	+ 19	e 6 36	?	15.5
Corvallis		30.6	87	e 6 18	0	—	—	—	—	—
Banff		32.2	71	e 6 29	- 3	—	—	—	—	—
Shasta		33.3	92	e 6 42	0	—	—	—	—	—
Ukiah		33.8	95	e 6 46	0	—	—	—	—	—
Mineral		34.0	92	e 6 48 _k	0	—	—	—	—	—
Hungry Horse		34.3	75	i 6 50	0	—	—	e 8 21	PPP	e 16.2
Berkeley		35.2	96	i 6 57	- 1	e 12 36	+ 5	—	—	e 15.3
Reno		35.6	92	e 7 3	+ 2	—	—	—	—	—
Santa Clara	E.	35.7	96	—	—	e 12 38	- 1	—	—	—
Lick		35.9	96	i 7 3 _k	- 1	—	—	—	—	—
Resolute		35.9	26	i 7 4 _k	0	16 56	ScS	e 8 22	PP	e 19.0
Butte	N.	36.3	78	e 7 7	0	e 12 51	+ 2	e 9 23	PcP	e 15.6
Saskatoon		36.8	65	e 8 56	SSS	—	—	—	—	—
Fresno		37.4	95	e 7 16	0	—	—	—	—	—
Eureka		38.0	89	e 7 21	0	—	—	e 39 49	P'P'	—
King Ranch	z.	38.4	97	e 7 26	+ 1	—	—	—	—	—
Salt Lake City		39.7	84	e 7 35	- 1	—	—	e 9 21	PP	—
Pasadena		40.1	97	e 7 39	0	i 13 45	- 1	—	—	e 16.8
Matusiro	z.	40.2	268	i 7 39 _a	- 1	—	—	—	—	—
Riverside	z.	40.7	96	e 7 43	- 1	e 14 3	+ 8	—	—	—
Boulder City		40.9	92	e 7 44	- 2	—	—	i 8 13	?	—
Palomar	z.	41.4	97	e 7 50	0	—	—	i 8 4	?	—
Hayfield	N.	41.9	95	e 7 55	+ 1	—	—	—	—	—
Barratt		42.0	97	e 7 55	0	i 14 15	0	—	—	—
Rapid City	E.	42.9	74	e 8 11	+ 9	—	—	e 10 4	PP	e 23.1
Boulder		44.1	80	e 8 12	0	—	—	—	—	—
Tucson		45.9	93	e 8 26	0	e 15 10	- 1	—	—	e 19.1
Irkutsk		49.9	307	8 56	- 1	16 29	PPS	—	—	—
Lubbock		50.4	84	e 8 59	- 2	—	—	—	—	e 24.6
Peking		51.2	288	9 6 _a	- 1	16 28	+ 3	—	—	—
Kirkland Lake		53.2	57	e 9 39 _a ?	+ 17	—	—	—	—	—
Fayetteville		53.3	77	i 9 21 _k	- 2	—	—	—	—	—
Florissant		53.7	72	e 9 25	- 1	16 57	- 3	—	—	—
St. Louis I		53.9	72	e 9 26 _k	- 2	16 59	- 3	—	—	—
Zô-Sè		54.2	276	i 9 29 _a	- 1	17 9	+ 2	—	—	—
Scoresby Sund		54.9	13	e 9 34	- 1	—	—	—	—	27.9
Nanking		55.0	278	e 9 35	- 1	17 20	+ 3	—	—	—
Cleveland		56.9	64	i 9 47	- 2	e 17 39	- 3	—	—	—
Ottawa		57.2	57	e 9 50	- 2	17 48	+ 1	—	—	—
Shawinigan Falls		57.9	54	e 9 54?	- 3	—	—	—	—	—

Continued on next page.

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1956

607

	Δ	Az.	P.		O-C.	S.	O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	m.	s.	m.
Brébeuf	58.2	56	i 9	57 _a	- 2	—	—	—	—	—
Morgantown	59.0	64	i 10	3	- 1	—	—	—	—	—
Sian	59.3	287	e 10	17	+11	e 17 31	-43	—	—	—
Kiruna	59.7	356	i 10	6 _k	- 3	e 20 10	ScS	i 10 13	P	—
Sodankyla	59.8	353	i 10	9	0	—	—	i 10 53	PcP	—
Washington	61.1	63	e 10	15	- 4	e 18 14	-23	—	—	e 29.7
Palisades	61.3	59	i 10	17	- 3	i 18 39	0	e 19 57	ScS	e 33.2
Fordham	61.4	59	e 10	18	- 3	e 18 40	- 1	—	—	—
Weston	61.6	57	i 10	22 _a	0	e 18 42	- 2	—	—	e 32.4
Semipalatinsk	62.1	318	10	21	- 4	—	—	—	—	—
Chapel Hill	62.2	67	e 10	24	- 2	—	—	—	—	—
Tacubaya	62.4	94	e 10	36	+ 9	e 18 48	- 5	e 14 14	PPP	—
Columbia	62.4	69	i 10	26	- 2	e 18 49	- 5	e 20 15	ScS	e 26.3
Sverdlovsk	63.7	332	10	36	0	—	—	—	—	—
Skalstugan	64.1	0	i 10	40	+ 1	—	—	—	—	—
Hong Kong	64.9	274	—	—	—	e 19 14	-11	—	—	—
Upsala	67.8	357	i 11	1	- 1	—	—	—	—	—
Moscow	69.8	345	11	15	0	—	—	—	—	—
Frunse	70.4	316	11	21	+ 3	20 38	+ 8	—	—	—
Bermuda	72.6	59	i 11	21	-11	i 20 55	- 1	—	—	e 35.5
Namangan	73.2	317	11	35	0	—	—	—	—	—
Rathfarnham C. z.	73.4	11	i 11	38 _a	+ 2	e 14 56	PP	i 11 59	PcP	—
Shillong z.	75.6	293	i 11	46 _a	+ 3	—	—	—	—	—
Stalinabad	76.4	317	11	54	+ 1	—	—	—	—	—
Jena	76.8	0	e 11	55	- 1	—	—	e 12 6	PcP	—
Raciborz	77.5	356	e 12	1	+ 2	—	—	e 12 22	PcP	—
Prague	77.6	358	e 12	0	0	—	—	i 12 18	PcP	—
Stuttgart z.	79.0	2	i 12	8 _a	+ 1	—	—	e 12 17	PcP	—
Dehra Dun	79.1	306	e 12	9	+ 1	—	—	—	—	—
Strasbourg	79.1	2	i 12	9 _a	+ 1	—	—	i 12 19	PcP	—
Bratislava	79.4	356	i 12	11	+ 1	i 18 8	?	i 15 24	PP	—
Ebingen z.	79.5	2	e 12	11	0	—	—	e 12 13	PcP	—
Iasi	79.6	349	e 12	12	+ 1	—	—	—	—	—
Basle	80.2	3	e 12	16	+ 2	e 22 3	-15	—	—	—
Besançon	80.4	4	i 12	15	0	—	—	e 12 25	PcP	—
Neuchatel	80.7	3	e 12	18	+ 1	—	—	—	—	—
Simferopol	80.8	344	12	19	+ 2	—	—	—	—	—
Sotchi	81.1	340	12	20	+ 1	22 51	PS	—	—	—
Tiflis	81.7	335	12	24	+ 2	22 54	PS	—	—	—
Clermont-Ferrand	81.7	6	e 12	24	+ 2	—	—	—	—	—
Triest	82.1	358	e 12	21	- 3	e 22 27	-11	—	—	—
San Juan	82.9	69	i 12	27	- 1	—	—	i 12 36	PcP	—
Monaco	84.0	3	e 12	34 _a	0	—	—	e 12 39	PcP	—
Florence	84.0	0	i 12	34 _a	0	i 23 13	+16	i 13 2	?	—
Quetta	84.4	314	e 12	36 _a	0	e 23 2	+ 1	—	—	—
Chinchina	87.9	85	i 12	52	- 1	i 23 33	- 2	—	—	—
Poona z.	91.0	303	i 13	8	+ 1	—	—	i 13 52	?	—
Ksara	91.3	340	i 13	11	+ 2	e 23 40	[0]	e 16 48	PP	—
Safed	92.2	340	e 13	13	0	—	—	i 13 25	?	—
Jerusalem	93.4	340	e 13	19	0	—	—	—	—	—
Tamanrasset z.	104.7	6	14	27	+17	—	—	e 18 36	PP	—
M'Bour	108.9	29	i 14	15	-13	i 26 51	+17	i 28 20	PS	39.9
La Paz	109.3	92	e 19	24	PP	—	—	28 28	PS	64.3
Lwiro	127.7	338	e 19	10 _a	[+ 2]	—	—	—	—	—
Astrida	127.8	336	e 19	0	[- 8]	—	—	—	—	—
Pretoria z.	150.3	328	i 19	55	[+ 7]	—	—	—	—	—
Kimberley z.	154.2	332	i 20	2	[+ 8]	—	—	—	—	—
Grahamstown z.	157.8	324	20	34	PKP ₂	—	—	—	—	—

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1956

608

Dec. 4d. 10h. 7m. 54s. Epicentre 45°·47S. 106°·89W.

A = -0.2045, B = -0.6734, C = -0.7105; $\delta = +10$; $h = -4$;
D = -0.957, E = +0.291; G = +0.206, H = +0.680, K = -0.704.

		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Santa Lucia		30.2	79	e 6	16	+ 2	e 11	12	- 1	6	49	PP	14.6
Antofagasta		36.6	66	e 7	12	+ 2	e 13	0	+ 6				16.9
Huancayo		42.8	49	i 8	4k	+ 3	e 14	21	- 5	e 9	40	PP	e 20.0
La Paz		43.4	61	i 8	9k	+ 3	i 14	43	+ 9	9	46	PP	19.2
Wellington		55.0	244	i 9	34	- 1				e 22	24	Q	e 27.0
Gebbies Pass	N.	55.0	241	9	34	- 1							
Christchurch		55.1	241				17	27	+ 9	e 23	54	Q	e 27.5
Karapiro	N.	56.3	248	e 9	44	- 1							
Kaimata	N.E.	56.4	242	e 9	51	+ 6							
Chinchina		57.4	38	i 9	51	- 2	i 17	41	- 8				28.1
Bogota		57.8	40	i 9	58	+ 2	i 18	1	+ 7				28.1
Onerahi	E.	58.3	250	9	58	- 1							
Tacubaya		64.9	8	e 10	48	+ 4				e 11	27	PcP	
Nouméa		72.2	256	i 11	25	- 4							
San Juan		73.5	40	i 11	33	- 4							
Riverview		74.2	238	i 11	40k	0	e 21	15	+ 1	i 11	54	PcP	e 35.6
Tucson		77.4	357	i 11	59	0				e 19	27	?	
Brisbane		77.5	244	i 11	58	- 1							
Mobile		77.7	16	e 12	2	+ 2							
Barratt	z.	78.3	352	i 12	3k	0							
Lubbock		78.8	4	i 12	6	0	e 22	10	+ 6				
Hayfield	N.	78.9	353	e 12	9	+ 2							
Palomar	z.	79.0	352	i 12	8k	+ 1							
Riverside	z.	79.6	351	i 12	10k	- 1							
Pasadena		79.9	350	i 12	13k	+ 1	i 22	22	+ 7	i 15	17	PP	e 37.9
King Ranch	z.	81.3	349	i 12	20k	+ 1							
Boulder City		81.4	354	i 12	19	- 1				i 14	2	?	
China Lake	z.	81.5	351	i 12	20k	- 1							
Woody	z.	81.5	350	i 12	20k	- 1							
Fayetteville		82.0	10	i 12	18k	- 5							
Columbia		82.5	21	i 12	25	- 1	e 22	39	- 3	e 23	34	PS	
Fresno		82.7	350	e 12	26	- 1							
Tinemaha	z.	82.8	351	i 12	28k	+ 1							
Lick		83.5	348	e 12	31a	0							
Berkeley		84.1	348	i 12	34k	0	e 23	1	+ 3	e 28	44	SS	
Chapel Hill		84.8	22	i 12	37	- 1							
Eureka		85.0	353	i 12	39	+ 1				i 13	2	?	
St. Louis		85.1	13	12	41a	+ 2	23	16	+ 8	28	57	SS	
Boulder		85.1	1	i 12	40	+ 1							
Florissant		85.2	13	i 12	40k	+ 1	23	15	+ 6	e 24	11	SP	
Reno		85.4	350	e 12	51	+10							
Ukiah		85.5	347	i 12	41	0							
Salt Lake City		86.0	356	e 12	42	- 1				i 13	10	?	
Bermuda		86.4	35	i 12	47	+ 2	i 29	10	SS	i 24	15	PS	
Mineral		86.4	349	e 12	45	- 1							
Shasta		86.9	348	e 12	47k	- 1				e 15	4	?	
Washington		88.2	23	i 12	55	+ 1							
Rapid City	E.	89.2	3	i 12	59	0							
Cleveland		89.5	19	i 13	0	0	e 23	56	+ 6				
Palisades		91.0	24	i 13	7	0	e 24	6	+ 2	i 25	18	PS	e 41.9
Butte	N.	91.2	356	e 13	8	0							
Hungry Horse		93.6	355	e 13	19	0				e 13	48	?	
Kimberley	z.	94.1	139	i 13	20	- 1							
Rabaul	z.	94.7	259	e 13	22	- 2							
Kirkland Lake		96.2	18	e 13	27	- 4							

Continued on next page.

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		Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Resolute		120.1	4	e 18 51	[- 2]	e 27 50	{+36}	e 36 45	SS	—
Tamanrasset	z.	121.4	89	e 18 56	[+ 1]	e 25 41	[-14]	e 20 29	PP	—
Granada		123.8	69	e 19 23 _k	[+23]	—	—	e 20 49	PP	—
Relizane		125.8	73	e 19 4	0	—	—	e 20 57	PP	—
Algiers Univ.		128.0	73	e 21 12	PP	—	—	—	—	—
Scoresby Sund	z.	130.4	26	e 19 16	[+ 3]	—	—	—	—	—
Matusiro		131.3	284	e 19 16	[+ 2]	e 22 38	PKS	e 21 34	PP	—
Paris		133.4	59	i 19 21	[+ 3]	—	—	—	—	—
Oropa		135.5	65	20 2	[+40]	e 23 20	SKP	e 22 26	PP	e 79.6
Florence	z.	136.9	69	19 28	[+ 3]	—	—	e 20 16	pP'	—
Rome		136.9	72	19 27 _a	[+ 2]	i 23 8	SKP	e 20 8	pPKP	e 73.1
Ebingen	z.	137.2	62	e 19 27	[+ 2]	—	—	—	—	—
Stuttgart		137.5	62	i 19 27 _a	[+ 1]	e 23 3	SKP	e 22 16	PP	—
Triest		139.3	68	e 19 28	[- 1]	e 26 37	[- 1]	e 22 25	PP	—
Jena	z.	139.7	59	e 19 24 _f	[- 6]	—	—	e 22 22	PP	—
Skalstugan		142.1	40	e 19 32	[- 2]	—	—	—	—	—
Belgrade	z.	143.4	72	e 19 35 _k	[- 1]	—	—	20 56	?	—
Raciborz	z.	143.5	62	e 19 32	[- 4]	—	—	—	—	—
Upsala		144.6	46	i 19 35	[- 3]	—	—	—	—	—
Sofia		144.6	76	e 19 38	[0]	—	—	—	—	—
Kiruna		145.0	32	i 19 38 _k	[- 1]	—	—	—	—	—
Bucharest		147.1	75	e 19 47	[+ 4]	—	—	e 22 43	PP	—
Sodankyla		147.4	31	i 19 44	[+ 1]	—	—	—	—	—
Jerusalem		147.7	102	i 19 48 _a	[+ 4]	e 23 14	PKS	—	—	—
Safed		148.6	100	i 19 51	[+ 6]	—	—	—	—	—
Iasi		148.8	70	19 53	[+ 7]	—	—	e 20 12	PKP ₂	—
Ksara		149.3	99	19 48 _a	[+ 2]	i 33 40	SKSP	i 23 23	PP	79.1
Kishinev		149.6	71	i 19 48	[+ 1]	—	—	—	—	—
Simferopol		152.7	77	e 19 52	[+ 1]	—	—	—	—	—
Poona	z.	153.1	182	i 19 53	[+ 1]	—	—	i 20 23	PKP ₂	—
Bombay		153.5	179	e 20 6	[+14]	—	—	e 20 12	PKP ₂	—
Shillong	z.	155.1	224	e 19 55	[0]	—	—	—	—	—
Moscow		155.5	52	19 57	[+ 2]	—	—	—	—	—
Sotchi		156.2	83	19 57	[+ 1]	—	—	—	—	—
Irkutsk		158.5	300	e 19 56	[- 3]	—	—	—	—	—
Tiflis		159.2	90	e 20 2	[+ 2]	—	—	—	—	—
Quetta		164.0	160	e 20 6 _k	[+ 1]	e 27 4	[- 4]	e 23 23	PKS	—
Dehra Dun		164.4	196	e 20 19	[+14]	—	—	e 24 45	PP	—
Sverdlovsk		166.2	30	e 20 6	[- 1]	—	—	—	—	—
Namangan		175.4	166	e 20 13	[+ 1]	—	—	—	—	—
Frunse		177.2	203	20 12	[0]	—	—	—	—	—

Dec. 4d. 10h. 42m. 7s. Epicentre 52°·55N. 169°·15W.

A = -0.5998, B = -0.1150, C = +0.7919; δ = +9; h = -6;
D = -0.188, E = +0.982; G = -0.778, H = -0.149, K = -0.611.

		Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
College		16.5	33	i 3 53 _k	- 1	—	—	—	—
Petropavlovsk		19.4	285	4 22	- 8	—	—	—	—
Shasta		33.6	92	e 6 44	0	—	—	—	—
Ukiah		34.1	95	e 7 11	+23	—	—	—	—
Mineral		34.3	92	i 6 51 _a	+ 1	—	—	—	—
Hungry Horse		34.6	74	e 6 50	- 3	—	—	—	—
Berkeley		35.5	95	e 6 58	- 2	—	—	i 7 22	?
Reno		35.9	91	e 7 4	0	—	—	—	—
Resolute		36.2	26	i 7 4 _k	- 2	e 13 6	+20	e 7 50	?
Lick		36.2	96	e 7 4 _a	- 2	—	—	e 9 46	PcP
Butte	N.	36.6	77	e 7 10	0	—	—	—	—
Fresno		37.7	95	e 7 19 _a	+ 1	—	—	—	—
Eureka		38.3	88	e 7 34	+10	—	—	—	—
Tinemaha	z.	38.5	94	e 7 26	0	—	—	—	—
King Ranch	z.	38.7	96	i 7 50	+23	—	—	—	—

Continued on next page.

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		Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Woody	z.	39.0	95	i 7 26	- 3	—	—	i 7 43	—
China Lake	z.	39.6	94	e 7 36	+ 1	—	—	e 7 54	—
Matusiro		39.8	268	i 7 39	+ 3	13 45	+ 3	16 50	SS
Salt Lake City		40.0	84	e 7 38	0	—	—	e 9 21	PP
Pasadena		40.4	96	e 7 41	0	(i 16 59)	SSS	i 8 3	? i 17.0
Riverside	z.	41.0	96	e 7 45	- 1	—	—	i 8 8	?
Boulder City		41.2	92	i 7 48	0	—	—	i 8 14	?
Palomar	z.	41.8	96	e 7 51	- 1	—	—	i 8 14	?
Barratt		42.3	97	e 7 56	- 1	—	—	e 8 15	?
Rapid City	e.	43.2	74	e 8 2	- 2	—	—	—	—
Tucson		46.2	92	e 8 47	+19	—	—	—	—
Kirkland Lake		53.5	56	e 9 22	- 2	—	—	—	—
Fayetteville		53.6	76	e 9 17	- 8	—	—	—	—
Scoresby Sund		55.0	13	e 9 34	- 1	—	—	—	31.9
Shawinigan Falls		58.2	54	e 9 56?	- 2	—	—	—	—
Brébeuf		58.6	55	i 10 0	0	—	—	—	—
Seven Falls		58.8	52	e 8 36?	-86	—	—	—	28.0
Kiruna		59.7	356	i 10 8 _a	- 1	—	—	—	—
Sodankyla		59.8	353	i 10 9	0	—	—	—	—
Washington		61.4	63	e 10 16	- 4	—	—	—	—
Palisades		61.6	59	i 10 22	+ 1	—	—	—	e 36.3
Chapel Hill		62.5	66	e 10 23	- 4	—	—	—	—
Columbia		62.8	69	e 10 25	- 4	—	—	—	—
Sverdlovsk		63.6	332	10 36	+ 2	—	—	—	—
Skalstugan		64.2	359	i 10 39	0	—	—	—	—
Hong Kong	z.	64.6	274	10 58	+17	—	—	—	—
Upsala		67.8	356	i 11 1	- 1	—	—	—	—
Moscow		69.8	344	11 8	- 6	—	—	—	—
Frunse		70.2	316	11 18	+ 2	—	—	—	—
Rathfarnham C.	z.	73.6	11	e 11 37	+ 1	—	—	e 15 59	PPP
Hamburg	z.	74.2	0	i 11 43	+ 3	—	—	—	—
Shillong	z.	75.3	293	i 11 48	+ 2	—	—	—	—
Jena	z.	76.9	0	e 11 55	- 1	—	—	e 12 4	PcP
Raciborz	z.	77.6	355	e 12 0	+ 1	—	—	—	—
Paris		78.8	6	e 12 6	0	e 22 49	PS	e 18 10	? e 38.9
Karlsruhe	z.	78.8	2	e 12 8 _k	+ 2	—	—	—	—
Stuttgart	z.	79.1	1	e 12 8	0	—	—	—	—
Strasbourg		79.2	2	e 12 10 _k	+ 2	—	—	e 12 14	PcP
Bratislava		79.5	356	i 12 11	+ 1	—	—	12 25	PcP
Ebingen	z.	79.6	1	e 12 11	+ 1	—	—	e 12 17	PcP
Basle		80.3	2	e 12 14 _k	0	—	—	—	—
Besançon		80.5	3	e 12 15	0	—	—	—	—
Neuchatel		80.8	3	i 12 18	+ 2	—	—	—	—
Simferopol		80.8	344	12 17	0	22 47	ScS	—	—
Tiflis		81.6	335	12 23	+ 2	22 52	ScS	—	—
Clermont-Ferrand		81.8	6	e 12 24	+ 2	—	—	—	37.9
Triest		82.2	358	e 12 26	+ 2	—	—	e 21 39	pP
San Juan		83.2	69	i 12 29	0	—	—	—	—
Florence	z.	84.0	0	i 12 34 _a	+ 1	—	—	—	—
Monaco		84.1	2	i 12 35 _k	+ 2	—	—	—	—
Quetta		84.2	314	12 36 _a	+ 2	e 23 1	+ 2	i 23 16	ScS
Granada		89.8	12	13 4 _a	+ 3	e 24 31	+39	16 21	PP
Poona	z.	90.7	302	i 13 6	0	—	—	—	—
Lwiro		127.7	337	e 19 10	[+ 3]	—	—	—	—
Astrida		127.8	336	e 19 11	[+ 4]	—	—	—	—
Pretoria	z.	150.2	327	i 19 26 _a	[-21]	—	—	—	—
Kimberley	z.	154.1	331	i 20 3	[+10]	—	—	—	—

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Dec. 4d. 23h. 1m. 34s. Epicentre 15°·02N. 92°·22W. Depth of focus = 0·011R.

A = -0·0374, B = -0·9655, C = +0·2576; δ = -5; h = +6;
D = -0·999, E = +0·039; G = -0·010, H = -0·257, K = -0·966.

	Δ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.
			m.	s.		m.	s.		m.	s.	
Comitan	1·2	4	i 0	23 _a	- 1	i 0	43	+ 1	—	—	—
San Salvador	3·2	114	e 0	48	- 1	i 1	30	+ 4	—	—	—
Oaxaca	4·8	295	i 1	7 _a	- 5	i 2	3	- 4	—	—	—
Vera Cruz	5·6	318	i 1	20	- 2	i 2	30	+ 4	i 2	44	SS
Merida	6·4	22	i 1	26 _a	- 7	i 2	44	- 2	i 3	8	SS
Puebla	7·0	306	e 1	38	- 3	i 3	0	0	—	—	—
Tacubaya	8·0	304	i 1	53 _k	- 2	i 3	31	+ 7	i 2	5	PP
Guadalajara	12·0	300	i 2	47	- 2	i 5	5	+ 4	i 5	43	SSS
Manzanillo	12·3	291	i 2	50	- 2	i 5	8	+ 1	—	—	—
Mazatlan	15·7	303	e 3	34	- 2	e 6	34	+ 7	—	—	—
Chihuahua	18·7	319	e 4	11	- 2	e 7	34	0	i 4	29	PP
Chinchina	19·1	120	i 4	19	+ 1	i 7	58	+ 14	i 4	38	PP
Lubbock	20·4	336	i 4	33	+ 2	e 8	37	+ 28	—	—	—
Bogota	20·6	118	i 4	37	+ 4	i 8	33	+ 20	i 15	58	ScS
Fayetteville	21·0	356	i 4	38 _k	0	e 8	30	+ 9	—	—	—
Columbia	21·4	26	i 4	42	+ 1	i 8	40	+ 12	i 5	30	pP
Chapel Hill	23·9	27	i 5	5	- 1	—	—	—	i 5	27	pP
Tucson	24·1	319	e 5	9	+ 1	i 9	34	+ 19	e 12	58	PcS
San Juan	25·2	79	e 5	24	+ 6	i 8	49	PcP	i 5	40	pP
Morgantown	26·8	21	i 5	32	0	i 10	35	+ 36	—	—	—
Washington	27·3	26	e 5	42	+ 5	e 10	16	+ 9	i 6	4	pP
Boulder	27·4	338	i 5	40	+ 2	—	—	—	—	—	i 12·5
Pittsburgh	27·5	21	i 6	9	+ 30	i 11	15	+ 64	—	—	—
Cleveland	27·9	17	i 5	44	+ 1	i 11	20	+ 62	—	—	—
Hayfield	N. 28·2	316	i 5	47	+ 2	—	—	—	e 6	18	pP
Barratt	28·3	313	i 5	48	+ 1	i 10	34	+ 10	i 8	59	PcP
Pennsylvania	28·6	23	e 5	50	+ 1	e 11	19	+ 50	e 6	7	pP
Palomar	Z. 28·8	314	i 5	51	0	i 6	47	PP	i 6	28	pP
Philadelphia	29·0	28	e 5	53	+ 1	e 10	38	+ 4	i 11	56	sS
Boulder City	29·1	320	i 5	54	+ 1	e 12	35	ScP	i 7	16	PPP
Riverside	Z. 29·5	314	i 5	59	+ 2	e 10	49	+ 6	i 6	21	pP
Fort de France	30·0	86	e 7	10	PP	e 12	51	SS	—	—	15·9
Pasadena	30·2	314	i 6	4 _k	+ 1	i 11	4	+ 11	e 6	33	pP
Bermuda	30·4	51	i 6	6	+ 1	i 12	33	SS	—	—	e 14·1
Palisades	30·4	28	i 6	4	- 1	e 11	2	+ 5	i 6	24	pP
Rapid City	E. 30·4	344	i 6	6	+ 1	e 7	6	PP	e 9	6	PcP
Salt Lake City	30·8	330	e 6	9	0	i 12	42	PcS	i 6	39	pP
Woody	Z. 31·5	316	i 6	15	0	e 11	25	+ 11	i 9	7	PcP
Huancayo	31·7	147	i 6	15 _k	- 1	e 11	23	+ 6	i 6	38	pP
Tinemaha	31·9	318	i 6	21	+ 3	i 11	33	+ 13	i 9	10	PcP
King Ranch	Z. 31·9	314	e 6	20	+ 2	i 9	10	PcP	e 6	36	pP
Eureka	32·0	324	i 6	21	+ 2	i 13	8	PcS	i 12	46	ScP
Fresno	32·7	317	e 6	23	- 2	—	—	—	—	—	—
Ottawa	33·3	21	i 6	30	0	11	46	+ 3	6	49	pP
Brebeuf	34·2	24	i 6	37 _k	- 1	12	49	ScP	i 7	0	pP
Lick	34·3	316	e 6	39 _k	0	i 9	13	PcP	i 7	5	pP
Reno	34·4	321	i 6	41	+ 2	—	—	—	i 6	59	pP
Kirkland Lake	34·5	14	e 6	39	- 2	—	—	—	—	—	—
Berkeley	35·0	316	e 6	46 _k	+ 1	e 12	19	+ 11	i 9	18	PcP
Butte	N. 35·3	335	e 6	50	+ 3	i 12	59	PcS	i 7	27	pP
Shawinigan Falls	35·4	23	i 6	48 _{?k}	0	7	20 _?	sP	i 7	9 _?	pP
Shasta	36·6	320	e 6	59	0	i 9	21	PcP	e 7	23	pP
Hungry Horse	37·8	336	i 7	10	+ 2	i 17	12	ScS	i 9	24	PcP
La Paz	39·3	142	7	29	+ 8	13	19	+ 5	7	52	pP
Corvallis	39·5	325	i 7	25	+ 3	—	—	—	—	—	19·4
Banff	40·6	338	e 7	32 _k	0	—	—	—	—	—	—
Seattle	Z. 41·0	329	e 8	6	+ 32	—	—	—	—	—	—
Victoria	42·1	329	i 7	44 _a	0	—	—	—	e 8	8	pP
Horseshoe Bay	42·6	330	i 7	54 _k	+ 6	—	—	—	i 8	17	pP
Santa Lucia	52·4	157	i 9	1	- 3	—	—	—	9	23	pP

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Resolute		59.7	359	e 9 53	- 3	e 17 58	+ 1	e 10 41	PcP	—
College		62.2	336	i 10 10	- 4	14 48	ScP	i 10 51	pP	e 31.7
M'Bour		72.4	79	i 11 42	+25	e 21 8	+36	e 14 21	PP	33.9
Lisbon		75.4	53	e 11 34	- 1	—	—	e 12 0	pP	—
Rathfarnham C.	z.	75.7	38	i 11 30	- 6	—	—	i 12 12	sP	—
Aberdeen	E.	77.6	34	—	—	i 21 51	+23	—	—	e 39.8
Toledo		79.2	52	e 11 54	- 1	21 38	- 7	—	—	—
Malaga		79.5	55	e 11 56	- 1	—	—	—	—	—
Granada		80.0	54	i 12 2 _a	+ 2	22 29	+35	13 5	pP	38.6
Almeria		81.0	54	i 12 2	- 3	—	—	—	—	—
Paris		81.9	42	i 12 0	-10	e 22 41	PS	e 12 40	pP	e 33.4
Alicante		82.2	52	12 3	- 8	22 3	-13	—	—	e 40.0
Clermont-Ferrand		83.0	45	e 12 20	+ 4	e 23 44	PS	e 12 43	pP	—
Relizane		83.6	55	e 12 18	0	—	—	—	—	—
Kiruna		84.4	21	i 12 22	- 1	e 22 45	+ 6	—	—	—
Besançon		84.6	43	e 12 22	- 1	e 16 2	PP	e 12 49	pP	—
Neuchatel		85.3	43	e 12 26	- 1	—	—	—	—	—
Algiers Univ.		85.3	53	e 12 27	0	e 22 31	[- 8]	e 15 48	PP	—
Strasbourg		85.3	41	e 12 26 _a	- 1	e 15 53	PP	e 12 53	pP	e 40.4
Basle		85.5	42	e 17 44	PPP	—	—	—	—	—
Stuttgart		86.2	40	e 12 30	- 1	e 22 53	- 3	e 13 12	pP	e 40.4
Ebingen	z.	86.2	41	e 12 32	0	—	—	—	—	—
Oropa		86.4	44	e 13 1	+29	e 22 53	- 5	e 23 58	PS	—
Monaco		86.6	46	e 12 32	- 1	—	—	e 12 58	pP	—
Sodankyla		86.7	20	i 12 34	0	—	—	i 13 18	pP	—
Upsala		86.8	28	i 12 33	- 1	—	—	—	—	—
Petropavlovsk		89.2	325	e 12 48	+ 2	—	—	—	—	—
Florence	z.	89.2	45	e 12 59	+13	—	—	e 13 31	pP	—
Triest		90.2	42	e 12 50	0	i 23 36	+ 3	e 13 13	pP	—
Rome		90.7	46	e 12 51 _a	- 2	e 23 13	[- 0]	e 13 21	pP	e 44.6
Tamanrasset	z.	91.2	66	e 12 55	0	e 23 25	[+ 9]	e 13 20	pP	—
Messina		94.2	49	e 16 39	?	e 23 45	[+12]	e 35 11	?	45.4
Moscow		97.9	26	—	—	26 26	PS	—	—	—
Sverdlovsk		104.9	15	—	—	e 24 32	[+ 6]	—	—	—
Matusiro		110.0	319	26 36	?	e 34 23	SS	e 38 23	SSS	—
Ksara		110.7	44	e 18 22	[+ 1]	—	—	e 19 3	pP	—
Tiflis		111.0	33	e 19 0	[+38]	—	—	—	—	—
Lwiro		120.5	84	e 18 41	[+ 1]	—	—	—	—	—
Kimberley	z.	120.6	115	i 18 42	[+ 2]	—	—	—	—	—
Astrida		121.5	84	e 18 46 _k	[+ 4]	—	—	—	—	—
Grahamstown	z.	122.0	120	i 19 43	[+60]	—	—	—	—	—
Namangan		122.3	14	e 18 47	[+ 3]	—	—	—	—	—
Quetta		130.8	24	e 19 3 _k	[+ 3]	e 26 8	[+10]	e 21 35	PP	—
Lahore		131.9	16	19 3	[+ 1]	—	—	—	—	—
Shillong	z.	139.5	354	e 19 7	[- 9]	—	—	—	—	—
Tananarive	z.	141.4	102	e 19 17	[- 2]	e 22 55	PKS	—	—	—
Poona	z.	143.9	23	i 19 23	[- 1]	e 22 57	PKS	i 20 4	?	—

Dec. 8d. 16h. 10m. 25s. Epicentre 51°-37N. 179°-17W.

A = -0.6268, B = -0.0091, C = +0.7791; δ = -4; h = -6;
D = -0.014, E = +1.000; G = -0.779, H = -0.011, K = -0.627.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Petropavlovsk		13.7	286	i 3 19 _a	+ 1	5 56	+ 4	i 3 28	PP	—
Magadan		18.8	308	4 23 _a	0	i 8 10	+20	—	—	—
College		21.1	38	e 4 49	+ 1	i 8 40	+ 1	e 5 20	PPP	—
Matusiro		33.5	261	i 6 44	0	12 7	+ 1	i 7 57	PP	13.8
Vladivostok		33.7	275	e 6 47	+ 2	i 12 15	+ 7	—	—	—
Horseshoe Bay		35.0	71	—	—	i 12 31	+ 3	—	—	22.7
Victoria		35.3	72	i 6 59	0	i 12 35	+ 3	e 14 3	?	15.2
Kyoto		36.1	261	7 7	+ 2	12 47	+ 2	—	—	—
Seattle		36.3	73	e 7 18	+10	i 12 54	+ 5	—	—	17.1
Corvallis		37.2	78	i 7 20	+ 5	e 13 26	+23	—	—	—

Continued on next page.

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		Δ °	Az. °	P.		O - C. s.	S.		O - C. s.	Supp.		L. m.	
				m.	s.		m.	s.		m.	s.		
Changchun		37.4	281	i 7	14 _a	- 3	e 12	59	- 6	8	43	PP	—
Banff		38.7	64	e 7	34 _a	+ 7	—	—	—	—	—	—	—
Resolute		39.8	24	i 7	37 _a	0	e 13	29	-13	e 9	16	PP	e 17.0
Shasta		39.9	83	i 7	30	- 7	e 13	25	-18	i 8	52	PP	—
Ukiah		40.3	85	e 7	45	+ 4	e 13	52	+ 3	e 8	51	PP	e 16.8
Hungry Horse		40.9	68	i 7	46	+ 1	e 13	38	-20	—	—	—	i 20.8
Berkeley		41.7	86	e 7	53	+ 1	e 14	7	- 2	e 17	29	Q	22.3
Santa Clara		42.2	86	e 8	3 _k	+ 7	e 14	14	- 3	—	—	—	e 22.1
Reno		42.2	82	e 7	56	0	e 14	16	- 1	—	—	—	—
Lick		42.4	86	i 7	59 _k	+ 1	i 13	46	-34	—	—	—	—
Butte	N.	42.9	70	e 8	2	0	i 14	27	- 1	i 10	29	PPP	i 17.8
Saskatoon		43.2	59	—	—	—	e 14	21	-10	—	—	—	—
Fresno		43.9	86	e 8	9	- 1	—	—	—	—	—	—	—
Bozeman		44.0	70	i 8	12	+ 1	i 14	37	- 7	i 18	9	ScS	e 19.2
Eureka		44.6	80	i 8	16	0	—	—	—	i 10	33	PPP	—
Tinemaha	Z.	44.7	84	i 8	17	0	i 15	20	+27	i 8	33	?	—
King Ranch	Z.	44.8	87	e 8	18	0	—	—	—	e 13	14	?	—
Woody	Z.	45.1	86	i 8	19	- 1	—	—	—	—	—	—	—
Peking		45.2	282	8	20 _a	0	14	55	- 5	10	11	PP	—
Irkutsk		45.2	303	i 8	21 _a	0	14	57	- 4	10	3	PcP	—
Kwanting		45.4	282	e 8	23	+ 1	—	—	—	—	—	—	—
China Lake	Z.	45.8	85	i 8	28	+ 2	—	—	—	8	54	?	—
Salt Lake City		46.3	76	e 8	30	0	i 15	17	0	e 11	18	PPP	e 19.0
Pasadena		46.6	87	i 8	32	0	i 15	19	- 2	i 18	23	ScS	i 21.4
Riverside		47.2	87	e 8	36	0	i 15	27	- 2	e 18	41	SS	—
Zô-Sè		47.8	269	i 8	40 _a	- 1	15	35	- 3	10	35	PP	—
Palomar	Z.	47.9	87	i 8	43	+ 1	—	—	—	e 9	29	?	—
Hayfield	N.	48.4	86	i 8	38	- 8	e 15	45	- 2	—	—	—	—
Barratt		48.5	87	i 8	47	0	i 15	47	- 1	—	—	—	—
Nanking		48.6	272	i 8	46 _a	- 2	15	46	- 4	—	—	—	—
Taiyuan		48.7	282	e 8	50	+ 1	—	—	—	—	—	—	—
Rapid City	E.	49.5	67	i 8	54	0	i 15	59	- 3	e 10	51	PP	e 22.9
Yinchuan		52.1	287	e 9	14	- 1	—	—	—	—	—	—	—
Tucson		52.4	84	e 9	16	- 1	i 16	42	0	e 20	30	SS	—
Sian		53.3	281	e 9	29	+ 6	—	—	—	—	—	—	—
Wuwei		54.7	288	e 9	33	0	—	—	—	—	—	—	—
Changyeh		55.2	291	e 9	38	+ 1	—	—	—	—	—	—	—
Lubbock		57.1	76	e 8	50	-60	—	—	—	—	—	—	—
Scoresby Sund		57.4	9	e 9	47	- 6	e 17	43	- 5	—	—	—	27.6
Chihuahua		57.9	83	e 9	58	+ 2	—	—	—	28	20	?	e 32.0
Semipalatinsk		58.3	312	i 9	57	- 2	e 17	55	- 6	e 12	11	PP	—
Canton		58.4	268	e 9	58	- 2	18	1	- 1	e 12	9	PP	—
Hong Kong		58.4	267	e 10	0	0	e 18	5	+ 3	e 22	3	SS	—
Baguio City		58.8	257	i 10	11	+ 8	e 18	5	- 3	—	—	—	—
Apatity		58.9	346	e 13	32	PPP	—	—	—	—	—	—	—
Kirkland Lake		59.2	50	e 10	3 _a	- 2	—	—	—	—	—	—	—
Sodankyla		60.0	349	i 10	10	- 1	—	—	—	—	—	—	—
Kiruna		60.2	352	i 10	11 _a	- 1	i 18	23	- 3	—	—	—	—
Florissant		60.2	64	e 10	11	- 2	i 18	24	- 2	20	3	ScS	—
St. Louis		60.4	64	10	32 _k	+18	i 18	25	- 3	—	—	—	—
Rabaul	Z.	60.5	213	e 10	10	- 5	—	—	—	e 11	15	P	—
Sverdlovsk		61.5	327	10	20	- 1	i 20	9	ScS	11	5	PcP	—
Ottawa		63.2	50	e 10	31 _k	- 2	—	—	—	—	—	—	—
Shawinigan Falls		63.8	48	e 10	36	0	—	—	—	—	—	—	—
Brébeuf		64.2	49	i 10	36 _a	- 3	—	—	—	—	—	—	—
Skalstugan		65.0	354	i 10	45 _k	0	—	—	—	—	—	—	—
Pennsylvania		65.6	55	i 10	48	0	e 19	33	0	e 20	30	ScS	—
Frunse		66.5	310	i 10	54 _a	0	i 19	47	+ 3	i 11	20	PcP	—
Pulkovo		66.7	344	e 10	56	+ 1	e 20	7	PS	e 11	28	PcP	—
Mobile		67.3	69	i 10	58	- 1	e 19	15	-39	e 14	24	?	—
Washington		67.4	56	i 10	58	- 1	e 21	6	ScS	e 13	0	PP	e 30.0
Palisades		67.4	52	i 10	59 _a	- 1	i 19	53	- 2	e 11	21	PcP	e 28.7
Fordham		67.5	52	e 10	54	- 6	e 19	56	0	i 20	57	ScS	—
Philadelphia		67.6	54	e 11	4	+ 3	i 19	53	- 4	i 20	58	ScS	e 27.9
Weston		67.6	50	i 10	58 _a	- 3	i 19	54	- 4	24	28	SS	34.7

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Upsala		68.3	351	i 11 4 _a	- 1	i 19 55	-11	—	—
Tacubaya		68.9	85	e 11 41	PcP	—	—	e 12 49	?
Columbia		68.9	62	i 11 8	- 1	e 20 10	- 3	i 11 30	PcP
Moscow		69.0	339	11 9 _a	0	20 12	- 2	11 33	PcP
Suva	N.	69.2	182	—	—	e 20 14	- 3	—	—
Halifax		69.4	44	e 11 9	- 3	—	—	—	—
Shillong		69.8	286	i 11 13	- 2	i 20 25	+ 1	11 32	PcP
Tashkent		70.2	312	e 11 15	- 2	i 20 26	- 2	e 13 54	PP
Vera Cruz		70.9	83	—	—	e 21 2	PS	—	e 37.8
Chatra		71.7	290	i 11 25	- 1	—	—	—	—
Aberdeen		71.8	2	e 20 38	?	e 20 48	+ 1	25 38	SS
Stalinabad		72.6	310	i 11 32	+ 1	—	—	—	e 37.0
Copenhagen		72.9	353	i 11 32 _a	- 1	i 21 2	+ 3	e 21 50	ScS
Durham		74.2	2	11 44	+ 3	21 16	+ 2	21 44	SKS
Dehra Dun		74.2	299	e 11 40	- 1	i 21 13	- 1	14 16	PP
Bokaro		74.8	289	i 11 45 _a	+ 1	i 21 22	+ 2	12 0	PcP
Hamburg		75.2	354	i 11 47 _a	+ 1	e 22 5	PS	—	39.6
Lahore		75.3	302	11 47	0	—	—	—	—
Warsaw		75.4	347	i 11 48	+ 1	i 21 52	[- 1]	i 12 4	PcP
Rathfarnham Castle		75.5	4	i 11 48 _a	0	e 21 35	+ 6	e 26 40	SS
New Delhi	N.	76.1	298	i 11 49	- 2	i 21 28	- 7	14 42	PP
Witteveen	Z.	76.1	356	i 11 52	+ 1	—	—	—	—
De Bilt		76.8	357	i 11 57	+ 1	e 21 45	+ 2	—	e 36.6
Lwow		77.3	345	i 11 57	- 1	e 22 27	PS	e 22 7	ScS
Kew		77.5	1	e 12 0	+ 1	e 21 56	+ 5	i 22 47	PPS
Krakow		77.7	348	12 0	0	—	—	—	43.6
Jena		77.7	353	e 12 0	0	e 21 35	-17	22 19	PS
Ashkabad		77.8	317	i 12 1	0	e 22 0	+ 6	—	—
Raciborz		77.8	349	e 12 1	0	e 22 40	PS	e 12 44	PP
Prague		78.3	351	i 12 4	0	e 22 10	+11	e 15 11	PP
Skalnate Pleso		78.5	347	e 12 7	+ 2	—	—	e 13 37	?
Bermuda		78.7	52	i 12 5	- 1	i 21 59	- 4	e 16 41	PPP
Iasi		79.2	342	12 8	0	—	—	—	e 37.5
Tiflis		79.7	328	i 12 12	+ 1	i 22 15	+ 1	e 15 12	PP
Simferopol		79.8	337	e 23 15	PPS	e 22 19	+ 4	e 27 47	SS
Bratislava		79.9	349	i 12 13	+ 1	i 22 13	- 2	i 22 37	ScS
Stuttgart		80.0	354	i 12 13 _a	0	e 22 13	- 4	e 12 45	pP
Hurbanovo		80.0	348	e 15 9	PP	e 22 5	-12	e 22 57	PS
Paris		80.2	359	i 12 18	+ 4	e 22 23	+ 4	e 22 24	SKS
Quetta		80.2	306	i 12 14 _a	0	e 22 19	0	e 15 16	PP
Tubingen		80.2	354	e 12 15	+ 1	—	—	—	—
Strasbourg		80.3	355	e 12 15 _a	+ 1	e 22 19	0	e 15 18	PP
Ebingen	Z.	80.6	354	e 12 17 _a	+ 1	—	—	e 12 21	PcP
Goris		81.2	326	i 12 19	0	22 28	- 1	15 25	PP
Basle		81.3	355	e 12 20	0	—	—	—	—
Campulung		81.5	343	12 23	+ 2	—	—	—	—
Besançon		81.7	356	e 12 22	0	—	—	i 12 28	PcP
Neuchatel		81.9	356	i 12 23	0	—	—	—	—
Bucharest		82.1	342	—	—	22 40	+ 1	23 16	PS
Brisbane		82.2	205	i 12 21	- 4	i 22 35	- 5	—	39.6
Belgrade		82.7	346	i 12 28 _k	+ 1	e 22 52	+ 7	e 15 39	PP
Triest		82.7	351	e 12 26	- 1	i 22 49	+ 4	e 15 35	PP
Oropa		83.2	355	e 12 31	+ 1	—	—	e 25 16	?
Clermont-Ferrand		83.2	358	e 12 26	- 4	e 22 57	+ 7	e 15 35	PP
Pavia		83.6	354	e 12 33 _a	+ 1	e 23 19	+26	e 23 57	PS
Hyderabad	E.	84.0	290	i 12 33 _a	- 1	i 23 14	+16	15 51	PP
Bologna		84.1	352	e 12 39	+ 5	e 23 2	+ 4	—	—
Sofia		84.3	344	e 12 36	+ 1	—	—	—	49.6
Florence		84.8	352	e 12 20	-18	i 23 3	- 3	—	—
Monaco		85.1	355	e 12 39 _a	0	—	—	e 12 47	PcP
Poona		85.8	294	i 12 44	+ 1	e 23 17	+ 1	16 6	PP
Bombay		86.1	296	e 12 45	+ 1	e 23 18	- 1	16 7	PP
Madras	E.	86.5	286	e 12 44	- 2	e 23 26	+ 4	16 8	PP
Rome		86.6	351	i 12 45 _a	- 1	i 23 28	+ 5	i 16 15	PP
Taranto		87.4	348	—	—	e 23 3	-28	—	e 41.2
									39.6

Continued on next page.

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1956

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Auckland	N.	88.0	185	—	—	23 33	- 3	e 29 38	SS	e 40.8
Cagliari		88.6	354	e 17 55	PPP	e 29 43	SS	—	—	—
Riverview		88.8	204	i 13 0 _a	+ 3	i 23 44	+ 1	i 23 24	SKS	e 41.0
Toledo		89.0	4	e 12 57	- 1	e 23 43	- 3	—	—	46.8
Karapiro	N.	89.0	184	e 12 55	- 3	—	—	—	—	—
San Juan		89.4	61	i 13 0	0	—	—	—	—	—
Ksara		89.8	331	i 13 2 _k	0	e 23 59	+ 7	i 25 5	PS	48.6
Messina		89.9	348	e 13 1	- 1	e 23 53	- 1	e 16 38	PP	42.1
Koadikanal	E.	90.3	287	e 13 7	+ 3	—	—	—	—	—
Alicante		90.6	1	13 10	+ 4	24 8	+ 7	—	—	e 43.5
Colombo	E.	91.4	283	13 10	0	23 40	-28	—	—	53.1
Granada		91.7	4	i 13 10 _k	- 1	e 23 57	-13	16 30	PP	42.2
Almeria		92.1	3	13 12	- 1	—	—	—	—	47.9
Malaga		92.2	4	i 13 9 _k	- 4	e 24 12	- 2	e 25 31	PS	45.4
Algiers Univ.		92.2	358	e 13 11	- 2	e 24 17	+ 3	e 16 51	PP	—
Wellington		92.4	185	—	—	i 23 35	[-12]	—	—	e 45.6
Relizane		93.2	0	e 13 15	- 3	—	—	—	—	—
Christchurch		94.8	186	—	—	23 57	[- 3]	e 25 43	PS	e 43.5
Bogota		95.8	75	i 13 40	+11	i 24 2	[- 3]	i 27 13	PPS	56.6
Trinidad		98.2	62	e 13 41	+ 1	—	—	—	—	—
Perth	Z.	100.7	232	—	—	e 32 51	SSP	e 27 43	PPS	e 47.0
Tamanrasset	Z.	106.1	356	14 15	0	e 25 4	[+ 9]	e 18 36	PP	—
M'Bour		112.7	19	i 18 46	[+ 7]	e 30 16	PPS	e 19 25	PP	e 66.6
La Paz		115.8	84	e 18 53	[+ 8]	i 26 45	{- 1}	i 19 59	PP	55.0
Astrida		125.7	324	e 19 5	[+ 1]	—	—	—	—	e 67.6
Lwiro		125.7	325	e 19 6	[+ 2]	—	—	e 21 6	PP	—
Santa Lucia		126.4	100	—	—	i 32 15	PKKS	31 49	?	—
Tananarive		131.1	294	e 19 15	[+ 11]	e 22 50	PKS	e 21 34	PP	—
Mirny		134.8	214	e 19 23	[+ 2]	22 49	PKS	—	—	—
Pretoria	Z.	147.0	310	i 19 45 _k	[+ 2]	—	—	—	—	—
Pietermaritzburg	Z.	149.1	303	i 19 52 _a	[+ 6]	—	—	—	—	—
Kimberley	Z.	151.2	312	i 19 55 _k	[+ 6]	—	—	—	—	—
Grahamstown	Z.	154.0	304	20 4	[+11]	—	—	—	—	—
Hermanus		158.5	315	e 20 35	PKP ₂	—	—	e 24 17	PP	—

Dec. 15d. 17h. 24m. 37s. Epicentre 13°·15S, 166°·76E. Depth of focus = 0.030R.

A = -0.9482, B = +0.2231, C = -0.2260 ; δ = -7 ; h = +6 ;
D = +0.229, E = +0.973 ; G = +0.220, H = -0.052, K = -0.974.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Suva	N.	12.3	115	2 52	+ 4	e 5 5	+ 4	i 2 58	PP	—
Rabaul		16.9	300	e 3 41	- 4	e 7 3	+18	i 4 9	PP	—
Brisbane		19.2	220	i 4 8	0	i 7 40	+11	—	—	—
Apia		20.9	94	i 4 24 _a	- 1	—	—	e 6 3	?	—
Onerahi	E.	23.5	164	i 5 1	+10	—	—	5 40	pP	—
Riverview		25.0	212	i 5 5 _a	0	i 9 18	+ 8	i 5 35	pP	—
Karapiro	N.	25.9	164	e 5 11	- 2	e 6 9	PP	e 5 39	pP	—
Cobb River	E.	28.3	170	5 35	0	—	—	—	—	—
Wellington		28.9	167	i 5 38	- 2	—	—	—	—	—
Kaimata	N.E.	29.5	173	5 45	- 1	e 10 31	+ 8	—	—	—
Christchurch	Z.	30.7	172	i 5 55	- 1	—	—	—	—	e 15.7
Gebbies Pass	N.	30.9	172	i 5 55	- 2	e 10 47	+ 4	—	—	—
Perth	Z.	50.1	239	—	—	19 40	SS	—	—	i 28.0
Matusiro		56.3	332	i 9 19 _a	0	e 16 53	+ 3	—	—	—
Hong Kong		62.4	304	i 10 3 _a	+ 2	—	—	—	—	—
Canton		63.5	304	10 10 _a	+ 2	—	—	—	—	—
Nanking		64.2	316	e 10 13	0	e 18 47	+16	10 47	pP	—
Changchun		68.1	329	i 10 37 _a	0	—	—	12 12	sP	—
Peking		70.7	321	i 10 54 _a	+ 1	e 19 59	+11	11 28	pP	—
Taiyuan		71.7	317	e 11 2	+ 3	—	—	—	—	—
Tatung		72.6	320	e 11 8	+ 4	—	—	—	—	—
Ukiah		83.3	47	i 12 2	- 1	—	—	i 12 40	pP	—
Berkeley		83.5	49	i 12 3 _a	- 1	—	—	i 12 42	pP	e 40.4
Irkutsk		84.3	327	i 12 8	0	—	—	—	—	—
Shasta		84.5	46	i 12 9 _a	0	e 16 4	PP	i 12 48	pP	—

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
King Ranch	z.	84.5	52	e 12 8	- 1	—	—	i 12 48	pP	—
Mineral		84.9	47	e 12 10 _a	- 1	—	—	i 12 49	pP	—
Fresno		84.9	51	e 12 11 _a	0	—	—	i 12 50	pP	—
College		85.0	18	i 12 8	- 3	—	—	i 12 47	pP	—
Woody		85.3	52	i 12 12 _a	0	i 16 12	PP	i 12 50	pP	—
Pasadena		85.3	54	i 12 12 _a	- 1	i 22 33	+11	i 12 51	pP	e 39.0
Corvallis		85.4	42	e 12 14	+ 1	—	—	e 12 52	pP	—
Riverside		85.9	54	i 12 15 _a	0	e 16 16	PP	i 12 53	pP	—
Reno		85.9	48	i 12 16 _a	+ 1	—	—	i 12 55	pP	—
Barratt	z.	86.0	55	i 12 16 _a	0	—	—	i 12 55	pP	—
Palomar	z.	86.1	55	i 12 16 _a	0	—	—	i 12 55	pP	—
Tinemaha		86.2	51	i 12 18 _a	+ 1	i 23 50	PS	i 12 56	pP	—
China Lake	z.	86.3	52	i 12 18 _a	+ 1	e 16 7	PP	i 12 56	pP	—
Hayfield	N.	87.2	55	e 12 19	- 3	—	—	i 13 0	pP	—
Tiksi		88.3	349	e 12 27	0	—	—	—	—	—
Boulder City		88.5	53	i 12 27	- 1	i 15 54	PP	i 13 6	pP	—
Colombo	E.	88.5	277	—	—	22 48	- 5	—	—	—
Eureka		88.7	49	i 12 29	0	e 38 18	P'P'	i 13 7	pP	—
Tucson		90.6	57	i 12 39	+ 1	e 30 7	PKKP	i 13 17	pP	—
Salt Lake City		92.1	49	e 12 44	- 1	—	—	i 13 23	pP	—
Banff		92.6	38	e 12 47	0	—	—	e 13 25	pP	—
Hungry Horse		92.7	41	i 12 47	0	e 30 1	SS	i 13 25	pP	—
Butte	N.	93.0	44	e 13 28	+39	—	—	—	—	—
Poona	z.	96.8	287	i 13 6	0	—	—	13 47	pP	—
Bombay	E.	97.8	288	—	—	23 34	[+ 8]	—	—	—
Rapid City	E.	99.0	47	e 13 55	+39	—	—	e 17 55	PP	—
Comitan		104.1	76	e 14 32	+53	—	—	—	—	—
Resolute		104.8	16	e 13 40	- 2	—	—	e 17 55	PP	—
Quetta		104.9	298	e 13 43	+ 1	i 24 14	[+25]	e 25 25	S	—
Sverdlovsk		109.7	326	e 18 0	[- 3]	—	—	—	—	—
Ottawa		118.5	45	e 18 21	[+ 0]	—	—	—	—	—
Sodankyla		119.8	343	i 18 24	[+ 1]	—	—	—	—	—
Shawinigan Falls		120.3	44	i 18 31 _k	[+ 7]	—	—	—	—	—
Kiruna		121.1	346	i 18 27 _a	[+ 1]	—	—	—	—	—
Moscow		122.3	329	e 18 30	[+ 2]	—	—	—	—	—
Scoresby Sund	z.	122.4	3	i 18 30	[+ 2]	—	—	—	—	—
Pretoria	z.	124.1	226	i 18 27	[- 5]	—	—	—	—	—
Kimberley	z.	124.4	221	i 18 35 _k	[+ 3]	—	—	—	—	—
Skalstugan		126.5	346	i 18 37 _a	[+ 1]	—	—	—	—	—
Upsala		128.1	341	i 18 40 _k	[+ 1]	—	—	—	—	—
Ksara		131.0	304	e 18 47	[+ 2]	i 21 11	PKS	e 19 27	pP'	—
Jerusalem		132.0	301	i 18 51 _a	[+ 4]	—	—	e 19 29	pP'	—
Astrida		134.6	253	e 18 55 _a	[+ 4]	—	—	e 19 13	?	—
Lwiro		135.6	253	e 18 58	[+ 5]	e 22 16	PKS	—	—	—
Hamburg	z.	135.7	340	i 18 57 _k	[+ 3]	i 22 16	PKS	—	—	—
Prague		136.8	334	i 18 58	[+ 2]	i 22 19	PKS	e 24 23	PPP	—
Bratislava		137.0	330	i 18 58	[+ 2]	i 22 19	PKS	—	—	—
Jena	z.	137.3	337	e 18 58	[+ 2]	e 22 19	PKS	e 19 40	pP'	—
Rathfarnham C.	z.	139.6	354	e 19 31	[+30]	—	—	—	—	—
Stuttgart	z.	139.9	337	e 18 56	[- 5]	22 27	PP	e 19 45	pP'	—
Triest	z.	140.4	330	i 19 4	[+ 2]	—	—	—	—	—
Ebingen	z.	140.5	337	e 18 58	[- 4]	—	—	e 22 29	PP	—
Strasbourg		140.6	338	e 18 57	[- 6]	—	—	e 22 29	PP	—
Paris		142.1	343	e 19 7	[+ 1]	—	—	e 19 27	?	—
Neuchatel		142.2	337	e 19 7	[+ 1]	—	—	—	—	—
Florence		142.9	330	i 19 5 _k	[- 2]	e 28 58	SKKS	i 22 33	PP	—
Rome	z.	143.7	327	i 19 7	[- 1]	—	—	e 19 43	pP'	—
Reggio Calabria		144.3	319	e 19 9	[0]	—	—	19 55	pP'	—
Messina	z.	144.3	320	i 19 9 _a	[0]	—	—	e 19 46	pP'	—
Clermont-Ferrand		144.6	340	i 19 12	[+ 2]	—	—	i 19 52	pP'	—
Monaco		144.7	334	i 19 11	[+ 1]	e 20 2	sp'	e 19 48	pP'	—
Toledo	z.	152.2	345	e 19 31	[+10]	—	—	i 20 10	pP'	—
Algiers Univ.	z.	152.3	331	e 19 23	[+ 1]	e 23 16	PP	e 20 9	pP'	—
Relizane		154.3	334	e 19 27	[+ 3]	e 23 27	PP	e 20 31	pP'	—
Granada		154.6	342	19 47 _a	PKP ₂	—	—	23 27	PP	—
Tamanrasset	z.	159.8	301	i 19 35 _a	[+ 4]	e 24 2	PP	e 20 15	pP'	—
M'Bour		176.2	71	i 19 46	[+ 4]	e 25 21	PP	i 20 25	pPKP	—

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1956

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Dec. 16d. 1h. 41m. 58s. Epicentre 6°·33N. 77°·63W. Depth of focus = 0·001R.

A = +0·2130, B = -0·9709, C = +0·1096; δ = +3; h = +7;
D = -0·977, E = -0·214; G = +0·024, H = -0·107, K = -0·994.

	Δ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.
			m.	s.		m.	s.		m.	s.	
Chinchina	2·4	124	i 0	37	- 1	—	—	—	—	—	—
Balboa Heights	3·2	324	i 0	42	- 8	i 1	27	0	—	—	—
Bogota	3·9	116	i 1	0	+ 1	i 1	48	+ 3	i 1	24	PP
Galerazamba	5·0	28	e 1	23	+ 9	—	—	—	i 1	32	PP
Port-au-Prince	13·2	23	e 3	6	- 1	i 5	25	- 9	3	20	PP
San Juan	16·4	42	i 3	46	- 3	i 7	1	+12	—	—	i 7·8
Trinidad	16·5	74	e 3	51	+ 1	—	—	—	—	—	—
Comitan	17·3	306	i 5	8	+68	—	—	—	e 6	50	?
St. Vincent	17·5	66	e 4	4	+ 2	—	—	—	—	—	—
Fort de France	18·2	61	i 4	6	- 5	i 7	50	+20	i 8	13	SSS
Dominica	18·2	60	e 4	9	- 3	—	—	—	—	—	—
Huancayo	18·4	173	i 4	12 _a	- 2	i 7	46	+12	—	—	—
Merida	18·6	322	4	17 _a	+ 1	i 7	47	+ 8	i 4	32	PP
Barbados	19·0	68	e 4	9	-12	—	—	—	—	—	—
Oaxaca	21·5	301	e 4	50	+ 2	e 8	46	+ 7	e 9	0	PcP
Vera Cruz	22·1	307	e 4	57	+ 4	i 8	45	- 4	e 5	21	PP
La Paz	24·6	158	i 5	16 _k	- 1	i 9	54	+21	i 5	58	PP
Tacubaya	24·7	304	i 5	22 _k	+ 4	e 9	43	+ 8	i 5	44	PP
Columbia	27·7	354	i 5	45	- 2	—	—	—	—	—	—
Bermuda	28·6	23	i 5	53	- 2	e 10	27	-12	—	—	—
Guadalajara	28·7	302	e 6	9	+14	—	—	—	—	—	—
Manzanillo	28·9	298	e 6	3	+ 6	e 11	37	SS	—	—	—
Chapel Hill	29·5	358	i 6	1	- 1	e 10	57	+ 4	—	—	—
Antofagasta	30·6	167	e 6	16	+ 3	e 11	17	+ 6	e 6	56	?
Mazatlan	32·4	304	e 7	34	+66	e 11	30	- 9	e 9	11	PcP
Washington	32·4	1	i 6	36	+ 8	e 12	38	+59	i 7	36	PP
Morgantown	33·2	357	i 6	38	+ 3	—	—	—	—	—	e 17·1
Cincinnati	33·3	350	i 6	37	+ 1	i 12	3	+11	—	—	—
Fayetteville	33·3	335	i 6	34	- 2	e 11	22	-31	e 16	55	ScS
Philadelphia	33·5	3	e 6	42	+ 4	i 12	7	+10	i 14	26	SSS
St. Louis	34·1	342	6	43 _a	0	12	8	+ 2	e 9	14	PcP
Florissant	34·3	342	6	45 _a	0	12	10	+ 1	14	14	SS
Pennsylvania	34·3	0	i 6	45	0	e 12	19	+10	e 7	15	?
Fordham	34·5	5	e 7	47	+60	e 12	15	+ 3	—	—	—
Palisades	34·7	5	e 6	46 _k	- 2	e 12	18	+ 4	e 7	0	pP
Chihuahua	34·9	313	—	—	—	e 12	26	+ 9	e 13	24	PcS
Lubbock	35·2	324	i 6	52	0	i 12	24	+ 2	e 8	12	PP
Weston	36·3	8	i 7	2 _a	0	i 12	47	+ 7	—	—	e 18·0
Buffalo (Larkin)	36·4	359	i 7	2	0	—	—	—	—	—	—
Ottawa	39·0	2	i 7	23 _k	- 1	13	24	+ 4	9	37	PPP
Brébeuf	39·2	4	i 7	26 _k	0	13	21	- 2	—	—	e 23·0
Halifax	40·1	16	i 7	34	+ 1	—	—	—	—	—	—
Santa Lucia	40·1	171	i 7	24	- 9	13	33	- 4	e 8	51	PP
Tucson	40·3	314	i 7	34	- 1	i 13	48	+ 9	i 9	14	PP
Shawinigan Falls	40·3	5	i 7	42 _k ?	+ 7	—	—	—	8	25?	pP
Kirkland Lake	41·7	358	e 7	43 _k ?	- 4	—	—	—	—	—	—
Boulder	41·8	328	i 7	47	0	—	—	—	—	—	—
Rapid City	43·8	333	i 8	2	- 1	—	—	—	—	—	—
Hayfield	44·5	313	i 8	9	0	—	—	—	—	—	—
Buenos Aires	44·6	157	e 8	38	+28	—	—	—	—	—	—
Barratt	44·8	311	i 8	12 _a	+ 1	i 14	54	+ 9	i 8	35	pP
Boulder City	45·1	316	i 8	14	0	e 14	47	- 3	e 9	53	PcP
Palomar	45·2	312	i 8	16 _a	+ 1	—	—	—	i 8	41	pP
Riverside	45·9	312	i 8	21 _a	0	i 15	5	+ 4	i 8	45	pP
Salt Lake City	45·9	324	i 8	20	- 1	e 15	8	+ 6	i 10	0	PcP
Pasadena	46·6	312	i 8	27	+ 1	i 15	19	+ 8	i 8	47	pP
China Lake	46·9	314	i 8	28 _a	- 1	e 10	25	PP	i 8	48	pP
Eureka	47·7	320	i 8	35	0	—	—	—	i 11	10	PPP
Woody	47·8	314	i 8	34 _a	- 1	i 10	3	PcP	i 8	56	pP
Tinemaha	48·0	316	i 8	38	+ 1	i 15	41	+10	e 10	33	PP

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
King Ranch	z.	48.2	313	i 8 39 _a	0	—	—	—	—
Bozeman		48.7	329	e 8 39	- 3	—	—	—	—
Fresno		48.9	314	e 8 44 _a	0	—	—	—	—
Butte	N.	49.7	328	i 8 49	- 1	i 16 0	+ 5	i 9 56	PcP e 21.3
Reno		50.3	318	i 8 50	- 5	e 16 11	+ 8	e 15 39	?
Berkeley		51.2	314	i 9 2	+ 1	i 16 23	+ 7	e 18 43	ScS
Mineral		51.9	318	e 9 0 _k	- 7	—	—	i 9 12	pP
Hungry Horse		52.0	330	i 9 7	- 1	—	—	e 11 1	PP
Ukiah		52.4	316	e 9 9	- 2	—	—	—	—
Shasta		52.6	318	i 9 10	- 2	—	—	—	—
Banff		54.6	332	e 9 25 _a	- 2	—	—	—	—
Corvallis		55.0	321	i 9 30	0	—	—	—	—
Victoria		57.1	325	i 9 44 _a	- 1	—	—	—	—
Horseshoe Bay		57.5	326	i 9 46 _a	- 2	—	—	—	—
M'Bour		60.1	77	i 10 4	- 1	i 18 25	+11	e 20 4	ScS 30.0
Resolute		69.0	355	e 11 1 _k	- 3	i 20 5	+ 1	e 21 7	ScS e 31.4
Malaga		72.8	54	i 11 24 _a	- 2	e 20 48	0	—	—
Scoresby Sund	z.	73.0	17	e 11 28	0	—	—	—	—
Toledo	z.	73.4	50	i 11 29 _k	- 1	—	—	—	—
Granada		73.5	53	i 11 26 _k	- 4	21 14	+18	26 5	SS
Rathfarnham C.	z.	73.8	36	i 11 31 _k	- 1	—	—	i 11 54	PcP
Almeria		74.4	54	i 11 37	+ 2	14 17	PP	12 0	PcP
College		75.9	336	i 11 42	- 2	i 21 22	- 1	i 14 32	PP e 35.5
Alicante		76.0	52	11 45	0	21 24	0	26 24	SS e 36.6
Relizane		76.7	55	e 11 49	0	—	—	—	—
Kew		77.2	39	i 11 48 _a	- 3	e 21 44	+ 8	e 12 0	PcP e 34.0
Paris		78.8	42	i 12 0	0	—	—	e 12 10	PcP
Algiers Univ.		78.8	54	i 11 59 _k	- 1	—	—	—	—
Clermont-Ferrand		79.0	45	e 12 2	0	—	—	—	—
Besançon		81.0	43	i 12 14	+ 2	—	—	e 12 23	PcP
Tamanrasset	z.	81.3	68	i 12 15 _k	+ 1	e 22 26	+ 6	e 15 17	PP
Witteveen	z.	81.6	38	e 12 16	+ 1	—	—	—	—
Neuchatel		81.7	44	e 12 16	0	—	—	—	—
Monaco		82.1	47	e 12 18	0	—	—	e 12 27	PcP
Strasbourg		82.2	42	i 12 20 _a	+ 1	—	—	i 12 34	PcP
Ebingen	z.	83.1	42	e 12 23	0	—	—	e 12 33	PcP
Stuttgart		83.2	42	i 12 23 _k	0	—	—	i 12 33	PcP
Hamburg	z.	83.5	37	i 12 26 _k	+ 1	—	—	—	—
Skalstugan		84.3	27	i 12 29 _k	0	—	—	—	—
Jena		84.6	40	e 12 30	- 1	—	—	e 12 34	PcP
Florence		84.9	47	i 12 32 _a	0	e 23 16	+20	i 12 46	pP
Cheb		85.2	40	e 12 41	+ 7	e 23 16	+17	e 15 52	PP
Rome		85.9	48	i 12 37 _k	0	i 23 9	+ 3	i 12 54	pP e 42.2
Triest		86.5	45	i 12 40	0	—	—	—	—
Prague		86.5	40	i 12 44	+ 4	e 16 16	PP	e 13 2	pP
Upsala		87.2	30	i 12 43 _k	0	e 23 18	- 1	i 24 17	PS
Kiruna		87.2	22	i 12 44 _k	+ 1	i 23 24	+ 5	i 23 4	SKS
Bratislava		88.5	42	i 12 51	+ 2	—	—	e 15 16	?
Messina		88.6	52	e 12 48	- 2	e 23 19	[+ 5]	e 16 18	PP 42.0
Raciborz	z.	88.9	40	e 12 56	+ 4	—	—	—	—
Taranto		89.6	50	12 18	-37	e 23 38	- 3	—	— 42.1
Sodankyla		89.6	22	i 12 56	+ 1	—	—	—	—
Kimberley	z.	103.9	118	i 18 13	PP	—	—	—	—
Ksara		105.6	52	i 14 13	+ 7	i 27 58	PS	i 18 38	PP
Lwiro		106.6	90	e 18 13	PKP	—	—	—	—
Astrida		107.5	9	18 20	PKP	—	—	e 18 46	PP
Tananarive		125.3	109	e 19 12	[+15]	—	—	19 26	pP'
Quetta		130.3	41	e 19 8	[+ 2]	e 26 12	[+ 2]	e 21 21	PP
Rabaul	z.	130.4	270	i 19 9	[+ 2]	e 22 57	PKS	—	—
Bombay	E.	141.6	49	—	—	e 22 57	PKS	—	—
Shillong	z.	146.7	17	e 19 37	[+ 1]	—	—	—	—

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1956

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Dec. 18d. 2h. 31m. 10s. Epicentre 25°·40S. 70°·07W. Depth of focus = 0·002R.

A = +0·3084, B = -0·8503, C = -0·4266; δ = +11; h = +3;
D = -0·940, E = -0·341; G = -0·145, H = +0·401, K = -0·904.

		Δ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.	
				m.	s.		m.	s.		m.	s.		
Antofagasta		1·8	349	i 0	31	+ 2	e 0	52	+ 1	—	—	—	
Copiapo	E.	2·0	187	i 0	33	+ 1	—	—	—	—	—	—	
Santiago		8·0	184	e 1	52	- 5	—	—	—	—	—	—	
Santa Lucia		8·0	184	i 1	53	- 4	3	38	+11	—	—	—	
La Paz		9·0	12	i 2	12 _a	+ 1	i 4	2	+10	i 2	23	PP	4·5
Buenos Aires		13·6	135	3	11	- 1	5	40	- 3	—	—	—	
Huancayo	Z.	14·2	338	e 3	23	+ 3	e 6	11	+14	—	—	—	
Punta Arenas		27·7	181	e 5	51	+ 5	e 10	14	-10	6	46	PP	14·2
Bogota		30·1	352	i 6	8	0	i 11	28	+26	—	—	—	14·8
Chinchina		30·7	349	i 6	12 _k	- 1	i 11	13	+ 2	i 6	29	pP	14·8
Balboa Heights		35·4	344	e 6	55	+ 1	e 12	28	+ 4	—	—	—	—
Galerazamba		36·3	351	i 6	48 _a	-14	i 12	18	-21	i 8	22	PP	17·8
Trinidad		36·8	14	e 7	7	+ 1	—	—	—	—	—	—	—
St. Vincent		39·3	14	e 7	22	- 4	—	—	—	—	—	—	—
Fort-de-France		40·8	13	i 7	36	- 3	e 16	40	SS	7	54	pP	—
Dominica		41·3	13	e 7	41	- 2	—	—	—	—	—	—	—
San Salvador		43·1	332	e 8	18	+20	—	—	—	—	—	—	—
San Juan		43·7	5	i 7	59 _a	- 4	e 14	40	+11	e 9	38	PcP	i 17·8
Comitan		46·6	330	e 14	10	PcS	e 15	28	+17	e 18	47	SS	e 24·5
Oaxaca		49·5	326	e 8	50	+ 1	e 15	54	+ 2	e 18	42	ScS	e 27·9
Merida		49·8	336	i 8	51	0	e 15	50	- 6	11	42	PPP	e 24·8
Vera Cruz		51·1	328	e 9	9	+ 9	e 16	40	+27	e 9	34	pP	e 21·5
Tacubaya		52·8	325	i 9	16 _a	+ 3	i 16	43	+ 6	i 9	31	pP	—
Manzanillo		55·3	320	e 9	40	+ 8	e 17	28	+17	e 11	28	PP	26·3
Guadalajara		56·0	322	e 9	51	+14	e 17	52	+31	e 19	23	ScS	e 27·0
Bermuda		57·7	5	i 9	51	+ 2	i 17	51	+ 9	i 21	28	SS	e 28·7
Mobile		58·4	342	i 9	52 _a	- 2	17	50	0	12	4	PP	24·6
Mazatlan		59·8	321	e 10	6	+ 3	e 18	21	+12	e 10	50	PcP	e 29·1
Columbia		60·0	350	i 10	2 _a	- 3	i 18	10	- 2	i 11	1	PcP	i 24·6
Chapel Hill		61·6	352	i 10	13	- 2	—	—	—	e 12	23	PP	—
Chihuahua		63·9	325	i 10	33 _a	+ 2	i 19	5	+ 3	e 19	25	PS	i 28·3
Washington		64·3	354	i 10	32 _a	- 1	i 19	12	+ 6	e 12	46	PP	e 29·4
M'Bour		65·1	59	i 10	42	+ 3	i 19	45	+29	i 10	54	pP	e 31·3
Philadelphia		65·2	356	i 10	38	- 1	i 19	13	- 4	e 10	58	pP	e 27·0
Fayetteville		65·3	339	i 10	37 _a	- 3	e 19	4	-14	e 10	51	pP	e 33·7
Morgantown		65·3	352	i 10	38	- 2	i 19	17	- 2	—	—	—	—
Cincinnati		65·6	348	i 10	41	- 1	i 19	47	SP	—	—	—	—
Lubbock		66·0	331	i 10	31	-13	i 18	28	-59	e 11	9	PcP	—
Fordham		66·0	357	e 10	44	0	e 19	21	- 6	—	—	—	—
Pittsburgh		66·1	352	i 10	41	- 4	i 19	24	- 5	—	—	—	—
Palisades		66·2	357	i 10	44	- 1	i 19	32	+ 3	i 10	59	pP	e 33·0
Pennsylvania		66·3	354	i 10	46	0	e 19	33	+ 3	e 12	55	PP	—
St. Louis		66·4	343	e 10	45 _k	- 2	19	31	- 2	11	17	PcP	—
Terre Haute		66·5	345	i 10	25	-23	—	—	—	e 15	10	PPP	—
Florissant		66·6	343	10	46 _a	- 2	19	31	- 4	—	—	—	—
Cleveland		67·4	351	i 10	52	- 1	e 19	40	- 4	—	—	—	—
Weston		67·4	359	i 10	52 _a	- 1	i 19	48	+ 3	—	—	—	35·2
Chicago		68·8	346	i 10	53	- 9	i 19	53	- 8	e 15	13	PPP	i 28·4
Tucson		69·3	324	i 11	5 _a	0	i 20	11	+ 4	i 13	58	PP	i 28·5
Halifax		69·9	5	i 10	9 _a	-60	i 20	19	+ 5	e 11	16	P	e 28·3
Brébeuf		70·6	357	11	13 _a	0	20	25	+ 3	—	—	—	—
Shawinigan Falls		71·6	358	i 11	24 _a ?	+ 5	14	10?	PP	11	42?	PcP	—
Barratt		72·8	320	i 11	26 _a	0	i 20	55	+ 9	i 11	40	pP	—
Boulder		72·9	332	e 10	55	-32	—	—	—	—	—	—	—
Hayfield	N.	73·0	322	i 11	28	+ 1	—	—	—	i 11	39	pP	—
Palomar	Z.	73·4	320	i 11	29 _a	- 1	e 21	0	+ 5	i 11	42	pP	—
Kirkland Lake		73·8	353	e 11	28 _a	- 4	e 20	56	- 2	—	—	—	—
Riverside		74·2	321	i 11	34 _a	0	i 21	7	+ 4	i 11	47	pP	—
Boulder City		74·2	324	i 11	33 _a	- 1	e 21	9	+ 5	22	6	PPS	e 23·0
Pasadena		74·8	320	i 11	39 _a	+ 2	i 21	14	+ 4	i 11	52	pP	e 32·3

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		Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Rapid City	E.	75.5	336	i 11 41k	- 1	e 21 14	- 4	e 39 2	P'P'	e 26.2
Hermanus		75.6	121	e 11 50?	+ 8	—	—	—	—	—
China Lake	z.	75.6	322	i 11 41a	- 1	e 21 27	+ 8	i 11 57	pP	—
Lome		75.9	76	e 11 38	- 6	e 20 50	-32	—	—	36.8
Salt Lake City		76.4	329	e 11 46k	- 1	i 21 32	+ 4	e 26 26	SS	e 34.8
King Ranch	z.	76.5	320	i 11 48a	+ 1	e 21 31	+ 2	i 12 3	pP	—
Tinemaha		76.9	322	i 11 50a	0	i 21 35	+ 2	i 12 5	pP	—
Eureka		77.5	325	i 11 52a	- 1	e 30 21	PKKP	i 38 50	P'P'	—
Fresno		77.6	321	e 11 51k	- 2	e 21 59	+19	i 12 6	pP	—
Lick		79.0	320	e 12 3a	+ 2	—	—	i 12 16	pP	—
Santa Clara		79.2	320	e 12 3	+ 1	e 22 4	+ 6	—	—	e 37.8
Reno		79.5	323	e 12 4a	0	e 22 28	+27	i 12 20	pP	—
Berkeley		79.7	320	e 12 4	- 1	i 22 6	+ 3	e 12 19	pP	e 38.1
Bozeman		79.9	332	i 12 6	0	i 22 7	+ 2	i 12 20	pP	i 32.9
Butte	N.	80.9	332	i 12 10a	- 1	i 22 16	+ 1	i 12 25	pP	e 33.6
Mineral		81.1	323	e 12 10	- 2	—	—	i 12 25	pP	—
Ukiah		81.2	321	i 12 12k	- 1	e 22 22	+ 4	i 12 24	pP	i 39.0
Grahamstown	z.	81.6	123	i 12 15k	0	—	—	—	—	—
Shasta		81.8	323	e 12 13	- 3	—	—	i 12 28	pP	—
Kimberley	z.	82.1	118	i 12 17	- 1	—	—	—	—	—
Arcata	E.	82.8	322	e 12 30	+ 9	—	—	—	—	—
Hungry Horse		83.3	332	i 12 21a	- 3	e 22 42	+ 2	e 16 14	PP	—
Saskatoon		83.6	338	—	—	i 22 40	- 3	—	—	—
Corvallis		84.9	325	i 12 27k	- 5	e 22 57	+ 1	—	—	—
Lisbon		85.5	43	e 12 25k	-10	i 16 13	PP	12 35	pP	46.2
Pretoria	z.	86.1	117	i 12 45a	+ 7	—	—	—	—	—
Pietermaritzburg	z.	86.2	121	i 12 34	- 4	—	—	—	—	—
Seattle		86.5	328	12 54	+14	23 8	- 3	23 48	SKKKS	39.3
Malaga		87.4	47	i 12 44k	0	i 23 44	+25	16 22	PP	42.7
Mirny		87.4	173	i 12 41	- 3	i 23 16	- 4	e 24 21	PS	—
Tamanrasset	z.	87.5	64	i 12 44	0	e 23 23	+ 2	e 16 11	PP	—
Victoria		87.7	328	i 12 45	0	23 10	-12	i 12 58	pP	—
Granada		88.2	47	i 12 51a	+ 3	23 25	- 2	i 16 27	PP	i 47.7
Horseshoe Bay		88.2	328	e 12 46	- 2	i 23 12	[+ 3]	—	—	—
Almeria		88.8	48	i 12 52	+ 2	e 24 0	+28	e 16 20	PP	i 42.0
Toledo		89.4	45	i 12 54a	+ 1	e 23 46	+ 8	e 16 42	PP	42.1
Relizane		90.2	50	e 12 58	+ 1	e 23 50	+ 4	e 16 34	PP	—
Gebbies Pass	N.	90.4	220	e 12 44	-14	—	—	13 8	pP	—
Christchurch		90.5	220	12 58	- 1	e 23 7	[-17]	i 13 13	pP	e 40.8
Wellington		90.6	223	i 13 12k	+13	e 23 24	[0]	e 29 35	SS	e 41.6
Alicante		90.9	48	12 54	- 6	23 47	- 5	16 30	PP	e 42.8
Kaimata	N.E.	91.8	220	e 13 10	+ 5	—	—	13 29	pP	—
Cobb River	E.	91.9	222	e 13 7	+ 2	—	—	13 19	pP	—
Karapiro		92.0	226	e 13 6	0	—	—	e 13 19	pP	—
Algiers Univ.		92.5	50	e 13 7	- 1	e 24 1	- 5	e 16 36	PP	—
Hawaii Vol. Obs.		94.0	290	e 13 16	+ 1	e 26 0	PPS	—	—	—
Barcelona		94.2	46	—	—	e 24 9	-11	—	—	e 46.6
Jersey		95.7	38	—	—	e 25 20	+47	e 27 19	PPS	46.8
Reykjavik	z.	96.8	19	e 13 32	+ 4	—	—	—	—	—
Clermont-Ferrand		97.0	42	e 13 30	+ 2	i 24 31	-13	i 26 15	PS	40.8
Lwiro		97.0	96	e 13 31k	+ 2	—	—	i 17 27	PP	—
Tunis		97.5	53	e 17 14	PP	e 23 48	[-15]	e 24 26	S	e 38.8
Astrida		97.7	97	e 13 34	+ 2	—	—	e 17 30	PP	—
Cuglieri		97.9	49	e 17 30	PP	e 36 45	SSS	—	—	—
Kew		97.9	36	e 13 22	-10	i 24 12	[+ 7]	e 25 0	S	e 48.8
Paris		98.1	40	e 13 33	0	e 24 29	[+23]	e 17 36	PP	e 38.8
Monaco		98.7	46	e 13 37k	+ 1	e 17 37	PP	e 13 51	pP	—
Besançon		99.4	42	i 12 17	-81	i 13 53	?	i 12 37	pP	—
Neuchatel		99.9	43	e 13 46	+ 4	e 22 36	?	e 17 47	PP	—
Oropa		99.9	44	18 25	PP	27 8	PPS	—	—	—
Aberdeen		100.0	31	i 26 44	PS	24 39	[+23]	i 25 34	S	e 45.8
Basle		100.5	42	e 14 1	+17	—	—	e 17 50	PP	—
Pavia		100.5	44	e 17 48	PP	e 27 18	PPS	e 35 59	SSS	e 49.1
Zürich		101.1	43	e 14 25	+38	—	—	—	—	—
Strasbourg		101.1	41	e 13 49	+ 2	e 24 59	-20	e 17 51	PP	e 34.8

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Resolute	101.1	354	i 13	46 _k	- 1	e 24	58	-21	e 17	28	PP e 48.9
De Bilt	101.2	37	e 14	50?	+63	e 24	50?	-29	e 17	50?	PP e 41.8
Florence	101.3	44	e 13	54	+ 7	e 25	24	+ 5	e 17	54	PP e 47.8
Rome	101.3	49	i 13	49 _a	+ 1	i 24	26	[+ 4]	i 17	57	PP e 48.8
Scoresby Sund	101.5	15	—	—	—	i 24	49	SKKS	e 27	4	PS 48.8
Bologna	101.6	46	18	26	PP	e 24	30	[+ 7]	—	—	—
Ebingen	z. 101.6	42	e 13	48	- 1	e 17	55	PP	e 14	2	pP —
Karlsruhe	101.7	41	e 18	17	PKP	—	—	—	—	—	48.8
Messina	102.0	53	e 13	49	- 2	e 24	21	[- 5]	e 17	53	PP 47.8
Stuttgart	102.0	42	e 13	49	- 2	e 24	19	[- 7]	e 18	0	PP e 46.8
Reggio Calabria	102.1	53	16	53	?	—	—	—	—	—	—
Witteveen	z. 102.3	37	e 13	54	+ 2	—	—	—	—	—	—
Triest	103.6	46	e 14	20	+22	i 25	29	-11	i 18	16	PP 49.3
Taranto	104.1	52	e 14	9	+ 8	27	9	PS	—	—	51.2
Jena	104.3	40	e 14	1	0	e 25	6	[+30]	e 18	13	PP —
Hamburg	104.4	37	i 14	2	0	—	—	—	e 18	20	PP e 47.8
Cheb	104.5	41	e 18	41	PP	i 24	42	[+ 5]	e 27	39	PS 56.3
Tananarive	105.0	120	e 15	59	?	—	—	—	e 18	0	PP —
Prague	105.7	42	i 18	5	PKP	25	3	[+21]	e 18	38	PP 49.4
Copenhagen	106.6	36	i 18	33	PP	26	7	+ 3	i 25	16	SKKS 45.8
Bratislava	106.7	44	e 14	24	+12	e 33	20	SS	i 18	35	PP —
Hurbanovo	107.3	45	e 19	36	?	e 20	43	SP	—	—	50.8
College	107.7	334	e 14	12 _a	- 4	i 26	11	- 3	i 18	30	PKP e 43.4
Budapest	107.7	45	e 18	39	PP	e 26	40	+26	e 19	4	PP e 47.8
Belgrade	107.8	48	e 19	35	?	e 28	9	PS	25	17	? e 56.7
Raciborz	108.0	43	e 18	3	[-19]	i 28	32	PS	e 18	44	PP e 51.8
Timisoara	E. 108.6	48	e 18	50	PP	—	—	—	—	—	e 56.8
Skalnate Pleso	109.0	44	i 18	19	[- 5]	e 24	28	[-28]	e 18	45	PP 54.8
Krakow	109.0	43	e 18	54	PP	e 28	20	PS	e 19	4	PP —
Skalstugan	109.1	28	e 19	1	PP	—	—	—	—	—	—
Riverview	109.3	216	i 18	23 _a	[- 1]	24	58	[0]	i 18	52	PP e 50.6
Warsaw	110.3	41	—	—	—	25	31	[+29]	i 28	36	PS e 46.8
Upsala	110.5	33	e 19	2	PP	i 26	24	SKKS	e 28	32	PS —
Lwow	111.5	44	e 18	43?	[+13]	e 25	33	[+26]	i 19	25	PP —
Bucharest	111.5	50	—	—	—	i 25	0	[- 7]	26	36	S 49.8
Brisbane	113.0	221	i 19	31	PP	i 28	49	PS	—	—	—
Kiruna	113.4	24	i 18	46	[+13]	i 29	6	SKSP	e 29	21	PKKP —
Helsinki	114.2	33	—	—	—	i 28	56	PS	e 35	12	SPS —
Jerusalem	115.2	65	i 18	39	[+ 2]	i 22	6	PKS	—	—	—
Sodankyla	115.7	25	i 18	39	[+ 1]	—	—	—	—	—	—
Ksara	116.3	63	e 18	43	[+ 4]	i 19	52	PP	i 29	25	PKKP 55.8
Pulkovo	116.8	34	—	—	—	e 29	34	PS	—	—	—
Moscow	120.5	39	e 18	48	[+ 1]	30	0	SKSP	20	1	PP —
Perth	122.7	186	i 20	25	PP	i 30	27	SKSP	i 36	22	SKKS e 57.2
Tiflis	124.6	56	e 18	57	[+ 2]	e 25	54	[+ 1]	i 20	55	PP —
Goris	125.6	58	e 18	54	[- 3]	25	54	[- 2]	20	57	PP —
Rabaul	z. 129.6	240	i 19	6	[+ 1]	i 22	22	PKS	i 19	20	pP' —
Tiksi	132.5	352	e 19	10	[0]	i 22	35	PKS	—	—	—
Sverdlovsk	132.9	35	e 19	10	[- 1]	i 22	40	PKS	e 21	37	PP —
Petropavlovsk	134.4	321	e 19	16	[+ 2]	e 28	39	SKKS	e 31	16	SKSP —
Ashkabad	134.9	61	19	9	[- 6]	i 31	57	PS	i 21	47	PP —
Magadan	135.7	332	e 19	18	[+ 2]	—	—	—	—	—	—
Quetta	141.8	73	e 19	23	[- 4]	e 26	22	[- 9]	i 22	54	PKS —
Tashkent	142.9	54	e 19	24	[- 5]	i 32	40	SKSP	e 22	38	PP —
Bombay	145.1	93	e 19	34	[+ 1]	26	29	[- 7]	20	9	pPKP —
Guam	145.2	257	i 18	34	[-59]	—	—	—	—	—	—
Colombo	E. 145.9	118	19	35	[+ 1]	33	10	SP	—	—	—
Poona	145.9	94	19	35	[+ 1]	e 26	32	[- 6]	22	58	PKS —
Semiplatinsk	146.2	35	i 19	36	[+ 1]	i 22	59	PKS	—	—	—
Frunse	146.2	50	i 19	35 _a	[0]	i 23	0	PKS	i 19	51	pP' —

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Lahore	148.2	71	19 41	[+ 3]	—	—	—	—
Madras	E. 149.4	108	e 19 46	[+ 6]	26 41	[- 1]	33 36	SP
Hyderabad	E. 149.7	99	i 19 49	[+ 9]	34 2	SP	23 17	PKS
New Delhi	N. 150.7	76	e 19 45	[+ 3]	30 14	SKKS	23 30	PP
Irkutsk	152.8	8	i 19 46	[+ 1]	i 20 2	PKP ₂	i 23 37	PP
Matusiro	153.4	302	19 47	[+ 1]	30 27	SKKS	e 23 52	PP
Chatra	Z. 159.5	81	i 19 55	[+ 1]	—	—	—	—
Shillong	E. 163.7	86	20 1	[+ 3]	i 31 41	PKKS	—	—
Peking	164.5	342	i 19 59 _a	[0]	—	—	24 54	PP
Manila	165.1	226	e 20 27	[+28]	—	—	—	—
Tatung	165.1	350	e 20 17	[+18]	—	—	—	—
Wuwei	166.1	25	20 5	[+ 5]	—	—	—	—
Yinchuan	166.6	12	20 7	[+ 6]	—	—	—	—
Zò-Sè	168.6	302	i 20 2 _a	[0]	21 4	PKP ₂	25 0	PP
Nanking	169.8	312	20 4 _a	[+ 1]	—	—	25 14	PP
Sian	171.1	6	20 14	[+11]	—	—	—	—
Hong Kong	175.0	232	22 1 _f	PKP ₂	e 36 20 _f	SKSP	25 49	PP
Canton	176.2	234	e 20 5	[0]	—	—	—	—

Dec. 18d. 17h. 53m. 3s. Epicentre 31°·63N. 35°·52E.

A = +0.6943, B = +0.4956, C = +0.5218; $\delta = -5$; $h = +1$;
D = +0.581, E = -0.814; G = +0.425, H = +0.303, K = -0.853.

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Jerusalem	0.3	301	i 0 10 _a	- 1	—	—	—	—
Safed	1.3	359	i 0 27	+ 1	i 0 51	+ 6	—	—
Ksara	2.2	8	i 0 42	- 2 _x	1 12	- 1 _x	—	—
Goris	11.8	45	2 55	+ 2	—	—	—	—
Sotchi	12.4	14	3 2	+ 1	—	—	—	—
Tiflis	12.5	34	e 3 5	+ 3	—	—	—	—
Simferopol	13.4	356	3 14	0	—	—	—	—
Sofia	14.7	322	i 3 30	- 1	—	—	—	—
Makhach-Kala	14.8	37	3 37	+ 5	6 34	+16	—	—
Bucharest	14.8	333	3 43	+11	—	—	e 3 48	PP
Kishinev	16.2	343	i 3 50	0	—	—	—	—
Iasi	16.7	341	3 59	+ 2	—	—	5 3	?
Taranto	17.2	306	e 4 17	PP	—	—	—	—
Reggio Calabria	17.5	297	e 4 6	- 1	e 8 5	SSS	—	—
Messina	17.6	297	e 4 7 _a	- 2	i 7 20	- 4	i 4 21	PP
Belgrade	17.7	322	i 4 10 _k	+ 1	e 7 41	+16	e 7 48	SSS
Budapest	20.2	326	4 39	0	8 30	8	5 10	PPP
Hurbanovo	20.9	326	e 4 48	+ 1	e 9 27	SS	i 5 10	PP
Skalnate Pleso	21.0	331	i 4 45	- 2	—	—	e 5 28	PPP
Rome	21.1	306	e 4 47	- 1	e 8 34	- 5	e 5 7	PP
Bratislava	21.6	325	i 4 52	- 2	i 8 55	+ 5	i 5 25	PP
Krakow	21.8	332	e 4 55	0	—	—	e 6 4	?
Triest	21.9	316	e 4 58	+ 1	i 9 0	+ 5	i 9 17	SS
Raciborz	22.5	330	i 5 3	0	e 9 35	SS	e 7 34	?
Florence	22.6	309	i 5 8 _a	+ 4	i 9 18	+10	i 5 34	PP
Bologna	22.9	311	e 5 14	+ 8	e 9 44	+32	e 6 8	PPP
Warsaw	23.2	337	e 5 36	PP	e 9 42	SS	e 9 7	PcP
Moscow	24.2	2	e 5 18	- 1	e 9 38	+ 2	—	—
Prague	24.2	326	i 5 19 _k	0	i 9 38	+ 2	i 10 21	SS
Pavia	24.6	311	e 5 24 _k	+ 1	e 9 46	+ 4	e 6 49	?
Monaco	25.2	307	e 5 28 _k	- 1	—	—	e 6 1	PP
Oropa	25.5	311	e 5 32	0	e 9 43	-15	e 6 14	PP
Zürich	25.9	315	e 5 36	+ 1	—	—	—	—
Ebingen	Z. 26.0	317	i 5 37 _k	0	—	—	e 6 13	PP
Tubingen	26.2	318	e 5 38	0	—	—	e 6 17	PP

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Jena		26.2	324	e 5 36	- 2	e 10 0	- 9	e 6 5	PP	—
Stuttgart	z.	26.2	318	i 5 37k	- 1	—	—	e 6 24	PP	—
Basle		26.6	315	e 5 42	0	e 9 39	-36	—	—	—
Neuchatel		26.7	313	e 5 42	- 1	—	—	—	—	—
Karlsruhe	z.	26.8	318	e 5 42a	- 2	—	—	e 6 17	PP	—
Strasbourg		26.9	317	e 5 45a	0	—	—	i 6 34	PP	—
Quetta		27.0	85	e 5 45	0	e 10 23	+ 1	—	—	—
Algiers Univ.	z.	27.3	290	e 5 49	+ 1	—	—	e 6 33	PP	—
Besançon		27.4	313	i 5 51	+ 2	—	—	e 6 37	PP	—
Tamanrasset	z.	28.0	259	e 5 55	0	e 10 42	+ 3	e 7 3	PPP	14.1
Hamburg	z.	28.6	328	i 6 0a	0	—	—	i 6 21	PP	—
Clermont-Ferrand		28.7	309	e 6 2	+ 1	—	—	—	—	—
Copenhagen		29.0	333	e 6 4	0	—	—	—	—	17.0
Relizane		29.3	288	e 5 58	- 8	—	—	6 34	PP	—
Witteveen	z.	29.8	324	e 6 10	0	—	—	—	—	—
Paris		30.2	314	e 6 15	+ 1	—	—	e 6 50	PP	e 20.0
Namangan		30.3	61	e 6 16	+ 1	—	—	—	—	—
Sverdlovsk		30.6	26	6 17	- 1	—	—	—	—	—
Upsala		30.7	342	i 6 8	-10	—	—	i 7 11	PP	—
Granada		32.6	291	i 7 17	+42	—	—	—	—	—
Lahore		32.9	80	6 38	0	—	—	—	—	—
Lwiro		34.3	192	e 6 55k?	+ 5	—	—	—	—	e 18.9
Astrida		34.5	190	e 6 50	- 2	—	—	—	—	—
Skalstugan		35.2	342	i 6 56	- 2	—	—	—	—	—
Bombay		35.9	102	—	—	e 15 15	SS	—	—	—
Sodankyla		36.2	354	i 7 4	- 2	—	—	i 8 24	PP	—
Kiruna		37.3	351	i 7 14	- 2	—	—	—	—	—
Semipalatinsk		37.9	46	7 21	+ 1	—	—	—	—	—
Shillong	z.	49.4	82	e 8 52k	- 1	—	—	—	—	—
M'Bour		50.8	263	i 9 4	0	e 16 39	PS	i 14 22	PcS	e 33.0
Pretoria	z.	57.5	188	i 10 1	+ 8	—	—	—	—	—
Resolute		69.2	348	e 11 8	- 2	—	—	—	—	—
Halifax		74.4	313	e 11 37	- 5	—	—	i 11 47	PcP	—
Shawinigan Falls		78.9	318	i 12 19?k	+12	—	—	—	—	—
Matusiro		80.9	53	e 12 19	+ 1	—	—	—	—	e 44.9
Ottawa		81.2	318	i 12 26k	+ 7	—	—	—	—	—
College		83.8	1	i 12 30	- 3	—	—	—	—	—
Hungry Horse		95.8	340	e 13 29	- 1	—	—	e 17 19	PP	—

Dec. 18d. 19h. 20m. 6s. Epicentre 36°·22S. 76°·68E.

A = +0.1864, B = +0.7869, C = -0.5883; δ = +5; h = 0;
D = +0.973, E = -0.230; G = -0.136, H = -0.572, K = -0.809.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Tananarive		30.9	296	i 6 21a	+ 1	12 0?	+36	e 7 22	PP	e 15.1
Perth		32.6	94	i 6 38	+ 3	11 57	+ 7	i 15 4	?	—
Pietermaritzburg	z.	39.1	266	i 7 32	+ 2	—	—	—	—	—
Grahamstown	z.	40.9	259	i 7 46	+ 1	—	—	—	—	—
Pretoria	z.	42.5	270	i 8 0k	+ 2	—	—	—	—	—
Colombo	E.	43.0	5	8 7	+ 5	14 27	- 1	—	—	20.9
Kimberley	z.	44.0	264	i 8 10a	0	—	—	—	—	—
Hermanus		46.3	254	—	—	i 15 19	+ 3	i 18 38	SS	—
Madras	E.	49.1	4	e 8 54	+ 4	i 15 59	+ 4	19 17	SS	23.4
Hyderabad	E.	53.4	2	—	—	e 16 57	PS	—	—	24.7
Melbourne		53.4	114	i 9 25	+ 2	—	—	i 10 0	?	25.3
Poona		54.5	357	i 9 30	- 1	e 17 12	+ 2	11 29	PP	—
Astrida		54.7	297	e 9 33	0	—	—	e 10 2	?	—
Bombay		54.9	356	e 9 37	+ 2	e 17 19	+ 3	17 31	PS	—
Lwiro		55.6	296	e 9 40k	+ 1	—	—	e 11 32	PP	—
Riverview		59.6	112	i 10 5k	- 3	i 18 18	- 1	i 10 51	PcP	e 28.1
Bokaro		60.4	10	i 10 11	- 2	—	—	—	—	—
Shillong		63.1	15	i 10 28k	- 3	i 19 0	- 2	11 11	PcP	29.0
Chatra	E.	63.5	10	e 10 42	+ 8	—	—	—	—	—
Brisbane		63.9	106	i 10 34	- 3	i 19 12	0	—	—	—

Continued on next page.

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		Δ	Az.	P.		O - C.	S.		O - C.	Supp.		L.	
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
New Delhi	N.	64.5	0	e 10	39	- 1	e 19	13	- 5	13	3	PP	—
Dehra Dun		66.2	1	e 10	43	- 8	e 19	36	- 4	13	9	PP	—
Quetta		66.7	351	e 10	52	- 3	i 19	45	- 1	e 13	11	PP	—
Hong Kong		68.2	37	—	—	—	e 20	10?	+ 7	—	—	—	—
Canton		68.4	36	e 11	6	+ 1	20	15	+ 9	—	—	—	—
Wellington	N.	72.5	128	—	—	—	e 20	48	- 6	—	—	—	35.1
Stalinabad		74.8	354	11	42	- 2	21	21	+ 1	—	—	—	—
Rabaul	z.	75.8	85	e 11	47	- 2	—	—	—	—	—	—	—
Sian		76.3	27	e 11	57	+ 5	21	44	+ 8	—	—	—	—
Namangan		77.0	357	i 11	55	- 1	e 21	44	- 1	—	—	—	—
Jerusalem		78.0	325	i 12	1 ^a	0	—	—	—	i 12	7	PcP	—
Nanking		78.5	36	e 12	4	0	e 22	3	+ 2	—	—	—	—
Frunse		78.7	358	12	4	- 1	22	4	+ 1	—	—	—	—
Zò-Sè		78.9	38	e 12	6	0	22	7	+ 2	—	—	—	—
Ksara		79.4	326	i 12	12	+ 3	—	—	—	i 15	6	PP	—
Tiflis		82.9	336	12	27	- 1	22	58	+ 12	—	—	—	—
Makhach-Kala		83.2	339	12	30	+ 1	—	—	—	—	—	—	—
Peking		84.1	29	e 12	34	0	23	3	+ 5	—	—	—	—
Sotchi		86.2	334	12	44	0	23	14	[+ 5]	—	—	—	—
Semipalatinsk		86.3	3	12	44	- 1	23	16	- 4	—	—	—	—
Tamanrasset	z.	89.2	299	e 13	0	+ 2	23	35	[+ 7]	e 16	31	PP	—
Simferopol		89.5	331	13	1	+ 1	23	58	+ 8	—	—	—	—
Irkutsk		91.4	17	13	2	- 7	23	47	{- 5}	—	—	—	—
Matusiro		92.2	45	13	11	- 2	i 24	18	+ 4	e 16	54	PP	e 36.5
Messina		93.1	316	e 13	16	- 1	e 23	54	[+ 3]	e 17	24	PP	46.9
Kishinev		93.3	329	i 13	18	0	24	28	+ 4	—	—	—	—
Sverdlovsk		93.7	352	13	18	- 2	23	55	[+ 1]	—	—	—	—
Taranto		93.8	319	e 19	8	PPP	24	8	[+ 14]	—	—	—	—
Rome		97.4	317	e 13	36	0	e 24	13	[- 1]	e 17	35	PP	48.0
Moscow		97.5	339	e 17	8	PP	—	—	—	—	—	—	—
Triest		99.3	321	e 17	38	PP	i 24	29	[+ 5]	i 17	48	PP	—
Florence		99.3	318	—	—	—	24	38	[+ 14]	e 26	37	PS	—
Bratislava		99.4	324	i 13	44	- 1	—	—	—	e 17	48	PP	—
Algiers Univ.		99.6	309	e 13	48	+ 2	—	—	—	e 17	54	PP	—
M'Bour		101.2	280	i 13	45	- 9	i 24	0	[- 33]	—	—	—	e 47.9
Stuttgart	z.	103.7	321	e 18	20	PP	—	—	—	—	—	—	—
Strasbourg		104.3	320	e 18	17	PP	—	—	—	—	—	—	e 55.4
Besançon		104.4	318	e 18	27	PP	—	—	—	18	56	?	—
La Paz		117.9	219	—	—	—	i 22	31	PKS	—	—	—	55.9
Huancayo		125.2	214	e 19	22	[+ 20]	e 26	46	[+ 40]	e 37	38	SS	e 75.4
Scoresby Sund	z.	126.5	336	e 19	5	[0]	—	—	—	e 21	3	PP	—
College		141.1	28	i 19	31	[- 1]	—	—	—	i 22	30	PP	—
Resolute		141.2	356	e 19	27	[- 5]	—	—	—	—	—	—	—
Bermuda		148.0	274	i 19	42	[- 2]	—	—	—	i 20	45	?	e 67.1
Halifax		148.9	298	i 19	47 ^k	[+ 2]	—	—	—	—	—	—	—
Shawinigan Falls		155.0	304	e 20	7?	[+ 13]	—	—	—	e 20	28?	PKP ₂	—
Ottawa		157.3	302	e 20	30	PKP ₂	34	28	PSKS	—	—	—	—
Kirkland Lake		159.1	312	e 20	33	PKP ₂	—	—	—	—	—	—	—
Columbia		161.6	270	e 19	51	[- 11]	—	—	—	e 24	43	PP	—
Shasta		164.4	68	e 20	6	[+ 1]	—	—	—	e 21	0	PKP ₂	—
Mineral		165.1	68	e 20	22	[+ 16]	—	—	—	—	—	—	—
Hungry Horse		165.5	30	i 20	6	[0]	—	—	—	e 24	52	?	—
King Ranch		166.6	89	e 20	16	[+ 9]	—	—	—	—	—	—	—
Reno		166.6	71	e 20	10	[+ 3]	—	—	—	e 21	24	PKP ₂	—
Fresno		166.7	83	e 20	10	[+ 3]	—	—	—	—	—	—	—
Pasadena		167.7	95	e 20	11	[+ 4]	e 28	7	[+ 57]	e 25	8	PP	e 78.3
Tinemaha	z.	168.0	82	e 20	43	[+ 35]	—	—	—	—	—	—	—
Riverside	z.	168.3	97	e 20	10	[+ 2]	e 21	18	PKP ₂	e 25	8	PP	—
China Lake	z.	168.4	88	e 20	10	[+ 2]	e 21	16	PKP ₂	e 25	5	PP	—
Barratt	z.	168.4	104	e 20	11	[+ 3]	e 21	19	PKP ₂	e 25	13	PP	—
Palomar	z.	168.5	100	e 20	12	[+ 4]	e 21	19	PKP ₂	e 25	15	PP	—
Eureka		169.5	68	i 20	11	[+ 2]	i 21	23	PKP ₂	25	12	PP	—
Hayfield	N.	169.6	100	e 20	15	[+ 6]	—	—	—	21	30	PKP ₂	—
Boulder City		170.7	88	e 20	11	[+ 2]	—	—	—	e 25	17	PP	—
Salt Lake City		171.9	53	e 20	13	[+ 3]	—	—	—	e 21	34	PKP ₂	—
Rapid City	E.	172.2	359	e 20	12	[+ 2]	i 21	35	PKP ₂	i 25	28	PP	—
Tucson		172.6	120	e 20	13	[+ 3]	i 32	31	{+ 14}	e 29	31	PPP	e 83.0

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Dec. 18d. 21h. 13m. 0s. Epicentre 35°·62N. 139°·34E. Depth of focus = 0·013R.

A = -0·6180, B = +0·5309, C = +0·5798; δ = -5; h = 0;
D = +0·652, E = +0·758; G = -0·440, H = +0·378, K = -0·815.

	Δ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.		
			m.	s.		m.	s.		m.	s.			
Tokyo	0·3	80	0	16k	-	2	0	29	-	2	i 0 19	P	—
Yokohama	0·3	127	i	0 22	+	4	e	0 35	+	3	—	—	—
Titibu	0·4	330	i	0 16a	-	2	i	0 29	-	3	—	—	—
Hunatu	0·5	256	i	0 15k	-	3	i	0 27	-	6	—	—	—
Kumagaya	0·5	4	i	0 16a	-	3	i	0 31	-	2	—	—	—
Kashiwa	0·6	66	i	0 18k	-	1	0	31	-	3	—	—	—
Misima	0·6	212	i	0 17a	-	2	i	0 31	-	3	—	—	—
Ajiro	0·6	199	i	0 17k	-	2	i	0 31	-	3	—	—	—
Kohu	0·6	271	i	0 18k	-	1	i	0 30	-	4	—	—	—
Mera	0·8	150	i	0 20		0k	i	0 34	-	2	—	—	—
Maebasi	0·8	345	i	0 19a	-	1	0	33	-	3	—	—	—
Osima	0·8	178	i	0 19k	-	2	i	0 32	-	5	—	—	—
Kakioka	E. 0·9	48	i	0 20a	-	1	0	32	-	5	—	—	—
Oiwake	1·0	318	i	0 26a	+	5	e	0 40	+	2	—	—	—
Shizuoka	1·0	230	0	22k		0	i	0 39	+	1	e 0 28	PP	—
Utunomiya	1·0	25	i	0 22a		0	i	0 35	-	4	i 0 26	PP	—
Mito	1·2	50	0	23	-	1	0	40	-	2	—	—	—
Iida	1·2	266	i	0 25a	+	1	i	0 43		0	—	—	—
Tyosi	1·2	85	i	0 24k		0	i	0 44	+	1	—	—	—
Matumoto	1·3	301	i	0 24a	-	1	0	43	-	1	—	—	—
Matusiro	1·3	316	i	0 24a	-	1	0	40	-	4	—	—	—
Omaesaki	1·4	222	i	0 25k	-	1	i	0 47	+	1	—	—	—
Nagano	1·4	319	i	0 25a	-	1	e	0 45	-	1	—	—	—
Hamamatu	1·6	236	e	0 30	+	1	i	0 50	-	1	—	—	—
Shirakawa	1·7	25	0	28a	-	1	i	0 27	-	5	—	—	—
Takada	1·7	330	0	28	-	2	0	52	-	1	—	—	—
Takayama	E. 1·8	288	0	30a	-	1	0	54		0	—	—	—
Onahama	1·8	43	i	0 33k	+	2	i	0 55		0	—	—	—
Nagoya	2·0	258	0	34	+	1	0	58		0	—	—	—
Toyama	2·0	303	0	36a	+	2	i	1 9	+	9	—	—	—
Gihu	2·1	265	e	0 33k	-	2	e	0 59	-	2	e 1 15	SS	—
Niigata	2·3	354	e	0 41	+	3	1	9	+	3	—	—	—
Hukusima	2·3	23	i	0 38k		0	i	1 8	+	2	—	—	—
Kanazawa	2·4	294	e	0 33	-	5	e	1 7		0	—	—	—
Ibukisan	E. 2·4	265	e	0 37	-	2	e	1 7	-	2	—	—	—
Kameyama	2·5	253	e	0 40k		0	1	5	-	5	—	—	—
Tu	2·5	250	e	0 40		0	e	1 8	-	2	—	—	—
Hukui	2·5	281	i	0 41a	+	1	e	1 5	-	6	—	—	—
Hikone	2·5	263	0	41a		0	1	10	-	2	—	—	—
Hatidyozima	2·6	171	e	0 40	-	1	1	10	-	2	—	—	—
Aikawa	2·6	340	i	0 40a	-	1	1	5	-	7	—	—	—
Wazima	2·6	313	e	0 41a	-	1	e	1 16	+	2	—	—	—
Tsuruga	E. 2·7	272	i	0 41a	-	1	1	10	-	4	—	—	—
Yamagata	2·8	17	i	0 44	+	1	i	1 18	+	1	—	—	—
Sendai	2·9	25	0	45	-	1	1	15	-	6	1 11	S	—
Owase	3·0	240	0	46	-	1	i	1 17	-	6	e 1 37	SS	—
Kyoto	3·0	260	0	46a	-	1	1	15	-	8	—	—	—
Nara	3·0	253	e	0 48	+	1	e	1 15	-	8	—	—	—
Maizuru	3·2	268	e	0 49		0	e	1 26		0	—	—	—
Isinomaki	3·2	29	0	49	-	1	1	24	-	4	i 1 41	SS	—
Osaka	3·3	254	e	0 51	+	1	e	1 27	-	2	e 1 20	?	—
Kobe	3·5	256	e	0 55	+	1	e	1 34	-	1	—	—	—
Siomisaki	3·6	235	e	0 56		0	e	1 36	-	2	—	—	—
Toyooka	3·7	270	e	0 55	-	1	e	1 24	-	15	—	—	—
Wakayama	3·7	249	e	0 54	-	2	e	1 42	+	3	—	—	—
Mizusawa	3·8	22	0	56	-	1	e	1 36	-	5	—	—	—
Sumoto	3·9	252	e	1 0	+	2	i	1 39	-	4	e 1 47	SS	—
Akita	4·1	8	i	1 3	+	1	i	1 54	+	4	—	—	—
Tottori	4·2	270	e	1 19	+	17	e	1 57	+	5	e 1 42	?	—
Tokusima	4·2	250	i	1 4	+	1	1	48	-	4	i 1 10	PP	2·3

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Morioka		4.3	19	i 1 4 _a	- 1	i 1 52	- 3	—	—
Takamatu		4.5	255	e 1 8	+ 1	2 18	SS	—	—
Miyako		4.5	27	e 1 6	- 1	e 1 52	- 8	e 1 19	PP
Yonago		4.9	270	e 1 13	+ 1	e 1 55	-13	—	—
Matsue		5.1	270	—	—	e 2 8	- 7	e 2 42	?
Hatinohe		5.2	19	e 1 17	+ 1	e 2 11	- 5	—	—
Koti		5.2	248	e 1 17	0	e 2 10	- 6	—	—
Aomori		5.3	12	e 1 23	+ 5	e 2 20	+ 1	—	—
Matuyama		5.7	254	e 1 20	- 3	e 2 35	+ 7	e 1 58	?
Hirosima		5.8	260	e 1 24	- 1	e 2 30	0	e 2 55	SS
Simidu		6.0	244	e 1 20	- 7	e 2 28	- 7	—	—
Hamada	N.	6.0	265	e 1 38	+11	e 2 46	+11	—	—
Hakodate	N.	6.2	10	e 1 34	+ 3	e 2 42	+ 1	—	—
Mori		6.5	8	e 1 50	+15	e 3 2	+14	—	—
Ooita		6.8	252	e 1 44	+ 6	e 3 15	+20	—	e 3.6
Muroran		6.8	10	e 1 36	- 3	—	—	—	—
Urakawa		7.0	21	e 1 40	- 2	e 2 58	- 3	—	—
Tomakomai		7.1	14	e 1 43	+ 1	—	—	—	—
Sapporo		7.6	11	e 1 54	+ 5	e 3 12	- 2	e 2 1	PP
Hukuoka		7.6	257	e 1 48	- 1	—	—	e 2 32	?
Saga		7.8	255	e 1 59	+ 7	i 4 20	+60	—	—
Obihiro	z.	7.9	21	e 1 51	- 2	—	—	—	—
Kusiro		8.3	27	e 1 55	- 4	e 3 21	-11	—	—
Nemuro		9.1	30	—	—	e 3 38	-12	—	—
Changechun		13.5	312	3 8	0	—	—	—	—
Suihwa		14.4	324	e 3 24	+ 5	—	—	—	—
Peking		18.8	290	e 4 9	- 3	—	—	—	—
Shillong	z.	41.7	270	i 6 36 _k	-62	—	—	—	—
Frunse		49.6	300	e 8 40	- 1	—	—	—	—
College		51.2	32	i 8 50	- 3	—	—	i 9 30	pP
Namangan		52.2	298	e 8 59	- 2	—	—	—	—
Sverdlovsk		55.1	320	e 9 20	- 2	—	—	—	—
Quetta		59.8	287	e 9 52	- 3	e 17 58	+ 3	—	—
Resolute		64.4	14	i 10 24 _a	- 1	—	—	—	—
Sodankyla		65.6	337	i 10 31	- 2	—	—	i 10 57	pP
Kiruna		67.2	339	i 10 42	- 2	—	—	—	—
Moscow		67.4	324	e 10 43	- 2	—	—	—	—
Skalstugan		72.6	338	i 11 16	0	—	—	—	—
Shasta		73.3	52	i 11 20 _a	0	—	—	—	—
Scoresby Sund	z.	73.3	354	i 11 19	- 1	—	—	—	—
Upsala		73.5	333	i 11 19 _a	- 2	—	—	—	—
Hungry Horse		74.0	42	i 11 25	+ 1	—	—	e 12 8	sP
Mineral		74.0	52	e 11 24	0	—	—	—	—
Berkeley		74.9	54	i 11 30 _a	+ 1	—	—	—	—
Reno		75.6	52	e 11 34 _a	+ 1	—	—	—	—
Lick		75.6	54	i 11 34 _a	+ 1	—	—	—	—
Fresno		77.2	54	e 11 43 _a	+ 1	—	—	—	—
King Ranch	z.	78.0	55	i 11 48	+ 1	—	—	e 12 20	pP
Tinemaha	z.	78.0	53	i 11 48	+ 1	—	—	—	—
Eureka		78.0	50	i 11 47	0	—	—	i 12 7	pP
Copenhagen	z.	78.4	332	e 11 47	- 2	—	—	—	—
China Lake	z.	79.2	54	i 11 53 _a	0	—	—	e 12 21	pP
Pasadena	z.	79.8	55	i 11 57 _a	+ 1	—	—	i 12 27	pP
Salt Lake City		79.8	47	e 11 58	+ 2	—	—	—	—
Riverside		80.4	55	i 12 0 _a	0	—	—	e 12 10	PcP
Boulder City		80.9	52	i 12 2	0	—	—	i 15 7	PP
Palomar	z.	81.1	55	i 12 4 _a	+ 1	—	—	i 12 24	pP
Barratt	z.	81.6	56	i 12 6 _a	0	—	—	e 12 24	pP
Hayfield	N.	81.7	54	i 12 8	+ 1	—	—	—	—
Bratislava		82.0	325	i 12 7	- 1	e 15 7	PP	i 12 35	pP

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Jena	82.3	330	e 12 8	- 2	—	—	e 12 36	pP
Rapid City	E. 82.5	40	i 12 11	+ 1	—	—	—	—
Boulder	84.1	44	e 12 20	+ 2	—	—	—	—
Stuttgart	Z. 85.0	330	e 12 21	- 2	—	—	e 13 2	sP
Ebingen	Z. 85.6	329	e 12 23	- 3	—	—	—	—
Tucson	85.8	53	e 12 28	+ 1	i 13 11	sP	e 12 57	pP
Paris	87.6	333	i 12 35	- 1	e 13 17	sP	e 12 58	pP
Kirkland Lake	89.5	25	e 12 43	- 2	—	—	—	—
Shawinigan Falls	93.2	22	i 13 9 _a	+ 7	—	—	—	—
Ottawa	93.4	24	i 13 3 _a	0	—	—	—	—
Tamanrasset	Z. 107.3	316	e 18 4	[- 8]	—	—	e 18 17	PP
Huancayo	Z. 140.9	62	e 19 13	[- 3]	—	—	—	—

Dec. 19d. 1h. 18m. 15s. Epicentre 50°·85N. 157°·13E. Depth of focus = 0.004R.

A = -0.5840, B = +0.2464, C = +0.7735; $\delta = +7$; $h = -6$;
D = +0.389, E = +0.921; G = -0.713, H = +0.301, K = -0.634.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Petropavlovsk	2.5	22	0 39	0	1 6	- 3	—	—
Matusiro	19.7	231	4 27	0	8 5	+ 5	e 6 31	? e 9.2
Tiksi	24.4	339	5 14	0	—	—	—	—
College	31.3	42	i 6 15	- 1	—	—	i 7 8	PP
Resolute	46.1	21	i 8 20 _a	0	—	—	e 9 55	PcP
Semipalatinsk	46.6	301	8 23	- 1	—	—	—	—
Horseshoe Bay	48.7	59	e 8 35	- 5	—	—	—	—
Victoria	49.1	60	i 8 42 _a	- 1	—	—	i 8 56	pP
Banff	51.7	53	i 9 3 _a	0	—	—	i 9 16	pP
Sverdlovsk	52.6	317	9 10	0	—	—	—	—
Frunse	54.2	296	9 22	0	—	—	—	—
Hungry Horse	54.2	55	i 9 21	- 1	e 9 48	sP	e 9 35	pP
Shasta	54.4	67	i 9 24 _a	+ 1	—	—	i 9 37	pP
Ukiah	54.9	69	e 9 27	0	—	—	i 9 40	pP
Rabaul	Z. 55.0	186	i 9 27	0	—	—	—	—
Mineral	55.1	67	i 9 28 _a	0	—	—	i 9 42	pP
Shillong	Z. 55.1	269	e 9 29	+ 1	—	—	—	—
Berkeley	56.3	70	e 9 37 _a	0	—	—	i 9 51	pP
Sodankyla	56.4	339	i 9 35	- 2	—	—	—	—
Butte	N. 56.5	57	e 9 38	0	—	—	—	—
Reno	56.7	67	e 9 40	+ 1	—	—	i 9 54	pP
Lick	57.0	70	i 9 42 _a	0	i 10 5	sP	i 9 56	pP
Kiruna	57.3	342	i 9 42 _k	- 2	—	—	—	—
Fresno	58.5	69	e 9 53	+ 1	—	—	i 10 7	pP
Eureka	58.9	64	i 9 56	+ 1	e 39 20	P'P'	10 9	pP
Scoresby Sund	Z. 59.0	0	i 9 54	- 2	—	—	i 10 44	PcP
Tinemaha	Z. 59.2	68	i 9 58 _a	+ 1	—	—	i 10 12	pP
King Ranch	Z. 59.5	70	i 9 59 _a	0	—	—	i 10 14	pP
Salt Lake City	60.4	61	i 10 5	0	—	—	i 10 19	pP
China Lake	Z. 60.4	69	i 10 6 _a	0	—	—	i 10 20	pP
Pasadena	61.3	70	i 10 12 _a	+ 1	—	—	i 10 25	pP
Riverside	Z. 61.8	70	i 10 14 _a	- 1	—	—	i 10 28	pP
Boulder City	62.0	67	i 10 16	0	—	—	i 12 30	PP
Palomar	Z. 62.6	70	i 10 20 _a	0	—	—	i 10 35	pP
Skalstugan	62.6	343	i 10 19	- 1	—	—	—	—
Rapid City	E. 62.6	53	i 10 21	+ 1	—	—	i 10 35	pP
Hayfield	N. 63.1	69	i 10 23	0	—	—	i 10 37	pP
Barratt	Z. 63.2	70	i 10 23 _a	- 1	i 10 48	sP	i 10 38	pP
Boulder	64.4	58	e 10 33	+ 1	—	—	—	—
Upsala	64.9	339	i 10 34	- 1	—	—	—	—
Reykjavik	Z. 65.4	0	i 10 40 _k	+ 2	—	—	—	—
Tucson	67.0	67	i 10 48	0	—	—	i 11 2	pP
Quetta	67.4	290	e 10 51	0	e 19 41	+ 1	—	—
Kirkland Lake	69.9	37	e 11 5 _a	- 1	—	—	—	—
Lubbock	71.1	60	i 11 3	- 10	—	—	i 11 20	PcP

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Poona	z.	71.7	277	i 11 18	+ 1	—	—	i 11 35	PcP	—
Witteveen	z.	73.7	342	i 11 30	+ 1	—	—	—	—	—
Ottawa		73.8	36	e 11 28 _a	- 2	—	—	—	—	—
Shawinigan Falls		73.9	33	i 11 37 _a	+ 7	—	—	i 11 51	PcP	—
Jena	z.	74.4	338	e 11 35	+ 2	—	—	e 11 59	sP	—
Brébeuf		74.5	34	i 11 33 _a	- 1	—	—	—	—	—
Rathfarnham C.	z.	75.3	350	i 11 38 _a	- 0	—	—	i 12 22	?	—
Bratislava		75.6	334	i 11 39	- 1	—	—	e 12 3	sP	—
Kew	z.	76.3	346	e 11 44	0	—	—	—	—	—
Stuttgart	z.	77.0	339	e 11 48	0	—	—	—	—	—
Tubingen		77.3	339	e 11 50	+ 1	—	—	—	—	—
Strasbourg		77.5	340	e 11 51	0	—	—	e 12 14	pP	—
Ebingen	z.	77.6	339	e 11 51	0	—	—	—	—	—
Palisades		78.2	37	i 12 3	+ 8	—	—	—	—	—
Paris		78.4	343	i 11 56	+ 1	e 22 4	+19	i 12 8	PcP	—
Basle		78.6	340	e 11 59	+ 2	—	—	e 19 52	?	—
Besançon		79.2	340	i 12 1	+ 1	—	—	e 12 19	pP	—
Clermont-Ferrand		81.2	342	i 12 12	+ 1	—	—	e 13 29	?	—
Florence		81.2	336	i 12 10 _a	- 1	e 22 17	+ 2	—	—	—
Columbia		81.2	46	i 12 10	- 1	—	—	i 12 25	pP	—
Monaco		82.2	338	i 12 16 _a	0	—	—	i 12 22	PcP	—
Rome		82.6	334	e 12 17	- 1	e 22 22	- 7	e 18 17	?	e 43.9
Jerusalem		83.1	313	i 12 20 _k	- 1	—	—	—	—	—
Messina		85.1	331	e 12 29	- 2	—	—	e 15 47	PP	—
Algiers Univ.	z.	89.8	339	e 12 52	- 1	—	—	e 12 33	?	—
Tamanrasset	z.	102.5	333	e 13 52	+ 1	e 17 25	PP	e 30 2	PKKP	—
Astrida		114.8	299	e 18 37	[+ 3]	—	—	—	—	—
M'Bour		114.8	354	—	—	i 25 8	[- 8]	e 27 26	S	—
Lwiro		115.0	300	e 18 38	[+ 4]	—	—	e 19 5	pP'	—
Huancayo	z.	122.6	67	i 18 52	[+ 3]	e 20 42	PP	i 28 48	PKKP	—
Pretoria	z.	133.9	283	e 19 14	[+ 4]	—	—	—	—	—
Kimberley	z.	138.2	283	i 19 10	[- 8]	—	—	—	—	—

Dec. 19d. 4h. 36m. 21s. Epicentre 28°-86N. 139°-48E. Depth of focus = 0.067R.

A = -0.6668, B = +0.5699, C = +0.4802; $\delta = 0$; $h = +2$;
D = +0.650, E = +0.760; G = -0.365, H = +0.312, K = -0.877.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	
Torisima		1.8	24	i 0 54	- 7	i 1 40	- 9	i 0 59	P
Hatidyozima		4.2	4	e 1 17	- 2	2 16	- 5	—	—
Osima	E.	5.9	359	e 1 34	- 1	e 2 43	- 6	—	—
Mera		6.0	3	1 35	- 1	e 2 44	- 8	—	—
Ajira		6.2	357	e 2 25	?	e 2 50	- 5	—	—
Misima		6.2	356	e 1 40	+ 2	2 52	- 4	—	—
Kameyama		6.5	338	e 1 43	+ 2	e 2 56	- 5	—	—
Yokohama		6.6	1	e 1 43	+ 1	i 2 58	- 4	—	—
Nagoya		6.6	342	e 1 43	+ 1	e 3 9	+ 6	—	—
Hunatu		6.6	355	e 1 48	+ 5	e 3 2	- 1	—	—
Tokusima		6.7	322	e 1 50	+ 6	e 3 5	+ 2	—	—
Kohu		6.8	354	e 1 43	- 1	e 3 3	- 3	—	—
Tokyo		6.8	2	e 1 44	0	2 59	- 7	—	—
Simidu		6.8	306	e 1 45	+ 1	e 3 6	- 1	—	—
Gihu		6.9	341	e 1 45	0	e 3 9	0	e 3 17	SS
Kyoto		6.9	334	e 1 46	+ 1	e 3 5	- 4	—	—
Tyosi	E.	6.9	9	—	—	e 2 44	-25	—	—
Hikone		7.0	338	e 1 48	+ 2	3 11	+ 2	—	—
Ibukisan	N.	7.0	339	e 1 50	+ 4	—	—	—	—
Titibu		7.1	357	e 1 51	+ 4	e 3 7	- 5	—	—
Takamatu		7.1	321	e 1 47	- 1	i 3 14	+ 1	—	—
Kunagaya		7.3	359	e 1 50	+ 1	e 3 10	- 5	—	—
Kakioka	E.	7.4	4	e 1 49	- 1	3 12	- 4	—	—
Matumoto	E.	7.5	351	1 50	- 1	3 18	- 1	—	—
Oiwake		7.5	354	e 1 51	- 1	—	—	—	—

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	
		°	°	m. s.	s.	m. s.	s.	m.	s.
Maebasi		7.5	358	e 1 49	- 3	e 3 16	- 4	—	—
Mito		7.5	6	e 1 57	+ 5	e 3 16	- 5	—	—
Matuyama	N.	7.6	312	e 1 53	0	e 3 25	+ 3	e 3	2 ?
Miyazaki		7.6	296	1 54	+ 1	3 29	+ 7	—	—
Hukui		7.7	340	—	—	e 3 20	- 3	—	—
Utunomiya	E.	7.7	2	e 1 52	- 2	e 3 16	- 7	—	—
Toyooka		7.7	330	e 1 54	0	e 3 24	0	—	—
Matusiro		7.7	352	i 1 51 _a	- 3	3 22	- 3	e 3	9 ?
Nagano	N.	7.9	352	e 1 53	- 3	e 3 25	- 2	—	—
Yakusima		8.0	284	e 1 58	+ 1	e 3 31	+ 2	—	—
Ooita		8.0	305	i 1 58	+ 1	e 3 31	+ 1	2 31	?
Toyama		8.0	347	e 2 6	+ 8	—	—	—	—
Hirosima		8.1	314	e 1 58 _k	- 1	e 3 34	+ 2	—	—
Onahama		8.2	8	e 1 57	- 2	i 3 26	- 7	—	—
Kagosima		8.2	291	e 1 59	0	e 3 37	+ 4	—	—
Shirakawa		8.3	4	e 1 57	- 3	3 28	- 7	—	—
Asosan		8.3	301	2 2	+ 2	3 42	+ 7	—	—
Kumamoto		8.5	300	2 2	- 1	3 42	+ 2	—	—
Hukushima		8.9	5	e 2 4	- 3	3 42	- 5	—	—
Saga		9.0	301	i 2 10	+ 2	i 4 9	+20	—	—
Hukuoka	N.	9.1	304	e 2 10	+ 1	—	—	—	—
Nagasaki		9.1	297	e 2 9	0	e 3 55	+ 3	—	—
Aikawa		9.2	354	—	—	e 3 49	- 4	—	—
Sendai		9.5	7	i 2 8	- 5	e 3 55	- 3	—	—
Isinomaki		9.7	9	—	—	e 3 56	- 7	—	—
Mizusawa		10.3	7	2 21	- 2	4 14	- 2	—	—
Akita		10.8	2	—	—	e 4 28	+ 2	—	—
Morijoka		10.9	7	e 2 27	- 2	i 4 26	- 1	—	—
Urakawa		13.5	10	e 2 58	+ 1	e 5 18	- 1	—	—
Sapporo	N.	14.3	6	e 3 4	0	—	—	—	—
Kusiro		14.6	14	—	—	e 5 57	+17	—	—
Zô-Sè		16.0	282	3 19 _k	- 3	6 6	0	—	—
Nanking		18.1	285	3 41 _k	- 2	e 6 49	+ 6	—	—
Changchun		18.8	327	e 3 50	0	e 7 3	+ 8	—	—
Peking		22.2	306	4 19 _k	- 3	e 7 52	0	—	—
Hong Kong	z.	23.7	260	i 4 36 _a	0	—	—	—	—
Tatung		24.2	304	e 4 43	+ 2	—	—	—	—
Sian		26.5	290	e 5 2	+ 1	—	—	—	—
Irkutsk		35.0	322	6 13	0	11 13	0	—	—
Shillong	z.	42.2	277	i 7 12 _k	- 1	—	—	—	—
Semipalatinsk		49.0	313	8 3	- 2	—	—	—	—
Namangan		55.6	302	8 52	- 1	16 5	+ 2	—	—
College		56.9	29	i 9 0	- 2	i 11 12	PP	i 9	53 PcP
Poona	z.	60.3	276	9 23	- 2	—	—	—	—
Sverdlovsk		60.4	322	9 24	- 1	17 4	0	—	—
Quetta	z.	62.1	291	i 9 35 _a	- 2	—	—	—	—
Resolute		70.9	13	i 10 30 _k	- 1	—	—	—	—
Sodankyla		71.9	338	i 10 37	0	—	—	i 11	3 PcP
Moscow		72.9	325	e 10 41	- 2	19 31	0	—	—
Victoria		73.3	44	i 10 46 _k	+ 1	—	—	—	—
Kiruna		73.6	340	i 10 46	- 1	—	—	—	—
Corvallis		75.1	47	i 10 57	+ 2	—	—	—	—
Banff		76.7	39	e 11 3	- 1	—	—	—	—
Shasta		77.4	50	i 11 9 _k	+ 1	—	—	i 12	48 pP
Mineral		78.1	50	i 11 12 _k	0	—	—	—	—
Berkeley		78.8	53	i 11 16 _k	+ 1	—	—	—	—
Skalstugan		78.9	339	e 11 16	0	—	—	—	—
Hungry Horse		79.0	41	i 11 17	+ 1	e 20 38	+ 2	e 13	43 sP
Lick		79.5	53	i 11 20 _a	+ 1	—	—	i 12	22 ?
Upsala		79.6	334	i 11 18 _k	- 1	—	—	—	—

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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1956

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.
Reno		79.7	51	i 11 21k	+ 1	—	—	—
Simferopol		80.0	316	i 11 23	+ 1	20 49	+ 2	—
Scoresby Sund	z.	80.0	354	i 11 21	- 1	—	—	—
Butte	N.	81.0	42	e 11 27	0	—	—	e 13 6
Fresno		81.1	53	e 11 27	0	—	—	pP
King Ranch	z.	81.8	54	i 11 32k	+ 1	—	—	e 13 10
Tinemaha	z.	82.0	52	i 11 33k	+ 1	—	—	pP
Eureka		82.3	49	i 11 34	0	—	—	i 13 10
China Lake	z.	83.1	53	i 11 39	+ 2	—	—	pP
Pasadena		83.5	55	i 11 41k	+ 1	—	—	i 13 23
Riverside	z.	84.2	54	i 11 42k	- 1	—	—	—
Salt Lake City		84.3	46	e 11 44	+ 1	—	—	e 13 20
Palomar	z.	84.9	55	i 11 47k	+ 1	—	—	pP
Boulder City		84.9	52	i 11 47	+ 1	—	—	i 15 10
Barratt	z.	85.4	55	i 11 50k	+ 1	—	—	e 13 41
Hayfield	N.	85.6	54	i 11 51	+ 1	—	—	—
Rapid City	E.	87.6	40	i 12 0	+ 1	—	—	—
Jena	z.	88.2	330	e 12 1	- 1	—	—	—
Tucson		89.7	53	i 12 11	+ 2	—	—	i 15 49
Stuttgart	z.	90.9	330	e 12 13	- 1	—	—	PP
Ebingen	z.	91.4	329	e 12 16	- 1	—	—	—
Paris		93.6	333	e 12 27	0	—	—	—
Tamanrasset	z.	112.2	314	e 17 45	[+ 3]	—	—	e 18 35
Huancayo	z.	143.5	70	i 18 42	[0]	e 21 40	SKP	PP

Dec. 20d. 10h. 59m. 57s. Epicentre 26°-92S. 175°-94W.

A = -0.8906, B = -0.0633, C = -0.4504; $\delta = +4$; $h = +3$;
D = -0.071, E = +0.998; G = +0.449, H = +0.032, K = -0.893.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Suva	N.	10.2	328	e 2 30	0	i 4 13	-13	i 2 51	PPP	5.9
Onerahi	E.	12.1	221	e 2 55	- 2	e 5 40	+26	e 3 12	PPP	e 5.8
Auckland	N.	12.6	216	e 3 25?	+21	e 5 39?	+12	e 3 44?	PP	6.3
Karapiro	N.	13.1	211	e 3 18	+ 8	e 5 31	- 7	—	—	—
Apia		13.6	17	e 3 10	- 7	e 5 35	-15	e 3 26	PP	e 6.0
Tongariro		14.2	208	e 3 19	- 5	e 5 51	-12	—	—	—
New Plymouth	E.	14.7	212	—	—	e 6 37	+21	—	—	—
Wellington		16.2	206	i 3 49	- 2	6 32	-20	—	—	—
Nouméa		16.7	282	i 3 59	+ 2	i 7 20	+18	i 4 19	PPP	i 8.5
Cobb River	E.	16.9	211	e 4 8	+ 8	e 6 46	-22	e 4 17	PP	—
Kaimata	N.E.	18.7	210	e 4 20	- 2	e 7 35	-13	—	—	—
Christchurch		19.0	206	6 3?	?	e 8 11	+16	—	—	9.0
Gebbies Pass		19.1	206	e 4 21	- 6	7 41	-17	e 7 35	S	—
Brisbane		27.6	262	i 5 47	- 4	e 10 15	-17	—	—	—
Riverview		29.1	248	e 6 17	+12	—	—	i 7 5	PPP	e 12.2
Melbourne		34.5	242	i 6 50	- 2	—	—	i 8 13	PP	19.0
Perth		58.8	247	e 10 0	- 2	e 17 45	-22	i 24 56	SSS	—
Matusiro		76.5	324	i 11 52	- 2	21 45	+ 6	26 55	SS	36.3
King Ranch	z.	81.6	43	e 12 22	+ 1	—	—	—	—	—
Lick		81.8	41	e 12 23k	+ 1	—	—	—	—	—
Pasadena		81.8	45	i 12 23	+ 1	i 22 47	+12	—	—	e 37.4
Berkeley		81.8	40	e 12 24	+ 2	—	—	—	—	—
Barratt	z.	81.8	47	i 12 22	0	—	—	—	—	—
Palomar	z.	82.1	46	i 12 24	0	—	—	—	—	—
Riverside	z.	82.2	46	i 12 24	0	—	—	—	—	—
Woody	z.	82.3	44	i 12 25	0	—	—	—	—	—
Fresno		82.5	42	i 12 27 _a	+ 1	—	—	—	—	—
Hayfield	N.	83.1	47	e 12 34	+ 5	—	—	—	—	—
China Lake	z.	83.2	44	i 12 30	0	—	—	—	—	—
Zô-Sé		83.2	310	e 12 30	0	22 51	+ 1	—	—	—

Continued on next page.

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1956

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		Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Hong Kong		83.4	299	—	—	e 23 3?	+11	—	—
Tinemaha	z.	83.6	43	e 12 33	+ 1	—	—	—	—
Shasta		83.6	38	e 12 32	0	—	—	—	—
Mineral		83.8	39	e 12 32 ^k	- 1	—	—	—	—
Reno		84.3	40	e 12 36	+ 1	—	—	—	—
Boulder City		85.0	45	i 12 41	+ 3	—	—	i 13 10	? —
Nanking		85.4	309	e 12 41	0	23 20	+ 8	—	—
Tucson		85.4	50	i 12 43	+ 2	i 23 25	+13	e 20 17	? e 38.5
Eureka		86.5	42	i 12 46	0	—	—	i 13 20	? —
Santa Lucia	z.	87.1	126	e 12 48	- 1	—	—	—	—
Tacubaya		87.4	67	e 12 50	- 1	—	—	e 13 17	? —
Victoria		88.6	32	e 12 59	+ 3	—	—	—	—
Horseshoe Bay		89.2	31	e 12 59	0	—	—	—	—
Salt Lake City		89.8	43	e 13 2	0	—	—	—	e 47.5
Peking		91.8	315	e 13 14	+ 3	24 17	+ 7	—	—
Lubbock		92.5	54	e 13 3	-11	—	—	—	—
Butte	N.	92.5	39	e 13 15	0	—	—	i 13 51	? —
Hungry Horse		93.2	36	e 13 17	0	—	—	e 15 46	? —
Huancayo	z.	93.9	106	e 13 18	- 3	—	—	e 17 9	PP —
College		94.1	12	i 13 19	- 3	—	—	e 16 48	PP —
Rapid City		97.0	44	e 13 36	+ 1	—	—	—	—
La Paz		97.8	113	13 35	- 3	26 29	PS	17 39	PP 45.6
Chinchina		101.4	90	—	—	i 24 37	[+ 3]	—	59.0
Bogota		102.6	91	—	—	i 24 44	[+ 4]	—	59.0
Colombo	E.	105.7	270	—	—	24 28	[-26]	34 59	? e 55.6
Resolute		113.4	17	e 18 46	[+ 6]	e 29 15	PS	—	— e 69.6
Bombay		116.8	279	e 31 25	PPS	e 25 51	[+12]	e 27 4	SKKS —
Qnetta		125.3	289	e 19 3	[0]	e 27 51	{+ 2}	e 21 0	PP —
Kiruna		137.9	351	e 19 21	[- 6]	—	—	—	—
Astrida		141.6	224	e 19 36	[+ 2]	—	—	—	e 72.0
Moscow		142.4	330	e 19 37	[+ 2]	—	—	—	—
Lwiro		142.4	223	e 19 37	[+ 2]	—	—	e 21 33	? —
Skalstugan		143.0	354	i 19 39	[+ 3]	—	—	—	—
Tiflis		143.6	306	e 19 36	[- 1]	—	—	—	—
Upsala		145.8	348	i 19 41 ^a	[0]	—	—	—	—
Simferopol		150.0	317	i 19 51	[+ 4]	—	—	—	—
Copenhagen	z.	150.6	350	i 19 57	[+ 9]	—	—	—	—
Ksara		151.8	292	e 19 57	[+ 7]	i 23 35	PKS	i 23 49	PP —
Kishinev		152.0	324	e 20 2	[+12]	—	—	—	—
Safed		152.2	290	i 20 1	[+10]	—	—	i 20 14	PKP ₂ —
Hamburg	z.	153.0	352	i 20 12	PKP ₂	—	—	—	—
Witteveen	z.	154.1	356	e 20 3?	[+10]	—	—	—	—
Kew		155.3	7	e 20 27	PKP ₂	—	—	—	e 85.0
Jena	z.	155.4	349	e 19 54	[- 1]	—	—	24 36	PP —
Prague	N.	155.6	344	e 20 14	PKP ₂	—	—	i 21 5	? —
Bratislava		156.5	338	i 19 56	[- 1]	—	—	i 20 17	PKP ₂ —
M'Bour		156.7	118	—	—	e 27 24	[+22]	—	79.0
Stuttgart	z.	157.8	351	e 19 58	[0]	e 25 33	PP	20 24	PKP ₂ —
Paris		158.1	3	e 20 1	[+ 2]	—	—	e 20 21	PKP ₂ e 85.0
Strasbourg		158.2	353	e 20 10	[+11]	—	—	e 20 28	PKP ₂ e 79.0
Ebingen	z.	158.4	351	e 20 3	[+ 4]	—	—	—	—
Besançon		159.6	356	e 20 48	PKP ₂	—	—	i 21 4	? —
Rome		163.5	337	e 20 54	[+49]	e 31 19	{-11}	e 24 51	PP —
Messina		165.2	322	e 21 22	[+76]	e 23 56	PKS	e 38 36	PPS 81.3
Malaga		167.9	34	i 20 14 ^a	[+ 6]	i 24 56	PP	21 16	PKP ₂ 76.6
Granada		167.9	30	i 20 26 ^a	[+18]	27 36	[+25]	i 25 14	PP 89.6
Algiers Univ.	z.	170.2	5	e 20 10	[+ 1]	e 31 43	{-21}	e 21 26	PKP ₂ —
Relizane		170.7	18	21 36	PKP ₂	e 26 57	[-15]	22 29	? —
Tamanrasset	z.	175.7	198	e 20 14	[+ 2]	e 25 48	PP	e 28 54	PcP,P' —

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1956

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Dec. 21d. 3h. 27m. 40s. Epicentre 26°·58N. 96°·26E.

A = -0·0976, B = +0·8902, C = +0·4451; $\delta = +10$; $h = +3$;
D = +0·994, E = +0·109; G = -0·048, H = +0·442, K = -0·896.

		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Shillong		4·1	257	e 1	5k	0	1	56	+ 1	1	21	Pr	—
Chatra	z.	8·1	274	i 2	2	0	i 3	50	+14	—	—	—	—
Wuwei		12·5	24	e 3	7	+ 5	—	—	—	—	—	—	e 6·8
Shenchow		14·4	52	e 3	45	+17	—	—	—	—	—	—	—
Yinchuan		14·5	33	—	—	—	e 6	52	SSS	—	—	—	e 7·7
Linfen		16·1	50	e 3	55	+ 6	e 7	9	+20	—	—	—	—
Hong Kong		16·9	101	—	—	—	e 7	26	+20	—	—	—	—
New Delhi	N.	17·0	281	e 6	6	?	i 6	55	-15	e 7	25	SS	i 9·0
Hyderabad	E.	18·8	245	e 4	27	+ 3	7	57	+ 6	—	—	—	—
Madras	E.	20·2	231	i 4	41k	+ 1	e 8	28	+ 6	5	1	PP	e 11·9
Nanking		20·4	69	e 4	38	- 3	e 8	36	+11	—	—	—	—
Peking		21·3	46	e 4	50	- 1	8	52	+ 9	—	—	—	—
Poona		22·2	253	i 5	0	+ 1	e 9	7	+ 8	5	43	PPP	10·7
Zô-Sè		22·3	72	e 4	58	- 2	9	2	+ 1	—	—	—	—
Bombay		22·9	255	e 5	8	+ 2	e 9	19	+ 6	e 5	25	PP	e 12·3
Frunse		24·0	318	5	19	+ 2	—	—	—	—	—	—	—
Namangan		24·9	312	5	26	0	—	—	—	—	—	—	—
Quetta		26·0	285	e 5	37	+ 1	i 10	7	+ 1	i 6	26	PP	—
Semipalatinsk		26·8	337	5	43	0	—	—	—	—	—	—	—
Matusiro	z.	36·9	64	7	10	- 2	—	—	—	—	—	—	—
Sverdlovsk		39·5	330	7	35	+ 1	13	37	0	—	—	—	—
Moscow		50·9	322	9	4	- 1	—	—	—	—	—	—	—
Simferopol		52·4	308	e 9	15	- 1	—	—	—	—	—	—	—
Safed		52·5	292	i 9	18	+ 1	—	—	—	—	—	—	—
Jerusalem		53·0	291	i 9	21	+ 1	—	—	—	—	—	—	—
Sodankyla		57·9	335	i 9	55	- 1	—	—	—	—	—	—	—
Kiruna		60·3	335	i 10	12 _a	- 1	—	—	—	—	—	—	—
Upsala		61·8	326	i 10	21 _a	- 2	—	—	—	—	—	—	—
Bratislava		63·7	313	i 10	32	- 3	—	—	—	i 12	41	PP	—
Skalstugan		63·9	330	i 10	35	- 2	—	—	—	—	—	—	—
Prague	N.	65·0	315	i 10	43	- 1	—	—	—	i 11	24	PcP	—
Tananarive	z.	65·4	232	e 10	47 _a	0	—	—	—	—	—	—	—
Jena	z.	66·6	317	e 10	51	- 3	—	—	—	e 11	14	PcP	—
Stuttgart	z.	68·6	315	i 11	6 _a	- 1	—	—	—	e 11	38	PcP	—
Ebingen	z.	69·0	314	e 11	8	- 1	—	—	—	—	—	—	—
Witteveen	z.	69·0	320	e 11	10	0	—	—	—	—	—	—	—
Strasbourg		69·6	315	e 10	52	-21	—	—	—	e 11	17	P	36·8
Basle		70·0	314	e 11	20	+ 4	—	—	—	e 19	44	?	—
Astrida		70·4	257	e 11	17	- 1	—	—	—	—	—	—	—
Lwiro		71·0	258	e 11	21	0	—	—	—	—	—	—	—
Paris		72·8	316	e 11	31	- 1	—	—	—	e 11	43	PcP	—
Clermont-Ferrand		73·5	313	e 12	27	+51	—	—	—	e 12	44	?	—
College		76·4	23	i 11	52	- 1	—	—	—	—	—	—	—
Algiers Univ.	z.	77·0	305	e 11	55	- 1	—	—	—	—	—	—	—
Resolute		78·7	3	e 12	5	- 1	—	—	—	—	—	—	—
Relizane		79·3	304	e 13	18	+69	—	—	—	—	—	—	—
Tamanrasset	z.	80·8	291	e 12	14	- 3	—	—	—	e 15	18	PP	—
Pretoria	z.	83·7	237	e 11	35	-57	—	—	—	—	—	—	—
Hungry Horse		100·6	20	e 13	56	+ 5	—	—	—	—	—	—	—
Eureka		107·7	26	e 18	52	PP	—	—	—	—	—	—	—

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1956

633

Dec. 21d. 8h. 58m. 57s. Epicentre 51°30N. 130°63W.

A = -0.4088, B = -0.4764, C = +0.7784; $\delta = -2$; $h = -6$;
D = -0.759, E = +0.651; G = -0.507, H = -0.591, K = -0.628.

	Δ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.	
			m.	s.		m.	s.		m.	s.		
Alberni	4.3	116	i 1	3	- 3	i 2	10	+ 1*	i 1	8	P	—
Horseshoe Bay	5.1	109	i 1	14	- 4	i 2	17	0	—	—	—	—
Victoria	5.4	118	e 1	21	- 2	i 2	29	+ 3	e 1	27	PP	—
Sitka	6.4	336	i 1	29k	- 7	i 2	37	-13	i 1	45	PP	i 3.0
Seattle	6.6	121	i 1	39	+ 1	—	—	—	e 2	18	?	3.4
Corvallis	8.3	141	e 2	3a	0	i 3	56	+18	—	—	—	14.9
Banff	9.5	85	i 2	18a	- 1	i 5	35	+88	—	—	—	—
Hungry Horse	11.1	99	e 2	39a	- 3	e 4	45	- 2	(4 4	59)	SS	i 5.0
Arcata	E. 11.4	154	e 2	43	- 2	e 5	5	+12	—	—	—	—
Shasta	12.0	148	i 2	55a	+ 1	—	—	—	—	—	—	e 6.0
Mineral	12.6	147	i 3	3a	+ 1	—	—	—	i 3	9	PP	—
Butte	N. 13.0	107	e 3	4a	- 4	e 5	49	+15	—	—	—	e 6.5
Ukiah	13.2	154	i 3	11a	+ 1	e 5	44	+ 6	i 5	54	SS	e 7.2
Reno	14.0	143	i 3	21a	+ 1	i 6	40	SSS	—	—	—	e 8.0
Bozeman	14.1	106	i 3	20	- 2	i 6	8	+ 8	—	—	—	i 7.1
Berkeley	14.7	153	e 3	29	0	e 6	21	+ 8	—	—	—	—
Santa Clara	15.2	153	i 3	37k	0	i 6	41	+15	—	—	—	e 8.2
Lick	15.4	152	i 3	37a	- 1	—	—	—	—	—	—	—
Eureka	15.6	133	i 3	39a	- 3	—	—	—	—	—	—	—
College	16.3	333	i 3	49k	- 1	i 6	46	- 4	i 8	45	PcP	i 7.9
Fresno	16.5	148	i 3	52a	0	—	—	—	—	—	—	—
Salt Lake City	16.7	122	i 3	55k	0	i 7	8	+ 8	i 4	18	PPP	i 8.7
Tinemaha	16.8	143	i 4	11a	+15	i 7	37	SSS	i 9	1	?	—
Woody	Z. 17.7	147	i 4	8a	0	i 7	38	+14	i 4	35	PPP	—
King Ranch	Z. 17.8	150	i 4	9a	0	i 8	33	+68	6	26	?	—
China Lake	Z. 18.1	144	i 4	14a	+ 2	—	—	—	—	—	—	—
Boulder City	19.0	137	i 4	24a	0	e 8	16	SS	—	—	—	i 9.1
Pasadena	19.4	147	i 4	29a	+ 1	i 8	13	+13	—	—	—	e 9.1
Rapid City	E. 19.8	101	i 4	31k	- 1	e 8	16	+ 8	i 8	21	SS	i 10.2
Riverside	Z. 19.8	146	i 4	31a	- 2	e 8	22	+12	i 5	10	PPP	—
Palomar	Z. 20.6	145	i 4	40a	- 1	—	—	—	—	—	—	—
Hayfield	N. 20.7	142	i 4	41a	- 1	6	57	?	i 9	3	PcP	—
Barratt	21.2	146	i 4	47a	- 1	i 8	22	-16	i 6	39	?	—
Tucson	24.0	135	i 5	16a	+ 1	i 9	40	+12	e 7	47	?	e 10.0
Lubbock	27.4	119	i 5	48	+ 1	e 10	31	+ 6	e 6	36	PP	i 14.9
Resolute	27.6	20	i 5	46k	- 3	i 10	49	+20	e 7	39	?	e 14.3
Chihuahua	29.2	132	e 6	3	0	e 10	59	+ 5	e 11	29	?	e 15.2
Fayetteville	30.1	106	i 6	9a	- 2	e 11	8	+ 1	—	—	—	—
Florissant	30.7	98	6	16a	0	11	22	+ 5	7	22	PP	16.1
Chicago	30.7	91	i 6	12	- 4	i 11	20	+ 3	—	—	—	i 15.3
St. Louis	30.9	98	e 6	18k	0	e 11	24	+ 4	7	19	PP	i 16.3
Kirkland Lake	32.3	75	e 6	28a	- 3	—	—	—	—	—	—	—
Cincinnati	34.1	92	i 6	46	0	i 12	6	- 5	—	—	—	—
Cleveland	34.7	87	i 6	50	- 1	—	—	—	—	—	—	i 18.4
Ottawa	36.2	77	i 7	3	- 1	12	43	0	17	34	ScS	18.7
Pittsburgh	Z. 36.2	87	e 7	7	+ 3	—	—	—	—	—	—	—
Honolulu	36.8	226	e 7	15	+ 6	i 13	11	+19	(i 15	23)	SS	i 15.4
Guadalajara	37.3	135	e 7	15	+ 2	e 13	19	+19	e 7	35	?	e 20.5
Pennsylvania	37.3	85	i 7	13	- 1	e 12	55	- 5	e 8	33	PP	—
Shawinigan Falls	37.5	74	e 7	32a?	+17	13	40?	PS	16	25?	SSS	—
Brébeuf	37.5	76	e 7	21a	+ 6	13	15	+13	—	—	—	19.7
Manzanillo	38.3	137	e 7	23	+ 1	e 13	41	+26	16	23	SS	e 21.1
Washington	39.0	87	i 7	24a	- 3	e 13	46	+21	i 8	57	PP	e 17.3
Philadelphia	39.5	84	e 7	30	- 2	i 13	36	+ 3	i 9	9	PP	e 16.3
Columbia	39.5	96	i 7	29a	- 3	i 13	30	- 4	i 9	1	PP	i 16.6
Palisades	39.7	82	i 7	31a	- 2	i 13	37	+ 1	i 9	5	PP	i 20.3
Fordham	39.8	82	e 7	27	- 7	e 13	37	- 1	i 16	18	SS	—
Tacubaya	40.3	130	i 7	43k	+ 5	e 13	45	0	e 9	12	PP	e 22.4
Weston	40.5	79	i 7	40k	0	e 13	51	+ 3	9	17	PP	21.1
Petropavlovsk	41.7	301	e 7	35	-15	—	—	—	e 9	32	PP	—

Continued on next page.

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	Δ	Az.	P.		O - C.	S.		O - C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Vera Cruz	42.0	127	e 7	53	+ 1	14	11	+ 1	e 17	3	SS	i 22.3
Magadan	42.8	313	e 7	57	- 2	e 14	33	+10	e 9	43	PP	—
Oaxaca	43.5	129	e 8	5	0	e 14	49	+16	—	—	—	e 24.3
Halifax	44.0	71	e 8	11k	+ 3	i 14	43	+ 4	e 9	41	PP	e 22.9
Tiksi	45.4	334	e 10	9	PP	e 14	55	- 5	e 10	57	PPP	—
Scoresby Sund	48.3	25	e 8	45	+ 3	e 18	47	ScS	—	—	—	24.0
Bermuda	50.8	85	i 8	58	- 4	e 16	18	+ 2	i 11	2	PP	e 24.2
Yuzno-Sakhlinsk	53.7	302	e 9	10	-13	e 16	56	+ 1	—	—	—	—
Kiruna	59.2	12	i 10	1	- 2	i 18	15	+ 6	i 19	47	ScS	—
Balboa Heights	59.3	117	i 10	2	- 2	—	—	—	i 13	41	PPP	—
San Juan	60.0	98	e 10	7k	- 1	i 18	19	+ 1	i 12	51	PP	i 24.6
Sodankyla	60.4	10	i 10	8	- 3	i 18	29	+ 5	i 10	46	PcP	—
Apatity	60.9	7	i 10	13a	- 1	i 18	32	+ 2	i 10	57	PcP	34.3
Skalstugan	61.8	18	i 10	18	- 3	—	—	—	—	—	—	—
Vladivostok	61.9	305	e 10	16	- 5	e 18	48	+ 5	—	—	—	—
Matusiro	63.2	296	10	28k	- 2	e 19	8	+ 9	e 14	15	PPP	—
Aberdeen	63.9	28	i 10	31	- 4	i 19	30	PS	i 20	8	ScS	i 32.0
Edinburgh	64.6	30	e 11	13	PcP	19	18	+ 1	e 20	25	SKS	—
Changchun	64.7	309	i 10	38k	- 2	e 19	20	+ 2	—	—	—	—
Chinchina	64.8	116	i 10	38	- 2	i 19	26	+ 7	—	—	—	31.0
Rathfarnham Castle	65.8	33	e 10	59	+12	e 19	59	PS	e 24	23	SS	e 32.2
Fort-de-France	65.8	97	—	—	—	e 19	37	+ 5	—	—	—	e 29.6
Bogota	66.0	114	i 10	46	- 2	i 19	42	+ 9	—	—	—	31.0
Durham	66.1	30	10	49	0	19	31	- 4	13	16	PP	—
Upsala	66.3	17	i 10	47a	- 3	i 19	36	- 1	e 23	46	SS	—
Irkutsk	66.9	327	e 10	52	- 2	19	46	+ 2	24	2	SS	—
Helsinki	67.2	13	e 10	49	- 6	i 19	56	+ 8	e 13	21	PP	—
Copenhagen	69.1	21	i 11	10	+ 3	e 20	15	+ 4	e 13	36	PP	33.0
Kew	69.3	31	e 11	11	+ 2	i 28	23	?	i 11	38	PcP	e 32.0
Witteveen	70.2	26	e 11	14	0	—	—	—	—	—	—	—
Hamburg	70.4	24	i 11	19k	+ 4	e 21	3?	PS	—	—	—	e 36.0
De Bilt	70.4	27	i 11	19	+ 3	e 20	43	+16	—	—	—	—
Sverdlovsk	71.8	354	11	23	- 1	20	52	+ 9	21	32	ScS	—
Peking	72.0	312	e 11	24	- 1	e 20	49	+ 4	—	—	—	—
Paris	72.5	30	i 11	29	+ 1	e 20	51	0	e 14	13	PP	e 34.0
Moscow	72.9	7	11	28	- 2	20	58	+ 3	14	14	PP	—
Jena	73.2	24	e 11	30	- 2	e 21	5	+ 6	e 14	6	PP	e 37.0
Warsaw	74.1	18	e 11	39	+ 2	e 21	15	+ 7	e 14	30	PP	e 36.0
Karlsruhe	74.1	27	e 11	40k	+ 3	e 21	19	+10	e 11	49	PcP	—
Cheb	74.2	24	e 11	45	+ 7	i 21	13	+ 3	e 14	28	PP	37.0
Strasbourg	74.3	27	e 11	40	+ 1	e 21	17	+ 6	e 26	4	SS	e 36.0
Stuttgart	74.6	26	e 11	39	- 1	e 21	20	+ 6	e 14	8	PP	e 37.0
Prague	74.7	22	i 11	41a	0	i 21	24	+ 9	i 14	32	PP	35.0
Tubingen	74.7	26	e 11	43	+ 2	—	—	—	—	—	—	—
Besançon	75.0	29	e 11	44	+ 2	—	—	—	e 14	32	PP	—
Ebingen	75.0	27	e 11	41	- 2	—	—	—	e 11	45	PcP	—
Basle	75.2	28	e 11	45	+ 1	e 22	4	PS	—	—	—	—
Semipalatinsk	75.3	340	e 11	43	- 1	i 21	25	+ 3	e 14	31	PP	—
Clermont-Ferrand	75.4	32	e 11	45	0	e 21	27	+ 4	—	—	—	—
Neuchatel	75.5	28	e 11	45	0	—	—	—	—	—	—	—
Raciborz	75.6	20	e 11	46	0	—	—	—	e 12	2	PcP	—
Zürich	75.6	27	e 11	37	- 9	—	—	—	—	—	—	—
Krakow	76.0	19	e 11	46	- 2	21	32	+ 3	—	—	—	e 43.0
Zô-Sè	76.6	303	i 11	45k	- 7	i 21	34	- 2	12	2	PcP	—
Lisbon	76.8	43	e 11	54a	+ 1	21	42	+ 4	i 12	2	PcP	38.8
Skalnate Pleso	76.8	19	e 12	1	+ 8	e 21	53	+14	12	5	PcP	—
Lwop	77.0	16	e 11	55	+ 1	i 22	16	PS	e 14	49	PP	—
Oropa	77.1	28	e 11	47	- 7	e 22	24	PS	e 16	46	PPP	37.0
Nanking	77.1	305	e 11	54	0	i 21	45	+ 4	e 14	48	PP	—
Bratislava	77.1	22	i 11	51	- 4	e 21	44	+ 2	i 14	50	PP	e 38.0

Continued on next page.

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	Δ	Az.	P.		O-C.	S.	O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	m.	s.	m.
Hurbanovo	77.6	21	e 12	3?	+ 6	e 21 51	+ 4	e 22 28	PS	e 38.0
Pavia	77.8	28	i 12	10k	+12	e 22 27	PS	e 26 58	SS	e 37.9
Toledo	77.9	39	e 11	58	- 1	e 21 54	+ 4	22 33	PS	36.8
Budapest	78.2	20	12	5	+ 4	22 22	PS	23 9	PPS	e 42.9
Monaco	78.6	30	e 12	5	+ 2	—	—	e 15 14	PP	—
Barcelona	78.9	34	—	—	—	—	—	36 23	PcP,P'	e 39.9
Bologna	79.0	27	e 12	25	+20	e 22 9	+ 7	e 17 29	PPP	e 36.4
Huancayo	79.2	125	e 12	6	0	e 22 13	+ 9	e 21 17	?	e 36.7
Prato	79.6	27	e 12	21	+13	i 22 46	PS	—	—	—
Florence	79.7	27	e 12	9a	0	i 22 17	+ 8	i 12 17	PcP	—
Iasi	80.1	15	12	16	+ 4	22 24	+ 6	—	—	—
Timisoara	80.3	20	e 12	12	0	e 23 12	PS	e 14 53	PP	e 44.0
Granada	80.4	40	i 12	14a	+ 1	i 22 21	+ 4	23 3	PS	i 33.8
Malaga	80.5	41	i 12	14k	+ 1	i 23 3	PS	e 15 59	PP	43.4
Alicante	80.6	38	12	12	- 2	22 20	+ 1	12 20	PcP	e 39.0
Belgrade	81.0	20	e 12	19a	+ 3	e 22 34	+11	e 15 51	PP	e 45.3
Almeria	81.2	40	i 12	24	+ 8	—	—	—	—	39.2
Rome	81.8	27	i 12	20k	0	i 22 41	+10	i 12 30	PcP	39.7
Cagliari	82.2	30	e 15	13	PP	—	—	e 25 43	?	e 42.9
Bucharest	82.6	17	12	34	+10	22 43	+ 4	15 39	PP	40.0
Simferopol	83.2	11	12	29a	+ 2	e 22 53	+ 8	e 15 52	PP	—
Relizane	83.3	38	e 12	30	+ 2	e 22 40	- 6	e 23 47	PPS	—
Algiers Univ.	z. 83.4	36	e 12	29	+ 1	e 22 49	+ 2	e 15 43	PP	—
Frunse	83.7	342	i 12	30	+ 1	i 22 54	+ 4	i 15 49	PP	—
Sofia	83.7	19	i 12	30	+ 1	—	—	—	—	46.3
Taranto	84.4	24	—	—	—	e 22 25	-32	—	—	46.0
Rabaul	z. 85.3	257	e 12	36	- 1	—	—	—	—	—
Tunis	85.8	31	e 12	44	+ 4	e 23 3	[+ 1]	e 23 22	S	—
Messina	86.1	26	e 12	41	0	e 23 17	+ 3	e 16 1	PP	42.0
Reggio Calabria	86.2	26	e 12	48	+ 6	—	—	—	—	—
La Paz	86.7	122	i 12	42	- 2	23 21	+ 2	16 11	PP	e 45.0
Tiflis	87.3	3	e 12	49	+ 2	i 23 30	+ 5	i 12 57	PcP	—
Hong Kong	87.4	303	13	4a	+16	23 24	- 2	e 29 21?	SS	—
Stalinabad	88.9	345	i 12	56	+ 1	i 23 46	+ 6	—	—	—
Goris	89.5	2	12	59	+ 1	i 23 52	+ 6	16 36	PP	—
Ashkabad	90.8	353	13	5	+ 1	23 43	{- 5}	—	—	—
Ksara	94.4	11	i 13	23	+ 2	e 24 37	+ 8	e 17 19	PP	46.0
Shillong	z. 94.8	322	e 13	22	0	—	—	—	—	—
Dehra Dun	94.9	335	e 13	14	- 9	i 23 56	[- 11]	24 36	PS	41.2
New Delhi	N. 96.8	336	e 13	36	+ 5	i 24 7	[0]	17 29	PP	—
Tamanrasset	z. 96.8	40	e 13	30	- 1	e 26 7	PS	e 17 27	PP	—
Quetta	97.4	345	e 13	35	+ 1	i 25 0	+ 4	e 17 36	PP	—
Bokaro	98.6	327	i 17	46	PP	i 24 20	[+ 4]	—	—	—
Hyderabad	E. 107.0	331	—	—	—	e 25 1	[+ 6]	—	—	—
Bombay	107.1	337	e 14	20	+ 2	25 14	[+18]	18 37	PP	—
Riverview	108.9	240	i 22	14	?	e 28 23	PS	e 33 56	SS	e 49.8
Madras	E. 110.6	328	e 19	13	PP	—	—	—	—	—
Kodaikanal	E. 114.1	330	e 19	32	PP	—	—	—	—	—
Lwiro	128.2	26	e 18	53	[-13]	—	—	e 21 13	PP	—
Astrida	128.7	26	e 19	13	[+ 6]	—	—	e 21 24	PP	—
Tananarive	z. 147.7	3	e 19	46	[+ 5]	e 34 33	PS	e 21 36	PP	—
Pretoria	z. 149.8	40	i 18	55	[-50]	—	—	—	—	—
Kimberley	z. 150.9	49	i 19	50a	[+ 4]	—	—	—	—	—

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Dec. 21d. 20h. 10m. 6s. Epicentre 33°·72N. 139°·55E.

A = -0·6343, B = +0·5407, C = +0·5526; $\delta = +6$; $h = +1$;
D = +0·649, E = +0·761; G = -0·420, H = +0·358, K = -0·834.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Hatidyozima		0·7	159	i 0 12 _a	- 3	0 22	- 4	—	—
Osima	N.	1·1	352	i 0 19 _k	- 2	i 0 34	- 1	—	—
Mera		1·2	11	i 0 21 _a	- 2	i 0 39	0	—	—
Ajiro		1·4	344	i 0 24 _k	- 1	e 0 41	- 2	—	—
Omaesaki		1·4	309	i 0 24	- 2	i 0 45	+ 1	i 0 28	P _g
Misima		1·5	341	i 0 25 _k	- 2	i 0 46	0	—	—
Shizuoka		1·6	323	i 0 27 _k	- 1	i 0 50	+ 2	—	—
Yokohama		1·7	3	i 0 30	0	i 0 52	0	—	—
Hunatu		1·9	340	i 0 32 _k	0	0 58	+ 2	—	—
Tokyo		2·0	5	i 0 34 _k	+ 1	e 0 57	- 1	1 0	S*
Kohu		2·1	337	i 0 34 _k	- 1	e 1 4	+ 3	—	—
Tyosi		2·3	28	i 0 35 _a	- 3	i 1 3	- 3	—	—
Iida		2·3	322	e 0 38 _k	0	e 1 13	- 1 _g	—	—
Kumagaya		2·4	357	e 0 40	0	1 19	+ 2 _g	—	—
Kakioka		2·6	12	0 41	- 1	1 12	- 1	—	—
Nagoya	E.	2·6	305	e 0 40	- 2	e 1 15	+ 1	—	—
Maebasi		2·7	352	i 0 45 _a	+ 1	e 1 21	+ 4	0 54	P _g
Tu		2·7	293	e 0 52	0 _g	1 20	+ 3	—	—
Oiwake		2·7	343	i 0 44	0	e 1 21	+ 3	i 0 49	P*
Kameyama		2·8	295	e 0 43	- 2	i 1 19	0	1 13	S
Owase		2·8	278	0 42	- 4	i 1 22	+ 2	i 1 12	?
Utunomiya		2·8	5	e 0 45	- 1	i 1 17	- 3	i 0 59	P _g
Matumoto		2·8	333	i 0 47	+ 1	i 1 28	- 2 _g	—	—
Gihu		2·8	307	e 0 44 _k	- 2	e 1 24	0*	—	—
Matusiro		3·0	339	i 0 49 _k	0	1 32	+ 2*	—	—
Takayama	E.	3·1	323	e 0 54	0*	e 1 34	+ 1*	—	—
Ibukisan	E.	3·1	303	e 0 46	- 4	e 1 30	+ 3	—	—
Hikone		3·1	300	0 48 _k	- 2	1 31	+ 3	—	—
Nagano	N.	3·1	340	e 0 56	+ 2*	e 1 38	- 1 _g	—	—
Siomisaki		3·2	266	e 0 43	- 8	i 1 19	- 10	—	—
Nara		3·2	288	e 1 1	- 1 _g	e 1 38	+ 2*	—	—
Torisima		3·3	169	e 0 52	- 1	i 1 47	+ 4 _g	i 1 2	P _g
Kyoto		3·4	293	e 0 53	- 1	e 1 32	- 3	e 1 28	?
Onahama		3·4	19	e 0 53	- 1	e 1 34	- 1	—	—
Shirakawa		3·4	9	0 53	- 2	1 30	- 6	—	—
Tsuruga	E.	3·4	305	0 59	0*	i 1 42	0*	—	—
Osaka		3·5	287	e 0 58	+ 3	e 1 34	- 2	i 1 48	S*
Takada		3·5	343	0 54	- 2	e 1 38	0	—	—
Toyama		3·5	328	e 1 4	+ 3*	1 54	+ 1 _g	—	—
Hukui		3·6	312	e 1 1	- 1*	e 1 48	0*	—	—
Kanazawa		3·7	320	e 1 13	+ 1 _g	e 1 56	+ 5*	—	—
Wakayama		3·7	279	e 1 8	- 4 _g	e 1 46	+ 4	—	—
Kobe		3·8	286	e 0 57	- 2	e 1 45	+ 1	e 1 38	?
Maizuru		3·8	298	e 0 59	0	i 1 49	+ 5	—	—
Sumoto		3·9	280	0 59	- 3	i 1 40	- 8	—	—
Hokusima		4·1	10	1 6	+ 2	1 58	+ 5	—	—
Tokusima		4·2	276	e 1 4	- 1	e 1 50	- 4	i 1 10	P*
Niigata		4·2	355	e 0 58	- 8	e 1 51	- 5	—	e 2·6
Wazima		4·2	330	e 1 17	+ 4*	e 2 21	+ 5 _g	—	—
Toyooka		4·3	296	e 1 4	- 3	e 1 54	- 4	e 1 28	P _g
Himeji		4·3	282	e 1 12	+ 5	—	—	i 1 45?	?
Aikawa		4·4	346	1 9	+ 1	2 1	0	—	—
Muroto		4·5	266	1 12	+ 2	e 2 1	- 2	—	—
Yamagata		4·6	8	e 1 13	+ 2	e 2 8	+ 4	—	—
Takamatu		4·6	279	e 1 7	- 4	e 2 1	- 4	—	—
Sendai		4·7	13	1 10	- 2	e 2 3	- 4	e 2 19	S*
Tottori		4·7	294	—	—	e 2 10	+ 3	—	—
Isinomaki		4·9	16	e 1 14	- 1	e 2 6	- 7	2 19	S
Koti		5·0	270	e 1 14	- 3	e 2 20	+ 4	e 2 5	S
Sakata		5·2	2	e 1 16	- 3	e 2 16	- 4	—	—

Continued on next page.

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		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		I.
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Yonago		5.4	290	e 1	20	- 2	2	22	- 3	—	—	—
Mizusawa		5.6	13	i 1	24	0	2	43	+14	—	—	—
Simidu		5.6	262	e 1	21	- 4	e 2	44	- 3*	—	—	—
Matsue		5.6	290	e 1	22	- 3	e 2	46	- 1*	—	—	—
Matuyama	E.	5.7	273	e 1	21	- 5	e 2	38	+ 6	e 2	54	S*
Saigo		5.7	298	—	—	—	2	41	+ 9	i 3	23	?
Hirosima		6.0	278	e 1	22	- 8	e 2	24	-15	—	—	—
Morioka		6.1	12	i 1	31 _a	- 1	e 2	41	- 2	—	—	—
Miyako		6.2	18	e 1	34	0	e 2	40	- 6	—	—	—
Hamada		6.3	283	e 1	35	0	e 2	49	+ 1	e 2	36	?
Ooita		6.6	268	e 1	41 _k	+ 1	e 2	43	-13	e 2	12	P _g
Hatinohe		7.0	12	e 1	42	- 3	e 2	56	- 9	—	—	—
Miyazaki		7.1	258	1	47	+ 1	3	10	+ 3	—	—	e 3.6
Asosan		7.2	266	e 1	49	+ 2	—	—	—	e 4	45	?
Aomori		7.2	8	—	—	—	e 3	18	+ 9	—	—	—
Simonoseki	N.	7.2	274	e 2	32	+10 _g	—	—	—	—	—	—
Kumamoto		7.5	266	1	45	- 6	—	—	—	2	18	P _g
Hukuoka	N.	7.6	272	e 1	56	+ 3	e 3	38	-10*	—	—	—
Saga		7.7	269	1	56	+ 1	i 3	54	+ 4*	—	—	—
Kagosima		7.9	257	e 2	1	+ 4	—	—	—	—	—	e 6.8
Hakodate		8.1	6	e 2	26	+ 7*	—	—	—	—	—	—
Nagasaki	E.	8.2	266	e 1	59	- 2	e 3	46	+12	—	—	—
Yakusima		8.3	249	e 2	6	+ 2	—	—	—	—	—	e 5.2
Mori	E.	8.4	5	e 2	21	- 4*	e 4	13	+ 3*	—	—	4.9
Ituhara	E.	8.6	276	—	—	—	e 4	11	- 5*	—	—	—
Urakawa		8.8	16	e 2	11	+ 1	e 3	44	- 6	—	—	e 4.3
Tomakomai		8.9	10	e 2	38	+ 4*	e 4	5	+12	—	—	—
Suttsu		9.1	3	e 3	13	?	e 4	6	+ 8	—	—	e 4.9
Tomie		9.1	266	e 2	12	- 2	e 4	16	+18	e 4	45	S _g
Sapporo		9.4	8	e 2	44	+ 1*	e 4	34	- 6*	e 4	46	S*
Obihiro	Z.	9.6	16	e 2	19	- 2	—	—	—	—	—	—
Kusiro		10.0	21	e 2	22	- 4	e 4	8	-12	—	—	e 5.2
Nemuro		10.7	24	e 2	42	+ 6	e 4	24	-13	—	—	—
Vladivostok		11.1	330	2	43	+ 1	4	56	+ 7	—	—	—
Wakkanai	E.	11.8	7	—	—	—	e 5	58	+ 9*	—	—	—
Changchun		15.0	316	3	35 _a	+ 2	6	31	+11	—	—	—
Zô-Sè		15.7	266	i 3	45 _a	+ 2	6	43	+ 5	—	—	—
Suihwa		16.0	327	e 3	49	+ 2	—	—	—	—	—	—
Nanking		17.5	270	e 4	10	+ 5	7	29	+11	4	26	PP
Peking		19.7	295	e 4	28	- 4	—	—	—	—	—	—
Hong Kong		25.1	250	e 5	32?	+ 7	e 10	0?	+13	—	—	—
Sian		25.4	280	e 5	25	- 3	9	57	+ 5	—	—	—
Manila		25.4	226	e 5	21	- 8	—	—	—	—	—	—
Rabaul	Z.	39.6	160	i 7	33	+ 1	—	—	—	i 7	41	?
Shillong	Z.	41.9	272	i 7	50	- 2	—	—	—	—	—	—
Semipalatinsk		45.8	310	8	23	- 2	15	12	+ 3	—	—	—
Frunse		50.7	301	8	59	- 2	16	23	+ 5	—	—	—
Dehra Dun		51.6	284	e 9	8	0	i 16	34	+ 7	19	46	SS
College		52.7	31	i 9	14	- 2	—	—	—	i 9	21	?
Namangan		53.2	299	9	22	+ 2	—	—	—	—	—	—
Sverdlovsk		56.7	320	9	44	- 1	—	—	—	—	—	—
Hyderabad	E.	56.7	269	—	—	—	e 17	38	+ 2	e 34	41	PKKS
Madras	E.	57.5	264	—	—	—	e 18	7	PS	—	—	—
Poona		60.0	273	e 10	7	- 2	e 18	23	+ 4	—	—	—
Quetta		60.5	288	e 10	9 _a	- 3	e 18	21	- 4	e 12	23	PP
Bombay		60.7	274	—	—	—	e 18	32	+ 4	—	—	—
Brisbane		62.2	166	i 10	28?	+ 5	—	—	—	—	—	—
Apatity		65.1	336	e 10	44	+ 2	e 19	35	+12	e 30	39	PKKP
Resolute		66.2	14	i 10	45 _a	- 4	e 19	42	+ 6	—	—	e 27.3
Sodankyla		67.4	337	i 10	54	- 3	—	—	—	i 11	22	PcP

Continued on next page.

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	Δ °	Az. °	P. m. s.		O-C. s.	S. m. s.	O-C. s.	Supp. m. s.		L. m.
Riverview	68.1	170	—		—	i 20 8	+ 9	—		e 31.0
Moscow	69.0	324	11 3		- 4	20 17	+ 3	—		—
Kiruna	69.1	339	i 11 5 ^a		- 2	—	—	i 13 40		PP
Melbourne	z. 71.4	175	e 11 5		-16	—	—	—		—
Tiflis	71.7	308	11 26		+ 3	—	—	—		—
Shasta	74.3	51	e 11 38		- 1	—	—	—		—
Skalstugan	74.4	338	i 11 43		+ 4	—	—	—		—
Mineral	75.0	51	i 11 43		0	—	—	—		—
Scoresby Sund	z. 75.2	354	e 11 43		- 1	—	—	i 11 50		PcP
Upsala	75.2	334	i 11 42		- 2	—	—	—		—
Hungry Horse	75.3	41	i 11 43		- 1	—	—	i 11 54		PcP
Berkeley	75.9	54	e 11 47		- 1	—	—	—		—
Lick	76.6	54	i 11 51		- 1	—	—	—		—
Reno	76.6	51	e 11 48		- 4	—	—	—		—
Butte	n. 77.4	43	e 11 56		0	—	—	—		—
Fresno	78.1	54	e 12 0		0	—	—	—		—
Kishinev	78.4	319	12 7		+ 5	—	—	—		—
Tinemaha	z. 79.0	53	e 12 13		+ 8	—	—	—		—
King Ranch	z. 79.0	55	e 12 12		+ 7	—	—	—		—
Eureka	79.1	50	i 12 4		- 2	—	—	i 12 15		PcP
Woody	z. 79.4	54	i 12 4		- 3	—	—	i 12 18		PcP
China Lake	z. 80.1	53	e 12 9		- 2	—	—	—		—
Copenhagen	80.2	333	i 12 10		- 1	—	—	i 12 17		PcP
Pasadena	80.7	55	i 12 18		+ 4	—	—	12 26		PcP
Salt Lake City	80.9	47	e 13 15		+60	—	—	—		e 36.9
Krakow	81.0	325	e 12 21		+ 5	—	—	—		e 44.9
Riverside	z. 81.3	55	e 12 19		+ 1	—	—	—		—
Ksara	81.8	305	e 12 29		+ 9	e 23 29	PS	e 15 38		PP
Boulder City	81.9	52	e 12 19		- 1	—	—	—		—
Barratt	z. 82.6	56	e 12 40		+16	—	—	—		—
Hamburg	82.7	332	i 12 30 ^a		+ 5	—	—	—		e 45.9
Jerusalem	83.5	304	i 12 35		+ 6	—	—	—		—
Prague	83.5	328	i 12 30 ^a		+ 1	—	—	i 16 6		PP
Bratislava	83.6	325	i 12 26		- 3	i 12 30	PcP	i 15 47		PP
Rapid City	83.8	40	i 12 29		- 1	—	—	e 12 36		PcP
Jena	z. 84.1	330	e 12 29		- 3	—	—	e 15 42		PP
Witteveen	z. 84.6	334	e 12 39		+ 5	—	—	—		—
Stuttgart	86.7	330	e 12 42		- 3	e 22 36	[+28]	e 12 46		PcP
Tucson	86.8	53	e 12 52		+ 7	—	—	e 13 18		?
Karlsruhe	z. 86.9	330	e 12 48		+ 3	—	—	—		—
Ebingen	z. 87.3	329	e 12 47		0	—	—	—		—
Strasbourg	87.5	330	e 12 51		+ 3	—	—	e 13 12		PcP
Besançon	89.2	330	e 13 1		+ 4	—	—	e 13 10		PcP
Paris	89.4	333	e 12 54		- 3	—	—	e 13 4		PcP
Florence	89.6	325	i 13 2 ^k		+ 3	e 23 44	- 3	e 24 33		PS
Rome	90.4	323	e 19 33		?	e 30 1	SS	—		—
Messina	e. 91.5	319	—		—	e 23 52	{+ 4}	—		—
Lubbock	91.6	47	e 13 7		- 1	—	—	—		—
Ottawa	95.0	24	e 13 25		+ 2	—	—	—		—
Algiers Univ.	z. 99.0	326	e 16 32		?	—	—	e 17 46		PP
Palisades	99.5	25	—		—	e 24 24	[+ 3]	e 32 24		SS
Granada	101.6	331	i 14 0 ^k		+ 7	25 24	- 5	18 6		PP
Tamanrasset	z. 108.8	316	e 18 11		[-17]	e 28 18	PS	e 18 50		PP
M'Bour	127.2	331	i 20 7		[+63]	—	—	i 21 10		PP
Huancayo	z. 141.6	64	e 19 26		[- 5]	—	—	—		—
La Paz	z. 149.8	62	i 19 52 ^k		[+ 7]	—	—	23 30		PP
Santa Lucia	154.8	98	20 2		[+10]	—	—	i 18 41		?

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Dec. 22d. 22h. 38m. 11s. Epicentre 30°·17S. 177°·48W.

A = -0.8652, B = -0.0380, C = -0.5001; $\delta = +12$; $h = +2$;
D = -0.049, E = +0.999; G = +0.500, H = +0.022, K = -0.866.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Onerahi	E.	8.8	229	e 2 14	+ 3	—	—	—	—
Karapiro		9.7	215	e 2 25	+ 2	4 9	- 4	2 33	PP
Tongariro		10.7	211	e 2 36	- 1	e 4 34	- 4	—	—
Suva		12.5	342	3 3	+ 1	—	—	4 0	? e 6.2
Wellington		12.7	207	e 3 2	- 3	i 5 12	-16	—	—
Cobb River	E.	13.5	214	e 4 21	?	5 29	-17	—	—
Kaimata	N.E.	15.2	213	e 3 41	+ 4	6 10	-17	—	—
Christchurch	E.	15.5	208	e 4 12	PPP	e 6 17	-17	—	—
Gebbies Pass	N.	15.6	208	3 37	- 6	6 16	-21	—	—
Nouméa		16.4	295	i 3 58	+ 5	i 7 0	+ 4	i 4 15	PP i 8.0
Apia		17.1	19	e 3 58	- 4	e 6 51	-21	—	—
Brisbane		25.9	269	i 5 36	+ 1	e 10 22	+18	—	—
Riverview		26.8	254	i 5 41 _a	- 2	i 10 19	+ 1	i 6 42	PP e 12.6
Melbourne		31.9	246	i 6 26	- 3	i 11 38	- 1	7 51	PPP 15.5
Rabaul	z.	38.6	306	e 7 22	- 4	—	—	i 9 39	PcP
Perth	z.	56.3	250	9 44	0	—	—	e 24 9	? i 27.4
Matusiro		78.3	325	12 0	- 3	(22 49?)	PS	—	22.8
King Ranch	z.	84.8	44	e 12 37	0	—	—	e 12 55	PcP
Barratt	z.	85.0	48	i 12 38 _a	0	—	—	i 12 49	PcP
Pasadena		85.0	46	i 12 38 _a	0	i 23 11	+ 4	i 12 49	PcP e 38.6
Lick		85.1	42	e 12 39	0	—	—	—	—
Berkeley		85.1	41	e 12 38	- 1	e 23 17	+ 9	e 39 49	Q e 44.9
Palomar	z.	85.3	47	i 12 40 _a	0	—	—	i 12 52	PcP
Woody	z.	85.6	44	i 12 42 _a	+ 1	—	—	i 12 55	PcP
Fresno		85.8	43	e 12 43	+ 1	—	—	—	—
Hayfield	N.	86.3	47	e 12 45	0	—	—	i 13 4	PcP
China Lake	z.	86.5	45	i 12 46 _a	+ 1	—	—	i 12 58	PcP
Shasta		87.0	39	e 12 48	0	—	—	—	—
Mineral		87.2	39	e 12 49	0	—	—	—	—
Reno		87.6	41	e 12 51	0	—	—	—	—
Boulder City		88.3	46	i 12 54	0	—	—	i 13 4	PcP
Tucson		88.6	51	i 12 57	+ 2	—	—	e 16 57	PP
Eureka		89.8	43	i 13 1	0	—	—	—	—
Huancayo		94.3	106	e 13 25	+ 3	e 23 58	[+ 1]	e 31 12	SPS e 43.2
Hungry Horse		96.6	37	e 13 36	+ 4	e 17 38	PP	i 30 15	PKKP
College		97.5	12	i 13 34	- 3	—	—	—	—
La Paz		97.7	114	—	—	i 26 29	PS	—	45.8
Resolute		116.9	17	i 18 43	[- 3]	—	—	—	—
Kimberley	z.	117.7	202	i 18 48	[0]	—	—	—	—
Ottawa		118.6	52	e 18 49	[- 1]	—	—	—	—
Palisades		118.7	57	e 30 2	PS	e 25 43	[- 2]	e 27 3	SKKS e 55.5
Quetta		125.0	288	e 19 1 _a	[- 1]	e 22 37	PKS	e 30 42	PS
Halifax		126.9	55	i 19 3 _a	[- 3]	—	—	—	—
Astrida		138.3	223	e 19 29	[+ 2]	e 23 1	PKS	—	—
Lwiro		139.1	223	—	—	e 23 2	PKS	—	—
Kiruna		140.8	349	e 19 21	[- 11]	—	—	—	—
Skalstugan		146.0	352	i 19 39 _a	[- 1]	—	—	—	—
Upsala		148.6	345	i 19 45 _a	[0]	—	—	i 19 54	PKP ₂
Ksara		151.5	286	i 19 51 _a	[+ 2]	e 23 43	PP	e 20 16	PKP ₂
Copenhagen	z.	153.5	347	e 19 51	[- 1]	—	—	e 20 13	PKP ₂
Hamburg	z.	156.0	349	i 20 23	[+ 28]	—	—	—	—
Rathfarnham C.	z.	156.0	13	i 20 18 _a	[+ 23]	i 32 17	PKKS	i 20 35	PKP ₂
M'Bour		156.1	127	20 43	PKP ₂	—	—	i 22 50	? 78.8
Raciborz	z.	156.9	335	e 20 18	[+ 21]	—	—	—	—
Jena	z.	158.2	344	e 19 55	[- 3]	—	—	e 20 31	PKP ₂
Prague	N.	158.2	339	e 20 34	PKP ₂	—	—	—	—
Bratislava		158.8	332	e 19 50	[- 9]	—	—	e 20 32	PKP ₂
Stuttgart	z.	160.7	346	e 19 59	[- 2]	—	—	e 20 42	PKP ₂
Tubingen		161.0	346	e 20 35	PKP ₂	—	—	—	—
Strasbourg		161.2	349	e 20 5	[+ 3]	—	—	e 20 46	PKP ₂

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Ebingen	z.	161.4	346	e 20 44	PKP ₂	—	—	—	—
Paris		161.4	0	e 20 1	[- 1]	—	—	e 20 45	PKP ₂
Besançon		162.7	352	e 20 54	PKP ₂	—	—	—	—
Florence	z.	164.7	335	e 20 1	[- 4]	—	—	—	—
Malaga		171.3	40	e 20 23	[+ 13]	—	—	—	e 91.3
Almeria		172.2	31	e 20 5	[- 5]	—	—	—	—
Tamanrasset	z.	172.2	201	e 20 10	[- 0]	e 31 43	{- 30}	e 25 23	PP
Algiers Univ.		173.4	356	e 20 9	[- 2]	e 25 32	PP	e 21 27	PKP ₂

Dec. 22d. 23h. 12m. 35s. Epicentre 33°·65N. 139°·60E.

A = -0.6352, B = +0.5406, C = +0.5516; $\delta = -1$; $h = +1$;
D = +0.648, E = +0.762; G = -0.420, H = +0.358, K = -0.834.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Hatidyozima		0.6	161	e 0 25	+ 10	—	—	—	—
Osima	N.	1.1	351	i 0 21k	- 2	i 0 36	- 3	—	—
Nagaturo		1.1	327	0 10k	- 13	e 0 44	+ 5	0 27	S
Mera		1.3	8	i 0 24a	- 1	i 0 39	- 4	—	—
Ajiro		1.4	344	i 0 28k	+ 1	0 46	- 1	—	—
Omaesaki		1.5	310	i 0 26k	- 2	i 0 48	0	0 33	P _g
Misima		1.6	340	i 0 28k	- 1	i 0 49	- 1	—	—
Shizuoka		1.6	323	i 0 30k	- 0	i 0 53	+ 1	—	—
Yokohama		1.8	1	e 0 31	- 1	i 0 54	- 2	—	—
Hamamatu		1.9	305	i 0 34k	0	e 1 9	+ 6 _g	—	—
Hunatu		2.0	340	i 0 36k	+ 1	1 1	+ 1	—	—
Tokyo		2.0	4	i 0 35	- 1	1 1	- 1	i 0 43	P _g
Kohu		2.2	337	i 0 37k	0	i 1 8	+ 3	—	—
Tyosi		2.3	26	0 38	- 2	i 1 6	- 3	—	—
Titibu		2.4	350	i 0 41	+ 1	i 1 9	- 1	—	—
Iida		2.4	322	i 0 38k	- 2	e 1 11	0	—	—
Kumagaya		2.5	356	0 43	+ 1k	i 1 12	- 2	—	—
Kakioka	E.	2.6	10	0 44	0	1 13	- 4	—	—
Nagoya	E.	2.6	306	e 0 44	0	e 1 23	+ 5	—	—
Tu		2.8	294	0 50	+ 4	1 19	- 2	—	—
Maebasi		2.8	351	i 0 46k	0	e 1 20	- 1	—	—
Oiwake		2.8	342	i 0 50k	+ 3	e 1 38	+ 6 _g	—	—
Mito		2.8	14	e 0 47	0	1 19	- 3	—	—
Kameyama		2.8	296	0 47	0	1 19	- 4	—	—
Owase		2.9	279	i 0 46	- 1	i 1 17	- 6	—	—
Utunomiya		2.9	4	e 0 47	- 1	i 1 20	- 4	e 0 53	P*
Gihu		2.9	308	i 0 47k	- 1	e 1 27	+ 2	e 2 14	?
Matumoto	E.	2.9	333	i 0 49k	+ 1	i 1 31	+ 6	—	—
Matusiro		3.1	339	i 0 51k	0	—	—	—	—
Takayama	E.	3.2	323	e 0 54	+ 2	1 38	- 1*	—	—
Ibukisan	E.	3.2	304	e 0 51	- 1	e 1 39	0*	—	—
Hikone		3.2	301	0 51k	- 1	1 37	- 2*	—	—
Siomisaki		3.2	267	i 0 51	- 1	i 1 25	- 7	—	—
Torisima		3.2	169	e 0 53	0	e 1 42	+ 3*	e 0 59	P*
Nagano		3.2	340	i 0 53a	0	e 1 36	+ 4	—	—
Nara		3.3	289	e 1 0	+ 1*	e 1 35	+ 1	—	—
Onahama		3.5	18	e 1 1	- 2*	e 1 45	- 3*	—	—
Kyoto		3.5	294	e 0 55	- 1	e 1 34	- 5	e 1 31	?
Shirakawa		3.5	8	0 57	0	e 1 42	+ 2	1 32	?
Osaka		3.5	288	e 0 57	0	e 1 35	- 5	e 1 5	P*
Tsuruga		3.5	305	e 0 57	0	i 1 40	0	—	—
Toyama		3.6	328	1 1a	+ 3	1 58	- 1 _g	e 1 9	P _g
Hukui		3.6	312	e 1 2	- 2*	e 1 53	+ 2*	—	—
Wakayama		3.7	280	i 1 1k	+ 1	e 1 40	- 6	e 1 9	P*
Kanazawa		3.8	321	e 1 10	+ 2*	e 1 49	+ 3	—	e 3.1

Continued on next page.

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		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Kobe		3.8	287	e 1	4	+ 3	e 1	42	- 4	i 2	4	S _g	—
Maizuru		3.9	299	e 1	4	+ 2	e 1	54	+ 5	—	—	—	—
Sumoto		4.0	281	e 0	59	- 4	i 1	43	- 9	—	—	—	—
Hokusima		4.2	10	1	9	+ 3	1	59	+ 3	—	—	—	—
Tokusima		4.2	277	e 1	4	- 3	e 1	51	- 7	i 1	14	P*	2.7
Niigata		4.3	354	e 1	18	+ 2*	e 2	4	4	e 1	51	?	—
Wazima		4.3	330	e 1	13	+ 5	e 2	22	0 _g	—	—	—	—
Toyooka		4.4	297	e 1	7	- 2	e 2	1	- 1	e 1	36	P _g	—
Himeji		4.4	282	e 1	4	- 5	e 2	7	+ 5	—	—	—	—
Aikawa		4.5	346	1	10	- 1	2	2	- 3	—	—	—	—
Muroto		4.6	266	e 1	22	0*	e 2	1	- 5	—	—	—	—
Yamagata		4.6	7	i 1	15	+ 2	i 2	5	- 3	—	—	—	—
Takamatu		4.7	280	e 1	12	- 1	e 1	58	-11	—	—	—	—
Sendai		4.7	12	e 1	14	0	e 2	11	0	e 2	5	S	—
Tottori	N.	4.8	294	e 1	39	+ 3 _g	i 2	54	+15 _g	—	—	—	—
Isinomaki		5.0	16	1	17	0	2	11	- 6	—	—	—	e 3.1
Koti		5.1	270	e 1	17	- 2	e 2	18	- 1	i 2	24	SS	—
Sakata		5.2	2	e 1	34	+ 2*	e 2	30	+ 7	—	—	—	—
Yonago		5.4	291	—	—	—	i 2	31	+ 2	i 3	21	?	—
Mizusawa		5.6	12	1	27	+ 1	2	26	- 6	—	—	—	—
Simidu		5.6	263	1	25 _a	- 2	e 3	2	- 3 _g	—	—	—	4.0
Matsue		5.7	290	e 1	30	+ 3	e 2	53	0*	—	—	—	—
Matuyama	N.	5.7	274	e 1	26	- 2	e 2	30	- 5	—	—	—	—
Saigo		5.7	298	—	—	—	2	52	- 1*	—	—	—	—
Uwazima		5.9	268	e 1	24	- 7	e 2	27	-13	—	—	—	—
Hirosima		6.0	279	e 1	22	-10	e 2	44	+ 2	e 3	19	S _g	—
Morioka		6.2	11	i 1	34	0	e 2	41	- 6	—	—	—	—
Miyako		6.3	17	e 1	34	- 2	e 2	40	- 9	—	—	—	—
Hamada		6.4	283	e 1	38	+ 1	e 2	45	- 6	e 3	10	S*	—
Ooita		6.7	269	e 1	39	- 3	i 3	21	- 2*	e 2	42	?	—
Hatinohe		7.0	12	e 1	44	- 3	e 2	59	- 9	—	—	—	—
Miyazaki		7.1	258	1	47	- 1	3	24	SS	—	—	—	4.8
Asosan		7.2	266	e 1	49	0	3	18	+ 6	—	—	—	—
Aomori		7.2	7	e 1	51	+ 2	i 3	10	- 3	—	—	—	—
Simonoseki	E.	7.2	275	e 1	51	+ 2	—	—	—	—	—	—	—
Kumamoto		7.5	266	e 1	52	- 1	3	21	+ 1	—	—	—	4.4
Hukuoka		7.7	272	e 1	54	- 1	e 3	16	- 8	—	—	—	—
Saga		7.8	270	1	58	+ 1	i 4	4	+ 8*	—	—	—	—
Unzendake		7.9	266	e 1	57	- 2	—	—	—	—	—	—	e 4.6
Kagosima		7.9	257	e 2	2	+ 3	e 4	1	+ 3*	—	—	—	e 4.8
Hakodate	N.	8.2	6	e 2	8	+ 6	e 3	34	- 2	—	—	—	—
Nagasaki	N.	8.2	266	2	6	+ 3	—	—	—	—	—	—	e 5.1
Yakusima		8.4	250	e 2	3	- 2	e 4	35	- 2 _g	—	—	—	—
Mori		8.5	5	e 2	8	+ 1	e 3	48	+ 4	e 3	21	?	4.4
Ituhara	E.	8.6	276	e 2	42	-10 _g	—	—	—	—	—	—	—
Muroran		8.7	7	e 2	8	- 2	e 4	5	+14	—	—	—	e 5.6
Urakawa		8.8	16	e 2	13	+ 1	e 3	46	- 8	e 3	0	P _g	e 4.3
Tomakomai		9.0	9	e 2	22	+ 8	e 4	5	+ 8	—	—	—	—
Tomie		9.1	266	e 2	15	- 1	e 4	10	+ 9	—	—	—	—
Suttsu		9.2	3	e 2	25	+ 9	e 4	4	+ 3	—	—	—	e 4.9
Sapporo	E.	9.5	8	e 2	12	- 9	5	14	0 _g	e 2	29	PP	i 5.4
Obihiro		9.7	16	i 2	18	- 5	e 4	0	-14	—	—	—	—
Kusiro		10.0	21	e 2	18	-10	i 4	9	-14	—	—	—	e 5.6
Asahigawa		10.3	11	e 2	30	- 2	—	—	—	—	—	—	—
Nemuro		10.7	24	e 2	41	+ 3	e 4	27	-13	—	—	—	e 6.2
Abashiri		11.0	18	—	—	—	e 4	33	-13	—	—	—	e 6.5
Vladivostok		11.2	330	i 2	45	+ 1	i 4	50	- 2	i 5	0	SS	—
Wakkanai	N.	11.9	7	—	—	—	e 5	23	+15	—	—	—	—
Yuzno-Sakhlinsk		13.5	9	e 3	11	- 4	e 5	42	- 5	—	—	—	—
Changchun		15.1	317	e 3	37	+ 1	6	38	+14	—	—	—	—

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Suihwa		16.1	327	e 3 52	+ 3	—	—	—	—
Nanking		17.6	270	e 4 8	+ 1	i 7 34	+12	—	—
Peking		19.8	296	e 4 35	+ 1	i 8 21	+ 9	—	—
Petropavlovsk		23.8	29	e 5 15	0	e 9 30	+ 3	e 6 7	PPP
Hong Kong		25.1	250	e 4 45	-42	—	—	e 5 7	P
Canton		25.4	252	e 5 32	+ 2	e 10 0	+ 5	—	—
Manila		25.4	226	e 5 43	+13	i 11 17	SSS	—	—
Sian		25.4	280	e 5 35	+ 5	10 1	+ 5	—	—
Magadan		27.0	13	e 5 45	0	e 10 19	- 2	e 9 5	PcP
Irkutsk		31.4	317	e 6 20	- 5	e 11 33	+ 1	7 27	PP
Tiksi		38.5	355	e 7 24	- 1	e 13 15	- 6	e 8 51	PP
Rabaul	z.	39.5	160	e 7 31	- 3	—	—	e 9 18	PP
Shillong		42.0	272	e 7 51	- 3	e 14 15	+ 1	9 40	PP
Chatra	E.	45.4	276	e 8 32	+10	—	—	—	—
Bokaro		47.7	273	e 8 34	- 6	e 15 34	- 2	19 14	SS
Frunse		50.7	301	e 9 2	- 1	—	—	—	—
Dehra Dun		51.6	284	e 9 17	+ 7	i 16 36	+ 5	19 44	SS
College		52.7	31	i 9 17	- 2	e 16 26	-20	i 9 26	?
Tashkent		54.9	300	e 9 30	- 5	e 17 8	- 8	e 17 28	PS
Stalinabad		56.1	297	e 9 40	- 3	e 17 29	- 3	—	—
Sverdlovsk		56.7	320	9 45	- 3	17 37	- 3	11 45	PP
Hyderabad	E.	56.7	270	—	—	e 17 43	+ 3	—	—
Madras	E.	57.5	264	e 10 1	+ 8	e 17 53	+ 3	—	—
Poona	Z.	60.0	273	e 10 3	- 8	—	—	—	—
Quetta		60.6	288	e 10 8	- 6	e 18 12	-18	e 10 53	PcP
Bombay		60.7	274	e 10 14	- 1	e 18 34	+ 2	—	—
Ashkabad		64.0	300	e 10 36	- 1	e 19 18	+ 5	i 19 35	PS
Apatity		65.2	336	e 10 47	+ 2	e 19 40	+13	e 30 59	PKKP
Resolute		66.2	14	i 10 48 _a	- 4	e 20 13	PPS	e 11 18	PcP
Sodankyla		67.5	337	i 10 56	- 4	—	—	—	—
Riverview		68.0	170	i 11 11 _k	+ 8	—	—	—	—
Moscow		69.1	324	e 11 6	- 4	20 10	- 5	—	—
Kiruna		69.2	339	i 11 7	- 3	—	—	—	—
Tiflis		71.7	308	e 11 24	- 2	e 20 44	- 2	e 11 35	PcP
Goris		71.8	306	e 11 25	- 1	e 20 44	- 2	e 21 15	PS
Corvallis		71.8	48	i 11 34	+ 8	—	—	—	—
Skalstugan		74.5	338	i 11 46	+ 4	—	—	—	—
Mineral		75.0	51	e 11 45	0	—	—	i 11 52	PcP
Hungry Horse		75.3	41	e 11 45	- 1	—	—	—	—
Upsala		75.3	334	i 11 46	- 1	i 21 20	- 6	—	—
Berkeley		75.9	54	e 11 51	+ 1	—	—	—	—
Lick		76.6	54	e 11 53	- 1	—	—	—	—
Reno		76.6	51	e 11 53	- 1	—	—	—	—
Simferopol		76.7	315	e 11 51	- 3	e 21 37	- 4	e 22 9	PS
Butte		77.4	43	e 11 57	- 1	—	—	—	—
Fresno		78.1	54	e 12 6	+ 4	—	—	—	—
King Ranch	z.	79.0	55	e 12 7	0	—	—	e 12 16	PcP
Iasi		79.0	320	12 13	+ 6	—	—	e 12 33	PcP
Eureka		79.1	50	i 12 8	0	—	—	—	—
Lwow		79.2	324	e 12 6	- 2	—	—	—	—
Woody	z.	79.4	54	i 12 8	- 1	—	—	i 12 20	PcP
China Lake	z.	80.1	54	e 12 11	- 2	—	—	—	—
Copenhagen		80.3	333	e 12 11	- 3	—	—	—	—
Pasadena		80.7	55	i 12 17	+ 1	—	—	i 33 37	Q
Salt Lake City		81.0	47	e 12 18	0	—	—	—	—
Krakow		81.1	326	e 12 18	0	e 22 32	+ 5	e 12 26	PcP
Skalnate Pleso		81.5	325	—	—	e 27 7	SS	—	—
Boulder City		81.9	52	i 12 21	- 1	—	—	—	—
Palomar	z.	82.0	55	e 12 22	- 1	—	—	—	—
Barratt	z.	82.6	56	e 12 26	0	—	—	—	—

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Hayfield	N.	82.7	54	e 12 18	- 9	—	—	—	—
Hamburg		82.8	332	i 12 36	+ 9	—	—	—	e 44.4
Budapest		83.2	324	e 12 37	+ 8	e 34 35	PKKS	e 36 15	?
Hurbanovo		83.4	325	e 12 44	+14	e 22 55	+ 4	—	—
Jerusalem		83.5	304	i 12 31	0	—	—	i 12 45	PcP
Prague		83.6	328	i 12 33	+ 2	e 22 43	-10	e 15 59	PP
Bratislava		83.7	325	i 12 30	- 2	e 22 47	- 7	i 12 37	PcP
Rapid City	E.	83.8	40	e 12 33	+ 1	e 22 54	- 1	e 15 53	PP
Belgrade		84.4	321	e 12 44 _a	+ 9	e 24 26	PPS	—	—
Durham	Z.	85.8	339	—	—	24 55	PPS	—	e 49.8
Tucson		86.8	53	e 12 48	+ 1	—	—	—	—
Stuttgart		86.8	330	e 12 45	- 2	e 23 22	- 2	e 12 53	PcP
Ebingen	Z.	87.4	329	e 12 47	- 3	—	—	—	—
Kew		88.2	336	—	—	—	—	27 55	SS
Taranto		89.1	320	—	—	22 48	-58	—	e 45.4 44.4
Paris		89.4	333	e 13 0	0	e 23 47	- 2	e 23 26	SKS
Florence		89.7	325	i 12 53	- 8	e 23 49	- 2	e 30 5	SS
Rome		90.5	324	e 14 39	?	e 23 46	-13	e 16 25	PP
Messina		91.6	319	e 12 46	-24	e 24 22	+13	—	—
Fayetteville		94.3	41	e 13 24	+ 2	—	—	—	e 42.4 43.4 42.5 43.9
Ottawa		95.0	24	e 13 25	- 1	—	—	—	—
Brébeuf		95.7	23	e 13 26	- 3	—	—	—	—
Granada		101.6	331	e 13 28 _a	-28	—	—	—	i 55.9
Tamanrasset	Z.	108.9	316	e 18 24	[- 7]	—	—	e 18 39	PP
Balboa Heights		123.6	48	i 14 28	P	—	—	i 20 24	PP
Kimberley	Z.	124.8	256	i 19 2	[0]	—	—	—	—
Huancayo		141.6	64	e 19 29	[- 4]	e 26 28	[-14]	e 23 8	PKS
La Paz	Z.	149.8	62	e 19 53	[+ 6]	23 29	PP	i 20 5	PKP ₁
Santa Lucia	Z.	154.8	99	i 20 7	[+13]	—	—	—	—

Dec. 23d. 8h. 37m. 39s. Epicentre 22°·07N. 144°·33E. Depth of focus = 0.021R.

A = -0.7536, B = +0.5409, C = +0.3736; δ = +6; h = +4;
D = +0.583, E = +0.812; G = -0.304, H = +0.218, K = -0.928.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Torisima		9.1	338	—	—	i 3 36	-14	—	—
Osima		13.4	342	—	—	i 5 28	- 2	—	—
Mera	N.	13.4	344	e 2 52	-12	e 5 50	+20	—	—
Misima	N.	13.8	341	e 3 8	- 2	e 5 29	-11	—	—
Yokohama		13.9	344	e 3 13	+ 2	e 5 38	- 4	—	—
Tokyo		14.1	345	e 3 15	+ 1	e 5 39	- 8	e 5 58	SS
Hunatu		14.2	341	e 3 9	- 6	e 5 39	-10	—	—
Kohu		14.4	341	e 3 17	0	e 5 49	- 4	—	—
Iida		14.6	338	e 3 52	+33	e 5 54	- 2	—	—
Kakioka		14.6	346	e 3 18	- 1	e 5 50	- 6	e 3 53	PP
Titibu		14.6	343	e 3 19	- 1	i 6 20	+23	—	—
Kumagaya		14.7	344	e 3 18	- 3	5 49	-10	—	—
Tokusima		14.7	326	e 3 21	0	—	—	e 4 6	PP
Osaka		14.7	330	e 3 21	0	—	—	—	—
Gihu		14.8	335	e 3 22	- 1	—	—	—	—
Hikone		14.9	334	e 3 27	+ 3	—	—	—	—
Utunomiya		14.9	346	e 3 24	0	e 5 53	-12	e 3 42	PP
Maebasi		15.0	343	e 3 22	- 3	e 6 5	- 1	e 4 35	PP
Oiwake		15.1	342	e 3 27	+ 1	—	—	—	—
Miyazaki		15.1	313	3 31	+ 5	6 27	+18	—	—
Onahama		15.1	349	e 3 19	- 7	e 5 59	-10	—	—
Matumoto	N.	15.2	340	e 3 28	+ 1	e 6 5	- 5	—	—
Takamatu		15.2	326	e 3 52	+25	—	—	—	—
Matusiro		15.4	341	i 3 26	- 3	6 18	+ 3	i 6 9	S
Shirakawa		15.4	348	e 3 29	- 1	e 6 7	- 9	—	—

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		Δ °	Az. °	P. m. s.	O - C. s.	S. m. s.	O - C. s.	Supp. m. s.	L. m.
Nagano	N.	15.5	341	e 3 32	+ 1	e 6 11	- 6	—	—
Kagosima		15.5	310	e 3 39	+ 8	e 6 32	+14	—	—
Ooita		15.8	317	i 3 38	+ 3	—	—	e 4 41	?
Toyama		15.8	339	e 3 43	+ 8	—	—	—	—
Asosan		15.9	315	3 36	0	e 6 52	+24	—	—
Hukusima		16.0	349	e 3 35	- 2	e 6 21	- 7	—	—
Kumamoto	Z.	16.1	314	e 3 40	+ 1	—	—	—	—
Sendai	N.	16.4	350	e 3 39	- 3	e 6 29	-11	—	—
Yamagata		16.5	349	e 3 27	-16	—	—	—	—
Saga		16.7	315	e 3 47	+ 2	e 6 52	+ 5	—	—
Hamada		16.7	323	e 6 4	?	e 6 57	+10	—	—
Mizusawa		17.2	352	3 51	- 1	e 6 53	- 7	—	—
Morioka		17.8	352	e 3 58	0	e 7 4	- 5	—	—
Hakodate	N.	19.9	352	e 4 22	+ 2	—	—	—	—
Urakawa		20.1	357	e 4 25	+ 2	e 7 56	+ 1	—	—
Mori	E.	20.2	352	e 4 14	-10	e 8 2	+ 6	e 4 25	P
Tomakomai		20.5	354	e 4 21	- 6	—	—	—	—
Obihiro	Z.	20.8	358	e 4 28	- 1	—	—	—	—
Kusiro		20.8	0	e 4 32	+ 2	e 8 27	+20	—	—
Suttsu		21.0	352	e 4 30	- 1	—	—	—	—
Sapporo		21.1	354	i 4 32k	0	e 8 27	+15	e 5 0	pP
Nemuro		21.2	2	e 4 34	0	e 8 25	+11	—	—
Zô-Sè		22.5	298	i 4 47a	+ 1	8 45	+ 8	i 5 9	pP
Vladivostok		23.4	337	4 58	+ 4	9 3	+12	—	—
Manila		23.4	255	e 4 55	+ 1	e 8 40	-11	—	—
Wakkanai	E.	23.4	355	—	—	e 9 3	+10	—	—
Nanking		24.8	299	e 5 6	- 2	9 20	+ 5	e 5 30	pP
Yuzno-Sakhlinsk		24.8	357	5 9	+ 1	—	—	—	—
Changchun		26.8	328	e 5 25	- 1	e 10 3	+15	—	—
Rabaul	Z.	27.2	163	i 5 26	- 4	—	—	—	—
Hong Kong		27.9	276	e 6 2	+26	—	—	—	—
Peking		29.9	313	e 5 52	- 2	10 42	+ 5	6 15	pP
Tatung		31.9	312	e 6 11	0	—	—	—	—
Irkutsk		43.0	325	7 43	- 2	14 3	+ 5	—	—
Shillong	Z.	47.9	285	i 8 21a	- 2	—	—	—	—
Nouméa		49.1	152	i 8 32	0	—	—	—	—
Tiksi Bay		50.4	354	8 41	0	—	—	—	—
Chatra	Z.	51.9	287	i 8 53	0	—	—	i 10 4	PcP
Riverview		56.0	173	i 9 21a	- 2	19 5	ScS	i 10 1	sP
Semipalatinsk		56.9	317	9 28	- 2	—	—	—	e 26.0
Dehra Dun		59.3	293	e 9 40	- 6	i 17 46	+ 6	—	—
Melbourne		59.6	179	e 9 47	- 1	—	—	i 10 33	PcP
Frunse		60.7	308	9 55	- 2	—	—	—	—
College		60.8	27	i 9 54	- 3	i 12 20	PP	i 10 40	PcP
Namangan		63.0	305	i 10 12	0	e 18 29	+ 1	—	e 25.0
Onerahi	E.	64.2	153	e 10 21	+ 2	—	—	—	—
Poona	Z.	65.7	281	i 10 28	0	e 19 3	+ 4	—	—
Karapiro	N.	66.5	154	e 19 33	- 1	—	—	e 11 30	?
Bombay		66.5	282	e 10 34	0	e 19 20	+11	i 20 21	PPS
Tongariro	Z.	67.6	154	10 39	- 2	—	—	—	—
Cobb River	E.	68.1	157	e 10 47	+ 3	—	—	—	—
Sverdlovsk		68.4	325	10 46	0	19 39	- 6	—	—
Quetta		68.7	295	i 10 47a	- 1	i 19 44	+ 7	e 11 12	pP
Wellington	Z.	69.1	156	i 10 49	- 1	—	—	—	—
Gebbies Pass	N.	70.4	159	10 57	- 1	—	—	—	—
Horseshoe Bay		75.1	42	i 11 47k	+22	—	—	—	—
Resolute		76.5	14	i 11 32k	- 1	e 21 9	+ 6	e 26 12	SS
Corvallis		76.5	47	i 11 34	+ 1	—	—	—	—
Apatity		77.4	338	e 11 39	+ 1	e 21 19	+ 6	—	—
Shasta		78.3	51	i 11 44k	+ 1	—	—	i 14 42	PP
Mineral		79.0	51	i 11 47k	0	—	—	—	—
Banff		79.2	39	i 11 47k	- 1	—	—	—	—
Berkeley		79.4	54	i 11 49k	0	e 21 47	+13	e 12 16	pP
Sodankyla		79.8	340	i 11 50	- 1	—	—	i 12 15	pP
Lick		80.0	54	i 11 53k	+ 1	—	—	i 12 8	PcP

Continued on next page.

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	Δ	Az.	P.		O-C.	S.	O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	m.	s.	m.
Makhach-Kala	80.1	313	11	53	0	21	50	+	7	—
Reno	80.6	51	i 11	56k	+ 1	—	—	—	—	—
Moscow	80.9	327	11	57	- 1	21	54	+	3	—
Hungry Horse	81.2	41	i 11	59	+ 1	i 21	58	+	6	e 12 27 pP
Kiruna	81.4	341	i 11	59	- 1	—	—	e 12	23	pP
Fresno	81.6	54	i 12	2k	+ 2	—	—	—	—	—
King Ranch	82.1	55	i 12	5k	+ 2	—	—	e 15	14	PP
Tiflis	82.4	312	12	6	+ 1	e 22	15	+	9	—
Woody	z. 82.7	55	i 12	6k	0	i 15	16	PP	i 12	31 pP
Butte	N. 83.0	43	i 12	8	0	—	—	—	—	—
Eureka	83.4	50	i 12	10	+ 1	—	—	—	—	—
China Lake	z. 83.6	54	i 12	12k	+ 1	e 15	25	PP	i 12	39 pP
Pasadena	83.8	56	i 12	13k	+ 1	i 22	24	+	5	i 12 39 pP e 37.6
Sotchi	85.0	315	12	14	- 4	22	33	+	1	—
Palomar	z. 85.1	56	i 12	18k	0	e 15	34	PP	i 12	46 pP
Barratt	z. 85.5	57	i 12	21k	+ 1	e 15	38	PP	i 12	44 pP
Boulder City	85.6	53	i 12	21	0	—	—	—	i 12	43 pP
Salt Lake City	85.7	48	i 12	22	+ 1	—	—	—	i 12	50 pP
Hayfield	N. 85.9	55	i 12	23	+ 1	—	—	—	e 15	44 PP
Skalstugan	86.8	341	i 12	26	0	i 16	19	PP	i 12	47 pP
Scoresby Sund	87.2	355	e 12	30	+ 2	—	—	—	e 12	55 pP
Upsala	87.6	336	i 12	29	- 1	—	—	—	—	—
Rapid City	E. 89.8	42	i 12	41	0	e 23	6	-10	e 13	10 pP
Tucson	90.2	55	i 12	44	+ 2	e 23	10	- 9	e 13	15 pP
Ksara	92.1	308	e 12	54	+ 2	i 25	0	PS	—	—
Lubbock	96.2	50	e 13	11	+ 1	—	—	—	—	—
Jena	z. 96.3	332	e 13	10	0	e 17	34	PP	13	37 pP
Stuttgart	z. 98.9	332	e 13	20	- 2	e 17	30	PP	e 17	54 pPP
Fayetteville	100.0	44	e 13	30	+ 3	—	—	—	—	—
Florissant	100.7	40	17	44	PP	e 24	1 [+ 7]	—	24	42 SKKKS
St. Louis	100.9	40	17	43	PP	e 24	1 [+ 6]	—	26	40 PS
Paris	101.6	335	e 14	3	+28	—	—	—	—	e 47.4
Tacubaya	105.5	61	e 13	44	-10	e 18	1	PP	e 17	33 PKP
Palisades	107.9	30	e 27	40	SP	i 24	35 [-13]	—	e 33	41 SS e 50.6
Astrida	113.7	277	e 18	22a	[+ 4]	—	—	—	e 19	17 PP
Lwiro	114.5	278	e 18	23	[+ 3]	—	—	—	—	—
Bermuda	119.2	28	e 29	29	PKKP	i 26	41	S	—	—
Tamanrasset	z. 120.0	315	e 18	34	[+ 3]	e 19	49	PP	e 18	59 pPKP e 55.8
Pretoria	z. 122.0	253	i 18	37k	[+ 2]	—	—	—	—	—
Grahamstown	z. 124.5	244	i 18	40	[+ 1]	—	—	—	—	—
Kimberley	z. 125.5	250	i 18	43a	[+ 2]	—	—	—	—	—
Chinchina	132.6	60	i 17	32	?	i 26	40 [+51]	—	i 27	23 SKKS
Huancayo	140.9	82	e 19	8	[- 2]	e 28	46 SKKS	—	e 22	43 SKP
Santa Lucia	z. 147.2	118	i 19	24	[+ 2]	—	—	—	—	—
Antofagasta	E. 148.0	100	e 19	31	[+ 8]	—	—	—	—	—
La Paz	148.9	86	i 19	28	[+ 4]	—	—	—	19	49 pPKP

Dec. 25d. 9h. 33m. 35s. Epicentre 48°-85N. 27°-96W.

A = +0.5834, B = -0.3097, C = +0.7508; $\delta = -3$; $h = -5$;
D = -0.469, E = -0.883; G = +0.663, H = -0.352, K = -0.661.

	Δ	Az.	P.		O-C.	S.	O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	m.	s.	m.
Angra-do-Heroismo	10.2	177	e 3	58	?	i 4	37	+	10	—
Ponta Delgada	11.2	171	—	—	—	e 4	50	- 2	i 8	55 PcP
Rathfarnham Castle	14.3	64	i 3	23a	- 3	i 6	19	+12	i 3	34 PP i 7.0
Coimbra	16.4	115	3	49k	- 4	6	53	- 2	—	—
Edinburgh	16.6	56	i 4	22	PPP	—	—	—	—	8.4
Lisbon	16.9	120	i 3	58a	- 1	i 7	4	- 3	i 4	13 PP i 9.7
Jersey	17.0	79	e 4	1	+ 1	e 8	21	+73	—	9.4
Durham	17.3	60	i 4	5	+ 1	5	58	-78	4	18 PP
Toledo	19.2	109	i 4	27	- 1	i 8	12	+12	4	52 PP 9.0
Paris	20.0	79	e 4	37	0	e 8	26	+ 9	i 4	59 PP e 9.4

Continued on next page.

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	Δ	Az.	P.		O - C.	S.		O - C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Malaga	21.0	116	i 4	48k	0	i 8	28	- 9	i 8	51	PcP	9.8
Granada	21.2	114	i 4	52	+ 3	i 8	56	+15	5	16	PP	i 10.6
Clermont-Ferrand	21.2	87	e 4	51	+ 1	i 8	57	+16	i 9	57	SS	10.4
De Bilt	21.2	69	i 4	51 _a	+ 1	e 8	45	+ 3	i 8	59	PcP	e 10.4
Scoresby Sund z.	21.9	5	e 4	58	+ 2	—	—	—	i 5	10	PP	—
Almeria	22.1	113	i 4	58	0	i 9	9	+11	i 5	23	PP	i 10.7
Witteveen z.	22.1	66	e 4	59	+ 1	—	—	—	—	—	—	—
Alicante	22.4	108	i 5	4	+ 3	e 9	14	+11	5	46	PPP	e 11.2
Barcelona	22.4	98	5	1	0	9	14	+11	5	32	PP	e 11.1
Besançon	22.6	81	e 5	4	0	—	—	—	—	—	—	—
Neuchatel	23.4	81	i 5	13	+ 2	e 9	33	+13	—	—	—	—
Strasbourg	23.4	77	e 5	13 _a	+ 1	i 9	40	+18	e 5	48	PP	e 11.4
Basle	23.6	80	i 5	16	+ 3	e 9	39	+14	—	—	—	—
Karlsruhe	23.8	76	i 5	17 _a	+ 2	i 9	45	+17	i 5	48	PP	—
Hamburg	24.0	64	i 5	19	+ 2	e 9	43	+11	i 6	2	PP	e 12.4
Tubingen	24.3	77	e 5	21	+ 1	e 9	50	+13	—	—	—	—
Stuttgart	24.3	76	e 5	20	0	e 9	45	+ 8	e 5	50	PP	e 12.0
Ebingen	24.3	78	e 5	21	+ 1	e 9	50	+13	—	—	—	e 12.4
Oropa	24.5	84	i 5	19	- 3	e 9	49	+ 9	e 6	17	PPP	—
Halifax	24.6	274	i 5	23k	0	e 9	43	0	—	—	—	e 11.9
Relizane	24.6	111	i 5	24 _a	+ 1	e 10	18	SS	—	—	—	—
Monaco	24.8	88	e 5	27	+ 2	e 9	56	+10	e 5	59	PP	—
Ravensburg	24.9	78	e 5	26	+ 1	e 9	56	+10	—	—	—	e 13.4
Jena	25.4	70	e 5	30	0	e 9	57	+ 2	e 6	2	PP	e 12.7
Copenhagen	25.4	59	i 5	30	- 1	i 10	0	+ 5	—	—	—	13.4
Pavia	25.4	84	e 5	34	+ 3	e 10	26	+30	e 6	28	PPP	—
Algiers Univ. z.	25.6	107	e 5	31	- 1	e 9	59	+ 1	e 6	26	PPP	—
Cheb	26.0	72	i 5	35	- 1	i 10	13	+ 7	i 6	43	PPP	12.9
Skalstugan	26.2	41	i 5	39	+ 1	—	—	—	—	—	—	—
Bologna	27.1	84	e 5	50	+ 4	—	—	—	e 6	32	PP	—
Prato	27.2	86	e 5	43	- 4	—	—	—	i 16	9	?	—
Prague	27.3	71	i 5	48	0	i 10	33	+ 6	i 12	4	SSS	14.7
Florence	27.3	86	i 5	47 _a	- 1	i 10	35	+ 8	i 6	45	PP	e 13.4
Upsala	28.2	50	i 5	56	0	i 10	46	+ 5	i 6	53	PP	—
Triest	28.2	81	i 5	56	- 1	i 10	29	-13	i 6	43	PP	12.9
Rome	29.0	88	i 6	4 _a	+ 1	i 11	2	+ 8	e 7	4	PP	i 14.1
Bratislava	29.5	74	i 6	3	- 5	e 10	55	- 8	i 9	14	PcP	e 14.7
Raciborz	29.7	70	e 6	6	- 3	i 7	18	PPP	i 6	59	PP	e 14.4
Shawinigan Falls	29.9	283	e 6	22k?	+10	11	22?	+13	i 7	22?	PP	—
Tunis	30.1	99	e 6	13	0	—	—	—	—	—	—	—
Hurbanovo	30.3	74	e 6	49	+34	e 11	25	+10	e 7	30	PPP	—
Kiruna	30.6	34	i 6	18	+ 1	i 11	27	+ 8	i 7	12	PP	—
Weston	30.7	274	i 6	18k	0	i 11	25	+ 4	—	—	—	e 14.3
Krakow	30.7	69	e 6	21	+ 2	e 11	28	+ 6	e 7	40	PPP	—
Warsaw	30.8	65	e 6	19	- 1	e 11	20	- 3	i 9	21	PcP	e 14.4
Brébeuf	30.9	281	i 6	20	0	11	27	+ 3	—	—	—	17.0
Budapest	31.0	74	6	21	0	11	16	-10	7	27	PP	17.8
Skalnate Pleso	31.2	71	i 6	17	- 6	e 11	5	-24	—	—	—	—
Helsinki	31.9	49	e 6	23	- 6	e 11	49	+10	e 7	28	PP	—
Bermuda	32.0	253	i 6	29	- 1	i 11	42	+ 1	i 7	44	PP	e 14.4
Szeged	32.1	76	6	39	+ 8	13	22	PcS	8	4	PP	—
Ottawa	32.3	282	e 6	32 _a	0	11	53	+ 7	7	0	pP	15.8
Sodankyla	32.8	36	i 6	36	- 1	—	—	—	i 7	47	PP	—
Taranto	32.8	88	e 9	55	?	e 14	15	SSS	—	—	—	—
Messina	32.9	92	i 6	37k	- 1	i 11	58	+ 3	i 7	53	PP	15.1
Belgrade	32.9	78	e 6	39k	+ 1	i 12	9	+13	e 7	34	PP	e 16.3
Reggio Calabria	33.0	92	e 6	35	- 4	i 12	1	+ 4	e 7	4	?	—
Timosoara	33.0	76	e 6	49	+10	—	—	—	—	—	—	e 17.4
Palisades	33.0	274	i 6	39 _a	0	i 11	36	-22	i 7	48	PP	e 15.6
Fordham	33.1	274	e 6	38	- 2	e 11	45	-14	e 7	38	PP	—
Kirkland Lake	34.0	289	e 6	27 _a ?	-20	—	—	—	—	—	—	—
Buffalo (Larkin)	35.2	280	i 6	59	+ 1	—	—	—	—	—	—	—
M'Bour	35.5	162	i 7	1	0	e 12	42	+ 5	i 8	18	PP	16.9
Sofia	35.7	80	i 7	2	0	e 12	56	+17	—	—	—	20.4
Pennsylvania	35.7	276	i 6	6	-56	e 11	46	-54	—	—	—	—

Continued on next page.

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	Δ	Az.	P.		O - C.	S.		O - C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	is.	s.	m.	s.	m.
Washington	36.2	273	e 7	2	- 4	e 12	30	-17	—	—	i 17.6
Iasi	36.5	71	7	10	+ 1	—	—	—	e 8	37	PP
Bucharest	36.7	76	7	12	+ 1	12	55	0	8	41	PP
Tamanrasset	37.1	122	i 7	13	- 1	e 13	6	+ 5	e 8	42	PP
Pittsburgh	37.3	277	i 7	19	+ 4	—	—	—	i 7	46	?
Kishinev	37.3	71	7	16	0	—	—	—	—	—	—
Resolute	37.6	336	i 7	17k	- 1	i 13	10	+ 2	e 10	3	?
Athens	38.4	87	i 7	26	+ 1	i 13	22	+ 2	e 8	58	PP
Chapel Hill	39.2	270	i 7	34	+ 3	—	—	—	—	—	—
Moscow	39.3	54	i 7	32	0	13	37	+ 3	—	—	—
Cincinnati	41.0	278	i 7	48	+ 2	—	—	—	i 9	28	PP
Simferopol	41.6	71	7	52	+ 1	14	13	+ 5	—	—	—
Chicago	41.6	284	e 7	49	- 2	e 14	5	- 3	i 9	29	PP
Columbia	41.6	269	i 7	51	0	—	—	—	—	—	e 17.5
San Juan	43.2	239	i 8	5	0	e 14	35	+ 3	—	—	e 17.9
Fort de France	43.6	230	e 7	55	-12	e 14	45	+ 8	—	—	—
St. Vincent	45.0	229	e 8	22	+ 4	—	—	—	—	—	—
St. Louis	45.0	281	e 8	18k	- 1	14	57	0	8	30	pP
Florissant	45.0	282	e 8	19	0	14	57	0	10	2	PP
Sotchi	45.7	70	8	26	+ 1	—	—	—	—	—	—
Mobile	48.4	271	8	47	+ 2	15	52	+ 6	10	44	PP
Ksara	48.8	83	i 8	50	+ 1	i 15	56	+ 4	i 10	45	PP
Fayetteville	49.0	281	i 8	38k	-12	—	—	—	e 10	43	PP
Lome	49.2	140	e 8	25?	-27	e 16	7	+ 9	—	—	—
Jerusalem	49.7	86	i 8	57k	+ 2	e 15	54	-10	—	—	—
Tiflis	49.9	69	8	59	+ 2	16	15	+ 8	—	—	—
Rapid City	50.1	295	i 8	58	- 1	i 16	15	+ 5	e 10	55	PP
Sverlovsk	50.5	45	9	2	0	16	18	+ 2	—	—	—
Makhach-Kala	50.8	66	9	5	+ 1	16	25	+ 5	—	—	—
Goris	52.1	71	9	14	0	16	50	+12	—	—	—
Banff	53.1	308	e 9	18k	- 3	—	—	—	—	—	—
Boulder	53.7	292	e 9	25	- 1	—	—	—	—	—	—
Hungry Horse	53.9	304	i 9	26	- 1	—	—	—	—	—	—
Butte	54.4	302	i 9	31	0	i 11	44	PP	i 10	15	PcP
Merida	56.0	263	e 9	43k	+ 1	e 17	34	+ 5	—	—	e 30.4
Salt Lake City	57.2	296	e 9	50	- 1	e 17	48	+ 2	i 12	3	PP
College	57.4	334	i 9	52	- 1	e 17	51	+ 2	e 11	50	PP
Balboa Heights	58.6	245	i 10	2	+ 1	i 18	4	0	—	—	—
Tiksi	58.7	8	10	1	- 1	—	—	—	—	—	—
Bogota	58.9	237	e 10	3	0	i 18	3	- 5	i 10	21	?
Chinchina	59.5	239	i 10	6	- 1	i 18	23	+ 7	—	—	28.4
Eureka	60.5	297	i 10	14	0	e 18	54	PPS	e 39	42	P'P'
Corvallis	61.2	306	e 10	19	0	—	—	—	—	—	—
Chihuahua	61.5	282	10	18	- 3	—	—	—	—	—	e 33.6
Boulder City	62.1	294	i 10	24	- 1	e 19	2	+13	e 19	7	PS
Tucson	62.1	288	i 10	24	- 1	i 18	59	+10	i 12	34	PP
Reno	62.6	300	e 10	29	+ 1	—	—	—	—	—	—
Mineral	63.1	301	i 10	30k	- 2	—	—	—	—	—	—
Shasta	63.3	302	e 10	31	- 2	—	—	—	—	—	—
Tacubaya	63.4	269	e 10	33	0	e 18	48	-17	e 11	13	PcP
Semipalatinsk	63.6	43	10	35	0	19	13	+ 5	—	—	—
China Lake	63.8	295	i 10	37a	+ 1	—	—	—	e 13	4	PP
Hayfield	64.1	292	e 10	44	+ 6	—	—	—	—	—	—
Fresno	64.5	297	i 10	41k	0	—	—	—	—	—	—
Woody	64.7	296	i 10	41	- 1	—	—	—	i 11	42	?
Ukiah	64.9	301	e 10	44	+ 1	—	—	—	—	—	e 32.6
Riverside	65.0	294	e 10	43	- 1	—	—	—	e 13	7	PP
Palomar	65.1	293	i 10	46	+ 2	—	—	—	—	—	—
Berkeley	65.2	300	e 10	45	0	e 19	33	+ 5	e 23	37	SS
Lick	65.2	299	e 10	50k	+ 5	—	—	—	—	—	—
Pasadena	65.3	294	i 10	45a	- 1	i 19	27	- 2	i 13	7	PP
Santa Clara	65.4	299	e 10	23	-23	e 18	44	-46	—	—	—
Barratt	65.4	292	i 10	46	- 1	e 19	35	+ 4	e 14	46	PPP
King Ranch	65.4	296	e 10	44	- 3	—	—	—	—	—	—
Namangan	66.0	55	10	51	+ 1	e 19	42	+ 4	—	—	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Frunse	66.2	52	10 52	0	—	—	—	—
Lwiro	70.6	118	e 11 18	- 1	—	—	e 12 47	?
Quetta	70.9	66	e 11 21k	0	e 20 38	+ 1	e 11 42	PcP
Astrida	71.4	117	e 11 23k	- 1	—	—	e 13 48	PP
Irkutsk	71.4	29	11 24	0	—	—	—	—
Huancayo	73.6	229	i 11 37k	0	e 21 5	- 2	e 14 33	PP
La Paz	74.2	220	i 11 41a	+ 1	i 21 16	+ 2	i 14 30	PP
Dehra Dun	77.3	58	e 11 56	- 2	i 21 55	+ 7	—	—
New Delhi	N. 78.2	60	e 12 4	+ 1	e 21 58	+ 1	14 54	PP
Petropavlovsk	78.2	356	12 2	- 1	—	—	—	—
Bombay	82.8	70	e 12 29	+ 2	e 22 51	+ 5	15 40	PP
Poona	83.8	69	i 12 33	+ 1	e 23 2	+ 7	—	—
Changchun	84.8	19	e 12 37	0	—	—	—	—
Peking	86.0	27	e 12 45	+ 2	23 23	+ 6	—	—
Hyderabad	E. 87.4	66	—	—	e 23 20	-10	—	—
Shillong	88.5	52	i 12 56k	0	i 23 54	+13	16 36	PP
Pretoria	Z. 89.6	132	e 13 1	0	—	—	—	—
Santa Lucia	Z. 90.4	214	e 13 3	- 1	—	—	—	—
Kimberley	Z. 90.5	136	i 12 57a	- 8	—	—	—	—
Pietermaritzburg	Z. 93.9	132	i 13 21a	+ 1	—	—	—	—
Matusiro	E. 94.1	11	17 46	PP	e 25 45	PS	35 29	PcP,P'
Nanking	94.2	28	e 13 21	- 1	—	—	—	—
Zô-Sè	95.8	26	e 12 42	-47	—	—	—	—
Suva	N. 142.7	316	e 21 44	?	—	—	i 22 52	PP

Dec. 27d. 0h. 14m. 13s. Epicentre 23°·30S. 177°·20W. Depth of focus = 0°028R.

A = -0.9183, B = -0.0448, C = -0.3933; δ = -3; h = +4;
D = -0.049, E = +0.999; G = +0.393, H = +0.019, K = -0.919.

	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Suva	6.6	321	i 1 37	+ 1	—	—	—	—
Apia	10.7	29	e 2 19	-10	e 4 5	-20	—	—
Onerahi	14.4	209	e 3 16	0	e 6 15	+24	—	—
Nouméa	15.1	271	i 3 29	+ 5	i 6 15	+ 9	i 3 45	PP
Auckland	15.2	205	e 3 25	0	6 17	+ 9	e 4 39	?
Karapiro	15.8	202	e 3 33	0	6 28	+ 5	i 3 50	PP
Tongariro	17.0	200	3 44a	- 3	e 6 47	- 2	—	—
New Plymouth	17.4	203	e 3 46	- 5	e 7 1	+ 5	—	—
Wellington	19.2	199	e 4 6	- 3	e 7 27	- 3	e 15 23	ScS
Cobb River	19.6	203	e 4 11	- 3	e 7 41	+ 1	—	—
Kaimata	21.4	204	e 4 32	0	e 8 15	+ 4	e 15 27	ScS
Christchurch	21.9	200	e 4 37	+ 1	e 8 34	+15	—	—
Gebbies Pass	22.0	200	e 4 36	- 2	e 8 24	+ 2	e 15 34	ScS
Brisbane	27.2	255	i 5 27	+ 1	i 10 6	+18	—	—
Riverview	29.6	242	i 5 48a	0	i 10 27	+ 1	i 6 19	PP
Rabaul	Z. 35.2	298	i 6 32a	- 4	i 12 21	+29	i 9 2	PcP
Melbourne	35.4	237	i 6 37	- 1	i 12 0	+ 4	7 26	pP
Honolulu	48.1	24	i 8 17k	- 3	e 14 57	- 4	—	e 19.3
Guam	52.2	311	8 50	- 1	—	—	—	—
Perth	59.1	246	i 9 43	+ 2	i 17 41	+11	10 54	sP
Mirny	68.8	205	i 10 46	+ 3	e 20 32	ScS	e 15 5	PPP
Mera	N. 70.8	324	e 10 55	- 1	e 20 7	+15	—	—
Osima	N. 70.9	323	e 10 54	- 2	e 19 51	- 2	—	—
Manila	71.2	296	i 11 1	+ 3	i 20 41	PS	—	e 26.7
Yokohama	71.3	324	e 10 58	0	e 20 1	+ 4	20 57	ScS
Ajiro	71.3	323	e 10 57	- 2	e 19 58	0	—	—
Tokyo	71.4	324	e 11 0	+ 1	20 6	+ 7	e 13 36	PP
Misima	71.4	323	e 10 59	0	e 19 58	- 1	e 20 54	ScS
Omaesaki	71.5	322	e 10 59	0	e 20 4	+ 5	i 12 28	sP
Mito	71.6	325	e 11 2	+ 2	e 20 3	+ 3	—	—

Continued on next page.

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		Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Kakioka	E.	71.6	325	e 11	1	+ 1	e 20	2	+ 1	—	—	—
Shizuoka		71.6	323	e 11	4	+ 4	e 20	6	+ 5	—	—	—
Onahama		71.8	326	e 10	58	- 3	e 20	7	+ 4	—	—	—
Kumagaya		72.0	324	e 11	7	+ 5	e 20	10	+ 5	—	—	—
Titibu		72.0	324	e 11	1	- 2	i 20	11	+ 5	—	—	—
Utunomiya		72.0	325	e 11	2	- 1	e 20	10	+ 4	e 11 50	pP	—
Kohu		72.0	323	e 11	3	0	e 20	9	+ 3	e 20 25	?	—
Owase		72.2	321	e 11	3	- 1	20	13	+ 5	—	—	—
Shirakawa		72.2	325	e 11	4	0	e 20	10	+ 2	12 12	sP	—
Maebasi		72.3	324	e 11	0	- 5	e 20	15	+ 6	12 10	sP	—
Iida		72.4	323	—	—	—	e 20	16	+ 6	i 21 4	PS	—
Baguio City		72.5	297	i 11	4	- 2	e 20	4	- 7	—	—	—
Tu		72.5	321	e 11	21	+15	—	—	—	—	—	—
Oiwake		72.6	324	e 11	10	+ 4	e 20	14	+ 2	e 12 12	pP	—
Nagoya		72.6	322	e 11	6	0	e 20	17	+ 5	—	—	—
Hokusima		72.6	326	e 11	8	+ 2	e 20	14	+ 2	—	—	e 30.0
Kameyama		72.6	321	e 11	6	0	e 20	10	- 3	e 13 46	PP	e 27.1
Sendai		72.8	327	11	6	- 1	e 20	12	- 2	e 12 14	sP	—
Matumoto	E.	72.8	323	e 11	7	0	e 20	19	+ 4	—	—	—
Gihu		72.9	322	e 11	10	+ 2	e 20	17	+ 2	e 12 15	pP	e 24.1
Matusiro		72.9	324	i 11	5k	- 3	i 20	16	+ 1	11 28	pP	30.8
Nagano	N.	73.0	324	e 11	14	+ 5	e 20	24	+ 7	—	—	—
Osaka		73.0	321	e 11	13	+ 4	e 20	21	+ 4	e 12 6	pP	—
Hikone		73.1	322	11	8	- 1	20	22	+ 5	12 14	pP	—
Kyoto		73.2	321	e 11	8	- 2	20	22	+ 3	e 11 50	pP	e 30.5
Tokusima		73.2	320	e 11	5	- 5	e 20	21	+ 2	—	—	—
Sumoto		73.2	320	e 11	7	- 3	e 20	18	- 1	—	—	e 30.8
Kobe		73.3	320	e 11	14	+ 4	e 20	19	- 1	e 12 23	sP	—
Simidu		73.3	318	e 11	7	- 3	e 20	22	+ 2	e 12 10	pP	e 28.0
Takada		73.3	324	e 11	16	+ 6	e 20	28	+ 8	—	—	—
Yakusima		73.3	314	e 11	10	0	20	28	+ 8	—	—	—
Miyako		73.3	328	e 11	11	+ 1	—	—	—	—	—	—
Mizusawa		73.3	327	11	9	- 1	e 20	7	-13	—	—	—
Koti		73.5	319	e 11	11	0	e 20	8	-14	e 12 11	pP	30.7
Niigata		73.5	325	e 11	17	+ 6	e 20	43	+21	—	—	—
Toyama		73.6	323	e 10	54	-18	e 20	28	+ 5	—	—	—
Miyazaki		73.7	316	11	12	0	20	31	+ 7	—	—	—
Takamatu		73.7	320	e 11	10	- 3	e 20	28	+ 4	e 20 59	ScS	—
Morioka		73.7	328	e 11	9	- 4	e 20	25	0	e 21 9	PS	e 27.6
Sakata		73.8	326	—	—	—	e 21	39	PS	—	—	—
Aikawa		74.0	325	e 11	9	- 5	e 20	34	+ 7	—	—	—
Kagosima		74.0	315	e 11	15	+ 1	e 20	33	+ 5	—	—	—
Toyooka		74.1	321	e 11	12	- 3	e 20	34	+ 5	e 12 16	pP	—
Matuyama	E.	74.1	318	e 11	11	- 4	e 20	27	- 2	e 12 20	sP	—
Akita	E.	74.3	327	11	30	+14	—	—	—	—	—	—
Ooita		74.4	317	e 11	13 ^a	- 4	i 20	34	+ 2	i 12 33	sP	—
Asosan		74.5	317	e 11	17	0	—	—	—	—	—	—
Nemuro		74.6	333	e 11	17	- 1	e 20	35	0	e 21 7	SP	—
Hirosima		74.7	319	e 11	15 ^a	- 3	e 20	31	- 4	—	—	—
Kumamoto		74.7	316	e 11	15	- 4	e 20	39	+ 3	—	—	—
Aomori		74.8	328	e 11	13	- 6	e 21	9	PS	—	—	—
Kusiro		74.8	332	11	11	- 8	e 20	39	+ 2	12 1	pP	—
Urakawa		74.9	330	e 11	22	+ 3	e 20	30	- 8	—	—	—
Nagasaki	E.	75.2	316	e 11	20	- 1	e 20	46	+ 5	e 12 29	pP	—
Saga		75.3	317	e 11	27	+ 5	—	—	—	i 14 12	PP	—
Hamada		75.3	319	e 11	22	0	e 20	23	-19	e 31 23	?	—
Obihiro	N.	75.3	331	e 11	25	+ 3	—	—	—	—	—	—
Hsinkong		75.4	303	11	18	- 4	—	—	—	—	—	—
Tawu		75.4	302	11	24	+ 2	—	—	—	—	—	—
Hukuoka		75.4	317	e 11	21	- 1	e 20	34	- 9	e 12 29	pP	—
Hakodate	N.	75.6	329	e 11	26	+ 3	—	—	—	e 12 36	sP	—
Abashiri		75.7	332	e 11	28	+ 4	e 20	53	+ 6	—	—	—
Tomakomai		75.7	330	e 11	26	+ 2	—	—	—	—	—	—
Tomie		75.8	315	e 11	23	- 2	e 20	41	- 7	—	—	e 31.1
Muroran		75.9	329	e 11	20	- 5	—	—	—	—	—	—

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Mori		75.9	329	e 11 30	+ 5	e 21 5	+17	12 39	sP	—
Alishan		76.1	303	e 11 7	-18	e 20 16	-32	—	—	—
Sapporo		76.3	330	e 11 24 _a	- 3	e 20 56	+ 3	i 11 49	pP	e 31.0
Wakkanai	N.	78.0	332	—	—	e 21 20	+ 8	—	—	—
Yuzno-Sakhlinsk		78.7	333	i 11 39	- 2	e 21 21	+ 2	i 12 39	pP	—
Petropavlovsk		79.0	346	i 11 38	- 4	i 21 19	- 2	i 11 43	PcP	—
Santa Clara		79.6	42	e 11 55	+10	e 21 38	+10	—	—	—
King Ranch	z.	79.8	44	i 11 45	- 1	e 21 48	+18	e 38 37	P'P'	—
Berkeley		79.8	41	i 11 45 _k	- 1	i 21 34	+ 4	i 13 5	pP	e 33.1
Lick		79.8	42	i 11 45 _k	- 1	—	—	e 38 43	P'P'	—
Ukiah		80.0	40	i 11 48 _k	0	e 21 42	+10	i 13 9	pP	e 33.0
Zô-Sê		80.0	310	i 11 45 _a	- 3	21 33	0	i 14 53	PP	—
Pasadena		80.1	46	i 11 45 _k	- 3	i 21 38	+ 5	i 12 41	pP	e 37.8
Barratt		80.2	48	i 11 46 _k	- 3	i 21 47	+13	i 12 49	pP	—
Palomar	z.	80.5	48	i 11 49 _k	- 1	—	—	12 34	?	—
Riverside		80.5	47	i 11 49	- 1	i 21 44	+ 7	i 15 0	PP	—
Woody		80.6	45	i 11 48 _k	- 2	i 21 46	+ 8	15 16	PP	—
Fresno		80.6	43	e 11 49 _k	- 2	e 21 47	+ 9	i 11 53	PcP	—
Hong Kong		80.7	299	11 51 _a	0	e 21 47 _?	+ 8	—	—	—
Arcata		80.7	38	e 11 52	+ 1	e 21 48	+ 9	—	—	—
China Lake	z.	81.4	45	i 11 53 _k	- 2	e 21 49	+ 2	i 15 12	PP	—
Hayfield	N.	81.5	48	i 11 56	+ 1	i 21 57	+ 9	i 15 21	PP	—
Shasta		81.5	39	i 11 54 _k	- 1	e 21 56	+ 8	e 38 38	P'P'	—
Mineral		81.8	40	i 11 56 _k	- 1	—	—	e 38 16	P'P'	—
Tinemaha	z.	81.8	44	i 11 56 _k	- 1	e 21 51	+ 1	i 12 55	pP	—
Canton		81.8	299	11 57 _a	0	21 48	- 2	13 14	sP	—
Nanking		82.3	310	i 11 59 _a	0	21 56	+ 1	i 13 12	sP	—
Reno		82.3	41	e 11 58	- 1	e 22 5	+ 9	i 12 2	PcP	—
Manzanillo		82.6	66	e 13 20	sP	e 21 58	- 1	e 23 22	PS	—
Mazatlan		82.9	61	e 12 10	+ 8	e 21 57	- 4	i 15 35	PP	—
Boulder City		83.4	46	i 12 3 _k	- 2	i 22 12	+ 6	i 13 10	pP	e 30.2
Corvallis		83.6	36	i 12 3 _k	- 3	—	—	i 15 46	PP	—
Tucson		84.1	51	i 12 8 _k	0	i 22 17	+ 4	e 13 27	pP	e 35.1
Guadalajara		84.2	65	e 12 17	+ 8	e 22 11	- 4	e 23 47	PS	—
Dairen		84.3	317	e 12 11	+ 2	—	—	—	—	—
Eureka		84.6	43	i 12 9 _k	- 2	i 22 22	+ 3	e 30 7	PKKP	—
Changchun		85.0	322	i 12 12 _a	- 1	e 22 14	[0]	22 19	S	—
Chihuahua		85.8	56	e 12 26 _k	+ 9	e 22 35	+ 5	i 12 47	?	—
Suihwa		85.9	325	e 12 19	+ 1	—	—	—	—	—
Seattle		86.1	34	i 12 20	+ 2	i 22 42	+ 9	i 13 19	pP	—
Victoria		86.1	32	i 12 17 _k	- 2	22 27	- 6	15 36	PP	—
Magadan		86.6	344	i 12 19	- 2	i 22 26	[+ 2]	i 12 24	PcP	—
Horseshoe Bay		86.8	32	e 12 21 _a	- 1	i 22 30	- 9	i 24 26	PPS	—
Tacubaya		87.1	68	i 12 27 _k	+ 4	22 28	[+ 1]	e 13 28	pP	e 41.6
Sitka		87.4	21	i 12 25	0	i 22 32	[+ 3]	i 16 13	PP	e 37.3
Puebla		87.8	68	12 41	+14	e 22 55	+ 7	e 13 42	pP	—
Salt Lake City		88.0	44	e 12 21 _k	- 6	e 22 44	- 6	13 50	sP	—
Oaxaca		88.2	7	e 12 38	+10	e 22 42	-10	e 24 30	PS	41.9
Peking		88.4	315	i 12 28	- 1	22 36	[+ 1]	i 16 9	PP	—
Kwanting		88.9	315	e 12 37	+ 6	—	—	—	—	—
Taiyuan		89.6	312	e 12 36	+ 1	—	—	—	—	—
Vera Cruz		89.6	69	i 12 42	+ 7	i 22 42	[- 1]	i 13 47	pP	i 37.5
Santa Lucia		90.2	127	i 12 38	0	22 57	[+ 11]	16 23	PP	—
Butte	N.	90.4	39	i 12 38 _a	- 1	i 22 53	[+ 5]	i 13 50	pP	e 36.5
Sian		90.5	307	e 12 44	+ 5	23 22	+ 9	—	—	—
College		90.8	12	i 12 38 _a	- 2	i 23 19	+ 4	i 13 53	pP	39.5
Hungry Horse		90.9	36	i 12 40 _a	- 1	22 54	[+ 3]	e 13 50	pP	—
Bozeman		91.1	40	e 12 44	+ 2	e 22 58	[+ 6]	e 24 54	PS	e 36.1
Lubbock		91.3	54	e 12 41	- 2	e 22 47	[- 7]	e 16 21	PP	—
Banff		91.8	34	i 12 42	- 3	—	—	—	—	—
Boulder		91.9	47	i 12 45	- 1	—	—	—	—	—
Comitan		91.9	73	e 12 57	+11	e 23 39	+13	e 14 10	sP	—
Paotow		92.7	313	e 12 54	+ 5	—	—	—	—	—
Yinchuan		94.3	310	e 13 4	+ 7	—	—	—	—	—
Antofagasta		95.0	118	12 36	-24	23 24	[+ 10]	e 14 17	sP	—

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Rapid City	E.	95.2	44	i 13 0 _a	- 1	i 23 13	[- 2]	i 14 22	pP	—
Huancayo		95.9	106	e 13 6	+ 2	e 23 20	[+ 1]	e 38 41	P'P'	—
Merida		96.0	70	13 16	+12	i 23 14	[+ 5]	e 25 23	SP	—
Saskatoon		97.0	36	—	—	i 23 22	[- 3]	i 24 12	S	—
Fayetteville		98.0	54	e 13 13	- 1	23 13	[-17]	e 17 16	PP	—
La Paz		100.2	113	13 27	+ 4	i 23 37	[- 3]	i 14 27	pP	42.3
Balboa Heights		100.5	85	i 14 17	+52	i 18 59	?	—	—	—
Shillong	Z.	100.5	293	i 13 24	- 1	23 39	[- 3]	17 14	PP	—
Irkutsk		101.4	322	e 13 26	- 3	i 23 54	[+ 8]	31 57	SS	—
Tiksi		101.6	345	e 13 28	- 2	e 23 44	[- 3]	e 14 33	pP	—
Florissant		101.9	53	e 13 36	+ 5	e 23 47	[- 1]	e 14 41	pP	—
Chinchina		102.6	90	13 56	+22	i 23 58	[+ 6]	i 25 59	PS	49.8
Bogota		103.9	91	e 14 22	+42	i 24 3	[+ 5]	i 27 20	PS	49.8
Colombo	E.	104.5	271	13 13	-30	24 8	[+ 8]	18 6	PP	54.0
Chicago		104.8	51	e 17 1	PP	e 24 5	[+ 3]	e 25 17	S	e 43.8
Chatra	Z.	104.9	293	e 13 44	0	—	—	—	—	—
Bokaro		105.1	290	16 16	?	e 24 7	[+ 4]	—	—	—
Madras	E.	106.5	277	e 17 5	?	27 41	PS	18 14	PP	—
Kodaikanal	E.	108.0	274	e 14 1	P	e 24 28	[+14]	—	—	—
Hyderabad	E.	109.6	281	e 14 6	P	e 24 24	[+ 4]	18 45	PP	—
Chapel Hill		109.6	58	e 14 33	P	—	—	—	—	—
Resolute		110.3	16	i 14 9	P	e 24 27	[+ 2]	e 18 45	PP	—
Kirkland Lake		111.6	46	e 18 16	[+ 7]	—	—	e 18 51	PP	—
Pennsylvania		111.7	54	i 19 9	PP	e 28 13	SP	e 34 25	SS	—
Washington		111.8	56	e 18 51	PP	i 28 14	SP	i 19 49	pPP	—
Dehra Dun		113.6	294	18 2	[-11]	28 38	PS	21 14	PPP	—
New Delhi		113.9	292	18 42	[+28]	24 49	[+ 9]	29 23	PKKP	—
Poona		114.0	281	e 17 54	[-20]	24 37	[- 3]	28 46	PS	—
Ottawa		114.1	49	e 18 15 _k	[+ 1]	23 52	[-48]	19 12	PP	—
Fordham		114.6	54	e 18 24	[+ 9]	e 24 50	[+ 7]	e 19 18	PP	—
Palisades		114.6	54	i 18 22	[+ 7]	i 24 47	[+ 4]	i 28 57	PS	e 54.0
Bombay	E.	115.1	281	16 16	[-120]	i 24 52	[+ 8]	22 58	?	—
Brébeuf		115.6	49	i 18 17	[+ 0]	—	—	—	—	—
San Juan		115.9	80	i 18 16	[- 2]	e 24 43	[- 4]	i 19 25	PP	e 49.7
Shawinigan Falls		116.3	48	e 18 19 _k	[+ 1]	28 56	PS	19 21	PP	—
Weston		116.8	53	i 18 29	[+10]	i 24 54	[+ 4]	i 28 55	PKKP	—
Frunse		118.6	307	i 18 23	[+ 0]	i 25 5	[+ 8]	i 26 20	SKKS	—
Grahamstown	Z.	119.3	203	i 18 24	[+ 0]	—	—	—	—	—
Fort-de-France		119.4	86	i 18 21	[- 3]	i 29 31	SKSP	e 20 37	PP	—
Tananarive		119.4	230	e 18 28 _a	[+ 3]	e 27 24	S	i 18 59	pP'	—
Bermuda		120.5	65	i 19 57	pPKP	i 25 8	[+ 5]	i 26 35	SKKS	—
Hermanus		120.5	196	i 20 18	PP	i 25 14	[+11]	i 31 35	PPS	—
Pietermaritzburg	Z.	121.1	208	i 18 38	[+10]	—	—	—	—	—
Tashkent		122.4	305	i 18 29	[- 1]	i 25 18	[+ 9]	19 48	pP'	—
Stalinabad		122.5	302	i 18 33	[+ 3]	—	—	—	—	—
Halifax		122.6	51	e 18 29	[- 2]	25 13	[+ 3]	e 20 9	PP	—
Quetta		122.9	292	e 18 32	[+ 1]	e 25 8	[- 3]	e 19 44	pP'	—
Kimberley	Z.	124.1	203	i 18 22	[-12]	—	—	—	—	—
Pretoria	Z.	125.4	208	i 18 40 _k	[+ 4]	—	—	—	—	—
Sverdlovsk		126.7	324	i 20 35	PP	i 22 37	PKS	i 27 21	SKKS	—
Scoresby Sund		130.6	11	e 18 47	[+ 1]	i 21 55	SKP	e 20 10	pP'	—
Ashkabad		130.7	301	18 39	[- 7]	i 28 11	SKKKS	i 21 8	pP'	—
Sodankyla		133.5	348	i 18 52	[+ 1]	i 22 25	PKS	i 20 15	pP'	—
Kiruna		134.1	351	i 18 43	[-10]	i 31 28	SP	i 20 16	pP'	—
Reykjavik	Z.	136.0	15	i 19 1 _k	[+ 5]	i 22 31	PKS	i 22 16	SKP	—
Moscow		138.7	331	18 54	[- 7]	e 22 24	PKS	20 8	pP'	—
Skalstugan		139.2	354	i 18 54	[- 8]	i 22 20	SKP	—	—	—
Goris		139.9	304	i 18 56	[- 7]	22 26	PKS	—	—	—
Helsinki		140.0	343	e 22 26	PP	e 22 41	PKS	e 40 5	SS	—
Tiflis		140.6	308	18 58	[- 7]	22 30	PKS	i 22 10	PP	—
Upsala		142.0	348	i 19 2	[- 5]	i 22 29	PP	i 20 27	pP'	—
Astrida		143.2	229	i 19 9	[+ 0]	—	—	i 19 18	PKP ₂	—
Lwiro		144.1	228	i 19 9 _a	[- 2]	—	—	i 19 18	PKP ₂	—
Aberdeen	N.	146.0	5	i 19 20	[+ 6]	i 26 17	[+17]	i 22 39	PP	—
Simferopol		146.6	318	i 19 17 _a	[+ 2]	31 35	PKKS	i 20 36	pP'	—

Continued on next page.

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	Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Copenhagen	146.9	350	i 19 17 ^a	[+ 1]	i 41 27	SS	i 20 45	pP'
Warsaw	147.9	339	e 19 15	[- 2]	e 41 36	SS	e 22 53	PP e 66.8
Durham	148.4	5	i 19 19	[+ 1]	31 20	?	33 32	PS
Lwow	148.7	333	e 19 18	[0]	i 29 57	SKKS	i 20 14	pPKP
Iasi	149.0	326	19 25	[+ 6]	29 33	SKKS	22 53	PP
Ksara	149.2	297	i 19 21	[+ 2]	i 23 3	PP	i 20 41	pP'
Rathfarnham C. z.	149.3	11	i 19 20 ^k	[+ 1]	i 23 13	PP	i 19 45	pP'
Hamburg	149.3	352	i 19 20 ^k	[+ 1]	i 31 16	SKKP	20 19	pPKP
Safed	149.7	296	i 19 24	[+ 4]	—	—	—	—
Bacau	149.7	326	19 27	[+ 7]	21 21	sP'	20 25	pP'
Krakow	150.1	338	e 19 21	[+ 1]	e 26 29	[+26]	i 19 28	PKP ₂
Jerusalem	150.1	294	e 19 21	[+ 1]	—	—	i 19 28	PKP ₂
Focsani	150.2	324	19 33	[+13]	e 22 18	SKP	e 21 0	?
Raciborz	150.7	340	e 19 22	[+ 1]	i 22 48	SKP	i 19 29	PKP ₂
Skalnate Pleso	150.7	336	i 19 29	[+ 8]	i 20 2	PKP ₂	i 20 29	pP'
De Bilt	151.2	357	i 19 30 ^a	[+ 8]	e 42 14	SS	e 29 47	SKKS e 70.8
Bucharest	151.6	324	20 31	pPKP	29 47	SKKS	22 55	PP 70.8
Campulung	151.6	326	19 35	[+12]	—	—	—	—
Jena	151.6	348	e 19 23	[0]	e 42 17	SS	i 20 33	pP'
Prague	151.8	344	e 19 23	[0]	e 33 23	PSKS	i 20 23	pP' 60.7
Kew	151.8	4	e 19 22	[- 1]	e 29 11	SKKS	i 20 20	pP'
Cheb	152.2	347	i 19 27	[+ 3]	e 29 5	SKKS	i 20 35	pP' 51.8
Hurbanovo	152.6	337	i 19 45	PKP ₂	e 42 47	SS	e 20 23	pP'
Bratislava	152.7	339	i 19 18	[- 6]	e 42 19	SS	i 20 35	pP'
Timisoara	153.1	331	e 19 37	[+12]	i 29 51	SKKS	e 20 32	pP'
Jersey	153.9	7	e 27 20	PPP	e 43 37	PSS	—	— 77.8
Karlsruhe	154.0	352	e 19 28 ^a	[+ 2]	i 19 51	PKP ₂	i 20 39	pP'
Stuttgart	154.1	350	e 19 27	[+ 1]	e 30 4	SKS	e 20 33	pP'
Belgrade	154.1	330	i 19 34	[+ 8]	e 30 1	SKKS	e 42 56	SS e 68.2
Sofia	154.2	324	19 46	[+20]	—	—	—	—
Tubingen	154.3	350	e 19 37	[+11]	e 19 50	PKP ₂	e 20 32	pP'
Strasbourg	154.5	352	e 19 29 ^a	[+ 2]	e 42 35	SS	e 20 35	pPKP e 73.8
Paris	154.5	0	i 19 28	[+ 1]	e 42 45	SS	i 19 49	PKP ₂
Ebingen z.	154.7	350	e 19 27	[0]	e 19 52	PKP ₂	e 20 33	pP'
Ravensburg z.	155.0	349	e 19 32	[+ 5]	—	—	e 19 57	PKP ₂
Basle	155.5	352	e 19 31	[+ 3]	—	—	—	—
Zürich	155.5	351	19 30	[+ 2]	—	—	e 20 0	?
Besancon	156.0	355	e 19 30	[+ 1]	e 23 30	PP	i 20 33	pPKP
Triest	156.0	341	i 19 32	[+ 3]	i 25 26	[-46]	i 20 47	pP'
Neuchatel	156.1	352	e 19 31	[+ 2]	e 30 14	SKKS	e 23 45	PP
Athens	156.9	314	—	—	e 25 47	[-26]	—	—
Oropa	157.3	350	e 19 32	[+ 2]	e 26 40	[+27]	e 20 9	PKP ₂
Pavia	157.6	348	e 19 35	[+ 4]	e 26 17	[+ 3]	e 20 44	pP'
Clermont-Ferrand	157.6	359	e 19 32	[+ 1]	e 23 50	PP	i 20 40	pPKP
Bologna	157.7	344	e 19 35	[+ 4]	e 34 12	PSKS	e 30 23	PcPP'
Prato	158.4	344	e 19 33	[+ 1]	i 30 15	SKKS	—	—
Florence	158.4	343	i 19 30 ^a	[- 2]	i 30 20	SKKS	i 20 28	pP' e 74.8
Taranto	159.0	328	19 7	[-25]	—	—	—	—
Monaco	159.3	350	e 19 33	[0]	e 26 2	[-13]	e 20 32	pPKP
M'Bour	159.3	112	i 19 38	[+ 5]	i 26 38	[+23]	i 20 50	pPKP
Rome	159.8	339	i 19 32 ^a	[- 1]	i 30 32	SKKS	i 20 36	pP' 68.8
Lisbon	161.6	31	e 19 29	[- 6]	23 0	PKS	e 24 5	PP 62.3
Messina	161.6	327	e 19 27	[- 8]	i 25 38	[-40]	i 20 36	pP'
Reggio Calabria	161.6	326	e 19 35	[0]	e 36 56	SPP	e 20 25	PKP ₂ 78.8
T'ledo	162.5	18	i 19 38	[+ 2]	24 14	PP	i 20 27	pP'
Alicante	164.7	10	19 25	[-13]	25 50	[-30]	24 14	PP e 78.2
Granada	165.1	20	i 19 40 ^k	[+ 1]	25 50	[-30]	20 54	pP' i 82.4
Tunis	165.1	336	e 19 59	[+20]	e 44 35	SS	e 21 7	pPKP
Malaga	165.2	23	i 19 36 ^k	[- 3]	i 24 14	PP	20 36	PKP ₂ 82.3
Almeria	165.8	17	i 19 41	[+ 2]	i 25 59	[-21]	i 24 34	PP
Algiers Univ. z.	166.6	359	e 19 39	[- 1]	e 24 34	PP	i 20 44	pP'
Relizane	167.4	8	e 19 42	[+ 2]	e 24 40	PP	e 21 38	PKP ₂
Tamanrasset z.	177.4	259	i 19 47 ^a	[+ 2]	e 25 25	PP	e 21 6	sPKP

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Dec. 28d. 14h. 24m. 33s. Epicentre 38°-30S. 177°-49E. Focus at Base of Superficial Layers.

The consistently greater pP - P interval recorded by stations than should be found for a focus of this depth suggests a double shock. Accordingly an aftershock has been worked using readings which fit this hypothesis some of which have been attributed to the main shock.

$$A = -0.7860, B = +0.0345, C = -0.6172; \quad \delta = -8; \quad h = -1;$$

$$D = +0.044, E = +0.999; \quad G = +0.617, H = -0.027, K = -0.787.$$

		Δ		Az.		P.		O - C.	S.		O - C.	Supp.		L.
		°	'	°	'	m.	s.	s.	m.	s.	s.	m.	s.	m.
Karapiro	N.	1.6	283	e 0	26			0	0	54	+ 8			
Tongariro	Z.	1.8	239	i 0	30			+ 1						
Onerahi	E.	3.6	314	e 0	53			- 1						
Wellington	N.	3.6	214	e 0	54			- 1	1	42	+ 4			
Cobb River	E.	4.6	231	e 1	8			- 1	2	7	+ 5			
Gebbies Pass	N.	6.5	213	e 1	31			- 5	2	44	- 6			
Nouméa		18.6	326	i 4	17			+ 1	i 7	41	+ 2	i 8	43	PcP i 10.3
Riverview		21.7	274	i 4	55 _a			+ 5	i 9	4	+20	i 5	35	PPP e 10.8
Brisbane		23.1	291	i 5	8			+ 4	i 9	50	SS			
Melbourne		25.5	261	i 5	28			0	i 10	32	+41	i 6	9	pP
Apia		26.2	24	e 5	39			+ 5						e 11.4
Rabaul		41.0	320	i 7	42			0	e 13	44	PS	8	22	pP
Perth		50.0	258	i 8	58			+ 4	16	21	+20	i 9	32	pP i 24.3
Hawaii, Vol. Obs.		62.9	29	e 10	22			- 3						
Djakarta		71.0	277	11	15 _k			- 2	17	18	PP			
Baguio City		76.2	304	i 11	37			-10						
Matusiro		82.8	329	i 12	21			- 2	23	16	+38	16	10	PP e 39.2
Hong Kong		84.6	304	e 13	14 _?			+42	23	27	+32			
Santa Lucia		84.6	129	i 12	33			+ 1	23	42	PS	e 13	11	pP
Zô-Sè		86.7	314	i 13	20 _a			+38						
Nanking		88.8	314	e 12	53			+ 1						
Barratt		93.4	50	i 13	14 _a			0	i 24	30	+13	i 13	53	pP
King Ranch		93.5	47	e 13	15 _a			+ 1				i 13	53	pP
Pasadena		93.6	48	e 13	14 _a			0	i 23	54	-24	i 13	52	pP i 40.2
Santa Clara		93.7	44						e 25	13	+54			
Palomar	Z.	93.8	50	i 13	17 _a			+ 2				i 13	55	pP
Lick		93.9	44	e 13	16 _a			0				i 13	54	pP
Berkeley		93.9	44	e 13	16 _a			0	i 24	32	+11	e 13	53	pP e 46.6
Riverside		93.9	49	i 13	15 _a			- 1	i 24	33	+12	i 13	54	pP
Woody		94.3	47	i 13	17 _a			0	i 17	5	PP	i 13	55	pP
Ukiah		94.3	42	e 13	18			0	e 17	38	PP	i 13	55	pP e 40.8
Changchun		94.4	325	e 13	54			+36						
Isabella		94.5	47	i 13	16 _a			- 2	e 16	57	PP	i 13	56	pP
Fresno		94.5	46	e 13	19 _a			+ 1	e 17	44	PP	e 13	55	pP
Hayfield	N.	94.8	50	e 13	25			+ 5	e 24	39	+10	e 14	2	pP
China Lake		95.1	48	i 13	21 _a			0	i 17	10	PP	i 13	59	pP
Huancayo		95.7	110	e 13	27			+ 3	e 24	36	0	e 14	4	pP e 39.6
Shasta		95.9	42	i 13	24			- 1	17	55	PP	e 14	3	pP
Peking		96.1	317	e 14	3			+37						
Mineral		96.1	42	e 13	25 _a			- 1	e 17	16	PP	e 14	3	pP
Reno		96.4	44	e 13	27 _a			0				e 14	4	pP
Tacubaya		96.7	71	e 18	13			PP				e 21	23	?
Tucson		96.8	54	e 13	30			+ 1	e 24	47	+ 1	i 14	7	pP e 34.0
Boulder City		96.8	49	e 13	29			0	e 17	22	PP	i 14	5	pP
La Paz		97.9	118	e 13	51			+17	i 26	30	PS	i 31	11	SS 41.4
Corvallis		98.3	38	e 14	13			pP				e 18	13	PP
Eureka		98.5	46	i 13	36			- 1	e 17	22	PP	i 14	14	pP
Shillong	Z.	102.2	293	e 13	51			- 2						
Madras	E.	103.6	276	e 18	57			PP						e 45.2
Butte	N.	104.8	43	e 18	25			PP				19	2	pPP
Hungry Horse		105.5	40	e 17	58			[-21]				e 18	28	PP
Chinchina		106.3	97	e 19	15			?	i 25	29	SKKS			
College		106.4	15	e 18	8			[-13]	e 25	23	SKKS	e 14	49	P e 45.1
Bogota		107.3	98	e 19	24			PP	i 25	39	SKKS			54.4
Kimberley	Z.	108.6	205	18	41			PP						

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	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Bombay	112.8	277	e 18 57	[+23]	27 42	S	e 23 27	?	—
Florissant	114.1	59	e 27 40	?	—	—	31 28	?	—
Dehra Dun	114.9	290	e 20 20	?	27 59	S	—	—	—
Chapel Hill	120.6	66	e 19 29	[+40]	—	—	i 20 54	?	—
Frunse	123.2	301	e 18 53	[0]	—	—	—	—	—
Quetta	123.2	284	e 18 54	[0]	e 25 42	[-10]	e 19 32	pP'	—
Buffalo (Larkin)	123.8	59	e 18 51	[- 4]	—	—	—	—	—
Namangan	124.4	298	—	—	—	—	e 22 19	PKS	—
Kirkland Lake	124.9	53	e 18 56 _a	[- 1]	—	—	i 19 35	pP'	—
Resolute	125.9	19	i 18 56 _a	[- 3]	e 30 55	SP	i 19 35	pP'	e 64.8
Palisades	126.4	63	i 19 1	[+ 1]	e 37 47	SS	i 19 39	pP'	e 63.3
Ottawa	126.7	57	i 19 0 _a	[- 1]	22 56	PKS	19 38	pP'	—
Brébeuf	128.2	58	i 19 3	[- 1]	i 23 2	PKS	i 19 42	pP'	—
Weston	128.7	62	—	—	i 23 3	PKS	—	—	—
Shawinigan Falls	129.1	57	e 19 4 _a	[- 1]	23 2	PKS	19 43	pP'	—
Astrida	129.6	224	e 19 8	[+ 2]	—	—	19 46	pP'	—
Bermuda	129.8	77	i 21 47	PP	i 26 57	[+46]	i 22 59	PKS	e 57.6
Lwiro	130.4	223	e 19 9	[+ 1]	—	—	e 19 48	pP'	—
Seven Falls	130.5	57	e 19 10 _a ?	[+ 2]	37 44?	?	21 12?	PP	—
Sverdlovsk	135.3	317	e 19 17	[0]	—	—	—	—	—
Tiflis	144.0	291	i 19 30	[- 2]	e 29 37	SKKS	—	—	—
Scoresby Sund	146.2	12	i 19 36	[0]	—	—	i 20 15	pP'	70.4
Sodankyla	146.6	340	i 19 36	[- 1]	—	—	i 20 14	pP'	—
Kiruna	147.8	344	i 19 39	[0]	—	—	i 20 17	pP'	—
Sotchi	147.9	294	—	—	—	—	e 22 16	PKS	—
Moscow	148.1	317	e 19 39	[0]	—	—	—	—	—
Jerusalem	148.6	270	i 19 44	[+ 4]	—	—	i 20 23	pP'	—
Ksara	148.8	274	i 19 45	[+ 4]	i 23 37	PP	i 20 23	pP'	71.4
Safed	148.8	272	i 19 45	[+ 4]	—	—	—	—	—
Reykjavik	z. 151.7	18	i 21 30 _k	?	—	—	—	—	—
Simferopol	152.0	297	e 19 51	[+ 6]	—	—	—	—	—
Skalstugan	153.2	345	i 19 52	[+ 5]	—	—	i 20 34	pP'	—
Upsala	154.9	336	e 20 11	[+22]	—	—	i 20 50	pP'	—
Raciborz	z. 161.1	315	e 19 15	[-42]	—	—	—	—	—
Bratislava	162.7	311	i 19 47	[-12]	e 30 22	?	i 20 36	pP'	—
Tamanrasset	z. 163.1	206	e 19 59	[0]	—	—	e 20 37	pP'	—
Prague	E. 163.1	320	i 19 35	[-24]	—	—	—	—	—
Jena	z. 163.9	326	e 19 57	[- 3]	e 24 42	PP	e 20 36	pP'	—
Rathfarnham C.	z. 164.8	9	i 19 11	[-50]	—	—	e 21 29	PKP ₂	—
Triest	z. 165.9	306	i 20 36	[+34]	e 27 34	[+33]	i 24 46	PP	—
Stuttgart	z. 166.5	325	e 20 0	[- 2]	—	—	e 20 37	pP'	—
Kew	166.7	354	—	—	e 52 27	SSS	—	—	e 85.4
Ebingen	z. 167.1	323	e 20 0	[- 2]	—	—	—	—	—
Rome	168.0	292	21 14	PKP ₂	32 20	SKKS	—	—	—
Florence	168.3	302	e 20 39 _a	[+36]	e 32 31	SKKKS	e 21 55	PKP ₂	e 82.4
Paris	168.9	343	e 19 58	[- 6]	—	—	e 20 35	pP'	e 85.4
Algiers Univ.	z. 175.3	253	e 20 7	[0]	e 25 36	PP	e 20 45	pP'	—
Relizane	176.5	225	e 20 7	[0]	e 26 3	PP	e 20 46	pP'	—
Malaga	177.8	136	i 20 46 _k	[+39]	—	—	i 22 36	PKP ₂	83.4
Alicante	178.4	272	19 57	[-10]	26 36	[-29]	33 23	SKKKS	e 81.4
Almeria	178.6	181	i 20 45	[+38]	27 46	[+41]	i 22 40	PKP ₂	e 89.8
Granada	178.6	142	20 39	[+32]	47 44	SS	26 14	PP	89.8

Dec. 28d. 14h. 25m. 12s. Epicentre 38°-30S. 177°-49E. Focus at Base of Superficial Layers. (as at 14h. 24m. 33s.).

	Δ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Nouméa	18.6	326	i 4 16	- 1	i 7 39	- 1	i 4 27	PP	i 9.6
Riverview	21.7	274	i 4 56	+ 6	i 9 11	SS	—	—	e 10.2
Brisbane	23.1	291	—	—	i 9 11	+ 2	—	—	—
Melbourne	25.5	261	i 5 30	+ 3	i 9 53	+ 3	i 10 52	SS	—
Apia	26.2	24	e 5 36	+ 3	e 10 20	+19	—	—	—

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		Δ	Az	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Rabaul	z.	41.0	320	i 7 43	+ 1	i 13 52	+ 1	—	—
Perth		50.0	258	i 8 53	0	e 15 42	-18	—	—
Matusiro		82.8	329	i 12 20	- 2	22 37	0	15 30	PP
Hong Kong		84.6	304	e 12 35?	+ 4	—	—	—	—
Santa Lucia		84.6	129	e 12 32	+ 1	e 23 3	+ 8	—	—
Canton		85.7	304	12 37	0	—	—	—	—
Zô-Sè		86.7	314	i 12 41 ^a	- 1	—	—	—	—
Yuzno-Sakhlinsk		90.4	336	e 12 57	- 2	e 23 57	+ 8	—	—
Petropavlovsk		92.5	348	e 13 6	- 3	e 24 4	- 4	—	—
Barratt		93.4	50	i 13 14	+ 1	—	—	e 17 3	PP
King Ranch		93.5	47	i 13 14	0	—	—	e 16 58	PP
Pasadena		93.6	48	i 13 13	- 1	—	—	e 16 58	PP
Santa Clara	E.	93.7	44	—	—	e 24 34	+16	—	—
Palomar		93.8	50	i 13 16	+ 1	—	—	i 17 7	PP
Berkeley		93.9	44	e 13 14 ^k	- 1	e 24 32	+12	e 17 2	PP
Lick		93.9	44	i 13 15 ^k	0	—	—	—	—
Riverside		93.9	49	i 13 15	0	i 24 27	+ 7	e 17 0	PP
Ukiah		94.3	42	i 13 16	- 1	—	—	e 16 59	PP
Woody		94.3	47	i 13 16	- 1	—	—	i 17 3	PP
Changechun		94.4	325	e 13 15	- 3	—	—	—	—
Fresno		94.5	46	e 13 16	- 2	—	—	e 17 5	PP
Isabella		94.5	47	i 13 17	- 1	—	—	e 17 5	PP
Hayfield	N.	94.8	50	e 13 23	+ 3	—	—	—	—
China Lake		95.1	48	i 13 20	- 1	—	—	i 17 11	PP
Huancayo		95.7	110	e 13 25	+ 1	—	—	—	—
Shasta		95.9	42	e 13 24	0	—	—	e 17 16	PP
Mineral		96.1	42	e 13 24 ^k	- 1	—	—	—	—
Peking		96.1	317	e 13 24	- 1	—	—	—	—
Reno		96.4	44	e 13 25 ^k	- 2	—	—	—	—
Tacubaya		96.7	71	e 17 34	PP	—	—	—	—
Boulder City		96.8	49	i 13 26	- 3	—	—	e 17 21	PP
Tucson		96.8	54	i 13 28	- 1	i 24 8	[+ 6]	i 17 21	PP
La Paz		97.9	118	i 17 53	PP	i 24 16	[+ 9]	i 26 57	PPS
Corvallis		98.3	38	e 13 34	- 1	—	—	e 17 34	PP
Eureka		98.5	46	i 13 35	- 1	—	—	i 17 34	PP
Victoria		101.1	36	e 17 56	PP	24 29	[+ 6]	—	e 49.8
Lubbock		103.5	58	e 18 22	PP	—	—	—	—
Madras	E.	103.6	276	e 18 18	PP	—	—	—	—
Butte		104.8	43	i 18 23	PP	—	—	—	—
Hungry Horse		105.5	40	e 18 28	PP	—	—	—	—
Chinchina		106.3	97	e 18 36	PP	i 24 50	[+ 3]	—	—
College		106.4	15	—	—	e 24 44	[- 3]	e 38 0	SSS
Bogota		107.3	98	i 18 45	PP	i 25 0	[+ 9]	—	53.8
Florissant		114.1	59	—	—	e 30 49	PPS	—	—
Dehra Dun		114.9	290	e 19 41	PP	—	—	—	—
Tiksi Bay		114.9	345	e 19 32	PP	—	—	—	—
Chapel Hill		120.6	66	e 18 50	[+ 2]	—	—	i 20 15	PP
Frunse		123.2	301	e 18 52	[- 1]	—	—	—	—
Quetta		123.2	284	e 18 53	[- 1]	25 55	[+ 4]	20 39	PP
Namangan		124.4	298	e 19 16	pPKP	—	—	—	—
Kirkland Lake		124.9	53	i 18 56 ^a	[- 1]	—	—	—	—
Resolute		125.9	19	i 18 56 ^a	[- 3]	—	—	—	e 64.1
Palisades		126.4	63	i 19 0	[0]	i 27 55	SKKS	—	—
Ottawa		126.7	57	i 18 59	[- 1]	38 20	SS	43 28	SSS
Brébeuf		128.2	58	i 19 3	[0]	—	—	—	—
Weston		128.7	62	—	—	e 39 13	SSP	—	e 65.0
Shawinigan Falls		129.1	57	e 19 4 ^a	[- 1]	—	—	21 11	PP
Astrida		129.6	224	e 19 7	[+ 1]	—	—	—	—
Bermuda		129.8	77	—	—	i 26 18	[+ 8]	—	—
Lwiro		130.4	223	e 19 9	[+ 2]	—	—	—	—
Halifax		134.7	62	—	—	22 47	PKS	—	—
Sverdlovsk		135.3	317	e 19 16	[- 1]	—	—	—	—
Scoresby Sund	z.	146.2	12	i 19 36	[0]	—	—	—	—
Sodankyla		146.6	340	i 19 35	[- 2]	—	—	—	—
Kiruna		147.8	344	i 19 38	[- 1]	—	—	—	—

Continued on next page.

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		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Sotchi		147.9	294	e 19 37	[- 2]	—	—	—	—
Moscow		148.1	317	i 19 39	[0]	—	—	—	—
Jerusalem		148.6	270	i 19 44	[+ 4]	—	—	—	—
Ksara		148.8	274	i 19 44	[+ 4]	—	—	—	70.8
Simferopol		152.0	297	e 19 50	[+ 5]	—	—	—	—
Skalstugan		153.2	345	i 19 45	[- 2]	—	—	—	—
Upsala		154.9	336	i 20 11	[+ 22]	—	—	—	—
Kishinev		155.5	301	e 19 39	[- 11]	—	—	e 23 52	PP
Iasi		156.3	302	19 57	[+ 6]	—	—	—	—
Bratislava		162.7	311	i 19 57	[- 1]	—	—	—	—
Tamanrasset	z.	163.1	206	e 19 58	[0]	e 32 0	SKKKS	e 24 31	PP
Jena	z.	163.9	326	e 19 57	[- 2]	—	—	—	—
Reggio Calabria		165.7	275	e 19 59	[- 2]	—	—	e 24 50	PP
Messina		165.8	275	e 19 58	[- 3]	—	—	e 20 58	PKP ₂
Triest		165.9	306	i 19 57	[- 4]	e 26 55	[- 5]	e 20 38	PKP ₂
Stuttgart	z.	166.5	325	e 19 58	[+ 6]	—	—	—	—
Ebingen	z.	167.1	323	e 19 59	[- 3]	—	—	—	84.8
Strasbourg		167.3	327	e 21 8	PKP ₂	—	—	—	—
Rome		168.0	292	21 25	PKP ₂	27 31	[+ 30]	e 25 16	PP
Florence		168.3	302	e 20 0 _a	[- 3]	e 31 52	SKKS	i 25 2	PP e 81.8
Paris		168.9	343	e 19 56	[- 7]	—	—	—	e 84.8
Algiers Univ.	z.	175.3	253	e 20 6	[0]	—	—	e 25 34	PP
Relizane		176.5	225	e 20 7	[+ 1]	—	—	e 25 24	PP
Malaga		177.8	136	i 20 7 _k	[0]	32 31	SKKS	i 25 45	PP 82.8
Toledo	z.	178.0	37	20 8	[+ 1]	—	—	—	—
Alicante		178.4	272	25 57	PP	23 31	PKS	—	—
Almeria		178.6	181	i 20 6	[- 1]	27 7	[+ 3]	i 25 51	PP e 89.1
Granada		178.6	142	20 0	[- 7]	32 57	SKKS	21 59	PKP ₂ 89.2

Dec. 28d. 19h. 21m. 34s. Epicentre 21°·35N. 108°·65W.

A = -0.2981, B = -0.8833, C = +0.3619; $\delta = +5$; h = +4;
D = -0.948, E = +0.320; G = -0.116, H = -0.343, K = -0.932.

		Δ	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Mazatlan		2.8	48	i 0 38	- 8	i 1 14	- 8	—	—
Manzanillo		4.7	119	—	—	i 2 21	+ 12	e 2 51	?
Guadalajara		5.0	97	i 1 20	+ 2	i 2 26	+ 8	—	—
Chihuahua		7.6	17	i 1 43 _k	- 12	e 3 11	- 12	—	e 3.5
Tacubaya		9.1	101	i 2 16 _a	+ 2	—	—	—	i 4.7
Puebla		10.1	101	e 2 36	+ 7	—	—	—	—
Tucson		11.0	350	i 2 44	+ 2	e 5 0	+ 13	e 3 13	? e 5.6
Vera Cruz		11.9	98	i 2 54	0	—	—	—	i 5.9
Oaxaca		12.0	109	e 2 53	- 2	—	—	—	i 6.2
Barratt	z.	13.4	329	i 3 13 _a	0	—	—	i 3 32	PPP e 6.5
Lubbock		13.6	25	i 3 19	+ 3	e 15 51	ScS	e 3 35	PPP e 8.4
Hayfield	n.	13.8	335	e 3 20	+ 1	—	—	i 3 28	PP e 7.7
Palomar	z.	14.0	330	i 3 22	0	—	—	—	e 7.7
Riverside		14.8	330	e 3 32 _a	0	—	—	i 3 38	PP e 7.4
Pasadena		15.3	329	i 3 37 _a	- 1	i 6 38	+ 8	e 3 53	PP e 7.7
Boulder City		15.6	341	i 3 45	+ 3	e 6 51	+ 15	—	— e 9.8
China Lake	z.	16.4	333	i 3 54	+ 1	—	—	i 4 15	PPP e 8.2
Comitan		16.4	105	3 50	- 3	7 6	+ 10	—	8.1
Isabella	z.	16.6	331	i 3 56	0	—	—	i 4 13	PP e 8.2
Woody	z.	16.9	330	i 3 58	- 1	—	—	i 4 7	PP e 8.5
King Ranch	z.	17.0	327	i 4 1	0	—	—	i 4 25	PPP
Tinemaha		17.7	334	i 4 10	0	e 7 43	SS	i 4 37	PPP e 9.4
Merida		17.8	88	e 4 2	- 8	e 7 29	+ 2	—	e 8.5
Fresno		18.2	330	e 4 15 _a	0	—	—	e 4 52	PPP
Eureka		19.1	342	i 3 28	- 59	—	—	—	—

Continued on next page.

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	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Fayetteville	19.4	38	i 4	39 _a	0	e 8	14	+11	—	—	e 10.2
Lick	19.5	328	e 4	30 _a	-1	—	—	—	i 4	56	PP
Salt Lake City	19.6	353	i 4	33	+1	e 8	29	+22	i 5	53	?
Berkeley	20.2	327	e 4	37 _a	-2	e 8	33	+11	—	—	e 10.4
San Francisco	20.3	327	e 4	38	-2	—	—	—	—	—	—
Reno	20.5	335	i 4	42 _a	0	e 8	47	+20	—	—	e 11.3
Ukiah	21.7	328	i 4	54	0	e 9	8	+18	—	—	e 10.6
Mineral	21.9	333	e 4	57 _a	0	—	—	—	—	—	—
Shasta	22.6	332	e 5	2	-1	—	—	—	—	—	—
Rapid City	E. 23.1	10	i 5	10	+2	—	—	—	—	—	e 12.4
Bozeman	24.3	356	i 5	22	+2	e 9	32	-6	—	—	e 12.5
Butte	24.8	354	i 5	27	+2	i 9	59	+13	i 5	47	PP
Corvallis	26.2	336	e 5	41	+4	—	—	—	e 5	51	PP
Chicago	27.0	36	—	—	—	e 10	28	+6	—	—	e 10.9
Hungry Horse	27.3	352	i 5	48	0	—	—	—	i 6	0	PP
Kirkland Lake	35.2	34	e 6	57 _?	-1	—	—	—	—	—	—
Palisades	35.3	48	i 6	59	+1	i 12	38	+5	e 14	44	SS
Chinchina	35.9	112	e 7	3	-1	i 12	55	+13	—	—	e 18.1
Ottawa	36.1	41	e 7	4	-1	12	52	+7	8	31	PP
Brébeuf	37.4	42	i 7	18 _a	+1	—	—	—	—	—	18.8
Bogota	37.4	112	e 7	23	+6	i 13	16	+10	—	—	—
Shawinigan Falls	38.4	41	e 7	26	+1	—	—	—	8	55	PP
San Juan	40.0	86	i 7	38	0	—	—	—	—	—	—
Bermuda	40.5	65	e 9	22	PP	i 14	2	+10	i 16	40	SS
Huancayo	46.6	132	e 8	30	-2	e 15	23	+2	—	—	e 19.1 e 26.5
College	50.5	340	e 8	58	-4	—	—	—	e 10	13	PcP
Resolute	53.9	4	i 9	25 _a	-2	e 16	54	-8	—	—	e 25.6 e 21.7
La Paz	54.7	130	9	36	+3	—	—	—	—	—	28.4
Kiruna	83.6	17	i 12	31	0	—	—	—	—	—	—
Sodankyla	85.6	16	i 12	40	-1	—	—	—	—	—	—
Matusiro	94.6	312	e 13	21	-3	e 24	2	[+3]	e 25	54	PS
Tananarive	z. 157.5	88	e 19	58	[0]	—	—	—	e 20	30	PKP ₂

Dec. 29d. 20h. 22m. 12s. Epicentre 21°·81S. 175°·32W.

A = -0.9262, B = -0.0758, C = -0.3693; $\delta = -3$; $h = +4$;
D = -0.082, E = +0.997; G = +0.368, H = +0.030, K = -0.929.

	Δ	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Brisbane	29.3	252	i 6	4	-2	—	—	—	—	—	—
Riverview	31.8	241	i 7	27	PP	i 11	40	+1	i 7	39	PPP
Rabaul	z. 36.0	294	e 7	5	0	e 13	30	PcS	e 9	31	PcP
Melbourne	37.7	236	i 7	15	-4	—	—	—	i 8	26	PP
Matusiro	72.8	322	11	33 _a	+1	21	3	+5	25	51	SS
Santa Clara	E. 77.4	41	—	—	—	e 21	55	+6	—	—	—
Berkeley	77.5	40	e 11	59	0	e 21	53	+3	e 26	54	SS
King Ranch	z. 77.5	44	e 11	58	-1	—	—	—	—	—	e 37.8
Lick	77.6	41	e 12	0 _a	0	—	—	—	—	—	—
Ukiah	77.8	39	e 12	2	+1	—	—	—	—	—	e 34.9
Pasadena	77.8	46	e 12	0	-1	i 21	52	-1	e 15	21	PP
Barratt	z. 77.9	47	e 12	0	-2	—	—	—	—	—	i 37.1
Petropavlovsk	78.0	344	i 12	1	-1	21	58	+3	—	—	—
Palomar	z. 78.2	47	i 12	2	-1	—	—	—	i 12	44	?
Riverside	78.2	46	e 12	2	-1	e 22	20	+22	—	—	—
Woody	z. 78.3	44	i 12	3	-1	—	—	—	—	—	—
Fresno	78.3	42	e 12	3	-1	—	—	—	—	—	—
Isabella	z. 78.5	44	i 12	4	-1	—	—	—	—	—	—
China Lake	z. 79.2	44	e 12	9	+1	—	—	—	—	—	—
Hayfield	N. 79.2	47	e 12	11	+2	—	—	—	e 13	16	?
Shasta	79.3	38	e 12	9	0	—	—	—	—	—	—
Tinemaha	79.5	43	e 12	9	-1	i 22	13	+2	—	—	—
Mineral	79.5	39	e 12	10 _a	0	—	—	—	—	—	—
Reno	80.0	40	e 12	12	-1	—	—	—	—	—	—
Zô-Sè	80.4	309	12	16 _a	+1	22	36	+15	—	—	—

Continued on next page.

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	Δ °	Az. °	P. m. s.		O-C. s.	S. m. s.	O-C. s.	Supp. m. s.		L. m.
Boulder City	81.1	46	e	12 18	0	—	—	—	—	—
Corvallis	81.4	35	e	12 19	- 1	—	—	—	—	—
Hong Kong	81.5	298	e	12 24	+ 3	e 22 45?	+13	—	—	—
Tucson	81.8	51	i	12 22	0	—	—	—	—	e 34.5
Eureka	82.4	42	i	12 23	- 2	—	—	—	—	—
Canton	82.6	298		12 26 _a	0	—	—	—	—	—
Nanking	82.7	309		12 28 _a	+ 1	—	—	—	—	—
Chihuahua	83.5	56	e	16 19	?	—	—	—	—	—
Seattle	z. 83.9	33	e	12 34	+ 1	—	—	—	—	—
Victoria	84.0	32	e	12 33	0	—	—	—	—	e 42.8
Horseshoe Bay	84.6	37	e	12 36	0	—	—	—	—	—
Tacubaya	84.9	67	e	12 40	+ 2	—	—	e 14 44	?	—
Changchun	85.0	321	i	12 40 _a	+ 1	—	—	—	—	—
Puebla	85.6	68	e	12 55	+14	—	—	—	—	—
Vera Cruz	87.5	68	e	17 42	PPP	—	—	—	—	—
Butte	N. 88.2	38	e	12 53	- 1	—	—	—	—	—
Peking	88.6	314	i	12 57 _a	+ 1	i 23 28	[+ 4]	e 23 49	S	—
Hungry Horse	88.7	36	e	12 56	- 1	—	—	—	—	—
College	89.0	11	i	12 56	- 2	i 23 46	+ 1	e 23 30	SKS	e 35.1
Boulder	89.6	46	e	12 59	- 2	—	—	—	—	—
Santa Lucia	89.6	126	e	12 57	- 4	—	—	13 21	?	—
Rapid City	E. 92.9	43	e	13 20	+ 4	—	—	e 17 7	PP	—
Huancayo	94.7	105	e	13 22	- 2	e 24 35	- 1	e 23 49	SKS	e 43.6
La Paz	99.2	112	e	13 52	+ 7	i 24 26	[+ 3]	17 38	PP	46.2
Florissant	99.6	52	e	13 50	+ 3	25 17	0	—	—	—
Tiksi	100.6	344		17 56	PP	—	—	—	—	—
Shillong	z. 101.5	293	e	13 56	+ 1	—	—	—	—	—
Bogota	102.1	90	—	—	—	i 24 35	[- 2]	—	—	—
Colombo	E. 106.2	271	—	—	—	e 25 14	[- 24]	e 34 11	SSP	e 59.2
Resolute	108.4	16	—	—	—	e 26 33	[+ 39]	—	—	e 47.6
Palisades	112.4	53	e	29 20	PPS	e 34 48	SS	i 27 13	SKKS	e 55.8
Bombay	116.5	281	—	—	—	e 25 43	[+ 5]	—	—	—
Namangan	121.1	306		18 46	[- 9]	—	—	—	—	—
Quetta	124.0	292	e	19 0	[- 1]	e 27 47	[+ 6]	e 20 50	PP	—
Kimberley	z. 126.1	202	i	19 3	[- 2]	—	—	—	—	—
Sverdlovsk	126.5	326	e	19 8	[+ 3]	—	—	—	—	—
Moscow	138.2	332		22 13	PP	—	—	—	—	—
Tiflis	141.0	310		19 24	[- 8]	—	—	—	—	—
Astrida	145.5	228	e	19 39 _a	[- 1]	—	—	e 22 59	PP	—
Lwiro	146.4	228	e	19 43 _a	[+ 1]	—	—	e 19 58	PKP ₂	—
Simferopol	146.6	321		19 44	[+ 2]	30 16	[+ 16]	—	—	—
Warsaw	147.1	341	i	19 44	[+ 1]	—	—	i 20 1	PKP ₂	e 84.8
Hamburg	z. 148.0	354	e	19 48	[+ 4]	—	—	—	—	—
Kishinev	148.2	328		19 49	[+ 4]	—	—	—	—	—
Iasi	148.6	329		19 52	[+ 7]	—	—	e 20 54	?	—
Witteveen	z. 149.0	358	e	19 51	[+ 5]	—	—	—	—	—
Raciborz	z. 149.8	343	e	19 49	[+ 1]	—	—	—	—	—
Ksara	150.0	300	i	19 54 _k	[+ 6]	i 33 58	SKSP	i 23 38	PP	—
Kew	150.1	6	e	20 4	[+ 16]	—	—	—	—	e 77.8
Jena	z. 150.4	351	e	19 53	[+ 5]	—	—	e 23 29	PP	—
Safed	150.6	299	i	19 55	[+ 7]	—	—	i 20 19	pP'	—
Prague	150.8	347	i	20 0	[+ 11]	—	—	i 20 9	PKP ₂	—
Jerusalem	151.1	296	i	19 56	[+ 7]	—	—	—	—	—
Bratislava	151.9	342	i	19 39	[- 11]	—	—	i 20 46	?	—
Stuttgart	z. 152.8	353	e	19 59	[+ 7]	—	—	e 20 10	PKP ₂	—
Paris	153.0	3	e	19 52	[0]	—	—	e 19 58	PKP ₂	—
Strasbourg	153.2	355	e	20 12 _a	[+ 20]	—	—	—	—	—
Ebingen	z. 153.5	354	e	20 8	[+ 15]	—	—	e 20 25	PKP ₂	—
Besançon	154.6	358	e	20 13	[+ 19]	—	—	—	—	—
Triest	155.1	345	e	20 19	[+ 24]	—	—	—	—	—
Florence	157.4	348	e	20 29 _a	[+ 31]	e 24 8	PP	e 30 5	PcP ₁ P'	—
Rome	158.9	344	e	33 59	PcS,P'	e 45 16	SSP	e 35 39	SKKS	—
Messina	E. 161.2	333	—	—	—	e 32 9	SKKKS	e 40 55	?	e 87.0
Tamanrasset	z. 178.8	321	e	20 12	[0]	e 32 45	{ 0}	e 25 59	PP	—

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Dec. 30d. 21h. 59m. 7s. Epicentre 23°·37N. 94°·17E.

A = -0.0669, B = +0.9165, C = +0.3944; $\delta = 0$; h = +4;
D = +0.997, E = +0.073; G = -0.029, H = +0.393, K = -0.919.

		Δ	Az.	P.	O - C.	S.	O - C.	Supp.	L.	
		^c	^o	m. s.	s.	m. s.	s.	m. s.	m.	
Shillong		3.0	317	i 0 52 _a	+ 2	i 1 27	0	0 56	P*	—
Chatra		7.2	300	e 1 49	0	i 3 13	0	—	—	—
Bokaro		7.7	275	i 1 56 _a	0	i 3 21	- 4	2 0	PP	3.2
Hyderabad	E.	15.9	251	e 4 39	+53	—	—	8 55	PcP	e 10.3
Dehra Dun		16.0	299	e 3 49	+ 2	i 6 35	-11	7 4	SS	7.3
New Delhi	N.	16.1	292	e 3 49	0	6 46	- 3	6 57	SS	—
Madras	E.	16.8	235	e 3 58	0	7 4	- 1	4 14	PP	e 10.4
Yumen		17.0	7	e 4 2	+ 1	—	—	—	—	—
Canton		17.6	87	e 4 9	+ 2	e 7 28	+ 6	4 23	PP	—
Hong Kong		18.5	89	4 20	+ 2	7 53	+11	—	—	—
Lahore		19.4	299	4 28	- 1	8 7	+ 4	—	—	—
Poona		19.6	260	i 4 33	+ 1	e 8 19	+12	4 55	PP	9.3
Bombay		20.4	261	e 4 43	+ 2	e 8 36	+11	5 15	PP	9.8
Colombo	E.	21.4	222	—	—	8 55	+10	—	—	—
Tatung		23.2	40	e 5 13	+ 4	—	—	—	—	—
Nanking		23.4	63	e 5 10	- 1	—	—	—	—	—
Peking		24.9	43	e 5 29	+ 3	e 9 53	+ 6	e 5 56	PP	—
Quetta		25.2	292	e 5 29	+ 1	e 9 53	+ 1	e 6 9	PP	—
Frunse		25.3	325	5 31	+ 1	—	—	—	—	—
Baguio		25.8	101	i 5 40	+ 6	—	—	—	—	—
Namangan		25.8	318	5 35	+ 1	—	—	—	—	—
Semipalatinsk		29.1	342	6 3	- 1	—	—	—	—	—
Irkutsk		29.9	12	6 12	+ 1	—	—	—	—	—
Changechun		32.7	44	e 6 37	+ 1	—	—	—	—	—
Matusiro		40.0	60	i 7 36	- 2	13 30	-15	—	—	e 16.7
Sverdlovsk		41.4	333	7 49	0	14 5	0	—	—	—
Tiflis		44.8	306	8 19	+ 2	—	—	—	—	—
Ksara		51.6	295	i 9 9 _a	- 1	e 16 25	- 6	e 10 20	PcP	—
Safed		52.0	294	i 9 14	+ 1	—	—	—	—	—
Tiksi		52.2	13	9 11	- 3	—	—	—	—	—
Moscow		52.3	323	e 9 15	0	—	—	—	—	—
Jerusalem		52.4	293	i 9 16	0	—	—	—	—	—
Sodankyla		60.0	336	i 10 9	- 2	—	—	—	—	—
Tananarive	Z.	61.9	231	i 10 22 _a	- 1	—	—	e 10 35	PcP	—
Kiruna		62.4	336	i 10 25 _a	- 2	—	—	—	—	—
Upsala		63.4	327	i 10 31	- 2	—	—	—	—	—
Bratislava		64.5	314	i 10 33	- 7	—	—	—	—	—
Skalstugan		65.8	331	i 10 47 _a	- 1	—	—	—	—	—
Prague		66.0	316	e 10 54	+ 4	—	—	—	—	—
Jena	Z.	67.6	317	e 10 58	- 2	—	—	e 11 11	PcP	—
Astrida		67.8	257	e 11 1	0	—	—	—	—	—
Lwiro		68.4	258	e 11 6 _a	+ 1	—	—	—	—	—
Stuttgart	Z.	69.6	315	e 11 10	- 2	—	—	e 11 43	PcP	—
Ebingen	Z.	69.8	315	e 11 12	- 2	—	—	e 11 23	PcP	—
Strasbourg		70.5	315	e 11 18	0	—	—	—	—	—
Basle		70.9	314	e 11 19	- 2	—	—	—	—	—
Paris		73.9	316	e 11 38	0	—	—	—	—	—
Algiers Univ.	Z.	77.3	305	e 11 57	- 1	—	—	—	—	—
Relizane		79.5	304	e 12 9	- 1	—	—	—	—	—
College		80.1	23	i 12 10	- 3	—	—	i 15 19	PP	—
Tamanrasset	Z.	80.1	290	e 12 14	+ 1	—	—	—	—	—
Pretoria	Z.	80.4	237	i 12 13 _a	- 1	—	—	—	—	—
Pietermaritzburg	Z.	80.8	232	i 12 18	+ 1	—	—	—	—	—
Resolute		82.0	2	i 12 23 _k	0	e 22 41	+ 4	—	—	—
Kimberley	Z.	84.5	236	i 12 36 _k	0	—	—	—	—	—

Continued on next page.

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	Δ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.		Supp. m. s.		L. m.
Hungry Horse	104.3	19	e 18	14	[- 8]	—	—	e 18	23	PP		—
Eureka	111.4	25	e 18	34	[- 2]	—	—	e 29	35	PKKP		—
Woody	z. 113.4	29	i 18	40	[0]	—	—	—	—	—		—
Isabella	z. 113.7	29	e 18	42	[+ 1]	—	—	—	—	—		—
Pasadena	z. 115.1	29	e 18	45	[+ 2]	—	—	—	—	—		—
Palomar	z. 116.3	29	i 18	47	[+ 2]	—	—	—	—	—		—
Barratt	117.0	29	e 18	48	[+ 2]	—	—	—	—	—		—
Tucson	119.8	24	e 18	54	[+ 2]	—	—	—	—	—		—
Huancayo	z. 165.0	317	e 20	9	[+ 4]	—	—	—	—	—		—

Further reported epicentres for October, November, December.

New Zealand Seismological Report for 1956. Observatory Bulletin No. E-137. New Zealand Department of Scientific and Industrial Research, Geophysics Division, Wellington, N.Z., 1960.

Oct. 7d. 19h. 34m. Epicentre 19°·0S. 177°·0W. Depth of focus 200km.

Oct. 7d. 21h. 27m. Epicentre 13°·0S. 167°·0E. Depth of focus 100km.

Oct. 8d. 0h. 19m. Epicentre 4°·0S. 144°·5W. Depth of focus 100km.

Oct. 15d. 3h. 48m. Epicentre 38°·4S. 178°·7E. Magnitude 5.25.

Oct. 18d. 4h. 28m. Epicentre 31°·75S. 179°·0E. Depth of focus 450km. Magnitude 5.

Oct. 19d. 10h. 50m. Epicentre 5°·0S. 154°·5E.

Oct. 23d. 10h. 2m. Epicentre 19°·0S. 174°·0W.

Oct. 26d. 2h. 47m. Epicentre 17°·5S. 176°·0E.

Oct. 26d. 8h. 56m. Epicentre 21°·0S. 178°·0W. Depth of focus 350km.

Nov. 8d. 3h. 46m. Epicentre 24°·0S. 179°·0E. Depth of focus 550km.

Nov. 9d. 17h. 56m. Epicentre 27°·5S. 178°·0W. Depth of focus 350km.

Nov. 13d. 7h. 41m. Epicentre 21°·5S. 174°·0E.

Nov. 16d. 16h. 16m. Epicentre 20°·0S. 170°·5E.

Nov. 18d. 18h. 16m. Epicentre 27°·0S. 176°·0W.

Nov. 21d. 0h. 4m. Epicentre 35°·0S. 179°·75W. Magnitude 5.4.

Nov. 21d. 7h. 13m. Epicentre 32°·0S. 178°·5W. Depth of focus 300km. Magnitude 5.75.

Nov. 21d. 7h. 49m. Epicentre 4°·0S. 152°·5E. Depth of focus 100km.

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Nov. 22d. 8h. 15m. Epicentre $45^{\circ}2'S$. $167^{\circ}0'E$. Magnitude 5.6.

Nov. 24d. 20h. 42m. Epicentre $26^{\circ}0'S$. $176^{\circ}0'W$.

Nov. 27d. 13h. 19m. Epicentre $21^{\circ}0'S$. $169^{\circ}0'E$.

Dec. 1d. 7h. 44m. Epicentre $22^{\circ}0'S$. $169^{\circ}0'E$.

Dec. 16d. 10h. 39m. Epicentre $41^{\circ}25'S$. $178^{\circ}2'E$. Magnitude 5.2.

Dec. 16d. 22h. 6m. Epicentre $30^{\circ}3'S$. $178^{\circ}6'W$. Magnitude 5.75.

Dec. 18d. 5h. 42m. Epicentre $40^{\circ}7'S$. $173^{\circ}9'E$. Depth of focus 180km. Magnitude 5.5.
Intensity I-II at Wellington.

Dec. 19d. 21h. 49m. Epicentre $36^{\circ}35'S$. $176^{\circ}85'E$. Depth of focus 330km.

Seismological Bulletins of Japan Meteorological Agency for October, November, December, 1956. Tokyo, 1957.

Oct. 1d. 3h. 28m. 52s. Epicentre $43^{\circ}9'N$. $147^{\circ}1'E$. Depth of focus 60km.
Intensity II-III at Nemuro.

Oct. 3d. 23h. 39m. 43s. Epicentre $38^{\circ}N$. $134^{\circ}E$. Depth of focus 500km. Unfelt.

Oct. 5d. 10h. 34m. 11s. Epicentre $33^{\circ}1'N$. $131^{\circ}6'E$. Depth of focus 100km.
Intensity II-III at Simidu and Kure.

Oct. 8d. 5h. 13m. 20s. Epicentre $35^{\circ}5'N$. $140^{\circ}2'E$. Depth of focus 80km.
Intensity IV at Osima ; II-III at Tokyo, Kashiwa, Yokohama, Mera, Ajiro, Hunatu, and Kohu.

Oct. 11d. 2h. 45m. 21s. Epicentre $44^{\circ}5'N$. $150^{\circ}5'E$. Depth of focus 100km.
Intensity II-III at Kusiro.

Oct. 12d. 12h. 44m. 43s. Epicentre $41^{\circ}9'N$. $143^{\circ}6'E$. Depth of focus 40km.
Intensity IV at Urakawa ; II-III at Kusiro.

Oct. 12d. 13h. 21m. 52s. Epicentre $42^{\circ}2'N$. $145^{\circ}1'E$. Depth of focus 70km.
Intensity V at Kusiro ; II-III at Nemuro and Urakawa.

Oct. 13d. 5h. 5m. 5s. Epicentre $36^{\circ}7'N$. $141^{\circ}0'E$. Depth of focus 80km.
Intensity II-III at Mito, Shirakawa, Kakioka, and Utunomiya.

Oct. 14d. 0h. 31m. 2s. Epicentre $36^{\circ}8'N$. $140^{\circ}9'E$. Depth of focus 90km.
Intensity V at Mito ; IV at Kakioka, Shirakawa, Utunomiya, Hokusima, Wakamatu, and Tokyo ; II-III at Onahama, Kumagaya, Maebasi, Titibu, Kohu, and Ajiro.

Oct. 16d. 17h. 28m. 28s. Epicentre $36^{\circ}75'N$. $142^{\circ}25'E$. Depth of focus 40km. Unfelt.

Oct. 17d. 22h. 55m. 58s. Epicentre $35^{\circ}3'N$. $137^{\circ}2'E$. Depth of focus 40km.
Intensity IV at Nagoya ; II-III at Gihu, Tu, Hikone, Ajiro, and Hamamatu.

Oct. 29d. 9h. 13m. 16s. Epicentre $42^{\circ}3'N$. $143^{\circ}3'E$. Depth of focus 60km.
Intensity IV at Urakawa and Obihiro ; II-III at Kusiro and Hatinohe.

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- Nov. 2d. 11h. 34m. 22s. Epicentre $33^{\circ}8'N$, $132^{\circ}3'E$. Depth of focus 40km.
Intensity V at Kure ; IV at Hiroshima ; II-III at Matuyama, Uwazima, and Matunaga.
- Nov. 5d. 2h. 38m. 40s. Epicentre $36^{\circ}7'N$, $139^{\circ}2'E$.
Intensity II-III at Kakioka and Tokyo.
- Nov. 5d. 8h. 9m. 31s. Epicentre $35^{\circ}5'N$, $140^{\circ}25'E$. Depth of focus 60km.
Intensity II-III at Tokyo.
- Nov. 12d. 0h. 58m. 28s. Epicentre $34^{\circ}85'N$, $137^{\circ}1'E$.
Intensity IV at Kameyama ; II-III at Nagoya.
- Nov. 13d. 17h. 48m. 30s. Epicentre $35^{\circ}3'N$, $140^{\circ}6'E$. Depth of focus 40km.
Intensity II-III at Tokyo and Kakioka.
- Nov. 18d. 1h. 48m. 26s. Epicentre $33^{\circ}25'N$, $139^{\circ}0'E$. Depth of focus 280km.
Intensity II-III at Kakioka and Utunomiya.
- Nov. 18d. 21h. 28m. 27s. Epicentre $34^{\circ}25'N$, $135^{\circ}75'E$. Depth of focus 70-80km.
Intensity IV at Nara, Owasi, Siomisaki, and Kameyama ; II-III at Osaka, Kyoto, Tu, Hikone, Tokushima, Nagoya, and Gihu.
- Nov. 19d. 15h. 43m. 3s. Epicentre $43^{\circ}3'N$, $147^{\circ}2'E$. Depth of focus 60km.
Intensity II-III at Nemuro and Kusiro.
- Nov. 25d. 17h. 11m. 51s. Epicentre $36^{\circ}3'N$, $140^{\circ}9'E$. Depth of focus 40km.
Intensity IV at Kakioka ; II-III at Mito, Onahama, Shirakawa, Hukushima, and Maebasi.
- Nov. 28d. 17h. 30m. 18s. Epicentre $42^{\circ}N$, $145^{\circ}E$. Depth of focus 60km.
Intensity II-III at Kusiro.
- Nov. 30d. 14h. 42m. 19s. Epicentre $32^{\circ}2'N$, $140^{\circ}4'E$. Depth of focus 120km.
Unfelt.
- Dec. 7d. 10h. 27m. 37s. Epicentre $36^{\circ}3'N$, $139^{\circ}9'E$. Depth of focus 60km.
Intensity IV at Kakioka, Utunomiya, and Tateno ; II-III at Kumagaya, Mito, Tokyo, Maebasi, and Titibu.
- Dec. 11d. 21h. 53m. 36s. Epicentre $34^{\circ}9'N$, $137^{\circ}1'E$. Depth of focus 30km.
Intensity II-III at Nagoya, Tu, Kameyama, Gihu, and Owasi.
- Dec. 12d. 22h. 46m. 1s. Epicentre $37^{\circ}3'N$, $141^{\circ}8'E$. Depth of focus 40km.
Intensity II-III at Onahama, Hukushima, Sendai, Isinomaki, and Shirakawa.
- Dec. 14d. 12h. 40m. 28s. Epicentre $33^{\circ}7'N$, $134^{\circ}2'E$.
Intensity II-III at Okayama and Matunaga.
- Dec. 18d. 17h. 21m. 18s. Epicentre $35^{\circ}2'N$, $136^{\circ}7'E$. Depth of focus 40-50km.
Intensity IV at Nagoya and Tu ; II-III at Gihu, Ibukiyama, Kameyama, Hikone, and Kyoto.
- Dec. 19d. 3h. 49m. 57s. Epicentre $39^{\circ}6'N$, $142^{\circ}2'E$. Depth of focus 40km.
Intensity IV at Miyako ; II-III at Hatinohe.
- Dec. 19d. 11h. 19m. 51s. Epicentre $42^{\circ}5'N$, $144^{\circ}6'E$. Depth of focus 60km.
Intensity IV at Kusiro.
- Dec. 20d. 19h. 48m. 5s. Epicentre $45^{\circ}5'N$, $151^{\circ}5'E$. Depth of focus 120km.
Intensity II-III at Nemuro and Kusiro.

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Dec. 21d. 10h. 31m. 31s. Epicentre $33^{\circ}7'N$. $139^{\circ}5'E$. Depth of focus 20km.
Intensity II-III at Hatidyozima.

Dec. 21d. 18h. 11m. 4s. Epicentre $33^{\circ}75'N$. $139^{\circ}5'E$. Depth of focus 20km.
Intensity IV at Miyakezima ; II-III at Hatidyozima.

Dec. 24d. 5h. 12m. 13s. Epicentre $33^{\circ}7'N$. $139^{\circ}5'E$. Depth of focus 20km.
Intensity IV at Hatidyozima ; II-III at Miyakezima.

Dec. 25d. 20h. 56m. 25s. Epicentre $35^{\circ}6'N$. $140^{\circ}2'E$. Depth of focus 80km.
Intensity IV at Tokyo ; II-III at Kakioka, Hunatu, and Yokohama.

Seismological Bulletin of China for 1956. Peking, China.

Oct. 6d. 6h. 16m. Epicentre $2^{\circ}5'N$. $127^{\circ}0'E$.

Oct. 7d. 21h. 27m. Epicentre $12^{\circ}0'S$. $168^{\circ}0'E$.

Oct. 8d. 0h. 19m. Epicentre $4^{\circ}0'S$. $144^{\circ}0'E$. Depth of focus 110km.

Oct. 9d. 6h. 19m. Epicentre $19^{\circ}5'S$. $174^{\circ}0'W$.

Oct. 13d. 16h. 39m. Epicentre $48^{\circ}5'N$. $122^{\circ}0'E$. Magnitude 4.75.

Oct. 13d. 21h. 49m. Epicentre $39^{\circ}5'N$. $112^{\circ}75'E$.

Oct. 15d. 7h. 45m. Epicentre $10^{\circ}0'N$. $127^{\circ}0'E$. Magnitude 5.8.

Oct. 27d. 0h. 45m. Epicentre $39^{\circ}5'N$. $99^{\circ}0'E$. Magnitude 5.

Nov. 7d. 15h. 53m. Epicentre $29^{\circ}0'N$. $103^{\circ}0'E$.

Nov. 15d. 6h. 28m. Epicentre $36^{\circ}5'N$. $104^{\circ}5'E$.

Nov. 18d. 23h. 23m. Epicentre $40^{\circ}0'N$. $115^{\circ}0'E$.

Nov. 22d. 21h. 58m. Epicentre $38^{\circ}0'N$. $102^{\circ}0'E$.

Dec. 7d. 14h. 38m. Epicentre $38^{\circ}5'N$. $104^{\circ}5'E$.

Dec. 12d. 20h. 53m. Epicentre $24^{\circ}0'N$. $121^{\circ}0'E$. Magnitude 4.75.

Dec. 23d. 17h. 27m. Epicentre $26^{\circ}0'N$. $142^{\circ}0'E$.

Dec. 24d. 18h. 38m. Epicentre $8^{\circ}5'N$. $127^{\circ}0'E$. Magnitude 5.75.

Dec. 27d. 21h. 31m. Epicentre $8^{\circ}0'N$. $126^{\circ}5'E$. Magnitude 6.

Dec. 31d. 21h. 33m. Epicentre $40^{\circ}5'N$. $115^{\circ}5'E$. Magnitude 4.5.

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Seismological Bulletin of Taiwan Weather Bureau for October-December, 1956, Vol. 3, No. 4. Taiwan, China.

Oct. 2d. 3h. 42m. Epicentre $23^{\circ}9N$. $121^{\circ}7E$. Depth of focus 20km.
Intensity V at Hwalien.

Oct. 6d. 11h. 6m. Epicentre $23^{\circ}8N$. $121^{\circ}4E$.
Intensity II-III at Hwalien.

Oct. 7d. 12h. 21m. Epicentre $23^{\circ}3N$. $121^{\circ}5E$.
Intensity II-III at Hsinkong.

Oct. 8d. 17h. 22m. Epicentre $23^{\circ}4N$. $121^{\circ}2E$.
Intensity V at Hsinkong ; IV at Alishan and Taitung ; II-III at Hwalien and Taichung.

Oct. 11d. 21h. 32m. Epicentre $23^{\circ}6N$. $121^{\circ}7E$. Depth of focus 20km.
Intensity II-III at Hsinkong.

Oct. 17d. 4h. 47m. Epicentre $23^{\circ}4N$. $121^{\circ}7E$. Depth of focus 20km.
Intensity IV at Hwalien.

Oct. 19d. 12h. 25m. Epicentre $22^{\circ}3N$. $120^{\circ}2E$. Depth of focus 40km.
Intensity V at Kaohsiung ; IV at Hengchun and Tainan ; II-III at Alishan.

Oct. 23d. 10h. 32m. Epicentre $23^{\circ}2N$. $121^{\circ}3E$. Depth of focus 10km.
Intensity V at Hsinkong and Taitung ; IV at Alishan ; II-III at Hwalien and Tainan.

Oct. 27d. 22h. 39m. Epicentre $23^{\circ}3N$. $121^{\circ}2E$.
Intensity IV at Hsinkong.

Oct. 31d. 17h. 29m. Epicentre $23^{\circ}9N$. $122^{\circ}7E$. Depth of focus 60km.
Intensity II-III at Hwalien and Ilan.

Dec. 12d. 20h. 53m. Epicentre $23^{\circ}8N$. $121^{\circ}5E$.
Intensity VI at Hwalien ; IV at Alishan and Hsinkong ; II-III at Hsinchu, Taipei, Taichung, Tainan, and Ilan.

Seismological Bulletin, Government of India Meteorological Department for October, November, and December, 1956.

Oct. 14d. 3h. 59m. Epicentre $4^{\circ}0S$. $146^{\circ}0E$.

Oct. 15d. 7h. 46m. Epicentre $11^{\circ}5N$. $126^{\circ}5E$. Depth of focus 200km. Magnitude 5.8.

Oct. 15d. 23h. 7m. Epicentre $37^{\circ}5N$. $69^{\circ}0E$.

Oct. 17d. 1h. 15m. Epicentre $36^{\circ}75N$. $70^{\circ}5E$.

Oct. 18d. 3h. 27m. Epicentre $0^{\circ}0$ $126^{\circ}0E$.

Oct. 19d. 3h. 20m. Epicentre $46^{\circ}75N$. $152^{\circ}0E$. Depth of focus 150km.

Oct. 22d. 15h. 18m. Epicentre $9^{\circ}5S$. $150^{\circ}0E$. Depth of focus 100km.

Oct. 23d. 10h. 32m. Epicentre $23^{\circ}5N$. $121^{\circ}0E$.

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- Oct. 24d. 17h. 22m. Epicentre $6^{\circ}\cdot5\text{N}$. $156^{\circ}\cdot75\text{E}$.
- Oct. 24d. 21h. 21m. Epicentre $1^{\circ}\cdot2\text{S}$. $22^{\circ}\cdot1\text{E}$.
- Oct. 27d. 0h. 45m. Epicentre $39^{\circ}\cdot5\text{N}$. $99^{\circ}\cdot0\text{E}$.
- Oct. 31d. 22h. 19m. Epicentre $5^{\circ}\cdot75\text{N}$. $94^{\circ}\cdot5\text{E}$.
- Nov. 1d. 5h. 52m. Epicentre $27^{\circ}\cdot5\text{N}$. $53^{\circ}\cdot5\text{E}$.
- Nov. 8d. 15h. 45m. Epicentre $9^{\circ}\cdot0\text{N}$. $126^{\circ}\cdot0\text{E}$.
- Nov. 10d. 15h. 41m. Epicentre $25^{\circ}\cdot0\text{N}$. $94^{\circ}\cdot5\text{E}$. Depth of focus 150km.
- Nov. 11d. 12h. 56m. Epicentre $39^{\circ}\cdot0\text{N}$. $71^{\circ}\cdot5\text{E}$. Magnitude 4.75.
- Nov. 12d. 8h. 33m. Epicentre $1^{\circ}\cdot0\text{N}$. $126^{\circ}\cdot0\text{E}$.
- Nov. 14d. 5h. 10m. Epicentre $16^{\circ}\cdot0\text{S}$. $153^{\circ}\cdot5\text{E}$. Depth of focus 100km.
- Nov. 15d. 20h. 30m. Epicentre $37^{\circ}\cdot0\text{N}$. $76^{\circ}\cdot0\text{E}$.
- Nov. 16d. 14h. 4m. Epicentre $27^{\circ}\cdot75\text{N}$. $54^{\circ}\cdot75\text{E}$.
- Nov. 17d. 19h. 15m. Epicentre $27^{\circ}\cdot5\text{N}$. $126^{\circ}\cdot0\text{E}$. Depth of focus 150km.
- Nov. 19d. 2h. 50m. Epicentre $3^{\circ}\cdot0\text{S}$. $139^{\circ}\cdot5\text{E}$.
- Nov. 20d. 11h. 3m. Epicentre $7^{\circ}\cdot0\text{S}$. $126^{\circ}\cdot0\text{E}$.
- Nov. 20d. 11h. 59m. Epicentre $0^{\circ}\cdot0$ $123^{\circ}\cdot5\text{E}$.
- Nov. 22d. 23h. 29m. Epicentre $3^{\circ}\cdot0\text{S}$. $132^{\circ}\cdot0\text{E}$.
- Nov. 25d. 1h. 50m. Epicentre $34^{\circ}\cdot0\text{S}$. $70^{\circ}\cdot0\text{E}$.
- Nov. 27d. 6h. 59m. Epicentre $5^{\circ}\cdot0\text{S}$. $154^{\circ}\cdot0\text{E}$.
- Nov. 27d. 13h. 19m. Epicentre $21^{\circ}\cdot0\text{S}$. $169^{\circ}\cdot0\text{E}$.
- Nov. 29d. 7h. 16m. Epicentre $27^{\circ}\cdot0\text{N}$. $141^{\circ}\cdot0\text{E}$.
- Nov. 29d. 14h. 36m. Epicentre $27^{\circ}\cdot5\text{N}$. $141^{\circ}\cdot5\text{E}$.
- Dec. 5d. 15h. 5m. Epicentre $25^{\circ}\cdot0\text{N}$. $90^{\circ}\cdot5\text{E}$.
- Dec. 6d. 20h. 30m. Epicentre $35^{\circ}\cdot25\text{N}$. $71^{\circ}\cdot0\text{E}$. Depth of focus 200km.
- Dec. 9d. 11h. 28m. Epicentre $6^{\circ}\cdot0\text{S}$. $152^{\circ}\cdot0\text{E}$. Depth of focus 100km.
- Dec. 10d. 16h. 48m. Epicentre $15^{\circ}\cdot0\text{S}$. $152^{\circ}\cdot0\text{E}$. Depth of focus 60km.
- Dec. 11d. 16h. 53m. Epicentre $5^{\circ}\cdot5\text{N}$. $61^{\circ}\cdot0\text{E}$.

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- Dec. 13d. 14h. 52m. Epicentre $2^{\circ}\cdot 0\text{N}$. $126^{\circ}\cdot 5\text{E}$.
- Dec. 13d. 19h. 34m. Epicentre $12^{\circ}\cdot 0\text{N}$. $143^{\circ}\cdot 0\text{E}$.
- Dec. 15d. 13h. 31m. Epicentre $2^{\circ}\cdot 5\text{N}$. $128^{\circ}\cdot 5\text{E}$. Depth of focus 150km.
- Dec. 20d. 21h. 13m. Epicentre $4^{\circ}\cdot 5\text{S}$. $101^{\circ}\cdot 5\text{E}$.
- Dec. 23d. 6h. 7m. Epicentre $24^{\circ}\cdot 0\text{N}$. $98^{\circ}\cdot 0\text{E}$.
- Dec. 23d. 17h. 27m. Epicentre $25^{\circ}\cdot 2\text{N}$. $141^{\circ}\cdot 0\text{E}$.
- Dec. 24d. 18h. 38m. Epicentre $10^{\circ}\cdot 0\text{N}$. $127^{\circ}\cdot 0\text{E}$.
- Dec. 26d. 7h. 34m. Epicentre $9^{\circ}\cdot 5\text{S}$. $112^{\circ}\cdot 0\text{E}$.
- Dec. 26d. 7h. 46m. Epicentre $10^{\circ}\cdot 0\text{S}$. $166^{\circ}\cdot 0\text{E}$.
- Dec. 27d. 21h. 31m. Epicentre $7^{\circ}\cdot 5\text{N}$. $126^{\circ}\cdot 0\text{E}$.
- Dec. 28d. 2h. 24m. Epicentre $36^{\circ}\cdot 5\text{N}$. $70^{\circ}\cdot 25\text{E}$.
- Dec. 28d. 13h. 41m. Epicentre $5^{\circ}\cdot 5\text{N}$. $126^{\circ}\cdot 0\text{E}$.
- Dec. 29d. 3h. 40m. Epicentre $5^{\circ}\cdot 5\text{S}$. $151^{\circ}\cdot 5\text{E}$. Depth of focus 60km.
- Dec. 29d. 6h. 51m. Epicentre $5^{\circ}\cdot 5\text{S}$. $151^{\circ}\cdot 5\text{E}$.
- Dec. 29d. 9h. 37m. Epicentre $51^{\circ}\cdot 25\text{N}$. $158^{\circ}\cdot 5\text{E}$.

Bulletin of the Seismological Stations of the U.S.S.R. for October-December, 1956. Moscow, 1958.

- Oct. 2d. 12h. 55m. Epicentre $37^{\circ}\cdot 1\text{N}$. $72^{\circ}\cdot 9\text{E}$. Magnitude 4.
- Oct. 4d. 0h. 58m. Epicentre $41^{\circ}\cdot 3\text{N}$. $68^{\circ}\cdot 8\text{E}$.
- Oct. 15d. 23h. 7m. Epicentre $38^{\circ}\cdot 5\text{N}$. $69^{\circ}\cdot 3\text{E}$. Magnitude 4.75.
- Oct. 17d. 1h. 14m. Epicentre $36^{\circ}\cdot 6\text{N}$. $70^{\circ}\cdot 5\text{E}$. Depth of focus 190km.
- Oct. 18d. 10h. 25m. Epicentre $37^{\circ}\cdot 3\text{N}$. $69^{\circ}\cdot 0\text{E}$. Magnitude 4.
- Nov. 1d. 5h. 52m. Epicentre $27^{\circ}\cdot 5\text{N}$. $54^{\circ}\cdot 0\text{E}$. Magnitude 5.
- Nov. 1d. 21h. 58m. Epicentre $38^{\circ}\cdot 9\text{N}$. $48^{\circ}\cdot 3\text{E}$. Magnitude 4.
- Nov. 3d. 10h. 4m. Epicentre $51^{\circ}\cdot 5\text{N}$. $159^{\circ}\cdot 5\text{E}$. Depth of focus 30km. Magnitude 5.
- Nov. 4d. 1h. 24m. Epicentre $45^{\circ}\cdot 7\text{N}$. $26^{\circ}\cdot 8\text{E}$. Depth of focus 120km.

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- Nov. 11d. 12h. 56m. Epicentre $38^{\circ}83N$. $71^{\circ}62E$. Depth of focus 15km. Magnitude 4.5.
- Nov. 11d. 13h. 2m. Epicentre $38^{\circ}83N$. $71^{\circ}62E$. Depth of focus 15km. Magnitude 4.5.
- Nov. 14d. 3h. 57m. Epicentre $40^{\circ}5N$. $78^{\circ}0E$. Magnitude 4.
- Nov. 15d. 20h. 31m. Epicentre $38^{\circ}8N$. $77^{\circ}0E$. Magnitude 4.
- Nov. 16d. 14h. 4m. Epicentre $38^{\circ}5N$. $72^{\circ}1E$. Magnitude 4.
- Nov. 18d. 16h. 2m. Epicentre $45^{\circ}8N$. $26^{\circ}8E$. Depth of focus 150km.
- Nov. 19d. 5h. 50m. Epicentre $45^{\circ}8N$. $26^{\circ}8E$. Depth of focus 150km.
- Nov. 21d. 6h. 22m. Epicentre $49^{\circ}N$. $142^{\circ}E$. Magnitude 5.
- Nov. 27d. 18h. 48m. Epicentre $36^{\circ}5N$. $70^{\circ}0E$. Depth of focus 200km.
- Nov. 29d. 21h. 15m. Epicentre $45^{\circ}5N$. $26^{\circ}5E$. Depth of focus 100km.
- Dec. 6d. 20h. 30m. Epicentre $36^{\circ}8N$. $70^{\circ}3E$. Depth of focus 190km.
- Dec. 10d. 23h. 21m. Epicentre $45^{\circ}6N$. $26^{\circ}6E$. Depth of focus 150km.
- Dec. 11d. 13h. 29m. Epicentre $42^{\circ}9N$. $47^{\circ}7E$. Magnitude 4.
- Dec. 11d. 22h. 48m. Epicentre $41^{\circ}2N$. $71^{\circ}6E$.
- Dec. 18d. 4h. 55m. Epicentre $38^{\circ}84N$. $70^{\circ}55E$. Depth of focus 10km.

Seismological Institute Bulletin for 1956. National Observatory,
Athens, 1957.

- Oct. 15d. 7h. 35m. Epicentre $39^{\circ}0N$. $25^{\circ}5E$. Magnitude 4.9.
Poorly recorded to 26° .
- Oct. 29d. 7h. 35m. Epicentre $35^{\circ}5N$. $26^{\circ}0E$. Magnitude 5.25.
Intensity IV at Phira, Sitia, and Phourni. Recorded to 80° .
- Dec. 2d. 19h. 41m. Epicentre $36^{\circ}8N$. $25^{\circ}7E$. Magnitude 5.25.
Intensity IV at Ios. Recorded to 88° .
- Dec. 25d. 1h. 1m. Epicentre $38^{\circ}5N$. $21^{\circ}0E$. Magnitude 4.5.
Intensity IV at Agrinion and Astakos; III at Leukas. Poorly recorded to 22° .
- Dec. 27d. 10h. 8m. Epicentre $35^{\circ}75N$. $27^{\circ}75E$. Magnitude 5.25. Recorded to 79° .
- Dec. 30d. 18h. 24m. Epicentre $38^{\circ}3N$. $21^{\circ}1E$. Magnitude 5.5.
Intensity IV at Agrinion, Messolonghi, Naupaktos, Amalias, Pyrgos, Vartholomion, and Patras; III at Leukas. Poorly recorded to 93° .

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**Seismological Bulletin of National University of Mexico for October,
November, and December, 1956. Tacubaya.**

- Oct. 1d. 12h. 18m. Epicentre 18°2'N. 95°58'W.
- Oct. 2d. 7h. 51m. Epicentre 20°42'N. 108°12'W.
- Oct. 2d. 15h. 54m. Epicentre 24°0'N. 109°37'W.
- Oct. 3d. 1h. 9m. Epicentre 16°29'N. 98°13'W. Magnitude 5.5.
- Oct. 4d. 17h. 16m. Epicentre 15°11'N. 96°54'W.
- Oct. 6d. 2h. 38m. Epicentre 16°8'N. 98°19'W.
- Oct. 13d. 4h. 47m. Epicentre 13°0'N. 56°5'W.
- Oct. 17d. 4h. 31m. Epicentre 16°24'N. 93°5'W. Depth of focus 100km.
- Oct. 21d. 8h. 39m. Epicentre 25°25'N. 108°49'W.
- Oct. 23d. 3h. 2m. Epicentre 15°41'N. 97°48'W.
- Oct. 24d. 0h. 0m. Epicentre 19°16'N. 99°13'W.
0h. 0m.
0h. 6m.
- Nov. 15d. 17h. 28m. Epicentre 3°0'S. 103°5'W.
- Nov. 17d. 9h. 23m. Epicentre 16°22'N. 97°48'W.
- Nov. 21d. 22h. 7m. Epicentre 16°37'N. 99°27'W.
22h. 9m. Magnitudes 5.2.
- Dec. 4d. 9h. 51m. Epicentre 16°28'N. 96°54'W.
- Dec. 5d. 5h. 23m. Epicentre 18°7'N. 108°2'W.
- Dec. 6d. 5h. 47m. Epicentre 20°21'N. 98°58'W.
- Dec. 13d. 13h. 15m. Epicentre 31°0'N. 115°0'W. Magnitude 5.75.
- Dec. 15d. 9h. 4m. Epicentre 8°30'N. 95°30'W.
- Dec. 23d. 2h. 21m. Epicentre 19°3'N. 103°54'W.
3h. 3m.
3h. 13m.
4h. 22m.
- Dec. 26d. 7h. 34m. Epicentre 9°5'S. 112°0'E.
- Dec. 26d. 19h. 6m. Epicentre 13°48'N. 91°47'W. Depth of focus 100km.
- Dec. 31d. 4h. 42m. Epicentre 72°0'N. 16°5'E.
- Dec. 31d. 17h. 37m. Epicentre 38°5'N. 119°0'W. Magnitude 5.5.5.
- Dec. 31d. 17h. 39m. Epicentre 39°0'N. 119°0'W. Magnitude 5.4.

The scanned images of the bulletins of the International Seismological Summary (ISS) have been obtained as part of a global earthquake relocation project (Villaseñor et al., 1997) initiated with funding from the US National Science Foundation through grant EAR-9725140 and collected by SGA [Storia Geofisica Ambiente](#) (Bologna) on behalf of the [Istituto Nazionale di Geofisica e Vulcanologia](#) (Rome), in the frame of [Euroseismos](#) project.

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/>

These data are considered public domain and may be freely distributed or copied for non-profit purposes provided the previous references are quoted.

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.