

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 JULY, AUGUST, SEPTEMBER.

July 3d. 15h. 46m. 40s. Epicentre 13°·5N. 90°·7W.

A = -·0119, B = -·9726, C = +·2320 ;  $\delta$  = -8 ; h = +6 ;  
D = -1·000, E = +·012 ; G = -·003, H = -·232, K = -·973.

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
San Salvador	1·4	80	c 0	31	+ 4	i 0	56	+10	—	—	—	
Comitan	3·1	333	1	2	0 <sub>g</sub>	1	48	+ 6 <sub>g</sub>	—	—	—	
Oaxaca	6·9	302	e 1	44	- 1	c 3	12	+ 7	—	—	i 3·7	
Merida	7·5	8	e 1	56 <sub>k</sub>	+ 3	e 3	38	- 9*	—	—	i 4·1	
Vera Cruz	7·7	318	c 2	4	-10*	3	40	+15	—	—	—	
Puebla	9·1	308	e 2	16	+ 2	i 4	8	+ 8	—	—	—	
Tacubaya	10·1	307	e 2	30	+ 1	e 4	31	+ 6	—	—	—	
Guadalajara	14·0	302	e 3	24	+ 2	e 6	2	+ 3	c 6	39	Q	e 9·0
Manzanillo	14·2	295	e 4	26	+62	—	—	—	—	—	e 10·3	
Chinchina	17·1	118	i 4	2	0	i 7	31	+19	—	—	9·3	
Mobile	17·3	7	i 4	11	+ 7	i 7	38	+22	—	—	—	
Bogota	18·6	117	i 4	21	0	i 7	58	+12	—	—	9·3	
Chihuahua	20·8	319	4	48	+ 3	c 8	40	+ 7	—	—	—	
Columbia	22·2	22	c 5	0	0	c 9	13	+13	—	—	e 11·2	
Fayetteville	22·7	353	c 5	4	0	—	—	—	c 5	20	PP	—
Terre Haute	26·0	6	e 4	30	-66	e 9	50	-16	—	—	—	
Tucson	26·3	319	i 5	40	+ 1	c 10	44	+33	—	—	e 13·5	
Washington	z.	28·0	23	e 6	27	+32	—	—	e 8	21	PPP	e 11·4
Boulder	29·4	337	i 6	5	- 2	—	—	—	—	—	—	
Huancayo	29·6	149	c 6	8	- 1	e 11	5	+ 1	e 8	9	PPP	e 13·6
Hayfield	N.	30·3	316	e 6	15	0	—	—	—	—	—	
Palomar	z.	31·0	314	i 6	20	- 1	—	—	—	—	—	
Palisades	31·1	25	i 6	20	- 2	e 11	26	- 2	e 7	12	PP	e 14·8
Boulder City	31·2	320	i 6	23	0	—	—	—	—	—	—	
Riverside	z.	31·7	315	c 6	27	0	—	—	—	—	—	
Pasadena	32·3	314	i 6	32	- 1	—	—	—	—	—	e 15·4	
Rapid City	E.	32·3	343	e 6	31	- 2	—	—	c 7	36	PP	—
China Lake	z.	32·9	317	i 6	37	- 1	—	—	c 9	24	PcP	—
Salt Lake City	32·9	330	e 6	38	0	—	—	—	—	—	—	
Isabella	z.	33·4	316	i 6	41	- 1	—	—	c 9	23	PcP	—
Woody	z.	33·6	316	i 6	44	0	—	—	i 9	23	PcP	—
King Ranch	z.	34·0	315	e 6	48	0	—	—	—	—	—	
Eureka	34·2	324	i 6	49	0	e 13	14	+58	—	—	—	
Ottawa	34·2	19	c 6	47	- 2	c 12	22	+ 6	c 14	44	SS	—
Fresno	z.	34·9	317	c 6	53	- 2	—	—	—	—	—	
Brébeuf	35·0	21	e 6	54	- 2	—	—	—	—	—	—	
Kirkland Lake	z.	35·7	12	e 6	58	- 4	—	—	—	—	e 20·3	
Shawinigan Falls	36·2	21	e 7	5	- 1	—	—	—	—	—	—	
Bozeman	36·4	336	e 7	8	0	—	—	—	—	—	—	
Lick	z.	36·4	316	c 7	8	0	—	—	—	—	—	
Reno	z.	36·5	321	e 7	8	- 1	—	—	—	—	—	
Berkeley	37·1	317	e 7	15	+ 1	c 13	0	- 1	c 18	56	Q	e 22·4
La Paz	N.	37·2	143	i 7	19	+ 4	—	—	—	—	18·0	
Butte	N.	37·3	335	e 7	31	+15	e 13	26	+22	—	c 17·4	
Mineral	z.	38·1	320	e 7	21	- 1	—	—	—	—	—	
Hungry Horse	39·8	336	e 7	35	- 1	—	—	—	—	—	—	
Corvallis	z.	41·6	324	e 7	50	- 1	—	—	—	—	—	
Seattle	43·0	329	c 8	1	- 2	—	—	—	—	—	e 24·7	
Victoria	44·2	329	c 8	11 <sub>a?</sub>	- 1	—	—	—	—	—	—	
Horseshoe Bay	44·7	330	c 8	14	- 2	—	—	—	—	—	—	
Resolute Bay	61·2	359	c 10	13 <sub>a</sub>	- 6	c 18	44	+ 6	c 14	10	PPP	—
College	64·2	336	e 10	34	- 5	e 19	24	+ 8	c 20	36	ScS	e 28·0
Scoresby Sund	70·3	19	—	—	—	e 20	44	+15	—	—	36·3	
Rathfarnham C.	z.	76·0	38	e 11	36 <sub>a</sub>	-15	—	—	—	—	—	
Granada	79·7	54	—	—	—	23	2	PPS	—	—	40·9	

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	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Uccle	82.8	40	c 13 22	+55	e 22 47	+ 2	e 23 37	PS
Skalstugan	83.7	26	i 12 28	- 4	—	—	—	—
Kiruna	85.3	21	e 12 37	- 3	i 23 5	[+ 2]	—	—
Strasbourg	85.5	41	e 12 42	+ 1	—	—	—	e 45.3
Upsala	87.4	29	—	—	e 23 29	- 1	—	—
Rome	90.6	47	—	—	e 23 31	[- 5]	e 29 35	SS
Matusiro	112.2	319	—	—	27 18	{+58}	29 1	SS

July 3d. 23h. 26m. 17s. Epicentre 36°·6N. 71°·1E. Depth of focus 0·030.  
(as on 1954, July 10d.).

A = +·2607, B = +·7613, C = +·5936;  $\delta = -10$ ;  $h = 0$ ;  
D = +·946, E = -·324; G = +·192, H = +·562, K = -·805.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Khorog	1.0	23	i 0 33	+ 1	0 58	+ 1	—	—
Kulyab	1.7	321	i 0 38	0	i 1 6	- 1	—	—
Obi-garm	2.4	332	i 0 45	0	i 1 18	- 1	—	—
Garm	2.5	345	i 0 45	- 1	i 1 18	- 3	—	—
Dzhergetal	2.6	2	0 48	+ 1	1 23	0	—	—
Stalinabad	2.7	317	i 0 50	+ 2	i 1 25	0	—	—
Fergana	3.8	8	i 1 0	- 1	e 1 45	- 3	—	—
Andijan	4.3	13	i 1 6	- 1	i 1 56	- 3	—	—
Namangan	4.4	5	i 1 9	+ 1	i 1 59	- 2	—	—
Samarkand	4.5	314	i 1 9	0	1 59	- 4	—	—
Tashkent	4.9	344	e 1 13	- 1	e 2 8	- 4	—	—
Lahore	5.7	151	1 21	- 3	—	—	—	—
Tchimkent	5.8	349	i 1 25	- 1	i 2 24	- 8	—	—
Naryn	6.1	37	e 1 27	- 3	—	—	—	—
Frunse	6.8	22	1 38	0	i 2 29	-27	—	—
Rybach'e	7.0	32	i 1 40	- 1	i 2 58	- 2	—	—
Bairam Ali	7.3	281	i 1 42	- 3	i 3 1	- 6	e 2 37	sP
Quetta	7.3	210	e 1 43	- 2	i 3 3	- 4	i 2 38	sP
Almata	8.0	32	i 1 54	0	i 3 23	0	i 3 50	?
Przhevalsk	8.1	42	1 54	- 1	3 21	- 5	i 2 52	sP
Almata II	8.2	34	e 1 56	- 1	—	—	i 2 52	sP
Dehra Dun	8.5	135	e 1 59	- 1	i 3 28	- 7	2 7	PP
Kurmenty	8.5	38	e 2 1	+ 1	—	—	—	—
Chilisk	8.9	36	e 2 4	- 2	—	—	—	—
New Delhi	N. 9.5	146	i 2 19	+ 6	i 4 11	+13	2 27	PP
Ashkabad	10.3	281	i 2 22	- 2	4 14	- 2	—	—
Kizyl-Arvat	12.0	286	i 1 42	-63	i 3 1	?	—	—
Semipalatinsk	15.3	23	i 3 25	- 1	i 6 8	- 1	i 4 22	?
Chatra	z. 16.8	121	i 3 42	- 2	i 6 41	- 1	—	—
Baku	17.0	289	i 3 57	+11	i 6 59	+13	e 4 50	sP
Bombay	17.7	175	i 3 55	+ 2	e 6 59	- 2	7 16	SS
Bokaro	17.9	131	i 3 55	- 1	e 7 4	- 1	—	—
Poona	18.2	172	i 3 57	- 2	e 7 7	- 4	4 13	PP
Makhach-Kala	19.2	297	e 5 12	+63	—	—	—	—
Goris	19.7	286	e 4 20	+ 6	e 7 51	+12	i 5 20	sP
Hyderabad	20.2	159	e 4 22	+ 3	e 7 48	0	e 5 21	sP
Shillong	20.8	116	e 4 24	- 1	i 8 1	+ 2	5 7	pP
Sverdlovsk	21.4	344	e 4 32	+ 1	e 8 12	+ 3	—	—
Madras	E. 24.9	159	e 5 8	+ 4	i 9 7	- 1	5 41	pP
Sotchi	24.9	296	e 5 4	0	e 9 9	+ 1	5 47	pP
Irkutsk	28.1	46	e 5 32	- 1	e 11 43	SS	e 6 18	pP
Theodosia	28.2	299	e 5 33	- 1	10 52	SS	e 6 32	sP
Ksara	28.8	275	e 5 40	+ 1	e 10 15	+ 4	—	—
Kyakhta	28.8	50	e 4 43	-56	e 11 58	SS	—	—
Simferopol	29.0	298	e 5 41	0	i 6 30	PP	e 6 24	pP

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Yalta	29.0	297	c 5	40	- 1	e 6	33	PP	i 6	28	pP	—
Kabansk	29.4	47	c 5	44	- 1	e 12	9	SS	c 6	30	pP	—
Moscow	29.6	321	i 5	46	0	10	25	+ 1	6	26	pP	—
Jerusalem	30.0	271	i 5	11	-39	—	—	—	i 8	8	?	—
Sian	30.8	83	—	—	—	i 10	44	+ 1	—	—	—	—
Bucharest	34.8	297	6	33	+ 2	e 12	52	?	7	46	PP	—
Pulkovo	34.9	325	i 6	33	+ 1	e 11	48	+ 2	e 7	17	pP	c 18.3
Peking	35.2	70	e 7	22	PP	e 11	56	+ 5	—	—	—	—
Sofia	36.9	295	i 6	50	+ 1	e 12	7	-10	8	1	PP	—
Athens	37.4	287	i 6	54 <sub>a</sub>	+ 1	e 12	29	+ 5	e 7	37	pP	—
Apatity	37.6	337	i 6	55 <sub>a</sub>	0	i 12	29	+ 2	i 7	40	pP	—
Warsaw	38.2	310	i 7	1	+ 1	e 8	34	PP	e 9	10	PPP	e 14.7
Belgrade	38.7	298	i 7	6 <sub>a</sub>	+ 2	—	—	—	e 9	49	PcP	e 17.4
Nanking	39.3	82	—	—	—	e 12	43	-10	—	—	—	—
Sodankyla	39.7	335	i 7	13	+ 1	i 13	1	+ 2	i 8	0	pP	—
Bratislava	40.8	304	i 7	21	0	i 9	1	PP	i 8	3	pP	—
Upsala	41.0	322	i 7	22 <sub>a</sub>	- 1	i 13	19	+ 1	i 8	10	pP	—
Medan	41.5	136	e 8	37	?	e 13	23	- 2	—	—	—	—
Zô-Sê	41.6	82	—	—	—	e 13	28	+ 2	—	—	—	—
Kiruna	42.0	334	i 7	31 <sub>a</sub>	0	i 13	35	+ 3	i 8	19	pP	i 22.4
Prague	42.4	307	i 7	35 <sub>a</sub>	+ 1	e 15	5	sS	i 8	57	sP	e 19.7
Triest	43.3	301	e 7	42	+ 1	e 9	28	PP	e 8	9	pP	—
Copenhagen	43.4	315	i 7	43	+ 1	e 13	59	+ 6	i 10	37	PPP	—
Messina	43.6	290	i 7	43	- 1	—	—	—	e 9	1	sP	—
Jena	44.1	308	i 7	48	0	—	—	—	e 8	38	pP	—
Skalstugan	44.2	327	i 7	48 <sub>a</sub>	0	i 9	40	PP	i 8	35	pP	—
Hamburg	44.9	312	e 7	55 <sub>a</sub>	+ 1	—	—	—	e 9	49	PP	e 17.7
Rome	45.0	296	i 7	55 <sub>a</sub>	0	e 14	19	+ 3	e 9	5	pP	—
Florence	45.4	298	i 7	59 <sub>a</sub>	+ 1	e 14	24	+ 3	i 9	10	pP	—
Tiksi	45.6	22	e 7	57	- 3	e 14	22	- 2	e 9	48	PP	—
Stuttgart	45.9	306	i 8	3 <sub>a</sub>	+ 1	e 14	32	+ 4	e 9	13	pP	—
Ebingen	46.1	305	i 8	4 <sub>a</sub>	0	—	—	—	—	—	—	—
Karlsruhe	46.4	306	i 8	7 <sub>k</sub>	+ 1	—	—	—	—	—	—	—
Pavia	46.6	301	e 8	8 <sub>a</sub>	+ 1	e 10	4	PPP	e 9	23	pP	—
Zürich	46.6	304	c 8	10	+ 3	—	—	—	e 8	44	?	—
Strasbourg	46.9	306	e 8	9 <sub>a</sub>	- 1	e 16	15	sS	e 9	3	pP	—
Witteveen	47.0	312	i 8	11	+ 1	—	—	—	—	—	—	—
Basle	47.2	304	i 8	12 <sub>k</sub>	0	—	—	—	e 10	25	PPP	—
Neuchatel	47.7	304	i 8	15	- 1	—	—	—	—	—	—	—
De Bilt	48.0	311	i 8	18 <sub>a</sub>	0	e 14	55?	- 3	e 16	13?	sS	—
Monaco	48.1	299	i 8	19 <sub>a</sub>	0	e 10	11	PP	e 9	10	pP	—
Uccle	48.7	309	e 8	23	- 1	—	—	—	e 11	27	ppP	—
Paris	50.3	307	e 8	35	- 1	e 17	17	?	e 9	51	pP	—
Clermont-Ferrand	50.6	303	i 8	38	0	—	—	—	—	—	—	25.7
Kew	51.4	311	i 8	43	- 1	e 15	48	+ 3	e 9	33	pP	e 19.7
Matusiro	52.8	69	8	13	-41	9	58	PP	i 8	53	P	—
Rathfarnham C.	54.5	314	i 9	7 <sub>k</sub>	0	—	—	—	e 11	8	PP	e 21.2
Astrida	54.8	234	e 9	7	- 2	—	—	—	e 10	25	pP	—
Lwiro	55.2	235	c 9	9 <sub>a</sub>	- 3	—	—	—	e 10	3	pP	—
Alicante	55.5	295	9	6	- 8	16	27	-13	12	40	PPP	—
Scoresby Sund	57.0	336	i 9	26	+ 2	e 17	7	+ 7	e 23	34	SSS	—
Almeria	57.5	294	i 9	26	- 2	—	—	—	10	41	PcP	—
Toledo	57.5	298	i 9	27 <sub>a</sub>	- 1	16	54	-12	i 10	42	PcP	—
Tamanrasset	57.6	276	i 9	27 <sub>a</sub>	- 2	e 11	36	PP	e 10	21	pP	—
Granada	58.2	295	i 9	30 <sub>k</sub>	- 3	—	—	—	e 10	49	PcP	22.7
Reykjavik	59.0	329	i 9	40 <sub>k</sub>	+ 2	—	—	—	—	—	—	—
Tananarive	59.5	206	i 9	41 <sub>a</sub>	- 1	e 11	5	PcP	e 10	34	pP	—
Lisbon	61.6	299	i 9	57 <sub>k</sub>	+ 1	—	—	—	—	—	—	—
Resolute Bay	68.6	356	c 10	39 <sub>a</sub>	- 2	e 19	19	- 5	e 11	33	pP	—
Pretoria	74.0	220	i 11	11	- 2	—	—	—	—	—	—	—

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
College		74.4	16	i 11 14	- 1	—	—	i 12 7	pP	—
Pietermaritzburg	z.	76.2	216	i 11 25	0	—	—	—	—	—
Kimberley	z.	78.2	220	i 11 2k	-34	—	—	—	—	—
Grahamstown	z.	81.0	216	i 11 49	- 2	—	—	i 12 45	pP	—
Sitka		84.1	14	e 12 7	0	—	—	e 13 2	pP	—
Seven Falls		90.0	335	e 12 35k	0	—	—	—	—	—
Shawinigan Falls		91.1	336	i 12 42k	+ 2	—	—	—	—	—
Kirkland Lake	z.	91.8	341	e 12 44k	0	—	—	—	—	—
Ottawa		93.1	337	e 12 50k	0	—	—	—	—	—
Hungry Horse		95.3	4	e 12 59	- 1	c 16 39	PP	e 13 54	pP	—
Seattle	z.	95.3	9	i 13 2	+ 2	—	—	—	—	—
Bozeman		98.1	2	e 13 14	+ 2	c 17 26	PP	e 14 9	pP	—
Rapid City	E.	99.5	356	e 13 20	+ 1	c 17 26	PP	e 14 16	pP	—
Eureka		104.0	6	e 13 40	+ 1	—	—	e 17 31	PP	—
Huancayo	z.	141.2	300	e 19 0	[- 4]	c 22 51	PKS	e 22 15	PP	—

July 4d. 0h. 39m. 58s. Epicentre 19°·0S. 178°·2W. Depth of focus 0·070.

A = -·9457, B = -·0297, C = -·3236 ;  $\delta$  = -5 ; h = +5 ;  
D = -·031, E = +1·000 ; G = +·323, H = +·010, K = -·946.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Suva	N.	3.3	284	c 1 11	- 1	2 7	- 2	—	—	—
Apia		8.1	51	1 48	-10	3 13	-19	—	—	—
Nouméa		14.8	254	i 3 10 <sub>a</sub>	+ 1	i 5 53	+11	c 3 24	PP	i 6.5
Onerahi	E.	18.0	200	c 3 43	+ 2	—	—	—	—	—
Karapiro	N.	19.7	195	3 58	0	c 7 21	+12	—	—	—
Tuai	N.	20.2	191	c 4 1	- 1	c 7 20	+ 3	—	—	—
Wellington	z.	23.0	194	i 4 27	- 1	e 8 17	+13	—	—	—
Cobb River	E.	23.4	198	e 4 30	- 2	—	—	—	—	—
Kaimata	N.E.	25.1	198	e 4 45	- 2	—	—	—	—	—
Brisbane		27.7	247	i 5 12	+ 2	i 9 22	+ 4	—	—	—
Riverview		31.1	235	i 5 41 <sub>a</sub>	+ 1	i 10 16	+ 5	i 15 27	ScS	—
Rabaul		32.5	293	e 5 49	- 2	—	—	—	—	—
Melbourne		37.2	232	e 6 33	+ 2	e 11 47	+ 3	e 15 57	ScS	—
Macquarie Is.		39.6	201	i 6 51	+ 1	—	—	—	—	—
Honolulu		44.6	27	c 7 29	- 1	—	—	—	—	—
Matusiro		68.9	324	i 10 17k	- 1	c 18 42	- 1	i 11 55	pP	—
Baguio		69.7	296	i 10 24	+ 2	c 18 46	- 6	—	—	—
Lembang		72.9	268	c 10 41	0	c 19 34	+ 6	—	—	—
Zô-Sè		76.6	310	11 3k	+ 1	—	—	—	—	—
Berkeley	z.	77.2	42	i 11 5	0	—	—	—	—	—
Lick	z.	77.2	43	e 11 5	0	—	—	i 14 6	PP	—
King Ranch	z.	77.3	46	i 11 7k	+ 1	—	—	c 12 46	pP	—
Hong Kong		77.8	298	e 11 10k	+ 2	—	—	—	—	—
Pasadena		77.8	47	i 11 9k	+ 1	—	—	—	—	—
Barratt	z.	78.0	49	i 11 18k	+ 9	—	—	—	—	—
Fresno	z.	78.1	44	i 11 10	0	—	—	e 13 48	PP	—
Woody	z.	78.1	46	c 11 11	+ 1	—	—	—	—	—
Palomar	z.	78.2	49	i 11 12k	+ 2	—	—	i 12 56	pP	—
Riverside	z.	78.2	48	i 11 11k	+ 1	c 14 10	PP	e 12 49	pP	—
Isabella	z.	78.4	46	i 11 12k	+ 1	—	—	i 12 49	pP	—
Shasta	z.	78.8	40	i 11 13	- 1	—	—	—	—	—
China Lake	z.	79.1	46	i 11 17k	+ 2	—	—	e 12 55	pP	—
Hayfield	N.	79.3	49	i 11 11	- 5	—	—	—	—	—
Reno	z.	79.7	42	e 11 19	+ 1	—	—	—	—	—
Corvallis	E.	80.6	36	e 11 23	0	—	—	—	—	—
Boulder City		81.0	47	i 11 26	+ 1	—	—	—	—	—
Eureka		82.1	44	i 11 32	+ 1	i 20 44	-21	c 13 11	pP	—
Tucson		82.1	52	i 11 33	+ 2	—	—	—	—	—
Seattle	z.	83.0	34	e 11 38	+ 3	—	—	—	—	—
Horseshoe Bay		83.6	32	i 11 39	+ 1	—	—	—	—	—

Continued on next page.



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		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Sitka		83.8	22	i 11	39	0	—	—	—	—	—	—
Peking		84.7	315	i 11	44 <sup>k</sup>	0	—	—	—	—	—	—
Salt Lake City		85.5	44	e 11	48	+ 1	—	—	e 13	28	pP	—
College		86.8	12	i 11	52	- 2	e 21	50	0	i 13	35	pP
Siam		87.2	308	e 12	2	+ 6	—	—	—	—	—	—
Butte	N.	87.7	39	i 11	59	+ 1	—	—	—	c 13	39	pP
Hungry Horse		88.0	37	i 11	59	0	i 21	47	[+ 6]	e 15	31	PP
Bozeman		88.4	40	i 12	4	+ 3	e 15	37	PP	e 13	44	pP
Boulder		89.6	47	i 12	8	+ 1	—	—	—	—	—	—
Rapid City	E.	92.7	44	e 12	23	+ 2	—	—	—	—	—	—
Kirkland Lake	Z.	109.2	45	e 17	36	PP	—	—	—	e 20	54	pPPP
Ottawa		111.9	48	e 17	42	[+ 2]	—	—	—	20	42	pPP
Shawinigan Falls		114.0	47	e 17	46	[+ 2]	—	—	—	—	—	—
Quetta	Z.	120.4	294	e 17	59	[+ 3]	—	—	—	e 19	38	pPKP
Scoresby Sund	Z.	126.5	10	i 18	11	[+ 3]	—	—	—	e 20	8	pPKP
Kimberley	Z.	127.6	206	i 18	14 <sup>k</sup>	[+ 4]	—	—	—	—	—	—
Sodankyla		129.1	348	i 18	14	[+ 1]	i 20	55	SKP	e 20	26	PP
Kiruna		129.7	351	i 18	7	[- 7]	i 20	56	SKP	i 21	37	PKS
Skalstugan		134.8	353	i 18	16	[- 8]	—	—	—	i 21	15	SKP
Upsala		137.6	348	i 18	19	[- 10]	—	—	—	i 21	24	SKP
Copenhagen	Z.	142.5	350	i 18	37 <sup>k</sup>	[- 2]	—	—	—	i 18	41	PKP <sub>2</sub>
Warsaw	Z.	143.6	340	e 18	42	[+ 2]	—	—	—	e 21	42	SKP
Hamburg		144.9	352	i 18	45 <sup>a</sup>	[+ 3]	—	—	—	—	—	—
Uvira		145.1	233	e 18	48	[+ 5]	—	—	—	e 20	50	PP
Astrida		145.2	235	e 18	47	[+ 4]	—	—	—	e 20	50	PP
Rathfarnham C.	Z.	145.2	8	i 18	44 <sup>k</sup>	[+ 1]	—	—	—	e 19	16	?
Witteveen	Z.	146.0	355	i 18	48	[+ 4]	—	—	—	—	—	—
Lwiro		146.1	234	e 18	51 <sup>a</sup>	[+ 7]	—	—	—	e 20	37	PP
De Bilt		146.8	356	i 18	48	[+ 3]	—	—	—	—	—	—
Jena		147.2	349	e 18	49	[+ 3]	e 20	36	PP	e 21	18	SKP
Jerusalem		147.4	300	i 18	37	[- 9]	—	—	—	i 21	38	SKP
Prague		147.4	345	i 18	52	[+ 6]	e 27	13	SKKS	i 20	15	?
Bucharest		147.5	327	e 20	2	pPKP	—	—	—	—	—	—
Kew		147.5	2	i 18	51	[+ 5]	—	—	—	—	—	—
Uccle		148.2	357	e 18	52	[+ 5]	—	—	—	e 20	43	pPKP <sub>2</sub>
Bratislava		148.3	340	i 18	53	[+ 6]	—	—	—	i 19	2	PKP <sub>2</sub>
Stuttgart		149.7	350	e 18	52	[+ 3]	e 28	44	SKKS	—	—	—
Strasbourg		150.1	352	e 18	58 <sup>k</sup>	[+ 8]	e 22	38	PP	e 20	50	pPKP
Paris		150.2	359	e 18	54	[+ 4]	e 22	29	PKS	e 20	50	pPKP
Sofia		150.2	327	i 18	57	[+ 7]	i 21	15	?	i 20	53	pPKP
Ebingen		150.3	350	e 18	58	[+ 8]	—	—	—	—	—	—
Basle		151.1	352	e 19	10	[+ 19]	—	—	—	—	—	—
Zürich		151.1	350	e 19	0	[+ 9]	—	—	—	e 19	12	PKP <sub>2</sub>
Triest		151.6	342	e 19	13	[+ 21]	—	—	—	e 19	24	PKP <sub>2</sub>
Neuchatel		151.7	353	e 19	2	[+ 10]	—	—	—	—	—	—
Clermont-Ferrand		153.2	358	i 19	6	[+ 12]	—	—	—	i 19	20	PKP <sub>2</sub>
Florence		154.0	344	e 18	57	[+ 1]	—	—	—	e 19	24	PKP <sub>2</sub>
Monaco		154.9	350	i 19	26	PKP <sub>2</sub>	—	—	—	e 20	12	?
Toledo	Z.	158.5	12	i 19	42 <sup>a</sup>	PKP <sub>2</sub>	—	—	—	—	—	—
Algiers Univ.	Z.	162.2	357	e 19	58	PKP <sub>2</sub>	—	—	—	—	—	—
Tamanrasset	Z.	174.9	318	e 19	18	[+ 5]	e 24	46	PP	e 20	56	pPKP

July 4d. 3h. 42m. 49s. Epicentre 6°·9S. 155°·7E. (as on 1957, May 19d.).

A = -·9049, B = +·4086, C = -·1194;  $\delta = +5$ ;  $h = +7$ ;  
D = +·412, E = +·911; G = +·109, H = -·049, K = -·993.

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Rabaul	Z.	4.4	307	e 1	13	+ 3	e 2	10	+ 8	i 1	24	P <sub>g</sub>
Nouméa		18.5	147	i 4	22	+ 3	i 7	47	+ 3	i 4	37	PP
Brisbane		20.6	187	i 4	39	- 4	i 8	29	0	—	—	—
Riverview		27.1	188	e 5	47	+ 1	i 10	19	- 5	i 6	27	PP
Melbourne		32.3	196	e 6	37	+ 4	e 11	41	- 5	—	—	e 13.5 e 15.6

Continued on next page.

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	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Manila	40.5	302	i 7 44	+ 2	i 13 50	- 2	—	—
Baguio	41.8	304	i 7 54	+ 1	i 14 11	0	—	—
Perth	z. 44.7	231	—	—	e 14 21	-33	i 18 23	e 22.9
Matusiro	z. 46.2	340	i 8 29 <sub>a</sub>	+ 1	—	—	10 4	PcP
Lembang	47.7	267	e 8 38	- 2	e 15 31	- 5	e 18 34	SS
Hong Kong	50.0	307	9 0 <sub>a</sub>	+ 2	e 16 11?	+ 2	—	—
Zô-Sè	50.2	321	i 9 0 <sub>a</sub>	0	e 16 10	- 1	—	—
Canton	51.1	307	9 8 <sub>a</sub>	+ 2	16 28	+ 4	—	—
Peking	59.2	325	10 5 <sub>a</sub>	0	18 12	0	—	—
Petropavlovsk	59.9	2	10 9	- 1	18 41	+20	—	—
Sian	60.2	315	e 11 36	PcP	—	—	—	—
Shillong	69.9	300	i 11 14	- 1	e 20 21	- 3	—	—
Chatra	z. 74.3	300	i 11 41	0	—	—	—	—
Tiksi	80.4	352	12 14	- 1	—	—	—	—
College	82.8	21	i 12 26	- 1	—	—	—	—
Lahore	86.3	302	12 44	- 1	—	—	—	—
Frunse	88.2	313	12 55	+ 1	—	—	—	—
King Ranch	z. 89.5	54	e 13 3	+ 3	—	—	—	—
Namangan	90.0	311	13 3	0	—	—	—	—
Isabella	z. 90.6	54	e 13 6	+ 1	—	—	—	—
Pasadena	90.6	56	i 13 5	0	—	—	—	i 41.2
Riverside	z. 91.2	56	i 13 8	0	—	—	—	—
China Lake	z. 91.3	54	e 13 8	- 1	—	—	—	—
Quetta	92.4	300	i 13 13 <sub>a</sub>	- 1	e 24 17	+ 1	—	—
Eureka	93.0	51	i 13 17	0	—	—	—	—
Hungry Horse	95.3	42	e 13 47	+20	—	—	—	—
Salt Lake City	96.3	50	e 13 33	+ 1	—	—	—	—
Tucson	96.6	58	e 17 25	PP	—	—	—	—
Sverdlovsk	98.5	326	13 40	- 2	—	—	—	—
Kiruna	112.2	343	i 18 37	[ 0]	—	—	—	—
Skalstugan	117.6	342	i 18 48 <sub>k</sub>	[ 0]	—	—	i 20 0	PP
Upsala	118.4	338	i 18 49	[- 1]	—	—	—	—
Ksara	118.5	305	—	—	(37 11?)	SSP	e 22 10	PKS
Ottawa	121.4	40	e 18 55 <sub>k</sub>	[ 0]	—	—	—	—
Warsaw	z. 121.6	329	e 18 58	[+ 2]	—	—	e 20 32	PP
Shawinigan Falls	122.7	38	e 18 58	[ 0]	—	—	—	—
Hamburg	z. 125.8	336	i 19 6 <sub>a</sub>	[+ 2]	—	—	—	—
Huancayo	z. 125.9	110	i 19 7	[+ 3]	—	—	—	—
Jena	z. 127.0	332	e 19 6	[ 0]	—	—	—	—
Witteveen	z. 127.7	337	e 19 9	[+ 1]	—	—	—	—
Stuttgart	129.6	332	e 19 11	[ 0]	e 22 39	SKP	e 21 25	PP
Ebingen	130.1	331	e 19 12	[ 0]	—	—	—	—
Uccle	130.2	336	e 19 13	[+ 1]	e 22 36	PKS	—	e 60.2
Strasbourg	130.4	332	e 19 13	[ 0]	e 22 34	PKS	e 21 29	PP
La Paz	130.8	119	19 18	[+ 4]	26 26	[+ 4]	22 39	PKS
Rathfarnham C.	z. 131.5	346	i 19 15	[ 0]	—	—	—	—
Florence	z. 131.9	326	i 19 16 <sub>k</sub>	[ 0]	i 22 42	PKS	—	—
Neuchatel	131.9	332	—	—	e 22 45	PKS	—	—
Pavia	132.1	328	—	—	e 22 37	PKS	e 23 33	?
Rome	132.3	323	i 19 17 <sub>k</sub>	[+ 1]	e 26 52	[+26]	e 21 39	PP
Paris	132.5	336	e 19 12	[- 5]	e 22 36	PKS	e 21 39	PP
Clermont-Ferrand	134.6	333	e 19 23	[+ 2]	—	—	—	e 57.2
Algiers Univ.	z. 141.2	324	e 19 33	[ 0]	e 22 37	PP	e 25 0	PPP
Relizane	143.4	325	e 19 35	[- 1]	—	—	—	—
Almeria	144.2	329	i 19 36	[- 2]	—	—	—	—
Granada	144.5	331	i 19 38 <sub>k</sub>	[ 0]	e 32 56	PS	—	68.4
Lisbon	145.5	339	i 19 43 <sub>a</sub>	[+ 3]	—	—	—	—
Tamanrasset	z. 147.3	302	i 19 45	+ 2]	—	—	e 23 10	PP



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July 9d. 3h. 11m. 40s. Epicentre 36°·73N. 25°·80E.

For details of local intensities and damage, etc., see the Greek Seismo. Institute Bull. for 1956, Athens 1957, pp. 42-47.

A = +·7234, B = +·3496, C = +·5954;  $\delta = +3$ ;  $h = 0$ ;  
D = +·435, E = -·900; G = +·536, H = +·259, K = -·803.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Athens	2·1	308	e 0 36	- 1	e 1 7	+ 1*	—	—
Sofia	6·3	343	1 38	+ 2	e 2 45	- 5	1 50	P*
Taranto	7·7	302	1 55	0	—	—	—	—
Bucharest	7·7	2	i 1 54 <sub>a</sub>	- 2	i 3 52	- 1*	i 3 29	S
Reggio Calabria	8·2	283	e 2 3 <sub>k</sub>	0	i 3 41	+ 3	i 4 40	S <sub>g</sub>
Messina	8·3	283	e 2 3	0	i 3 40	0	3 22	?
Campulung	8·6	356	e 2 7	- 2	e 3 44	- 4	i 4 34	S <sub>g</sub>
Ksara	8·7	106	i 2 5	- 5	i 3 43	- 7	i 2 13	PP
Focsani	9·0	6	e 2 20	+ 7	i 4 28	- 3*	e 4 10	S
Belgrade	9·0	335	i 2 16 <sub>a</sub>	+ 3	i 4 39	+ 8*	i 2 22	PP
Jerusalem	9·2	120	i 2 14 <sub>a</sub>	- 2	i 3 50	-13	—	—
Timisoara	9·6	340	i 2 27	+ 5	e 5 20	+ 3 <sub>g</sub>	e 5 12	?
Bacau	9·9	4	e 2 28	+ 3	e 4 20	0	i 5 8	S*
Szeged	10·4	338	2 34	0	4 30	- 2	e 5 29	S <sub>g</sub>
Iasi	10·6	7	e 2 32	- 4	i 4 30	- 7	i 5 14	S*
Kalossa	11·0	335	e 2 42	0	4 57	+10	2 52	PP
Kecskemet	11·2	338	e 2 45	+ 1	4 47	- 5	2 52	PP
Rome	11·5	301	i 2 47 <sub>a</sub>	- 1	i 5 17	+18	i 3 4	P*
Budapest	11·8	337	2 52	- 1	e 4 42	-24	i 3 0	PP
Hurbanovo	12·5	336	i 3 0 <sub>a</sub>	- 2	i 5 34	+11	3 8	PP
Tunis	12·6	275	e 3 1	- 2	i 5 26	0	i 3 11	PP
Triest	12·7	318	i 3 1 <sub>a</sub>	- 4	i 5 16?	-12	i 4 4	?
Skalnate Pleso	13·1	344	i 3 12	+ 2	i 5 45	+ 7	5 56	SS
Bratislava	13·1	333	i 3 9	- 1	i 5 44	+ 6	i 3 21	PP
Florence	13·2	307	i 3 10	- 1	i 5 38	- 2	i 3 16	PP
Prato	13·3	307	i 3 9	- 4	i 5 48	+ 6	—	—
Vienna	13·4	332	e 3 15	0	i 5 39	+ 6	i 8 45	PcP
Bologna	13·4	310	e 3 17 <sub>a</sub>	+ 2	e 5 51	+ 5	e 4 15	?
Cuglieri	13·9	290	i 3 20	- 1	i 6 22	SS	i 5 5	?
Pavia	15·1	309	i 3 38 <sub>a</sub>	+ 2	e 6 19	- 6	e 4 53	?
Tiflis	15·5	65	3 41	- 1	e 6 58	SS	—	—
Monaco	15·7	302	e 3 42 <sub>a</sub>	- 2	i 6 32	- 7	i 3 55	PP
Prague	15·7	332	i 3 42 <sub>k</sub>	- 2	i 6 53	SS	3 55	PP
Chur	15·8	315	e 3 46	+ 1	i 7 7	SS	—	—
Warsaw	15·9	349	i 3 46	0	e 6 46?	+ 2	—	—
Ravensburg	16·3	319	e 3 58	+ 6	e 7 13	+20	—	—
Goris	16·4	74	i 3 53	0	i 7 16	SS	—	—
Zürich	16·6	315	i 3 57	+ 1	i 7 10	+10	—	—
Ebingen	16·8	319	e 3 58	0	i 7 15	+10	—	—
Stuttgart	17·1	320	i 4 0 <sub>a</sub>	- 2	i 7 20	+ 8	—	—
Basle	17·2	314	e 4 5 <sub>a</sub>	+ 1	e 7 29	+14	—	—
Neuchatel	17·3	312	i 4 5	0	e 7 26	+ 8	—	—
Jena	17·5	329	e 4 5	- 1	i 7 36	SS	i 4 13	PP
Karlsruhe	17·6	319	e 4 7 <sub>a</sub>	- 1	i 7 42	SS	—	—
Strasbourg	17·7	318	i 4 9 <sub>a</sub>	- 1	i 7 38	SS	i 4 22	PP
Besançon	18·0	312	i 4 14	0	i 7 41	+ 7	i 8 3	SS
Algiers Univ.	18·2	277	e 4 16	0	i 7 47	+ 9	e 4 33	PP
Barcelona	18·9	292	i 4 24	- 1	i 8 1	+ 7	—	—
Clermont-Ferrand	19·2	305	i 4 27 <sub>a</sub>	- 1	i 8 12	+12	i 4 35	PP
Hamburg	20·1	332	i 4 36 <sub>a</sub>	- 2	e 8 29	+10	e 8 36	SS
Relizane	20·4	275	e 4 40	- 1	—	—	e 4 44	P
Moscow	20·6	19	4 41	- 2	8 26	- 3	—	—
Uccle	20·8	319	e 4 46 <sub>a</sub>	0	e 8 32	- 1	i 8 49	SS
Paris	20·8	313	i 4 44	- 1	i 8 42	+ 8	i 4 57	PP
Alicante	20·9	282	i 4 44	- 2	i 8 39	+ 4	5 9	PP

Continued on next page.

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		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Witteveen	z.	20.9	326	14	46 <sub>a</sub>	-1	18	56	SS	—	—	—	
Copenhagen		21.0	339	14	47 <sub>a</sub>	0	18	45	+8	—	—	—	
De Bilt		21.2	323	14	49 <sub>a</sub>	0	18	53	+12	—	—	e 10.8	
Tamanrasset	z.	22.4	237	15	1 <sub>k</sub>	0	e 9	10	+6	—	—	—	
Almeria		22.6	279	15	13	+10	i 9	19	+12	—	—	12.7	
Pulkovo		23.3	6	15	8	-2	i 9	22?	+2	—	—	—	
Granada		23.5	280	15	12 <sub>k</sub>	0	i 9	30	+7	5	36	PP	11.9
Helsinki		23.5	359	15	12	0	i 9	35	+12	—	—	—	i 11.9
Toledo		23.6	287	15	14	+1	i 9	34	+9	9	1	PcP	13.1
Kew		23.7	317	15	14	0	i 9	22	-5	i 5	48	PP	e 9.8
Upsala		23.7	350	15	13 <sub>a</sub>	-1	i 9	32	+5	i 7	22	?	i 13.4
Jersey	E.	23.8	310	15	15	0	i 9	42	+15	—	—	—	—
Ashkabad		25.8	77	15	32	-2	i 10	18	+16	—	—	—	—
Durham		26.0	323	15	37 <sub>a</sub>	+1	i 10	19	+13	i 9	13	PcP	—
Edinburgh	E.	27.4	324	e 5	43	-6	e 10	18	+10	9	6	PcP	—
Aberdeen		27.6	327	15	52	+1	i 10	40	+8	i 6	40	PP	13.3
Lisbon		27.6	285	e 5	53 <sub>a</sub>	+2	i 10	33	+1	i 5	59	pP	—
Rathfarnham Castle		27.8	317	15	51 <sub>a</sub>	-1	i 10	37	+2	i 6	35	PP	i 13.4
Skalstugan		28.1	347	15	52	-3	—	—	—	—	—	—	—
Sodankyla		30.7	1	16	18	-1	—	—	—	—	—	—	—
Apatity		31.2	6	16	24 <sub>a</sub>	+1	—	—	—	—	—	—	—
Kiruna		31.3	356	16	21 <sub>a</sub>	-3	i 11	48	+19	i 7	25	PP	—
Tashkent		33.8	69	e 6	43	-3	i 12	22	+12	i 9	24	PcP	—
Stalinabad		33.8	74	16	43	-3	i 12	10	0	—	—	—	—
Quetta		34.7	89	16	51	-3	i 12	7	-17	i 8	10	PP	—
Frunse		37.5	65	17	17	0	—	—	—	i 7	26	?	—
Lome		37.8	222	17	8	-12	—	—	—	—	—	—	—
Vik	N.	38.0	329	e 7	36?	+15	e 11	0?	?	e 9	5?	PP	e 19.3
Akureyri	N.	38.6	333	e 7	37	+11	i 13	59	PS	e 9	4	PP	e 20.3
Lwiro		38.9	175	16	48 <sub>k</sub>	-41	i 12	31	-58	—	—	—	—
Astrida		39.3	174	17	31 <sub>k</sub>	-1	i 13	34	0	—	—	—	—
Reykjavik		39.4	329	17	34 <sub>a</sub>	0	e 13	40	+4	e 9	10	PP	e 22.3
Lahore		40.2	83	7	36	-3	—	—	—	—	—	—	—
Sempalatinsk		40.8	53	17	43	-2	—	—	—	i 9	28	PP	—
Angra do Heroismo		41.5	289	17	57	+6	i 14	16	+9	i 17	48	SSS	21.9
Scoresby Sund		42.1	338	e 7	54	-1	i 14	11	-5	i 9	31	PP	21.0
Dehra Dun		43.6	83	e 8	3	-4	i 14	35	-1	18	21	SSS	—
New Delhi		43.6	85	18	13 <sub>k</sub>	+5	i 14	46	+8	18	21	SSS	21.0
M'Bour		44.1	251	18	14	+2	i 14	50	+5	i 9	59	PP	—
Bombay		44.7	100	e 8	16	-1	i 15	3	+8	10	21	PP	21.2
Poona		45.8	100	18	20	-4	15	11	+2	10	10	PP	—
Hyderabad		50.0	98	18	57	-1	i 16	13	+4	11	6	PP	23.2
Ivigtut	N.	51.1	323	e 8	12	-54	i 15	26	-58	—	—	—	—
Chatra		52.3	82	19	12	-3	—	—	—	i 10	35	PcP	—
Bokaro	E.	52.6	86	19	13	-5	i 16	45	+1	11	9	PP	25.4
Madras	E.	53.9	101	19	25 <sub>k</sub>	-2	i 17	6	+4	11	27	PP	—
Yumen		54.5	63	9	28	-4	—	—	—	—	—	—	—
Irkutsk		55.4	47	9	35 <sub>k</sub>	-3	12	51	PPP	e 10	37	PcP	—
Shillong		56.6	81	19	44	-3	i 17	40	+2	11	37	PP	—
Colombo	E.	57.4	107	19	49	-3	i 17	53	+4	—	—	—	e 30.3
Changyeh		57.5	63	9	55	+2	—	—	—	—	—	—	—
Tananarive		59.0	156	e 10	3 <sub>a</sub>	-1	i 18	15	+5	10	44	PcP	27.7
Sining		59.3	65	e 10	4	-2	—	—	—	—	—	—	—
Wuwei		59.4	63	10	4	-2	—	—	—	—	—	—	—
Tiksi		59.5	21	10	2	-5	i 13	35	PPP	e 10	45	PcP	—
Lanchow		61.0	65	e 10	17	-1	—	—	—	—	—	—	—
Pretoria	z.	62.2	178	i 10	24 <sub>a</sub>	-1	—	—	—	—	—	—	—
Resolute Bay		62.3	345	e 10	20	-6	e 18	46	-6	e 13	9	PP	—
Pactow		63.4	58	10	31	-3	—	—	—	—	—	—	—
Halifax		65.0	308	i 10	45 <sub>a</sub> ?	+1	—	—	—	—	—	—	—
Kimberley	z.	65.1	181	i 10	42 <sub>a</sub>	-3	—	—	—	—	—	—	—
Sian		65.6	65	e 10	48	0	—	—	—	—	—	—	—
Tatung		65.8	57	10	48	-1	—	—	—	—	—	—	—
Pietermaritzburg	z.	66.1	176	i 10	50 <sub>k</sub>	-1	—	—	—	—	—	—	—
Taiyuan		66.5	60	e 10	53	-1	—	—	—	—	—	—	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Linfen	66.6	62	e 10 55	+ 1	—	—	—	—
Peking	67.8	56	i 10 59 <sub>k</sub>	- 3	20 0	0	i 13 40	PP
Seven Falls	68.2	313	e 11 3 <sub>a</sub>	- 1	e 20 7	+ 3	13 39	PP
Shawinigan Falls	69.6	313	e 11 11 <sub>a</sub>	- 2	e 20 20	- 1	14 1	PP
Grahamstown z.	69.7	179	i 11 12 <sub>a</sub>	- 2	—	—	—	—
Brébeuf	70.7	313	i 11 19 <sub>k</sub>	0	20 43	+ 9	i 13 52	PP
Changchun	71.6	49	11 21	- 4	e 20 48	+ 4	i 13 58	PP
Ottawa	72.0	313	e 11 26 <sub>a</sub>	- 1	e 20 48	0	13 58	PP
Kirkland Lake	72.8	318	e 11 30 <sub>a</sub>	- 2	e 21 4	+ 6	e 14 19	PP
Palisades	73.3	309	e 11 34	- 1	i 21 5	+ 1	e 14 21	PP e 34.2
Fordham	73.4	309	e 11 35	- 1	e 21 8	+ 3	—	—
City College, N.Y.	73.5	309	i 11 25	-11	—	—	—	—
Nanking	73.8	62	11 35 <sub>k</sub>	- 3	21 9	0	14 25	PP
Magadan	73.9	26	e 11 36	- 2	—	—	i 11 48	PcP
Canton	74.7	73	11 41 <sub>k</sub>	- 2	i 21 18	0	—	—
Philadelphia	74.7	308	e 11 45	+ 2	e 21 21	+ 2	e 16 21	PPP e 31.8
Buffalo L.	75.1	313	11 45	- 1	—	—	—	—
Hong Kong	75.8	72	e 11 48	- 2	21 40	+ 9	i 11 50	PcP
Pennsylvania	75.9	310	i 11 53	+ 3	i 21 43	+11	i 16 53	PPP
Vladivostok	76.0	46	i 11 46	- 4	i 21 36	+ 2	—	—
Zô-Sè	76.0	62	i 11 48 <sub>k</sub>	- 3	21 34	0	14 45	PP
Washington z.	76.5	308	e 11 53 <sub>k</sub>	- 1	i 21 57	+18	e 14 49	PP i 30.7
Pittsburgh	77.4	311	i 11 57	- 1	—	—	i 14 55	PP
Cleveland	77.7	313	i 12 5 <sub>a</sub>	+ 5	i 21 58	+ 6	—	—
College	78.6	357	i 12 4	- 1	i 21 36	-26	i 14 54	PP i 33.3
Barbados	78.6	278	e 12 16	+11	—	—	—	—
Fort-de-France	78.9	280	i 12 8	+ 1	i 22 6	+ 1	—	—
Yuzno-Sakhlinsk	79.4	38	i 12 6	- 2	i 22 13	+ 3	i 17 1	PPP
Chapel Hill	79.6	307	i 12 9	- 1	—	—	—	—
Taichung	79.6	68	e 12 20	+ 9	22 19	+ 7	—	—
Taipei	79.8	66	e 12 13	+ 2	22 13	- 1	—	—
Wakkanai E.	79.9	40	e 12 22	+10	e 22 23	+ 7	—	—
St. Vincent	79.9	279	i 12 13	+ 1	—	—	—	—
Duluth	79.9	322	i 12 9	- 3	—	—	—	—
Tainan	80.0	69	e 12 25	+12	22 20	+ 3	—	—
Ilan	80.1	67	e 12 23	+10	21 45	-33	—	—
Tomie N.	80.4	56	e 12 27	+12	e 22 19	- 2	—	e 31.6
Hwalien	80.4	67	12 17	+ 2	22 27	+ 6	—	—
San Juan	80.7	286	i 12 16 <sub>a</sub>	0	i 22 24	0	e 15 22	PP e 33.8
Hsinkong	80.8	68	e 12 22	+ 5	22 29	+ 4	—	—
Taitung	80.8	69	e 12 21	+ 4	—	—	—	—
Suttsu	80.9	43	e 12 26	+ 9	—	—	—	e 43.8
Hukuoka	80.9	55	e 12 22	+ 5	22 29	+ 3	—	e 39.5
Hengchun	80.9	69	e 12 19	+ 1	e 22 25	- 1	—	—
Chicago	81.0	316	e 12 17	- 1	i 22 23	- 4	e 15 31	PP e 34.4
Saga	81.0	55	e 12 46	+28	i 22 35	+ 8	—	e 44.3
Nagasaki E.	81.0	56	e 12 31	+13	e 22 25	- 2	e 15 31	PP 45.0
Saigo	81.1	51	e 12 19	0	e 22 9	-19	e 31 15	SSS
Hamada	81.1	53	e 12 23	+ 4	e 22 31	+ 3	e 15 32	PP e 39.6
Sapporo	81.3	42	e 12 22	+ 2	e 22 25	- 5	e 15 29	PP i 45.8
Asahigawa	81.4	41	e 12 24	+ 4	—	—	—	44.5
Matsue	81.4	52	12 21	+ 1	22 37	+ 6	—	—
Kumamoto	81.5	55	e 12 22	+ 1	22 28	- 4	—	32.0
Mori	81.5	43	12 22	+ 1	e 22 20	-12	e 16 28	? 41.8
Trinidad	81.6	277	e 12 30?	+ 9	—	—	—	—
Petropavlovsk	81.6	26	e 12 18	- 3	e 22 36	+ 3	e 15 33	PP
Hirosima	81.7	53	e 12 18	- 4	e 22 30	- 4	e 15 21	PP e 39.4
Hakodate	81.8	43	e 12 27	+ 5	—	—	—	—
Ooita	81.9	54	e 12 35	+12	e 22 3	-33	e 15 39	PP e 40.3
Columbia	82.1	307	e 12 23	- 1	i 22 33	- 5	e 15 24	PP e 35.0
Abashiri E.	82.2	40	e 12 24	0	—	—	—	—
Kagosima	82.2	56	12 34	+10	22 36	- 3	—	—
Matuyama N.	82.2	53	e 12 23	- 1	e 22 35	- 4	e 15 47	PP e 43.2
Saskatoon	82.3	333	e 12 31	+ 6	—	—	—	—
Obihiro	82.4	41	e 12 29	+ 4	e 23 10	PS	—	e 46.3

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Terre Haute	82.4	314	i 12 23	- 2	e 23 40	- 1	—	—
Toyooka	82.5	51	e 12 26	0	e 22 43	+ 1	—	—
Aomori	82.5	44	i 12 40	+14	e 22 45	+ 3	—	e 46.3
Wazima	82.6	48	e 12 28	+ 2	e 22 43	0	(31 54)	e 31.9
Miyazaki	82.6	56	e 12 27	+ 1	22 40	- 3	e 15 33	SSS PP 42.7
Urakawa	82.7	42	e 12 28	+ 1	e 22 44	0	—	e 32.2
Yakusima	82.9	57	e 12 25	- 3	e 31 45	SSS	—	e 44.4
Akita	82.9	45	e 12 32	+ 4	22 54	+ 8	e 15 27	PP e 34.2
Koti	82.9	53	e 12 27	- 1	e 22 53	+ 7	e 15 39	PP 41.4
Aikawa	82.9	47	e 12 41	+13	e 22 50	+ 4	(31 31)	SSS 31.5
Kanazawa	83.0	49	e 12 33	+ 5	—	—	—	—
Kusiro	83.0	40	e 12 33	+ 5	e 22 47	0	—	e 33.3
Hukui	83.0	50	e 12 36	+ 8	e 22 52	+ 5	—	e 48.3
Simidu	83.0	54	e 12 23	- 5	e 22 43	- 5	—	e 32.3
Hatinohe	83.1	44	e 12 25	- 4	e 22 49	+ 1	—	e 40.7
Tsuruga	83.2	50	e 12 34	+ 5	e 22 46	- 3	32 42	Q 45.0
Toyama	83.2	49	e 12 28	- 1	e 22 48	- 1	15 48	PP 36.9
Kobe	83.2	51	e 12 33	+ 3	i 23 6	+17	e 15 46	PP —
Tokusima	83.3	52	e 12 34	+ 4	e 22 52	+ 2	15 44	PP 41.1
Sumoto	83.3	52	e 12 32	+ 2	22 58	+ 8	e 15 40	PP e 31.9
Sakata	83.3	46	e 13 0	+30	e 23 14	+24	—	—
Nemuro	83.3	40	e 12 32	+ 2	e 22 45	- 6	e 15 48	PP e 47.2
Kyoto	83.4	51	12 21	- 9	22 54	+ 3	—	—
Niigata	83.5	47	12 31	0	22 59	+ 7	e 34 30	Q e 39.0
Osaka	83.5	51	e 12 49	+18	e 22 56	+ 4	e 16 1	PP e 35.2
Morioka	83.5	45	e 12 29	- 2	e 22 48	- 4	(e 31 20)	SSS e 31.3
Hikone	83.5	50	e 12 33	+ 2	22 45	- 7	—	—
Takada	83.5	48	e 12 29	- 2	e 22 57	+ 4	—	—
Gihu	83.8	50	e 12 36	+ 4	e 22 56	+ 1	—	e 32.4
Nagano	83.8	48	e 12 32	0	22 58	+ 3	e 25 17	? e 45.0
Mizusawa	83.9	45	12 32	0	22 54	- 2	—	—
Matusiro	83.9	48	i 12 29k	- 4	22 52	- 4	28 55	SS 42.8
Matumoto	N. 83.9	49	e 12 36	+ 3	23 1	+ 4	—	e 32.6
Kameyama	83.9	51	e 12 31	- 2	e 22 56	0	e 23 48	PS e 35.6
Miyako	84.0	44	e 12 35	+ 2	22 53	- 4	15 50	PP 37.4
Yamagata	84.0	46	e 12 32	- 1	e 23 19	+22	—	e 36.3
Nagoya	84.0	50	e 12 40	+ 6	e 23 2	+ 5	—	e 48.7
Baguio City	84.1	74	i 12 35	+ 1	i 22 55	- 3	i 13 26	pP —
Oiwake	84.2	48	e 12 36	+ 1	e 23 0	0	e 15 46	PP 41.8
Owase	84.3	51	e 12 48	+13	e 23 2	+ 2	—	e 46.9
Sendai	84.3	46	12 32	- 3	e 22 44	-16	e 15 55	PP e 35.2
Iida	84.3	49	e 12 43	+ 8	e 22 47	-14	—	—
Hukusima	84.4	46	e 12 32	- 4	23 1	0	e 15 51	PP 34.5
Isinomaki	84.4	45	e 12 33	- 3	—	—	—	—
Maebasi	84.5	48	e 12 32k	- 4	e 23 5	+ 3	e 16 16	PP 47.5
Florissant	N. 84.6	315	e 12 36	0	e 22 57	- 6	e 22 24	? —
St. Louis	84.6	315	e 12 34a	- 2	23 1	- 2	i 16 0	PP —
Shirakawa	84.7	47	e 12 46	+ 9	e 22 59	- 5	e 19 44	? —
Kohu	84.7	49	e 12 39	+ 2	e 23 10	+ 6	—	e 35.3
Titibu	84.8	48	e 12 38	0	e 23 5	0	—	—
Kumagaya	84.9	48	e 12 38	0	e 23 10	+ 4	—	—
Utunomiya	N. 84.9	48	e 12 37	- 1	i 23 4	- 2	e 16 7	PP e 34.8
Hunatu	84.9	49	e 12 40	+ 2	i 23 9	0	—	e 35.6
Shizuoka	85.1	50	e 12 35	- 3	23 13	+ 6	13 48	? e 35.8
Omaesaki	85.2	50	e 12 53	+14	i 23 18	+ 9	—	e 35.5
Onahama	85.2	47	e 12 38	- 1	e 23 8	- 1	—	—
Sitka	85.2	350	i 12 39k	0	e 23 4	[+ 2]	e 38 49	P'P' e 40.7
Kakioka	E. 85.3	48	e 12 50	+10	23 11	+ 1	—	—
Misima	85.3	49	e 12 43	+ 3	e 23 10	0	e 23 14	ScS e 35.3
Mito	85.4	47	e 12 47	+ 7	e 23 27	+16	—	e 47.7
Tokyo	85.4	48	e 12 41	0	23 13	+ 2	23 7	SKS e 43.9
Manila	85.5	75	i 18 39	?	i 29 15	SS	—	—
Yokohama	N. 85.5	48	e 12 45	+ 4	e 23 20	+ 8	e 25 54	? e 37.9
Osima	85.8	49	e 12 41	- 1	23 9	[+ 3]	24 9	PS e 41.7
Mera	86.0	49	12 48	+ 5	e 19 22	? e 22 4	?	—

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		$\Delta$ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.
Djakarta		86.5	100	i 12	44k	- 1	c 23 13	[+ 2]	c 16 16	PP	e 40.8	
Rapid City	E.	87.2	326	i 12	46a	- 3	e 23 16	[+ 1]	—	—	e 40.4	
Lembang		87.5	100	e 13	16k	+25	e 23 45	+14	e 23 59	?	e 48.3	
Bandung		87.6	100	e 12	52	+ 1	e 23 20	[+ 2]	e 23 38	?	e 46.3	
Hungry Horse		88.0	334	c 12	51k	- 2	e 23 17	[- 4]	e 38 48	P'P'	—	
Mobile		88.8	308	i 13	0	+ 3	23 26	[+ 7]	16 23	PP	—	
Bozeman		89.2	331	i 12	58k	- 1	i 23 34	[+ 6]	e 16 38	PP	e 36.5	
Butte		89.5	332	e 12	58k	- 2	i 23 34	[+ 4]	i 16 37	PP	e 38.1	
Horseshoe Bay		90.0	340	e 13	1k	- 2	—	—	—	—	—	
Victoria		90.8	340	c 13	8	+ 1	i 23 43	[+ 5]	e 30 20	SSP	—	
Seattle		91.3	339	13	12	+ 3	23 42	[+ 2]	25 3	PS	—	
Boulder		91.4	325	i 13	8	- 1	—	—	—	—	—	
Galerazamba		92.3	285	e 13	37	+23	i 24 4	[+17]	—	—	43.3	
Salt Lake City		93.6	329	e 13	19k	0	e 23 51	[- 2]	e 17 6	PP	e 38.7	
Corvallis		94.4	338	e 13	30	+ 7	e 23 58	[ 0]	—	—	—	
Bogota		95.1	280	i 13	31	+ 5	i 23 56	[- 6]	i 25 48	PS	45.3	
Chinchina		96.2	281	i 13	33	+ 2	i 24 20	[+12]	i 26 21	PS	45.3	
Merida		96.4	302	e 13	38	+ 6	e 24 59	+ 9	e 24 1	SKS	e 47.4	
Eureka		96.4	331	i 13	25	- 7	—	—	—	—	—	
Shasta		97.6	336	e 13	34	- 4	e 24 10	[- 5]	e 17 41	PP	—	
Mineral	Z.	97.7	335	e 13	37	- 1	—	—	—	—	—	
Reno		97.8	334	e 13	36	- 2	e 24 17	[+ 1]	—	—	—	
Yerington	Z.	98.0	333	e 13	38	- 1	—	—	—	—	—	
Boulder City		98.9	329	i 13	44k	0	i 14 47	?	i 17 24	PP	—	
Ukiah		99.3	336	e 13	45k	0	e 24 29	[+ 5]	i 17 49	PP	e 38.6	
Tinemaha		99.4	332	e 13	49	+ 3	i 24 30	[+ 6]	i 17 58	PP	—	
Berkeley		100.1	335	e 13	44	- 5	e 24 32	[+ 5]	e 17 56	PP	e 47.9	
China Lake		100.2	330	e 13	49	0	e 27 1	PS	i 18 4	PP	—	
Fresno		100.2	332	e 13	48	- 1	e 24 36	[+ 8]	e 18 4	PP	—	
Tucson		100.3	324	e 13	50k	0	e 24 29	[+ 1]	i 18 1	PP	e 43.5	
Lick	Z.	100.4	334	e 13	48k	- 2	e 27 20	PS	i 17 57	PP	—	
Santa Clara		100.5	334	e 13	59a	+ 8	e 24 38	[+ 9]	e 17 59	PP	—	
Isabella		100.7	331	i 13	51	- 1	i 18 8	PP	e 27 5	PS	—	
Chihuahua		100.8	318	i 17	56a	PP	e 25 30	+ 3	e 24 29	SKS	e 48.5	
Hayfield	N.	101.2	328	e 14	5	+11	e 30 29	?	e 18 10	PP	—	
Comitan		101.3	300	e 18	2	PP	e 24 52	{-11}	e 27 26	PS	—	
King Ranch	Z.	101.5	332	e 13	53	- 2	—	—	e 18 3	PP	—	
Pasadena		101.9	330	e 13	53	- 4	i 24 41	[+ 5]	i 18 17	PP	i 48.6	
Vera Cruz		101.9	305	e 17	35	?	i 24 32	[- 4]	i 27 14	PS	e 47.7	
Palomar		102.1	329	e 14	3	+ 5	e 27 19	SP	e 18 9	PP	—	
La Paz		102.8	259	i 14	4	+ 3	i 24 50	[+10]	i 18 16	PP	49.0	
Puebla		103.4	306	—	—	—	e 24 49	[+ 6]	—	—	—	
Tacubaya		103.8	307	i 18	21	PP	e 25 48	- 4	e 24 43	SKS	—	
Oaxaca		103.9	304	—	—	—	e 25 15	{- 7}	e 28 11	PPS	e 55.8	
Mazatlan		105.3	315	e 14	26	+14	i 24 52	[ 0]	e 27 52	PS	e 50.9	
Guadalajara		105.4	311	c 18	35	PP	e 24 53	[+ 1]	e 27 48	PS	e 51.5	
La Plata		105.5	238	14	20	+ 7	25 2	[+ 9]	18 44	PP	43.7	
Buenos Aires		105.7	238	e 18	7	?	e 24 55	[+ 1]	—	—	—	
Huancayo		106.0	267	i 14	21	P	e 25 7	[+12]	e 18 38	PP	—	
Perth	Z.	108.3	116	i 14	36	P	i 37 53	SSS	i 19 6	PP	50.9	
Antofagasta	N.	108.5	254	e 19	23	PP	i 26 51	S	e 34 16	SS	47.2	
Santa Lucia	N.	113.7	245	15	59	?	26 54	S	e 29 16	PS	—	
Mirny		114.9	156	e 19	29	PP	i 25 39	[+ 7]	e 21 49	PPP	—	
Concepción	N.	116.3	242	e 26	51	?	e 29 20	PS	35 9	SS	54.3	
Rabaul	Z.	121.2	70	e 18	53	[- 2]	e 36 26	SS	e 20 24	PP	—	
Honolulu		122.2	4	e 18	55	[- 2]	e 26 4	[+ 7]	e 20 36	PP	e 49.7	
Brisbane		134.8	94	i 19	20	[ 0]	—	—	i 21 57	PP	—	
Riverview		135.8	103	i 19	21k	[- 1]	i 26 27	[- 5]	i 22 4	PP	e 58.2	
Nouméa		143.1	78	e 19	33	[- 3]	i 23 2	PKS	e 32 15	PKKS	—	
Suva	N.	149.6	60	e 20	11	[+24]	e 42 46	SS	e 48 55	SSS	—	
Apia		152.3	39	e 20	0	[+ 9]	—	—	—	—	e 84.3	
Christchurch		153.9	115	20	0	[+ 7]	e 30 34	{- 6}	e 23 20	PKS	—	
Onerahi	E.	154.7	97	e 20	7	[+13]	—	—	—	—	—	
Wellington		155.5	110	e 19	56	[+ 1]	e 43 15	SS	e 20 23	PKP <sub>2</sub>	e 63.3	
Karapiro	N.	155.9	102	e 20	25	PKP <sub>2</sub>	—	—	—	—	—	
Tongariro	Z.	156.1	105	e 20	24	PKP <sub>2</sub>	—	—	e 20 44	?	—	
Tuai	N.	157.3	104	e 20	44	[+46]	—	—	—	—	—	

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July 9d. 3h. 24m. 3s. Epicentre 36°·63N. 25°·70E.

A = +0·7248, B = +0·3489, C = +0·5941;  $\delta = +2$ ;  $h = 0$ ;  
D = +0·434, E = -0·901; G = +0·535, H = +0·258, K = -0·804.

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Taranto	7·6	303	1	50	- 4	—	—	—	—	—	5·0
Reggio Calabria z.	8·1	283	i 2	6	+ 4	i 3	35	0	—	—	—
Messina	8·2	284	i 2	4	+ 1	i 3	37	- 1	i 2	9	PP
Jerusalem	9·2	119	i 2	13 <sup>a</sup>	- 3	i 3	48	-15	—	—	—
Rome	11·5	301	i 2	58	+10	i 4	38	-21	—	—	e 5·5
Triest	12·7	319	i 3	8	+ 3	i 5	32	+ 4	—	—	—
Florence z.	13·1	307	i 3	2	- 7	—	—	—	—	—	—
Monaco	15·6	303	3	48	+ 5	—	—	—	i 4	24	?
Prague	15·7	332	i 3	51	+ 7	—	—	—	i 4	17	PPP
Stuttgart	17·1	320	e 4	5	+ 3	—	—	—	—	—	—
Besancon	18·1	312	4	15	+ 1	—	—	—	—	—	—
Clermont-Ferrand	19·2	305	4	30	+ 2	—	—	—	—	—	—
Relizane	20·3	275	4	41	+ 1	—	—	—	—	—	—
Uccle	20·8	319	4	48	+ 2	—	—	—	—	—	—
Paris	20·9	313	4	43	- 2	—	—	—	5	9	PP
Tamanrasset	22·2	237	4	59	0	9	4	+ 3	—	—	—
Toledo z.	23·5	287	i 5	11	0	—	—	—	—	—	—
Kew	23·7	317	i 5	15 <sup>a</sup>	- 1	—	—	—	—	—	—
Upsala	23·8	350	i 5	15	0	—	—	—	—	—	—
Rathfarnham C. z.	27·8	317	5	52 <sup>a</sup>	- 1	—	—	—	—	—	—
Kiruna	31·4	356	i 6	23	0	—	—	—	—	—	—
Akureyri N.	38·6	333	e 7	33	+ 7	—	—	—	—	—	—
Lwiro	38·8	175	e 7	28	0	—	—	—	—	—	—
Astrida	39·2	174	e 7	43	+12	—	—	—	—	—	—
Reykjavik	39·5	329	i 7	31	- 2	—	—	—	e 9	17	PP
Scoresby Sund	42·1	338	e 7	56	+ 1	—	—	—	e 9	39	PP
Tananarive	59·0	156	10	3	0	—	—	—	—	—	—
Pretoria z.	62·1	177	i 10	24 <sup>a</sup>	0	—	—	—	—	—	—
Resolute Bay	62·4	345	i 10	35 <sup>a</sup>	+ 8	—	—	—	—	—	—
Halifax	65·0	308	i 10	43 <sup>a</sup>	0	—	—	—	—	—	—
Kimberley	65·0	181	i 10	43 <sup>a</sup>	0	—	—	—	—	—	—
Pietermaritzburg z.	66·0	176	i 10	48	- 2	—	—	—	—	—	—
Seven Falls	68·2	313	i 11	0 <sup>a</sup>	- 3	—	—	—	—	—	—
Shawinigan Falls	69·6	313	i 11	9 <sup>k</sup>	- 4	—	—	—	12	0	?
Grahamstown z.	69·6	179	i 11	12	- 1	—	—	—	—	—	—
Brébeuf	70·7	313	11	19 <sup>a</sup>	0	—	—	—	—	—	—
Ottawa	72·0	313	i 11	24 <sup>a</sup>	- 2	—	—	—	—	—	—
Kirkland Lake	72·8	318	e 11	31 <sup>a</sup>	0	—	—	—	—	—	—
Palisades	73·3	309	11	33 <sup>k</sup>	- 1	—	—	—	—	—	—
City College, N.Y.	73·5	309	i 11	26	- 9	—	—	—	—	—	—
Buffalo (Larkin)	75·2	312	e 11	45	0	—	—	—	—	—	—
St. Vincent	79·9	279	e 12	11	0	—	—	—	—	—	—
San Juan	80·7	286	i 12	15	0	—	—	—	—	—	—
Matusiro z.	84·0	48	i 12	30 <sup>k</sup>	- 2	—	—	—	—	—	—
Sitka	85·3	350	e 12	41	+ 1	—	—	—	14	1	?
Rapid City E.	87·3	326	i 12	49	0	—	—	—	—	—	—
Hungry Horse	88·1	334	i 12	50	- 2	—	—	—	—	—	—
Bozeman	89·3	331	i 13	1	+ 2	—	—	—	—	—	—
Butte N.	89·6	332	e 13	1	+ 1	—	—	—	—	—	—
Horseshoe Bay	90·0	340	e 13	1	- 1	—	—	—	—	—	—
Boulder	91·4	325	e 13	9	0	—	—	—	—	—	—
Salt Lake City z.	93·7	329	e 13	20	+ 1	—	—	—	i 13	25	PcP
Shasta z.	97·7	336	e 13	36	- 1	—	—	—	—	—	—
Mineral z.	97·7	335	13	37	0	—	—	—	—	—	—
Ukiah	99·3	336	e 13	51	+ 6	—	—	—	—	—	—
Isabella	100·8	331	e 13	50	- 1	—	—	—	e 30	5	PKKP
La Paz z.	102·7	259	i 14	0 <sup>a</sup>	0	i 20	29	PPP	i 18	21	PP
Huancayo z.	105·9	267	e 14	21	+ 6	—	—	—	e 19	12	PP
Riverview	135·8	103	i 19	45 <sup>a</sup>	[-22]	26	40	[+ 8]	i 22	10	PP
Apia	152·4	39	e 20	9	PKP <sub>2</sub>	—	—	—	—	—	—





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July 9d. 6h. 22m. 46s. Epicentre 36°·77N. 25°·89E.

A = +0·7224, B = +0·3506, C = +0·5960;  $\delta=0$ ;  $h=0$ ;  
D = +0·437, E = -0·900; G = +0·536, H = +0·260, K = -0·803;

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Athens		2·1	305	e 0 37	0	i 1 3	- 1	—	—
Messina	E.	8·3	283	e 2 3	- 1	e 3 33	- 7	—	—
Jerusalem		9·2	120	i 2 17	0	i 3 59	- 4	—	—
Budapest		11·8	337	—	—	4 45	-21	e 2 57	PP
Triest		12·7	318	—	—	e 5 34	- 6	—	—
Prato		13·3	307	2 47	?	—	—	—	—
Monaco		15·7	302	3 43	0	—	—	5 40	?
Warsaw		15·8	349	e 3 47	+ 1	—	—	e 4 15	PPP
Stuttgart		17·1	320	e 4 4	+ 2	—	—	—	—
Karlsruhe	Z.	17·7	319	e 4 11 <sub>a</sub>	+ 2	—	—	—	—
Strasbourg		17·7	317	4 13	+ 3	—	—	4 42	PPP
Besançon		18·1	312	4 17	+ 3	—	—	5 4	?
Algiers Univ.	Z.	18·3	277	e 4 15	- 2	e 7 46	+ 7	—	—
Clermont-Ferrand		19·3	305	4 29	0	—	—	—	—
Hamburg		20·1	332	i 4 38 <sub>a</sub>	0	8 28	+ 9	—	—
Relizane		20·4	275	4 44	+ 2	—	—	—	—
Moscow		20·6	19	e 4 45	+ 2	—	—	—	—
Uccle		20·8	319	4 45	0	8 43	+10	—	—
Paris		20·9	312	4 45	0	—	—	4 58	PP
Witteveen	Z.	21·0	326	e 4 48	+ 1	—	—	—	—
Tamanrasset	Z.	22·4	237	5 1	0	9 10	+ 6	—	—
Pulkovo		23·2	6	i 5 12	+ 3	—	—	—	—
Granada		23·5	280	i 5 12 <sub>a</sub>	0	9 26	+ 3	—	—
Toledo	Z.	23·6	287	i 5 12	- 1	—	—	—	—
Kew		23·7	317	i 5 14	0	—	—	—	—
Upsala		23·7	350	i 5 14	0	e 9 31	+ 4	—	—
Lisbon		27·7	285	e 5 53 <sub>a</sub>	+ 1	—	—	—	—
Rathfarnham C.	Z.	27·8	317	i 5 56 <sub>k</sub>	+ 3	—	—	—	—
Skalstugan		28·1	347	5 54	0	—	—	—	—
Kiruna		31·3	356	i 6 23	0	—	—	—	—
Quetta	Z.	34·7	89	e 6 54	+ 1	—	—	—	—
Lwiro		38·9	175	7 33 <sub>k</sub>	+ 4	—	—	—	—
Reykjavik	Z.	39·4	329	e 7 34	0	—	—	—	—
Uvira		40·1	175	e 7 39	0	—	—	—	—
Scoresby Sund	Z.	42·1	338	e 7 54	0	—	—	—	—
Resolute Bay		62·3	345	i 10 25 <sub>a</sub>	0	—	—	—	—
Kimberley	Z.	65·2	181	i 10 45 <sub>k</sub>	0	—	—	—	—
Seven Falls		68·2	313	i 11 3 <sub>a</sub>	0	—	—	—	—
Shawinigan Falls		69·6	313	i 11 13 <sub>k</sub>	0	—	—	—	—
Brébeuf		70·7	313	i 11 20 <sub>a</sub>	0	—	—	—	—
Ottawa		72·0	313	e 11 27 <sub>k</sub>	0	—	—	—	—
Kirkland Lake	Z.	72·8	318	e 11 32	0	—	—	—	—
College		78·6	357	i 12 4	0	—	—	—	—
San Juan		80·8	286	e 12 17	0	—	—	—	—
Matusiro	Z.	83·8	48	12 32	0	—	—	—	—
Rapid City	E.	87·2	326	i 12 48	- 1	—	—	—	—
Hungry Horse		88·0	334	i 12 53	0	—	—	—	—
Bozeman		89·2	331	e 13 0	+ 1	—	—	—	—
Butte	N.	89·5	332	e 13 0	0	—	—	—	—
Victoria		90·8	340	e 13 5	0	—	—	—	—
Boulder		91·4	325	e 13 9	0	—	—	—	—
Salt Lake City		93·6	329	e 13 18	- 1	—	—	—	—
Eureka		96·4	331	i 13 32	0	—	—	—	—

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July 9d. 9h. 56m. 12s. Epicentre 20°00N. 72°·95W. Depth of focus = 0·001R.

A = +0·2758, B = -0·8991, C = +0·3399;  $\delta$  = -2;  $h$  = +5;  
D = -0·956, E = -0·293; G = +0·100, H = -0·325, K = -0·940.

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Port au Prince	1·5	158	i 0	32	+ 6	i 0	47	+ 1	—	—	—
Ciudad Trujillo	3·2	118	i 0	36	-13	i 1	13	-15	—	—	—
San Juan	6·6	103	i 1	35	- 2	i 3	7	+13	—	—	i 3·4
Galerazamba	9·4	194	i 2	21	+ 4	i 4	18	+16	—	—	5·3
Fort de France	12·4	113	e 2	50	- 6	i 5	6	- 9	i 3	12	PP
Balboa Heights	12·7	211	i 2	58	- 2	i 5	13	- 9	—	—	—
St. Vincent	13·1	119	i 3	3 <sup>k</sup>	- 2	—	—	—	—	—	—
Trinidad	14·4	128	e 3	22	0	e 5	55	- 5	—	—	—
Barbados	14·5	116	e 3	27	+ 2	—	—	—	—	—	—
Chinchina	15·2	190	i 3	31	- 1	i 6	34	+12	i 3	47	PP
Bogota	15·3	184	i 3	34	0	i 6	29	+ 5	i 3	44	PP
Merida	15·6	276	i 3	44 <sup>a</sup>	+ 4	i 6	45	+14	—	—	7·8
Columbia	15·7	334	i 3	34	- 5	i 6	14	-19	i 3	43	PP
Chapel Hill	16·7	343	i 3	50	- 2	i 6	48	-11	—	—	i 7·5
Mobile	17·4	311	i 4	0	0	i 7	17	+ 5	i 4	13	PP
Comitan	18·6	262	4	20	+ 4	e 7	51	+11	—	—	—
Washington	19·2	350	i 4	21	- 1	i 8	1	+ 8	—	—	—
Philadelphia	20·0	355	i 4	33	+ 1	i 8	16	+ 5	—	—	9·9
City College, N.Y.	20·8	358	i 4	27	-12	—	—	—	—	—	9·8
Fordham	20·8	358	i 4	43	+ 2	i 8	41	+15	—	—	—
Palisades	21·0	358	i 4	42	0	e 8	37	+ 7	—	—	—
Pennsylvania	21·2	350	i 4	44	0	e 8	42	+ 8	i 7	9	?
Pittsburgh	21·2	345	i 4	45	0	i 8	42	+ 8	—	—	e 9·4
Cleveland	22·6	343	i 5	5	+ 6	i 9	13	+13	—	—	—
Oaxaca	22·8	266	e 5	25	PP	—	—	—	—	—	—
Terre Haute	23·1	330	i 5	5	+ 2	i 9	19	+10	—	—	—
Buffalo (Larkin)	23·3	349	i 5	6	+ 1	—	—	—	—	—	—
Puebla	23·8	273	e 5	9	- 2	e 9	24	+ 3	e 6	50	?
St. Louis	23·8	325	i 5	11	0	i 9	2	-19	—	—	—
Florissant	N. 24·0	325	i 5	12 <sup>a</sup>	0	—	—	—	—	—	—
Tacubaya	24·7	273	i 5	16 <sup>k</sup>	- 2	e 9	37	+ 1	i 8	55	PcP
Chicago	25·0	333	i 5	30	+ 8	e 9	54	+13	i 6	55	?
Ottawa	25·4	355	i 5	26 <sup>k</sup>	0	e 10	5	+17	6	14	PPP
Brébeuf	25·4	359	i 5	27 <sup>a</sup>	+ 1	i 10	8	+20	i 10	35	SS
Halifax	25·8	15	i 5	32 <sup>?</sup>	+ 3	i 10	16 <sup>?</sup>	+22	—	—	i 12·1
Shawinigan Falls	26·5	0	i 5	37 <sup>k</sup>	+ 1	10	24	+18	6	19	PP
Seven Falls	27·1	3	e 5	42 <sup>k</sup>	+ 1	e 10	54	+38	i 7	14	?
Gaudalajara	28·5	277	e 5	52	- 1	e 11	48	SS	—	—	e 13·4
Kirkland Lake	Z. 28·7	350	i 5	55 <sup>k</sup>	0	—	—	—	i 6	18	sP
Manzanillo	29·6	274	e 6	5	+ 1	e 11	1	+ 5	e 7	18	PPP
Chihuahua	31·3	292	i 6	15	- 3	11	27	+ 4	i 13	13	SS
Huancayo	31·9	185	i 6	25	+ 1	e 11	36	+ 4	e 6	45	pP
Boulder	34·1	313	i 6	43	0	—	—	—	—	—	e 13·9
Rapid City	E. 34·8	320	i 6	48	0	e 12	17	0	—	—	—
Tucson	35·9	298	i 7	0	+ 1	e 12	36	0	i 13	0	sS
La Paz	36·6	172	i 7	4	0	i 12	38	- 7	i 7	14	pP
Salt Lake City	39·0	311	i 7	25	0	i 13	23	0	i 7	59	sP
Boulder City	39·9	302	i 7	33	+ 1	—	—	—	—	—	e 16·5
Hayfield	N. 40·2	299	i 7	35	+ 1	—	—	—	—	—	—
Bozeman	40·4	318	i 7	37	+ 1	e 13	34	- 5	8	6	pP
Palomar	41·1	298	i 7	42 <sup>k</sup>	0	—	—	—	—	—	—
Saskatoon	41·4	329	e 7	49	+ 5	—	—	—	—	—	—
Butte	N. 41·5	318	i 7	45	0	i 14	0	+ 1	i 8	15	pP
Eureka	41·6	307	i 7	45	0	—	—	—	—	—	i 17·0
China Lake	Z. 42·1	301	i 7	50 <sup>k</sup>	+ 1	—	—	—	i 9	24	PP
Pasadena	42·3	299	i 6	51 <sup>k</sup>	-60	i 14	33	PS	i 17	44	ScS
Isabella	Z. 42·8	301	i 7	56 <sup>k</sup>	0	—	—	—	—	—	e 20·1
Tinemaha	Z. 42·8	303	i 7	57 <sup>k</sup>	+ 2	i 14	24	+ 6	i 8	16	pP
Hungry Horse	43·4	320	i 8	0	0	e 14	26	- 1	i 8	19	—
Antofagasta	N. 43·4	177	e 8	10	+ 9	—	—	—	—	—	—

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Angra do Heroismo		43.5	54	i 8 10	+ 9	e 14 47	PS	—	21.0
King Ranch	z.	43.8	300	i 8 5k	+ 1	—	—	—	—
Yerington		43.9	306	e 8 5	0	—	—	—	—
Fresno		44.0	302	i 8 5	0	e 15 0	PPS	i 10 58	?
Reno	z.	44.5	306	e 8 9	0	—	—	—	—
Ivigtut	N.	44.7	17	i 7 10	-60	i 14 10	-35	e 9 16	?
Lick	z.	45.6	303	e 8 18k	0	i 10 8	PP	i 8 28	pP
Santa Clara		45.8	303	i 8 21	+ 1	e 15 27	sS	—	—
Mineral	z.	46.0	307	i 8 22k	0	—	—	e 10 18	PP
Berkeley		46.1	304	e 8 22k	0	e 15 6	+ 1	e 10 12	PP
Shasta		46.7	307	e 8 24k	- 2	—	—	—	—
Ukiah		47.1	305	i 8 30	0	—	—	—	—
Arcata	N.	48.0	307	e 8 33	- 5	—	—	—	—
Corvallis	N.	48.2	312	e 8 39	0	—	—	—	—
Seattle		48.3	317	8 39	0	e 16 1	PPS	e 19 18	SS
Victoria		49.3	317	e 8 44k	- 2	e 16 8	PPS	—	—
Horseshoe Bay		49.5	319	i 8 46	- 2	—	—	—	—
M'Bour		53.6	87	i 9 20	0	i 17 1	+11	i 9 31	pP
Reykjavik		55.6	24	i 9 31k	- 2	e 17 48?	PPS	e 19 18?	ScS
Resolute Bay		56.0	353	i 9 34k	- 2	e 17 23	+ 1	e 11 27	PP
Buenos Aires		56.0	166	e 9 35	- 1	e 17 19	- 3	—	—
La Plata		56.4	165	9 54	+14	17 24	- 3	19 30	ScS
Lisbon		57.5	56	e 9 48k	0	—	—	10 8	pP
Sitka		58.5	325	i 9 53	- 1	i 18 10	PS	i 10 12	pP
Scoresby Sund		58.7	18	i 9 55	- 1	e 18 0	+ 3	e 10 15	pP
Rathfarnham Castle		60.3	39	i 10 5k	- 1	e 18 18	0	i 10 30	pP
Toledo		61.5	55	i 10 15k	0	19 2	PPS	10 28	pP
Granada		62.0	58	i 10 20	+ 1	i 18 46	+ 6	12 46	PP
Jersey		62.7	44	e 11 23	+60	e 19 14	PS	—	—
Almeria		62.9	58	i 10 26	+ 1	e 18 54	+ 3	—	—
Aberdeen		63.1	35	i 10 21	- 4	e 18 54	0	i 12 52	PP
Durham		63.2	38	10 26	0	18 53	- 2	10 42	pP
Kew		63.8	42	10 30k	0	e 19 3	+ 1	i 10 44	pP
Alicante		64.4	56	i 10 35	+ 1	19 12	+ 2	23 24	SS
Relizane		65.5	59	i 10 41k	0	e 19 21	- 2	e 11 3	pP
College		65.7	333	i 10 41	- 1	e 19 26	0	e 13 13	PP
Paris		65.7	45	i 10 42	0	i 19 26	0	i 11 1	pP
Barcelona		66.0	53	10 43	- 1	e 19 52	PS	—	—
Clermont-Ferrand		66.3	48	e 10 47k	0	i 19 37	- 4	i 19 57	PS
Uccle		66.8	42	10 49	0	23 39	SS	11 8	pP
De Bilt		67.2	41	i 10 53k	0	e 19 48	+ 4	i 11 12	pP
Algiers Univ.	z.	67.3	58	i 10 53k	0	e 19 43	- 2	e 11 17	pP
Witteveen	z.	68.1	40	10 59k	+ 1	—	—	11 18	pP
Besançon		68.2	46	i 10 59	0	e 19 54	+ 3	e 11 15	pP
Neuchatel		68.9	46	i 11 2	0	e 20 1	+ 3	—	—
Strasbourg		69.2	44	i 11 5k	0	e 20 11	+ 3	i 11 27	pP
Basle		69.2	46	e 11 5k	0	e 20 4	- 4	—	—
Karlsruhe		69.6	44	11 6k	0	e 20 15	+ 3	i 11 19	pP
Monaco		69.6	50	i 11 7k	0	e 13 50	PP	i 11 32	pP
Zürich		69.9	46	e 11 9	0	—	—	e 11 30	pP
Hamburg		70.0	39	i 11 10k	0	e 20 21	+ 4	i 20 41	PS
Stuttgart		70.1	44	i 11 10k	- 1	e 20 19	+ 1	11 23	pP
Skalstugan		70.2	28	i 11 11	0	e 39 7	P'P'	i 13 46	PP
Chur		70.6	46	e 11 14k	0	e 20 26	+ 2	—	—
Pavia		70.6	48	e 11 13k	0	e 23 44	SS	e 13 22	PP
Cagliari		71.0	53	e 11 41	+25	e 21 28	+59	—	—
Copenhagen		71.2	37	i 11 18	+ 1	i 20 35	+ 4	e 14 6	PP
Jena		71.3	42	e 11 17	0	e 20 48	+16	e 11 28	pP
Prato		72.2	49	e 10 48	-34	e 20 59	+17	—	—
Bologna		72.3	48	e 11 24	+ 1	—	—	e 13 16	?
Tamanrasset	z.	72.3	72	i 11 25k	+ 2	e 20 30	-14	e 11 48	pP
Florence		72.3	49	i 11 23k	0	i 21 5	sP	i 12 4	sP
Tunis		72.9	56	e 11 26	0	e 20 49	- 1	e 11 39	pP
Kiruna		72.9	23	i 11 28k	+ 1	i 20 53	+ 3	i 21 14	ScS
Upsala		73.2	32	i 11 29k	0	i 20 55	+ 1	i 14 9	PP

Continued on next page.

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Prague	73.3	42	i 11	29 <sub>a</sub>	0	i 20	57	+ 2	i 11	53	pP	e 32.0
Rome	73.6	51	i 11	32 <sub>k</sub>	+ 1	i 21	0	+ 2	i 12	4	pP	e 34.1
Triest	73.7	47	i 11	32	0	e 20	27	-32	i 11	57	pP	—
Sodankyla	75.3	23	i 11	41	0	i 12	14	sP	i 12	1	pP	—
Bratislava	75.4	44	i 11	44	+ 2	i 21	20	+ 2	i 12	7	pP	33.8
Unalaska	76.2	322	i 11	46	0	—	—	—	—	—	—	—
Hurbanovo	76.2	44	e 11	53	+ 7	e 21	13	-14	e 12	11	pP	39.4
Messina	76.8	54	e 11	46	- 2	e 21	41	+ 7	e 12	28	sP	36.5
Warsaw	76.8	39	11	28 <sub>?</sub>	-21	i 21	48 <sub>?</sub>	+14	—	—	—	e 34.8
Budapest	76.9	44	11	53	+ 2	22	21	PPS	15	7	PP	36.8
Reggio Calabria	76.9	54	e 11	45	- 4	—	—	—	13	55	?	—
Kalossa	77.0	45	11	53	+ 2	—	—	—	12	9	pP	—
Skalnate Pleso	77.2	42	i 11	54 <sub>k</sub>	+ 2	e 21	36	- 2	e 12	14	pP	39.8
Apatity	77.8	22	12	1 <sub>k</sub>	+ 6	e 21	55	- 1	15	54	PP	37.9
Szeged	77.9	45	11	50	- 5	—	—	—	—	—	—	—
Belgrade	78.5	46	e 11	59 <sub>a</sub>	0	e 21	57	+ 5	e 15	26	PP	e 51.8
Honolulu	78.6	289	i 12	0	0	e 22	0	+ 7	e 22	22	sS	e 46.3
Timisoara	78.8	45	12	4	+ 4	e 21	59	+ 4	—	—	—	e 36.8
Campulung	81.5	45	e 12	17	+ 2	—	—	—	—	—	—	—
Bacau	82.2	43	e 12	19	0	—	—	—	—	—	—	—
Iasi	82.4	43	e 12	20	0	e 22	57	SP	e 12	46	pP	—
Bucharest	82.5	45	e 12	21	+ 1	e 11	35	+ 1	i 12	44	pP	39.8
Focsani	82.7	44	e 12	36	+14	—	—	—	—	—	—	—
Athens	83.0	52	e 12	24 <sub>a</sub>	+ 1	i 22	41	+ 2	e 12	45	pP	—
Ksara	93.7	52	i 13	15	+ 1	i 24	23	+ 5	e 16	57	PP	—
Jerusalem	94.1	54	i 13	27	+11	—	—	—	i 17	4	PP	—
Lwiro	101.8	88	e 13	53 <sub>a</sub>	+ 2	—	—	—	e 17	56	PP	—
Uvira	102.5	89	e 13	55 <sub>a</sub>	+ 1	—	—	—	e 18	4	PP	—
Hermanus	102.8	122	—	—	—	24	36	[+ 5]	—	—	—	—
Astrida	102.8	88	e 13	58	+ 3	—	—	—	—	—	—	—
Kimberléy	105.9	115	i 18	29 <sub>k</sub>	PP	—	—	—	—	—	—	—
Matusiro	116.5	332	18	41 <sub>a</sub>	[+ 1]	e 25	37	[+ 9]	e 29	11	PKKP	54.8
Quetta	116.9	39	e 18	42	[+ 1]	e 25	34	[+ 5]	e 19	51	PP	—
Tananarive	124.1	100	e 18	58	[+ 3]	—	—	—	e 20	40	PP	—
Chatra	z. 129.6	23	i 19	8	[+ 3]	—	—	—	i 21	20	PP	—
Poona	z. 129.7	42	—	—	—	—	—	—	i 21	17	PP	—
Shillong	z. 132.4	19	e 18	53	[-17]	—	—	—	—	—	—	—
Rabaul	133.4	284	i 19	7	[- 4]	e 22	37	PKS	i 24	11	PPP	—
Brisbane	137.4	251	i 19	12	[- 8]	i 22	22	PKS	—	—	—	—
Riverview	138.6	241	—	—	—	40	14	SS	—	—	—	—
Baguio City	141.4	339	i 19	32	[+ 5]	e 23	2	SKP	—	—	—	—
Manila	143.0	337	e 19	28	[- 2]	—	—	—	—	—	—	—
Lembang	166.9	357	i 20	22 <sub>a</sub>	[+ 21]	—	—	—	e 24	22	?	—

July 9d. 20h. 13m. 53s. Epicentre 36°·71N. 25°·98E.

A = +0.7224, B = +0.3521, C = +0.5952;  $\delta$  = +10; h = 0;  
D = +0.438, E = -0.899; G = +0.535, H = +0.261, K = -0.804.

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Athens	2.2	306	i 0	39 <sub>a</sub>	+ 1	e 1	5	- 1	i 0	43	P <sub>e</sub>	—
Bucharest	7.7	1	—	—	—	e 3	43	-10*	—	—	—	—
Taranto	7.8	301	2	0	+ 3	—	—	—	—	—	—	—
Reggio Calabria	8.3	283	e 2	11	+ 7	e 3	28	-12	—	—	—	—
Messina	8.4	283	e 2	4	- 1	i 3	46	+ 3	i 3	32	?	—
Jerusalem	9.1	120	i 2	13	- 1	i 3	53	- 7	—	—	—	—
Belgrade	9.1	334	e 1	24	-50	—	—	—	—	—	—	—
Simferopol	10.3	34	e 2	31	0	—	—	—	—	—	—	e 5.0
Szeged	10.5	337	2	31	- 4	—	—	—	—	—	—	—
Kalossa	11.1	334	e 2	47	- 2	—	—	—	—	—	—	6.7

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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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Rome	11.7	300	e 2	45	- 5	e 4	35	-29	e 5	23	SS	—
Budapest	11.9	337	e 3	4	+10	—	—	—	—	—	—	6.6
Sotchi	12.5	53	e 3	2	0	—	—	—	—	—	—	—
Hurbanovo	12.5	335	—	—	—	5	47	SSS	—	—	—	—
Triest	12.8	318	3	42	?	—	—	—	—	—	—	—
Skalnate Pleso	13.1	343	—	—	—	5	31	- 7	—	—	—	e 7.5
Bratislava	13.2	333	i 3	13	+ 2	e 5	29	-11	—	—	—	e 8.0
Florence	z. 13.3	307	e 3	14	+ 2	—	—	—	—	—	—	—
Bologna	13.6	309	e 3	26	+ 9	—	—	—	—	—	—	—
Pavia	15.2	309	e 3	38	0	e 6	33	+ 5	e 4	43	?	—
Tiflis	15.4	65	e 3	43	+ 3	—	—	—	—	—	—	—
Prague	15.7	332	i 3	47	+ 2	e 6	58	SS	i 4	51	?	—
Monaco	15.8	302	e 3	43	- 1	—	—	—	e 4	38	?	—
Warsaw	z. 15.9	349	e 3	54	PP	—	—	—	e 5	7	PcP	—
Zürich	16.7	315	e 3	58	+ 1	—	—	—	—	—	—	—
Stuttgart	17.2	320	e 4	3	0	—	—	—	—	—	—	—
Neuchatel	17.5	312	e 4	6	0	e 7	28	+ 9	—	—	—	—
Jena	z. 17.6	329	e 4	10	+ 2	e 7	34	+11	—	—	—	—
Karlsruhe	z. 17.7	319	e 4	14	+ 4	—	—	—	—	—	—	—
Strasbourg	17.8	317	e 4	13	+ 2	—	—	—	e 4	52	?	e 9.3
Besançon	18.2	312	e 4	15	0	e 8	7	SSS	—	—	—	—
Algiers Univ.	z. 18.4	277	e 4	16	- 1	e 7	46	+ 5	e 4	33	PP	—
Clermont-Ferrand	19.4	305	e 4	29	0	—	—	—	—	—	—	—
Hamburg	20.2	332	i 4	38	0	e 8	26	+ 5	i 4	46	PP	e 10.5
Relizane	20.5	275	e 4	43	+ 1	—	—	—	e 5	2	PP	—
Uccle	20.9	319	4	46	0	8	46	+11	—	—	—	e 12.1
Paris	21.0	313	i 4	45	- 1	e 8	43	+ 6	i 5	8	PP	—
Alicante	21.0	283	i 4	43	- 4	e 8	43	+ 6	—	—	—	e 10.8
Copenhagen	21.0	338	e 4	43	- 4	—	—	—	—	—	—	9.7
Witteveen	21.1	326	e 4	41	- 7	—	—	—	—	—	—	—
De Bilt	21.3	323	—	—	—	e 8	56	+13	—	—	—	—
Tamanrasset	z. 22.5	238	e 5	3	+ 1	e 9	9	+ 4	—	—	—	—
Almeria	22.8	279	5	8	+ 3	—	—	—	—	—	—	—
Granada	23.6	280	i 5	14k	+ 1	9	35	+10	5	46	PP	15.3
Toledo	z. 23.7	287	e 5	14	0	—	—	—	—	—	—	—
Upsala	23.8	349	i 5	15	0	e 9	26	- 2	—	—	—	—
Kew	23.8	317	e 5	14	0	e 9	35	+ 7	—	—	—	e 13.1
Rathfarnham C.	z. 27.9	317	i 5	50	- 2	—	—	—	—	—	—	—
Skalstugan	28.2	347	i 5	55	0	—	—	—	—	—	—	—
Sodankyla	30.7	0	i 6	20	+ 1	—	—	—	—	—	—	—
Kiruna	31.3	356	i 6	23	0	—	—	—	—	—	—	—
Quetta	z. 34.6	89	e 6	49	- 3	—	—	—	—	—	—	—
Lwiro	38.8	175	e 7	29	+ 1	—	—	—	—	—	—	—
Astrida	39.3	174	e 7	33k	+ 1	—	—	—	—	—	—	—
Uvira	40.1	175	e 7	40	+ 1	—	—	—	—	—	—	—
Scoresby Sund	z. 42.1	338	e 7	58	+ 2	—	—	—	—	—	—	—
Chatra	z. 52.2	82	e 9	14	0	—	—	—	—	—	—	—
Shillong	56.5	81	e 9	45	0	—	—	—	—	—	—	—
Tananarive	59.0	156	e 10	6k	+ 3	—	—	—	10	14	?	—
Resolute Bay	62.3	345	e 10	26	0	e 19	31	PPS	—	—	—	—
Seven Falls	68.3	313	e 11	7k	+ 2	—	—	—	—	—	—	—
Shawinigan Falls	69.7	313	e 11	13k	0	—	—	—	—	—	—	—
Ottawa	72.1	313	e 11	32	+ 4	—	—	—	—	—	—	—
Kirkland Lake	z. 72.9	317	11	35	+ 2	—	—	—	—	—	—	—
College	78.6	357	e 12	6	+ 1	—	—	—	—	—	—	—
Hungry Horse	88.1	335	e 12	52	- 1	—	—	—	—	—	—	—
Bozeman	89.3	331	e 13	0	+ 1	—	—	—	—	—	—	—
Eureka	96.5	331	e 13	35	+ 3	—	—	—	—	—	—	—



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July 9d. 21h. 28m. 41s. Epicentre 36°·60N. 25°·96E.

A = +0·7235, B = +0·3523, C = +0·5937;  $\delta = +5$ ;  $h = 0$ ;  
D = +0·438, E = -0·899; G = +0·534, H = +0·260, K = -0·805.

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Athens	2·2	308	e 0	38 <sub>a</sub>	0	—	—	—	—	—	—
Sofia	6·4	342	e 1	42	+ 4	—	—	—	—	—	—
Bucharest	7·8	1	e 2	32	- 4 <sub>s</sub>	—	—	—	—	—	—
Taranto	7·8	302	1	52	- 5	—	—	—	—	—	—
Reggio Calabria	8·3	283	—	—	—	3	29	-11	—	—	—
Messina	8·4	284	e 2	5	0	i 3	35	- 8	e 2	29	P*
Ksara	8·6	106	e 2	10	+ 2	e 3	50	+ 2	—	—	—
Jerusalem	9·0	119	i 1	53	-21	i 3	53	- 5	—	—	—
Belgrade	9·2	335	e 2	58	+41	—	—	—	—	—	e 5·0
Szeged	10·6	337	—	—	—	4	42	+ 5	—	—	—
Rome	11·7	301	2	55	+ 4	e 5	0	- 4	e 5	34	S*
Triest	12·9	318	e 3	58	+51	e 5	24	- 9	—	—	e 6·4
Bratislava	13·3	333	i 3	11	0	5	58?	SS	—	—	i 7·2
Florence	13·3	307	e 3	38	+25	—	—	—	—	—	i 6·8
Pavia	15·3	309	—	—	—	e 5	29	-61	—	—	e 7·7
Prague	15·8	332	i 3	49	+ 3	i 6	54	+12	i 5	38	?
Monaco	15·8	302	e 3	45	0	—	—	—	e 4	29	?
Warsaw	16·0	349	e 5	4	?	e 6	33	-13	e 7	0	SS
Zürich	16·8	315	e 4	3	+ 5	—	—	—	—	—	10·3
Stuttgart	17·3	320	e 4	5	+ 1	e 7	25	+ 9	—	—	—
Basle	17·4	314	e 4	7	+ 1	—	—	—	—	—	—
Neuchatel	17·5	312	e 4	10	+ 3	e 7	23	+ 2	—	—	—
Jena	17·6	329	e 4	10	+ 1	e 7	37	SS	—	—	—
Karlsruhe	z. 17·8	319	e 4	14	+ 3	—	—	—	—	—	—
Strasbourg	17·9	318	e 4	15	+ 3	e 7	43	+13	e 4	33	PPP
Besançon	18·2	312	e 4	19	+ 3	e 7	44	+ 7	—	—	—
Algiers Univ.	z. 18·4	277	e 4	14	- 3	e 7	44	+ 3	—	—	—
Clermont-Ferrand	19·4	305	e 4	31	+ 1	—	—	—	—	—	—
Hamburg	20·3	332	i 4	39	0	e 8	34	+11	—	—	e 13·3
Relizane	20·5	275	e 4	45	+ 3	—	—	—	—	—	—
Uccle	21·0	319	4	46	0	8	48	+11	—	—	11·3
Paris	21·0	313	e 4	46	- 1	e 8	43	+ 6	e 5	7	PP
Witteveen	z. 21·1	326	4	52	+ 4	—	—	—	—	—	e 13·8
Copenhagen	21·2	338	4	49	0	(8	43)	+ 2	—	—	8·7
De Bilt	21·4	323	—	—	—	e 8	54	+ 9	—	—	—
Tamanrasset	z. 22·4	238	e 5	1	0	e 9	3	- 1	—	—	—
Granada	23·6	280	5	23 <sub>k</sub>	+10	9	23	- 2	—	—	14·5
Kew	23·9	317	e 5	15	0	e 9	37	+ 7	—	—	—
Upsala	23·9	350	i 5	16	0	e 9	32	+ 2	—	—	—
Rathfarnham C.	z. 27·9	317	e 5	37	-16	—	—	—	—	—	—
Skalstugan	28·3	347	i 5	55	- 1	—	—	—	—	—	—
Kiruna	31·4	356	i 6	23	- 1	—	—	—	—	—	—
Quetta	z. 34·6	88	e 6	53	0	—	—	—	—	—	—
Lwiro	38·7	175	e 7	29 <sub>k</sub>	+ 2	—	—	—	—	—	—
Astrida	39·2	174	e 7	33	+ 2	—	—	—	—	—	—
Scoresby Sund	z. 42·2	338	e 7	55	0	—	—	—	—	—	—
Shillong	z. 56·5	81	e 9	45	0	—	—	—	—	—	—
Shawinigan Falls	69·8	313	e 11	13 <sub>k</sub>	0	—	—	—	—	—	—
Ottawa	72·1	313	e 11	27 <sub>a</sub>	0	—	—	—	—	—	—
Kirkland Lake	73·0	318	e 11	31	- 1	—	—	—	—	—	—
College	78·7	357	i 12	4	- 1	—	—	—	—	—	—
Hungry Horse	88·2	335	i 12	53	0	—	—	—	—	—	—
Bozeman	89·4	331	e 12	59	0	—	—	—	—	—	—
Butte	n. 89·7	332	e 13	0	0	—	—	—	—	—	—

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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July 10d. 3h. 1m. 25s. Epicentre 36°·71N. 26°·25E.

A = +0·7207, B = +0·3554, C = +0·5952;  $\delta = -2$ ;  $\delta = 0$ ;  
D = +0·0442, E = -0·897; G = +0·534, H = +0·263, K = -0·804

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Athens	2·4	303	e 0	40 <sub>a</sub>	- 1	e 1	1	-11	0	44	P*	—
Sofia	6·4	340	e 1	40	+ 2	e 3	0	+ 5	3	28	S <sub>g</sub>	—
Bucharest	7·7	359	e 1	56	0	e 3	25	0	e 2	15	P*	—
Taranto	8·0	301	1	55	- 4	—	—	—	—	—	—	—
Ksara	8·4	107	e 1	38	-26	e 3	20	-23	8	16	PcP	—
Reggio Calabria	8·6	282	e 2	25	- 4*	e 3	39	- 9	—	—	—	—
Campulung	8·6	354	e 3	5	P <sub>g</sub>	—	—	—	—	—	—	—
Messina	8·6	283	e 2	7 <sub>a</sub>	- 1	i 3	41	- 7	i 2	31	P*	—
Jerusalem	8·9	121	i 2	11 <sub>a</sub>	- 1	—	—	—	i 3	36	?	—
Focsani	9·0	4	e 3	10	P <sub>g</sub>	—	—	—	—	—	—	—
Belgrade	9·2	333	e 2	20	+ 3	e 4	9	+ 6	i 5	13	S <sub>g</sub>	—
Timisoara	9·8	339	e 2	59	P <sub>g</sub>	—	—	—	—	—	—	—
Iasi	10·5	5	—	—	—	—	—	—	e 3	15	—	—
Szeged	10·6	336	2	41	+ 5	3	6	PP	5	47	S <sub>g</sub>	—
Kalossa	11·2	333	e 2	45	+ 1	—	—	—	e 3	50	PP	6·3
Rome	11·8	300	i 2	55 <sub>a</sub>	+ 2	e 5	4	- 2	e 6	8	S*	i 6·8
Budapest	12·0	336	e 2	59	+ 4	—	—	—	5	47	SSS	8·2
Hurbanovo	12·6	334	e 3	13	+ 9	e 5	48	+22	e 4	19	?	e 6·9
Triest	13·0	317	e 3	8	- 1	e 5	30	- 5	e 4	1	PP	—
Skalnate Pleso	13·2	342	e 3	11	0	e 5	51	+11	—	—	—	—
Bratislava	13·3	332	i 3	13	+ 1	i 5	50	+ 8	e 3	21	PP	e 6·8
Florence X.	13·4	306	i 3	18	+ 4	—	—	—	—	—	—	—
Prato	13·6	306	e 3	17	+ 1	e 5	13	-37	—	—	—	—
Bologna	13·7	309	e 3	30	+12	—	—	—	—	—	—	e 6·0
Pavia	15·4	309	e 3	41	+ 1	e 6	53	+21	—	—	—	e 8·3
Prague	15·8	331	i 3	48	+ 2	i 6	57	+15	i 4	54	?	—
Warsaw	16·0	348	e 3	48	+ 1	e 6	50	+ 5	7	1	SS	e 9·6
Monaco	16·0	302	e 3	47	0	—	—	—	e 4	57	?	—
Chur	16·0	314	e 3	49	+ 1	—	—	—	—	—	—	e 11·8
Zürich	16·9	315	e 3	59	0	—	—	—	—	—	—	—
Stuttgart	17·3	319	e 4	4	0	e 7	27	+11	—	—	—	—
Basle	17·5	314	e 4	10	+ 3	e 7	36	+15	—	—	—	—
Neuchatel	17·6	312	e 4	8	0	e 7	24	+ 1	—	—	—	—
Jena	17·7	328	e 4	7	- 1	e 7	35	+ 9	e 4	24	—	—
Karlsruhe	17·9	319	e 4	11 <sub>a</sub>	- 0	—	—	—	—	—	—	—
Strasbourg	18·0	317	i 4	15 <sub>a</sub>	+ 2	e 7	33	+ 1	i 4	53	—	e 9·7
Besançon	18·3	311	e 4	16	- 1	e 7	42	+ 3	—	—	—	—
Algiers Univ.	18·6	277	e 4	18	- 1	e 7	49	+ 3	e 4	27	—	—
Clermont-Ferrand	19·6	305	e 4	31	- 0	e 8	8	0	—	—	—	—
Hamburg	20·3	331	i 4	37 <sub>a</sub>	- 2	e 8	30	+ 7	—	—	—	e 12·2
Relizane	20·7	275	e 4	46	+ 2	—	—	—	—	—	—	—
Uccle	21·1	319	4	47	0	8	39	0	—	—	—	10·6
Paris	21·1	312	i 4	49	+ 1	—	—	—	e 5	52	—	—
Witteveen	21·2	326	e 4	48	0	—	—	—	—	—	—	—
Copenhagen	21·2	338	e 4	48	0	e 8	48	+ 7	i 8	57	PcP	12·2
Alicante	21·2	282	i 4	49	0	8	45	+ 4	—	—	—	e 10·6
De Bilt	21·4	323	e 4	50	0	e 8	42	- 3	e 9	5	PcP	e 11·6
Tamanrasset	22·7	238	e 5	5	+ 1	e 9	13	+ 4	—	—	—	—
Upsala	23·8	349	i 5	14 <sub>a</sub>	0	i 9	28	0	—	—	—	—
Granada	23·8	280	i 5	16 <sub>k</sub>	+ 1	i 9	39	+11	6	21	PP	i 14·6
Toledo	23·9	287	e 5	16	0	9	36	+ 6	—	—	—	—
Kew	23·9	316	e 5	16	0	e 9	35	+ 5	e 16	27	ScS	e 13·6
Jersey	24·0	310	5	16	0	—	—	—	e 9	39	PcP	—
Aberdeen	27·8	326	—	—	—	10	45	+10	i 16	20	ScS	—
Lisbon	28·0	285	e 5	53 <sub>a</sub>	0	—	—	—	—	—	—	—
Rathfarnham C.	28·0	317	e 5	55 <sub>k</sub>	0	—	—	—	—	—	—	—
Skalstugan	28·2	347	i 5	54	- 1	—	—	—	—	—	—	—
Kiruna	31·3	356	i 6	23 <sub>a</sub>	0	e 11	34	+ 3	—	—	—	—
Quetta	34·4	89	e 6	51	0	—	—	—	—	—	—	—
Lwiro	38·8	176	e 7	31	+ 3	—	—	—	—	—	—	—

Continued on next page.

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		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Astrida		39.2	174	e 7	35 <sub>a</sub>	+ 3	—	—	—	—	—	—	
Uvira		40.1	176	e 7	43	+ 5	—	—	—	—	—	—	
Scoresby Sund		42.2	338	e 7	55	0	e 14	25	+ 8	e 9	34	PP	20.6
Shillong	z.	56.3	82	i 8	43	-60	—	—	—	—	—	—	—
Tananarive		58.9	156	e 10	5	+ 2	—	—	—	e 10	38	?	—
Resolute Bay		62.4	345	e 10	24	- 2	18	35?	+18	—	—	—	—
Kimberley	z.	65.1	181	i 10	46 <sub>k</sub>	+ 1	—	—	—	—	—	—	—
Seven Falls		68.5	313	e 11	5 <sub>a</sub>	0	—	—	—	—	—	—	—
Shawinigan Falls		69.9	314	i 11	14 <sub>a</sub>	0	—	—	—	—	—	—	—
Brébeuf		71.0	313	i 11	21 <sub>k</sub>	0	—	—	—	—	—	—	—
Ottawa		72.2	314	e 11	28 <sub>a</sub>	0	—	—	—	—	—	—	—
Kirkland Lake	z.	73.1	318	e 11	32 <sub>a</sub>	- 1	—	—	—	—	—	—	—
College		78.6	357	i 12	3	- 1	—	—	—	e 15	1	PP	—
San Juan		81.1	286	e 12	19	+ 1	—	—	—	—	—	—	—
Matusiro		83.6	49	12	31	0	e 22	55	+ 2	—	—	—	47.1
Rapid City	E.	87.4	326	i 12	50	0	—	—	—	—	—	—	—
Hungry Horse		88.2	335	e 12	53	0	—	—	—	—	—	—	—
Bozeman		89.4	332	e 12	59	0	—	—	—	—	—	—	—
Butte	N.	89.7	333	e 13	0	0	—	—	—	—	—	—	—
Boulder		91.6	325	i 13	9	0	—	—	—	—	—	—	—
Eureka		96.6	332	i 13	11	-21	—	—	—	—	—	—	—
Tucson		100.5	324	e 13	51	+ 1	—	—	—	—	—	—	—
La Paz	N.	103.1	259	e 13	59	- 2	—	—	—	—	—	—	—

July 12d. 15h. 1m. 26s. Epicentre 22°-62N. 93°-95E. Depth of focus =0.005.

A = -0.0637, B = +0.9218, C = +0.3825;  $\delta$  = +8;  $h$  = +4;  
D = +0.998, E = +0.069; G = -0.026, H = +0.382, K = -0.924.

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Chittagong		2.0	263	0	35	+ 2	—	—	—	—	—	—	
Shillong		3.5	327	i 0	53 <sub>a</sub>	0	i 1	32	- 2	—	—	—	
Chatra		7.4	306	i 1	49	0	i 3	8	- 3	—	—	—	
Bokaro		7.6	281	i 1	50	0	i 3	10	- 6	e 1	57	PP	3.3
Hyderabad		15.4	253	e 3	31	- 4	—	—	—	i 6	31	SS	e 7.9
Dehra Dun		16.2	302	e 3	46	+ 1	i 6	40	- 2	3	58	PP	7.4
Madras	E.	16.2	236	i 3	43 <sub>k</sub>	- 1	i 6	32	-10	4	5	PP	7.4
New Delhi	N.	16.2	295	e 3	45	0	i 6	42	0	7	2	SS	7.4
Wuwei		17.0	24	e 3	55	0	—	—	—	—	—	—	—
Changyeh		17.2	18	e 3	59	+ 1	—	—	—	—	—	—	—
Sian		17.5	45	e 4	1	0	i 7	15	+ 3	i 6	4	?	—
Yumen		17.8	8	e 4	2	- 2	—	—	—	—	—	—	—
Canton		17.8	85	e 4	5	0	7	19	+ 1	—	—	—	—
Hong Kong		18.7	87	4	14 <sub>a</sub>	- 1	e 7	42	+ 4	4	31	PP	—
Poona		19.2	262	i 4	23	+ 1	i 7	45	- 4	4	40	PP	8.3
Lahore		19.6	301	4	25	0	7	46	-12	—	—	—	—
Kodaikanal	E.	20.0	235	e 4	32	+ 2	e 8	29	pS	e 4	56	PP	—
Bombay		20.1	263	4	34	+ 3	e 8	16	+ 8	4	54	PP	9.2
Colombo	E.	20.7	223	4	36	0	8	26	+ 6	—	—	—	11.6
Nanking		23.9	62	e 5	9	0	e 9	18	+ 1	5	44	PP	—
Tainan		24.2	84	e 5	24	+12	—	—	—	—	—	—	—
Taichung		24.6	81	e 5	40	+25	—	—	—	—	—	—	—
Quetta		25.3	293	e 5	23	+ 1	i 9	49	+ 8	i 5	41	pP	—
Taipei		25.3	79	e 5	45	+22	—	—	—	—	—	—	—
Hwaiien		25.4	82	e 5	29	+ 5	—	—	—	—	—	—	—
Ilan		25.5	80	e 5	40	+15	—	—	—	—	—	—	—
Peking		25.6	42	e 5	25	0	9	48	+ 2	e 6	9	PP	—
Zô-Sè		25.7	65	e 5	23	- 2	9	44	- 3	—	—	—	—
Baguio City		25.8	99	i 5	28	+ 1	—	—	—	—	—	—	—
Frunse		25.8	326	5	29	+ 2	—	—	—	5	50	pP	—

Continued on next page.

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		$\Delta$ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.
				m.	s.		m.	s.		m.	s.	
Namangan		26.2	320	5	33	+ 2	10	5	+ 9	—	—	—
Manila		26.8	103	e 6	47	+71	—	—	—	—	—	—
Irkutsk		30.6	12	6	12	+ 1	11	7	+ 1	—	—	—
Lembang	z.	32.2	154	7	15	+51	—	—	—	—	—	—
Matusiro		40.6	60	i 7	32	- 2	i 13	35	- 5	i 8	18	sP 20.8
Sverdlovsk		41.9	333	7	47	+ 1	14	1	+ 2	—	—	—
Tiflis		45.1	307	8	14	+ 2	—	—	—	—	—	—
Sotchi		49.1	309	8	43	0	—	—	—	—	—	—
Ksara		51.8	296	e 9	6	+ 2	e 16	16	- 3	e 11	12	PP
Jerusalem		52.5	293	i 9	11 <sub>a</sub>	+ 2	—	—	?	—	—	—
Moscow		52.8	324	9	9	- 2	16	29	- 4	—	—	—
Iasi	N.	57.8	312	e 9	46	- 1	—	—	—	—	—	—
Bucharest		58.9	309	e 9	59	+ 4	e 17	59	+ 5	e 10	27	sP
Sodankyla		60.6	336	i 10	6	0	i 18	26	+10	i 10	29	pP
Athens		61.2	302	e 10	10	0	—	—	—	—	—	—
Tananarive		61.3	231	i 10	12	0	—	—	—	e 11	22	—
Rabaul	z.	62.8	108	e 10	19	- 1	—	—	—	—	—	—
Kiruna		63.0	336	i 10	21	- 1	i 18	47	+ 1	—	—	—
Upsala		63.9	327	i 10	26	- 2	i 18	56	- 1	i 20	14	ScS
Bratislava		64.9	314	i 10	30	- 4	—	—	—	i 10	56	pP
Taranto		65.8	306	10	4	-36	—	—	—	e 20	1	?
Skalstugan		66.3	331	i 10	42	- 1	—	—	—	i 11	7	PcP
Prague		66.4	316	i 10	47	+ 2	e 19	30	+ 2	i 11	7	pP
Copenhagen		66.9	322	e 10	48	0	e 19	38	+ 4	i 20	22	ScS
Astrida		67.4	257	e 10	52	+ 1	—	—	—	e 12	36	PP
Messina	E.	67.6	303	e 10	24	-27	—	—	—	e 19	43	PS
Jena		68.0	317	e 10	56	+ 1	e 13	28	PP	e 11	17	pP
Lwiro		68.1	258	e 10	56	+ 1	—	—	—	e 13	30	PP
Uvira		68.3	256	e 10	58 <sub>k</sub>	+ 1	—	—	—	—	—	—
Hamburg		68.6	320	i 10	59	0	—	—	—	e 12	6	? e 30.1
Rome		69.1	308	i 11	2 <sub>k</sub>	0	e 20	19	+19	e 11	30	pP
Florence		69.6	310	i 11	4	0	i 20	8	+ 2	i 13	43	PP
Stuttgart		70.0	316	e 11	6	0	e 20	9	- 2	e 13	42	PP
Chur		70.1	313	e 11	8	0	—	—	—	—	—	—
Ebingen		70.2	315	e 11	9	+ 1	—	—	—	—	—	—
Witteveen	z.	70.7	320	i 11	12	+ 1	—	—	—	e 11	35	pP
Strasbourg		70.9	316	i 11	14 <sub>a</sub>	+ 1	—	—	—	e 14	4	PP
Basle		71.3	314	e 11	16 <sub>k</sub>	+ 1	—	—	—	—	—	—
Neuchatel		71.8	314	e 11	18	0	—	—	—	—	—	—
Monaco		72.3	311	e 11	21	0	—	—	—	e 12	15	? —
Besançon		72.4	314	e 11	23	+ 1	e 15	51	PPP	e 14	9	PP
Paris		74.2	317	i 11	34	+ 2	e 20	52	- 7	e 14	24	PP
Clermont-Ferrand		74.7	314	e 11	35	0	—	—	—	—	—	e 38.6
Kew		75.2	320	i 11	38	0	—	—	—	—	—	43.6
Brisbane		75.7	128	i 11	39	- 1	i 21	16	+ 1	—	—	e 42.6
Scoresby Sund		77.0	342	i 11	49	+ 1	e 21	32	+ 3	—	—	40.6
Algiers Univ.	z.	77.5	305	e 11	48	- 2	e 21	35	0	e 12	17	pP
Rathfarnham C.	z.	78.0	323	i 11	44 <sub>k</sub>	- 9	—	—	—	e 14	22	PP
Alicante		79.6	307	11	59	- 2	21	58	+ 1	15	3	PP
Pretoria	z.	79.8	237	i 12	3 <sub>a</sub>	0	—	—	—	—	—	—
Relizane		79.8	304	e 12	8	+ 5	—	—	—	e 12	32	pP
Tamanrasset	z.	80.2	291	e 12	6	+ 1	e 22	8	+ 5	e 15	7	PP
Pietermaritzburg	z.	80.2	232	12	6	+ 1	—	—	—	—	—	—
College		80.8	22	i 12	6	- 2	—	—	—	—	—	—
Granada		82.4	307	12	39 <sub>a</sub>	+22	23	3	PS	—	—	42.2
Resolute Bay		82.8	2	i 12	18 <sub>a</sub>	0	e 22	29	- 1	e 27	45	SS
Kimberley		84.0	236	i 11	55 <sub>a</sub>	-29	—	—	—	—	—	—
Grahamstown		84.9	231	i 12	30 <sub>a</sub>	0	—	—	—	—	—	—
Seven Falls		109.2	349	e 18	50	PP	—	—	—	—	—	—
Kirkland Lake	z.	109.4	356	e 18	55	PP	—	—	—	—	—	—
Shawinigan Falls		110.1	350	e 19	1	PP	—	—	—	—	—	—
Ottawa		111.7	352	e 19	4	PP	—	—	—	—	—	—
Rapid City	E.	111.8	13	e 18	30	[+ 2]	—	—	—	—	—	—
Eureka		112.2	25	e 18	29	[ 0]	—	—	—	i 19	16	PP
San Juan		134.8	333	—	—	—	—	—	—	e 22	36	PP
Huancayo	z.	165.3	314	i 20	1	[+ 4]	e 24	51	PP	e 32	1	PcSPKP

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July 13d. 13h. 36m. 5s. Epicentre 27°·28S. 69°·81W. Depth of focus = 0·010R.

A = +0·3072, B = -0·8354, C = -0·4559;  $\delta$  = +11;  $h$  = +3;  
D = -0·939, E = -0·345; G = -0·157, H = +0·428, K = -0·890.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Antofagasta	3·6	351	i 0 52	- 2	1 33	- 4	1 15	PP	—
Santa Lucia	N. 6·2	187	e 1 31	+ 1	2 36	- 5	1 54	PP	—
Concepción	N. 9·7	191	e 2 26	+ 8	—	—	1 6	?	—
La Paz	10·8	9	2 36	+ 3	i 4 32	0	4 55	SS	5·6
Buenos Aires	12·2	130	2 49	- 1	5 30	+24	—	—	—
La Plata	12·7	130	i 2 58	0	5 31	+13	—	—	5·8
Huancayo	16·0	340	i 3 42	+ 2	e 6 40	+ 5	—	—	—
Bogota	32·0	352	i 6 22	+ 3	i 11 27	+ 5	—	—	—
Chinchina	32·6	349	i 6 24k	0	i 11 35	+ 3	i 6 54	pP	—
San Juan	45·5	4	e 8 9	- 2	i 10 0	PP	i 8 40	pP	—
Tacubaya	54·4	325	e 9 22	+ 3	e 16 48	0	e 9 46	pP	—
Columbia	61·9	349	i 10 10	- 1	—	—	i 10 43	pP	—
Chapel Hill	63·5	352	i 10 20	- 2	—	—	—	—	—
Fayetteville	67·1	339	i 10 44k	0	e 11 16	PcP	e 11 8	pP	—
Palisades	68·0	357	i 10 52	+ 1	i 19 46	+ 5	i 11 23	pP	e 33·2
Buffalo (Larkin)	70·3	353	i 11 3	- 1	—	—	—	—	—
Tucson	70·9	324	i 11 8	0	—	—	e 11 39	pP	—
Brébeuf	72·5	357	i 11 18	0	—	—	i 11 39	pP	—
Ottawa	72·5	356	i 11 17	0	20 37	+ 4	11 40	pP	—
Shawinigan Falls	73·5	358	i 11 23k	0	—	—	11 48	pP	—
Seven Falls	74·0	359	i 11 28k	+ 1	20 56	+ 6	11 51	pP	—
Boulder	74·7	332	e 11 30	- 1	—	—	—	—	—
Palomar	z. 75·0	321	i 11 32k	0	e 14 24	PP	i 12 4	pP	—
Kirkland Lake	z. 75·6	353	e 11 35k	0	—	—	e 12 6	pP	—
Riverside	75·8	321	i 11 38k	+ 1	e 14 29	PP	i 12 9	pP	—
Boulder City	75·9	324	i 11 38	+ 1	e 14 24	PP	i 12 8	pP	—
Pasadena	76·4	320	i 11 40k	0	e 14 30	PP	i 12 12	pP	—
China Lake	z. 77·3	322	i 11 45k	0	—	—	i 12 17	pP	—
Rapid City	E. 77·3	336	i 11 44	0	—	—	12 17	pP	—
Isabella	z. 77·6	321	i 11 46k	0	e 14 23	PP	i 12 19	pP	—
Salt Lake City	78·1	329	e 11 51	+ 1	e 15 11	PP	e 12 23	pP	—
Tinemaha	z. 78·5	322	e 11 51k	0	e 14 53	PP	e 12 24	pP	—
Eureka	79·1	325	i 11 56	+ 1	e 14 6	?	i 12 21	pP	—
Fresno	z. 79·2	321	i 11 55	0	—	—	—	—	—
Lick	z. 80·6	321	i 12 4k	+ 1	—	—	i 12 36	pP	—
Kimberley	z. 81·0	118	i 11 56a	- 9	—	—	—	—	—
Berkeley	z. 81·3	321	i 12 7k	0	—	—	i 12 39	pP	—
Bozeman	81·7	332	i 12 9	0	e 15 18	PP	12 42	pP	—
Mineral	z. 82·7	323	e 12 13k	0	—	—	—	—	—
Ukiah	82·8	321	e 12 15	+ 1	—	—	—	—	—
Shasta	83·4	323	e 12 16k	- 1	—	—	—	—	—
Hungry Horse	85·1	332	i 12 26	0	—	—	12 58	pP	—
Pretoria	z. 85·1	116	e 12 43	+17	—	—	—	—	—
Corvallis	86·6	325	—	—	—	—	e 13 9	pP	—
Tamanrasset	88·1	63	e 12 42	+ 1	e 23 20	+ 5	e 13 7	pP	—
Victoria	89·4	328	e 12 46	0	—	—	—	—	—
Uvira	96·3	97	e 16 46	?	—	—	—	—	—
Lwiro	96·6	96	e 16 43	?	—	—	e 17 40	PP	—
Messina	E. 103·0	54	—	—	e 26 31	PS	e 23 11	?	e 56·0
Resolute Bay	103·0	353	—	—	24 20	[+ 2]	e 15 58	?	—
College	109·5	334	e 18 11	[- 8]	—	—	—	—	—
Upsala	111·9	33	—	—	—	—	i 19 1	PP	—
Jerusalem	115·8	66	i 18 12	[-18]	—	—	i 19 43	PP	—
Rabaul	128·8	239	e 18 58	[+ 2]	—	—	—	—	—
Quetta	142·1	75	19 16?	[- 4]	e 22 50	SKP	19 49	pPKP	—
Poona	z. 145·5	97	i 19 31	[+ 4]	—	—	i 19 53	pPKP	—
Lembang	z. 146·0	175	i 19 47a	[+19]	—	—	—	—	—
Matusiro	154·6	298	19 42k	[+ 2]	33 7	SS	20 6	PKP <sub>2</sub>	—



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July 15d. 12h. 52m. 23s. Epicentre 28°·06N. 139°·53E. Depth of focus = 0·075R.

A = -0·6724, B = +0·5736, C = +0·4678;  $\delta = -2$ ;  $h = +2$ ;  
D = +0·649, E = +0·761; G = -0·356, H = +0·304, K = -0·884.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Hatidyozima	5·0	3	e 1 29	0	2 36	- 2	—	—
Siomisaki	6·3	330	e 1 41	+ 1	e 3 1	+ 1	—	—
Omaesaki	6·6	351	—	—	e 3 5	- 1	—	—
Owase	6·6	335	1 45	+ 1	i 3 8	+ 2	—	—
Osima	6·7	359	e 1 43	- 1	e 3 3	- 4	—	14·2
Mera	6·8	2	e 1 46	0	i 3 6	- 3	—	—
Shizuoka	7·0	352	—	—	e 3 10	- 3	—	—
Misima	7·1	356	e 1 50	+ 2	e 3 11	- 3	—	—
Tu	7·1	340	e 1 50	+ 1	e 3 15	+ 1	—	—
Kameyama	7·3	340	1 52	+ 2	3 20	+ 2	—	—
Tokusima	7·4	326	e 1 52	+ 1	e 3 21	+ 1	—	—
Yokohama	7·4	1	e 1 50	0	i 3 15	- 5	—	—
Simidu	7·4	311	e 1 53	+ 2	e 3 23	+ 3	—	—
Osaka	7·4	334	e 1 54	+ 2	e 3 23	+ 3	—	—
Nagoya	E. 7·4	344	e 1 54	+ 2	3 20	0	13 53	ScS
Koti	7·5	318	e 1 58	+ 5	e 3 22	0	—	—
Iida	7·6	349	—	—	e 3 22	- 2	—	—
Kohu	N. 7·6	354	e 1 53	0	e 3 22	- 2	—	—
Tokyo, C.M.O.	7·6	1	1 54	0	3 19	- 5	—	—
Kyoto	7·7	336	1 53	0	3 20	- 6	—	—
Hikone	7·7	340	1 54	0	3 21	- 5	—	—
Tyosi	N. 7·7	8	—	—	e 3 25	- 1	—	—
Takamatu	7·8	324	i 1 58	+ 2	i 3 32	+ 4	—	—
Titibu	7·9	357	e 1 57	0	i 3 25	- 5	—	—
Miyazaki	8·0	301	e 1 59	+ 1	e 3 31	0	—	—
Kumagaya	8·1	359	e 1 57	- 1	e 3 27	- 6	—	—
Tsuruga	E. 8·1	340	—	—	e 3 38	+ 5	—	—
Kakioka	E. 8·2	4	e 1 59	0	3 31	- 4	—	—
Tukubasan	8·2	3	e 1 55	- 4	e 3 9	- 26	—	—
Yakusima	Z. 8·2	289	e 2 1	+ 1	—	—	—	—
Matumoto	8·3	351	e 2 1	0	3 36	- 1	—	—
Oiwake	8·3	354	e 2 1	0	e 3 31	- 6	—	—
Maebasi	8·3	357	e 1 59	- 1	e 3 34	- 3	—	e 4·3
Mito	8·3	5	e 2 1	0	e 3 36	- 1	—	—
Hukui	8·4	342	—	—	3 42	+ 3	—	—
Toyooka	8·5	333	—	—	e 3 39	- 2	—	—
Utunomiya	8·5	2	e 2 2	0	e 3 34	- 7	—	—
Matusiro	8·5	353	i 2 2 <sub>a</sub>	- 1	3 38	- 3	—	—
Kagosima	8·6	296	e 2 4	0	3 45	+ 3	—	—
Ooita	E. 8·6	309	e 2 9	+ 5	e 3 41	- 1	—	—
Nagano	N. 8·7	352	e 2 4	0	e 3 43	- 1	—	—
Hirosima	E. 8·8	318	e 2 3	- 2	3 46	0	—	—
Kanazawa	8·8	345	—	—	e 3 48	+ 2	—	—
Toyama	8·8	348	e 2 20	+ 13	3 47	+ 1	—	—
Onahama	8·9	7	e 2 8	0	i 3 47	- 1	—	—
Kumamoto	9·0	304	e 2 9	+ 1	3 52	+ 2	—	—
Shirakawa	9·1	4	2 8	0	3 47	- 5	—	—
Saga	9·5	305	2 16	2	i 3 50	- 9	—	—
Wazima	9·6	347	e 2 14	0	e 4 1	0	—	—
Hokusima	9·7	4	i 2 15	0	i 4 1	- 2	—	—
Niigata	9·8	358	—	—	i 4 7	- 2	3 18	?
Yamagata	10·2	4	e 2 19	- 1	i 4 11	- 2	—	—
Sendai	10·2	6	e 2 20	- 1	e 4 11	- 2	—	—
Sakata	10·8	1	e 2 32	+ 5	e 4 29	+ 4	—	—
Mizusawa	11·1	6	2 34	+ 3	4 32	+ 2	—	—
Akita	11·6	2	i 2 37	+ 1	i 4 43	+ 3	—	—
Morioka	11·7	6	i 2 36	0	i 4 43	+ 1	—	—
Miyako	N. 11·7	9	e 2 36	0	4 43	+ 1	—	—
Hatinohe	12·6	7	e 2 44	0	4 59	0	—	—
Aomori	12·8	4	e 2 48	0	e 5 5	+ 2	—	—

Continued on next page.

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Mori	14.0	3	3	0	0	5	28	+ 2	—	—	—
Muroran	14.3	4	e 3	4	+ 1	e 5	34	+ 4	—	—	—
Suttsu	14.7	2	—	—	—	e 5	41	+ 3	—	—	—
Sapporo	15.0	5	i 3	10	0	e 5	47	+ 3	—	—	—
Kusiro	15.4	14	e 3	15	0	e 5	58	+ 7	—	—	e 6.2
Nemuro	16.0	16	e 3	20	0	e 6	7	+ 3	—	—	—
Zō-Sō	16.2	285	e 3	20	- 2	e 6	4	- 2	—	—	—
Hwalien	16.6	260	3	30	+ 4	6	16	+ 4	—	—	—
Nanking	18.4	288	i 3	43k	- 0	6	45	+ 1	—	—	—
Baguio City	21.0	240	i 4	9	+ 1	i 7	33	+ 5	—	—	—
Manila	21.8	236	e 4	14	- 1	—	—	—	—	—	—
Peking	22.1	308	4	22k	- 1	7	58	+ 2	—	—	—
Hong Kong	23.6	262	4	32k	- 0	—	—	—	—	—	—
Shillong	z.	42.4	i 7	12	+ 1	—	—	—	—	—	—
Tiksi	44.0	355	7	21	- 2	—	—	—	—	—	—
Chatra	46.2	282	i 7	40	0	—	—	—	—	—	—
Namangan	56.1	302	8	53	0	16	3	+ 1	—	—	—
Brisbane	56.7	166	i 8	57	0	—	—	—	—	—	—
College	57.6	29	i 9	1	- 1	—	—	—	9	17	PcP
Sverdlovsk	61.0	322	9	24	- 1	17	2	- 2	—	—	—
Quetta	62.4	291	i 9	34k	0	e 17	21	0	—	—	—
Riverview	62.5	169	9	28	- 7	i 17	9	- 13	i 10	9	PcP
Sitka	64.4	37	i 9	48	+ 3	—	—	—	—	—	—
Resolute Bay	71.7	13	e 10	30	- 1	e 19	9	- 1	—	—	—
Sodankyla	72.6	338	i 10	37	0	—	—	—	—	—	—
Moscow	73.6	325	10	41	- 1	19	28	- 3	—	—	—
Victoria	73.9	43	i 10	44	0	—	—	—	—	—	—
Kiruna	74.4	340	—	—	—	i 19	37	- 3	e 19	2	?
Seattle	z.	74.9	i 10	52	+ 2	—	—	—	—	—	—
Tiflis	75.2	310	10	41	- 10	—	—	—	—	—	—
Corvallis	z.	75.6	i 10	54	0	—	—	—	—	—	—
Sotchi	77.8	313	11	1	- 4	—	—	—	—	—	—
Shasta	z.	77.9	i 11	7a	+ 1	—	—	—	—	—	—
Mineral	z.	78.6	i 11	11a	+ 1	—	—	—	—	—	—
Berkeley	z.	79.3	e 11	14a	0	—	—	—	13	5	pP
Hungry Horse	79.5	41	i 11	16	+ 1	e 20	36	+ 2	e 13	1	pP
Skalstugan	79.7	339	e 11	15	0	e 20	35	- 1	—	—	—
Lick	z.	80.0	11	17a	0	14	24	PP	13	9	pP
Reno	z.	80.2	e 11	19	0	—	—	—	—	—	—
Upsala	80.3	334	i 11	17	- 1	i 20	38	- 4	—	—	—
Scoresby Sund	80.9	354	e 11	23	+ 1	e 20	51	+ 3	—	—	—
Fresno	z.	81.5	e 11	25	0	—	—	—	—	—	—
Butte	N.	81.6	i 11	26	0	i 20	55	0	e 13	18	pP
King Ranch	z.	82.2	i 11	31a	+ 2	—	—	—	i 13	24	pP
Tinemaha	82.5	52	i 11	31a	+ 1	—	—	—	e 13	28	pP
Bozeman	82.7	42	i 11	33	+ 2	—	—	—	i 13	26	pP
Eureka	82.8	49	i 11	32	0	e 21	8	+ 2	e 13	19	pP
Isabella	z.	83.0	i 11	32a	0	14	51	PP	i 13	26	pP
China Lake	z.	83.5	i 11	36a	+ 1	e 14	55	PP	i 13	30	pP
Pasadena	84.0	55	i 11	38a	0	i 21	19	+ 1	i 13	33	pP
Focsani	N.	84.4	319	—	—	e 21	25	+ 3	—	—	—
Riverside	z.	84.6	i 11	40a	0	—	—	—	i 13	35	pP
Salt Lake City	84.8	46	e 11	43	+ 1	—	—	—	e 13	32	pP
Palomar	z.	85.3	i 11	45a	+ 1	e 15	9	PP	i 13	40	pP
Boulder City	85.4	52	i 11	45	0	—	—	—	i 13	40	pP
Bucharest	85.7	319	—	—	—	i 21	37	+ 3	—	—	—
Hayfield	N.	86.0	i 11	48	+ 1	—	—	—	i 13	43	pP
Rapid City	E.	88.1	i 11	58	0	—	—	—	e 13	48	pP
Boulder	89.4	44	i 12	5	+ 2	—	—	—	—	—	—
Tucson	90.2	53	i 12	8	+ 1	e 15	49	PP	e 14	4	pP
Stuttgart	91.6	330	e 12	13	0	—	—	—	—	—	—
Basle	93.2	330	e 12	29	+ 8	—	—	—	—	—	—
Rathfarnham C.	z.	93.7	e 12	33	+ 10	—	—	—	—	—	—
Ottawa	100.2	24	e 17	6	PP	—	—	—	—	—	—
Tamanrasset	112.8	314	e 18	33	PP	—	—	—	—	—	—
La Paz	N.	152.0	e 21	14	PKP <sub>2</sub>	—	—	—	—	—	—

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July 16d. 15h. 7m. 11s. Epicentre 22°·24N. 95°·73E. Depth of focus = 0·001R.

A = -0·0925, B = +0·9219, C = +0·3763;  $\delta = +6$ ;  $h = +4$ .  
D = +0·995, E = +0·100; G = -0·038, H = +0·374, K = -0·926.

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Chittagong	3·6	273	0	56	+ 1	—	—	—	—	—	—
Shillong	4·8	314	i 1	11 <sub>a</sub>	0	i 2	13	+ 6	1	18	PP
Chatra	9·0	302	i 2	9	0	i 4	4	+12	—	—	—
Bokaro	9·3	282	i 2	9	- 6	i 4	0	+ 1	2	24	PP
Sining	15·3	19	e 3	33	0	—	—	—	—	—	—
Lanchow	15·5	25	3	36	0	—	—	—	—	—	—
Canton	16·2	84	e 3	43	- 2	—	—	—	—	—	—
Sian	16·7	41	i 3	52	0	—	—	—	—	—	—
Wuwei	16·7	19	3	52	0	—	—	—	—	—	—
Hyderabad	16·9	257	i 3	54 <sub>a</sub>	0	i 7	13	+12	—	—	8·2
Hong Kong	17·1	86	3	59	+ 2	—	—	—	—	—	—
Changyeh	17·1	13	e 3	59	+ 1	—	—	—	—	—	8·9
Madras	E. 17·4	241	i 3	55 <sub>a</sub>	- 5	i 7	35	+23	4	17	PP
Shenchow	17·7	42	e 4	10	+ 4	—	—	—	—	—	8·8
Dehra Dun	17·8	301	e 4	6	+ 1	i 7	30	+ 8	4	24	PP
Yumen	18·0	3	i 4	8	0	—	—	—	—	—	—
Yinchuan	18·5	27	4	16	+ 1	—	—	—	—	—	—
Medan	18·8	171	e 4	15	- 2	—	—	—	—	—	—
Linfen	19·5	41	e 4	24	- 1	—	—	—	—	—	9·9
Futzeling	20·4	60	e 4	30	- 5	—	—	—	—	—	—
Poona	20·8	264	e 4	40	0	e 8	29	+ 3	5	5	PP
Kodaikanal	E. 21·2	239	i 4	45 <sub>k</sub>	+ 1	i 8	42	+ 8	5	24	PP
Lahore	21·2	300	4	45	+ 1	—	—	—	—	—	11·2
Taiyuan	21·2	39	4	41	- 2	—	—	—	—	—	—
Colombo	E. 21·6	228	4	42	- 5	e 8	50	+ 9	—	—	—
Bombay	21·7	265	e 4	56	+ 7	i 8	57	+16	5	19	PP
Paotow	21·9	30	e 4	48	- 2	—	—	—	—	—	10·2
Tainan	22·6	83	5	5	+ 7	9	6	+ 6	—	—	—
Nanking	22·7	60	4	55 <sub>a</sub>	- 3	e 9	0	- 1	5	31	PP
Taichung	23·0	80	e 4	56	- 5	9	20	+13	—	—	—
Alishan	23·1	82	e 5	14	+11	9	22	+13	—	—	—
Hengchun	23·2	86	5	11	+ 8	9	15	+ 5	—	—	—
Tatung	23·2	36	5	5	+ 1	—	—	—	—	—	—
Hsinchu	23·3	79	e 5	13	+ 9	9	48	+36	—	—	—
Hsinkong	23·7	83	e 5	11	+ 3	9	35	+16	—	—	—
Taipei	23·8	78	e 5	12	+ 3	9	35	+14	—	—	—
Hwalien	23·9	8	5	14	+ 4	9	34	+11	—	—	—
Baguio City	24·1	100	i 5	14	+ 1	e 9	30	+ 4	—	—	—
Zô-Sô	24·4	63	i 5	10 <sub>a</sub>	- 4	9	27	- 4	5	44	PP
Kwanting	24·6	39	e 5	17	0	—	—	—	—	—	—
Peking	24·8	40	i 5	17 <sub>a</sub>	- 1	—	—	—	—	—	—
Manila	25·1	103	i 5	18	- 3	i 9	45	+ 2	—	—	—
Quetta	27·0	293	e 5	38	- 0	i 10	31	+17	i 6	10	PP
Frunse	27·1	324	i 5	40	0	—	—	—	i 11	28	SS
Dairen	27·7	47	e 5	47	+ 1	—	—	—	—	—	—
Stalinabad	28·2	311	i 5	55	+ 4	i 10	49	+15	—	—	—
Tashkent	29·3	317	e 5	57	- 2	—	—	—	i 12	31	SS
Djakarta	30·3	158	e 6	5	- 3	e 11	1	- 6	e 7	11	PP
Semipalatinsk	30·6	340	e 6	10	- 1	i 11	17	+ 5	—	—	e 16·7
Irkutsk	30·7	10	6	12 <sub>a</sub>	0	11	15	+ 2	i 6	23	pP
Tomie	31·0	63	e 6	13	- 1	—	—	—	e 8	47	PcP
Lembang	31·2	157	i 6	22 <sub>k</sub>	+ 5	e 11	31	+10	—	—	e 15·9
Bandung	31·2	157	e 6	23	+ 6	e 11	32	+11	—	—	e 17·3
Ituhara	E. 31·7	61	e 6	46	+24	—	—	—	—	—	e 16·3
Nagasaki	31·9	64	—	—	—	e 17	9	ScS	e 14	10	SSS
Unzendake	32·2	64	e 6	29	+ 3	e 12	5	SS	e 13	29	SS
Kagosima	32·3	66	—	—	—	—	—	—	—	—	e 17·0
Saga	32·4	63	e 6	37	+10	—	—	—	e 12	1	sS
Hukuoka	E. 32·5	62	e 6	26	- 2	e 11	59	+18	—	—	i 14·8
Changchun	32·6	42	6	29	0	e 11	46	+ 3	7	33	PP

Continued on next page.

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		$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Kumamoto		32.6	64	e 6 25	- 4	11 58	+15	—	16.8
Asosan		32.9	64	—	—	—	—	e 8 43	PcP
Simonoseki		33.0	62	e 7 53	PP	—	—	e 7 12	?
Miyazaki		33.1	65	e 6 40	+ 6	12 13	+22	—	16.3
Ooita		33.4	63	e 6 42	+ 5	e 12 15	+20	e 7 36	PP
Hamada	Z.	34.1	60	e 6 28	-14	—	—	e 10 21	?
Hirosima		34.3	61	e 6 48	+ 4	—	—	—	e 15.4
Matuyama	N.	34.5	62	e 6 51	+ 5	—	—	e 14 53	SSS
Simidu		34.5	64	e 6 50	+ 3	—	—	—	e 16.8
Koti		35.1	63	e 6 53	+ 2	e 12 29	+ 7	—	15.2
Yonago		35.3	60	—	—	—	—	e 10 18	?
Muroto		35.6	64	e 6 51	- 3	e 12 27	- 3	—	i 18.2
Takamatu		35.6	62	e 6 59	+ 4	e 12 2	-28	—	18.4
Ashkabad		35.7	305	e 6 56	0	—	—	—	19.8
Himeji	N.	35.9	62	—	—	—	—	e 11 3	?
Tokusima		36.0	62	6 57	- 1	e 12 37	+ 1	e 7 7	pP
Sumoto		36.3	62	e 7 2	+ 1	e 12 44	+ 4	—	e 17.3
Toyooka		36.5	60	e 6 58	- 6	—	—	—	e 17.8
Vladivostok		36.5	47	i 6 58	- 4	e 12 36	- 7	—	—
Kobe	N.	36.6	61	e 6 58	- 5	—	—	—	—
Osaka		36.9	62	e 7 6	0	e 12 42	- 8	—	19.7
Siomisaki		36.9	64	e 7 7	+ 1	e 12 51	+ 1	e 8 32	PP
Kyoto		37.1	61	7 3	- 4	13 14	+23	—	e 17.3
Nara		37.1	62	e 7 11	+ 3	—	—	—	—
Owase		37.4	63	e 7 13	+ 3	e 13 0	+ 3	—	18.4
Tsuruga		37.5	60	7 5	- 5	e 13 6	+ 7	—	—
Hikone		37.6	61	e 7 9	- 2	—	—	e 11 20	?
Kameyama		37.7	61	e 7 14	+ 1	e 13 1	- 1	(e 16 4)	SSS
Ibukisan		37.7	60	e 7 4	- 8	—	—	—	e 16.1
Hukui		37.7	59	—	—	—	—	e 7 30	pP
Gihu		38.0	61	e 7 12	- 2	e 13 7	+ 1	—	e 18.6
Kanazawa		38.1	59	e 7 17	0	—	—	—	—
Nagoya		38.1	61	7 19	+ 3	e 13 8	0	—	19.2
Wazima		38.5	58	e 7 19	0	e 13 14	0	—	e 18.6
Takayama	N.	38.5	60	e 7 13	- 6	—	—	—	—
Toyama		38.6	59	e 7 21	+ 1	e 13 22	+ 7	—	19.2
Iida		38.9	61	—	—	e 13 32	+12	e 7 31	pP
Omaesaki		39.1	62	e 7 23	0	e 13 45	+22	—	e 21.1
Matumoto	N.	39.1	60	e 7 27	+ 2	e 13 27	+ 4	—	19.7
Shizuoka		39.3	62	e 7 34	+ 8	13 30	+ 4	e 9 27	PP
Matusiro		39.4	59	i 7 22 <sup>a</sup>	- 4	13 30	+ 3	i 9 11	PP
Nagano		39.4	59	e 7 27	0	13 41	+14	9 30	PP
Kohu		39.5	61	e 7 28	- 1	—	—	—	e 19.6
Oiwake		39.6	60	e 7 32	+ 4	e 14 1	?	—	e 19.1
Aikawa		39.6	57	e 7 11	-17	—	—	—	e 17.3
Hunatu		39.6	61	e 7 32	+ 4	e 14 19	?	—	20.3
Misima		39.7	61	e 7 22	- 7	e 13 39	+ 7	e 7 36	pP
Titibu		40.0	60	e 7 33	+ 1	—	—	—	e 20.1
Maebasi		40.0	60	e 7 32	0	e 15 1	?	e 9 31	PPP
Osima		40.0	62	e 7 36	+ 4	e 13 47	+11	e 8 25	?
Kumagaya		40.2	60	e 7 43	+ 9	e 17 3	SSS	e 14 12	PPS
Niigata		40.2	57	e 7 33	0	e 13 58	+19	—	e 20.0
Yokohama		40.3	61	e 7 18	-16	13 27	-14	e 9 5	PP
Mera		40.4	62	e 7 42	+ 6	—	—	e 12 13	—
Tokyo, C.M.O.		40.4	61	e 7 38	+ 2	e 13 48	+ 6	e 9 16	PP
Utunomiya		40.7	59	e 7 45	+ 8	e 13 45	- 2	e 16 49?	SS
Kakioka		40.9	60	e 7 38	0	—	—	—	—
Sakata		41.0	56	—	—	—	—	e 8 6	?
Mito		41.1	60	e 7 40	- 2	e 13 52	- 1	—	—
Yamagata		41.3	57	e 7 53	+10	—	—	—	20.8

Continued on next page.

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Hokusima	41.3	58	e 7	43	0	e 13	51	- 5	—	—	20.7
Akita	41.4	55	e 7	44	+ 1	e 17	20	SSS	e 9	20	PP
Onahama	41.5	59	—	—	—	—	—	—	e 8	6	?
Sendai	41.7	57	e 7	46	0	e 14	10	+ 9	e 9	7	PP
Mizusawa	42.0	56	7	48	0	14	9	+ 3	—	—	e 18.2
Isinomaki	42.1	57	e 7	47	- 3	—	—	—	—	—	—
Suttsu	42.2	50	e 7	39	-10	—	—	—	—	—	e 22.0
Morioka	42.2	55	e 7	46	- 3	—	—	—	e 17	47	SS
Mori	42.2	51	e 7	47	- 2	e 13	35	?	e 9	16	PP
Muroran	42.6	51	e 7	54	+ 1	—	—	—	—	—	e 22.9
Hatinohe	42.6	54	e 7	53	0	—	—	—	—	—	e 20.7
Miyako	42.8	55	e 7	55	0	e 14	12	- 6	e 10	5	PPP
Sverdlovsk	43.0	332	7	57	0	14	26	+ 5	9	34	PP
Sapporo	43.0	50	e 7	57	0	e 14	24	+ 3	e 10	25	PPP
Tomakomai	43.1	51	e 8	5	+ 8	—	—	—	—	—	e 22.6
Urakawa	43.9	52	e 7	59	- 4	e 14	37	+ 3	e 15	53	?
Wakkanai	43.9	47	e 8	6	+ 2	e 14	39	+ 5	—	—	e 18.5
Asahigawa	43.9	49	e 8	6	+ 2	—	—	—	—	—	e 21.8
Obihiro	44.3	51	e 8	33	?	—	—	—	—	—	24.5
Yuzno-Sakhlinsk	45.0	45	e 8	12	0	i 14	46	- 4	—	—	e 25.2
Goris	45.2	304	i 8	12	- 1	i 15	17	PS	10	11	PP
Kusiro	45.2	51	e 8	17	+ 3	e 15	1	+ 8	—	—	e 22.2
Nemuro	46.1	51	e 8	21	- 2	e 15	3	- 2	—	—	—
Tiflis	46.6	307	8	25	0	15	12	- 1	10	24	PP
Guam	47.3	92	e 8	29	- 1	—	—	—	—	—	—
Tiksi	52.9	12	e 9	9	- 4	e 16	38	- 2	e 10	19	PcP
Ksara	53.4	296	e 9	18	0	i 16	35	-12	i 11	15	PP
Magadan	53.6	31	9	15	- 3	e 16	47	- 3	11	26	PP
Moscow	54.0	324	e 9	19	- 2	—	—	—	—	—	—
Jerusalem	54.2	294	i 9	21	- 1	e 17	1	+ 3	—	—	—
Simferopol	54.7	310	e 9	23	- 3	i 17	3	- 1	i 11	31	PP
Perth	57.2	160	i 9	52	+ 7	i 17	43	+ 5	i 17	59	PS
Klyuchi	58.0	37	e 9	46	- 3	i 17	56	+ 8	i 11	52	PP
Pulkovo	58.7	327	i 9	58	+ 3	i 17	47	-10	i 19	40	ScS
Apatity	59.1	337	i 9	27 <sub>a</sub>	-30	i 17	43	-20	i 11	33	PP
Iasi	59.3	313	e 9	56	- 3	18	12	+ 7	—	—	—
Focsani	59.6	311	e 9	57	- 4	e 18	29	+20	e 12	12	PP
Bucharest	60.4	309	e 10	9	+ 2	i 18	22	+ 3	e 10	32	pP
Rabaul	61.1	108	e 10	10	- 1	e 13	35	PPP	i 10	52	PcP
Helsinki	61.4	328	e 10	12	- 1	e 18	31	- 1	i 12	31	PP
Lwow	61.6	316	e 10	13	- 1	e 18	35	0	i 10	57	PcP
Sodankyla	61.6	336	i 10	12	- 2	i 18	38	+ 3	i 10	36	pP
Tananarive	62.4	233	e 10	17	- 2	e 18	43	- 2	e 20	3	ScS
Sofia	62.6	308	e 10	30	+ 9	i 19	59	ScS	—	—	—
Athens	62.8	302	e 10	20	- 2	i 18	52	+ 2	—	—	—
Warsaw	63.4	318	e 10	27	0	e 19	3	+ 6	e 11	8	PcP
Timisoara	63.8	311	e 10	44	+14	e 20	42	ScS	e 12	23	PP
Kiruna	64.1	336	i 10	28 <sub>a</sub>	- 2	i 19	7	+ 1	e 19	25	PS
Skalnate Pleso	64.1	315	i 10	34	+ 2	e 19	7	+ 1	i 10	57	pP
Belgrade	64.4	310	10	33 <sub>a</sub>	0	e 18	53	-17	e 13	7	PP
Szeged	64.5	312	10	44	+ 8	19	26	+15	15	8	ScS
Budapest	65.1	313	e 10	40	+ 2	19	7	-11	11	17	PcP
Upsala	65.1	327	i 10	34	- 3	i 19	13	- 5	i 12	56	PP
Kalossa	65.2	312	e 10	44	+ 5	20	33	SKS	12	44	PP
Hurbanovo	65.6	314	e 11	19	pP	e 18	49	-35	e 13	5	PP
Bratislava	66.3	314	i 10	45	- 2	19	21	-12	i 11	8	pP
Vienna	66.8	314	e 10	52	+ 3	e 19	40	+ 1	i 15	22	PcS
Taranto	67.4	306	10	33	-19	20	8	PS	e 14	38	PPP
Prague	67.8	316	e 10	56	+ 1	i 19	54	+ 3	i 11	16	PcP
Copenhagen	68.2	323	e 10	59	+ 1	i 20	3	+ 7	i 20	16	PS

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	$\Delta$	Az.	P.		O-C.	S.		O-C:	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Astrida	68.9	258	e 11	2	0				e 13	35	PP	—
Triest	69.0	312	e 11	7	+ 3	i 20		- 4	e 11	31	PP	38.4
Reggio Calabria	69.1	304	e 11	4	- 1	e 20		+ 5			—	—
Cheb	69.1	317	e 11	11	+ 8	i 20		+ 3	e 12	51	PP	—
Messina	69.1	304	e 10	59	-	e 20	5	- 1	e 13	37	PP	32.3
Jena	69.4	318	e 11	2	- 2	e 20	15	+ 5	i 11	20	PcP	e 37.8
Lwiro	69.6	259	e 11	7	0				e 13	20	—	—
Uvira	69.8	257	e 11	12	+ 4				e 13	17	—	—
Hamburg	69.9	321	e 11	11	+ 3	e 20	19	+ 3	i 13	55	PP	e 33.8
Rome	70.6	308	e 11	8	- 4	e 20	23	- 1	i 13	19	PP	—
Bologna	70.9	311	e 11	25	+ 11	e 20	45	+ 17	e 13	36	PP	e 33.8
Florence	71.1	310	e 11	11	- 3	i 20	28	- 2	i 12	27	?	—
Prato	71.2	310	e 11	19	+ 3	e 20	33	+ 2			—	—
Stuttgart	71.4	316	e 11	14	- 5	e 20	39	+ 6	11	27	PcP	e 38.8
Chur	71.6	316	e 11	20	0						—	—
Ebingen	71.7	315	e 11	21	+ 1						—	—
Karlsruhe	71.8	316	e 11	21k	+ 1	e 20	40	+ 2	i 11	43	PcP	—
Witteveen	z. 72.0	320	e 11	27	+ 6						—	—
Zürich	72.1	314	e 11	24	+ 3						—	—
Pavia	72.2	312	e 11	20	- 1	e 20	49	+ 7	e 13	56	PP	e 30.9
Strasbourg	72.3	316	e 11	20	- 2	e 20	51	+ 7	i 14	10	PP	—
Basle	72.7	315	e 11	20	- 5	e 20	43	- 5			—	—
De Bilt	73.1	320	i 11	29	+ 2	e 20	53	0	e 25	37?	SS	e 37.8
Neuchatel	73.3	314	e 11	34	+ 6	e 21	0	+ 5			—	—
Tunis	73.6	304	e 11	37	+ 6	e 20	49	- 9	e 25	43	SS	e 38.8
Besançon	73.8	315	e 11	29	- 2	e 21	3	+ 2	i 14	21	PP	—
Brisbane	74.2	129	i 11	29	- 4	i 21	2	- 3			—	—
Melbourne	75.6	142	i 11	37	- 4	e 21	13	- 8	e 21	30	SS	e 31.2
Paris	75.6	317	e 11	36	- 5	i 21	20	- 1	e 11	52	PcP	e 30.6
Aberdeen	75.7	326	i 11	50	+ 8	i 21	27	+ 5	e 15	4	PP	39.4
Clermont-Ferrand	76.2	314	e 11	44	0	e 21	53	+ 26	e 14	50	PP	—
Durham	76.2	324	i 11	54	+ 9	i 21	26	- 1	12	8	PcP	—
Kew	76.6	320	e 11	49	+ 2	i 21	33	+ 1	i 14	49	PP	e 36.8
Edinburgh	E. 76.7	325	14	11	PP	21	18	- 15	22	7	PS	—
Riverview	76.8	135	i 11	52k	+ 4	i 21	39	+ 5	i 12	7	pP	e 33.0
Scoresby Sund	77.9	342	i 11	54	0	e 21	50	+ 4	e 14	58	PP	37.8
Barcelona	78.2	310				e 24	8	?	13	35	—	e 41.9
Jersey	78.4	318	e 12	7	+ 10	e 24	45	?			—	—
Algiers Univ.	z. 79.1	305	e 11	59	- 1	e 21	53	- 5			—	—
Rathfarnham C.	z. 79.3	323	i 12	9k	+ 6	e 17	11	PPP	e 15	15	PP	—
College	80.6	23	i 12	6	- 2	e 22	6	- 8	e 14	57	PP	e 32.8
Pretoria	z. 81.0	238	e 12	9	- 1				12	22	pP	—
Alicante	81.2	308	12	11	0	i 22	18	- 2	15	18	PP	e 38.8
Pietermaritzburg	z. 81.3	233	i 12	24	+ 11						—	—
Relizane	81.3	305	e 12	12	0				e 13	1	?	—
Reykjavik	81.4	337	e 12	13	0	i 22	32	+ 10	i 12	23	pP	e 34.1
Tamanrasset	z. 81.8	291	e 12	15	0	e 22	27	+ 1	e 15	33	PP	—
Nouméa	81.9	118	e 12	4	- 11				i 12	26	pP	—
Resolute Bay	83.1	3	i 12	19k	- 2	e 22	45	+ 5	e 15	37	PP	e 44.0
Toledo	83.2	310	e 12	21	- 1	22	42	+ 1	23	45	PS	47.0
Almeria	83.2	307	e 12	21	- 1	e 22	44	+ 3	i 15	35	PP	—
Granada	83.9	308	i 12	32k	+ 6	i 22	50	+ 2	12	59	pP	i 43.9
Kimberley	z. 85.1	236	i 12	28	- 3						—	—
Grahamstown	z. 86.0	232	i 12	40?	+ 2						—	—
Lisbon	87.2	311	e 12	42	0				e 16	11	PP	—
Mirny	88.5	181	e 12	45	- 3	e 23	19	SKKS			—	—
Sitka	90.2	25	e 12	55	- 1	e 23	28	[+ 3]	e 16	8	PP	e 36.9
Hermanus	91.9	234				23	42	[+ 8]	24	14	*SS	—
Ivigtut	91.9	343	e 12	15	- 51	e 22	35	[- 59]			—	—
Honolulu	96.0	64				e 24	12	[+ 14]	e 32	7	PP	e 39.9

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Angra do Heroismo	99.2	318	e 18 35	PPP	i 24 59	- 6	—	54.2
Victoria	101.3	25	e 13 57	+ 9	—	—	e 18 1	—
Seattle	102.5	25	e 13 41	-11	25 9	-23	18 12	54.0
Saskatoon	103.4	14	—	—	e 24 37	[+ 3]	—	—
Corvallis	E. 104.5	28	—	—	—	—	e 19 3	PP
M'Bour	104.7	292	—	—	e 33 19	SS	18 8	PP
Hungry Horse	104.8	20	e 14 2	0	—	—	e 18 24	PP
Butte	N. 107.4	20	—	—	e 24 59	[+ 7]	e 18 35	PP
Shasta	Z. 108.0	30	—	—	—	—	e 18 54	PP
Bozeman	108.2	19	e 14 32	P	—	—	i 18 54	PP
Mineral	Z. 108.7	29	—	—	—	—	e 18 49	PP
Kirkland Lake	Z. 109.8	357	—	—	e 29 29	PPS	e 18 55	PP
Seven Falls	109.9	351	e 19 3	PP	24 44	[-18]	26 40	S
Reno	Z. 110.1	29	—	—	—	—	e 19 11	PP
Berkeley	110.4	31	e 19 10	PP	e 28 43	PS	e 21 27	PPP
Shawinigan Falls	110.8	352	—	—	—	—	e 19 2	PP
Halifax	110.8	344	—	—	—	—	e 22 49?	?
Santa Clara	110.9	31	—	—	e 31 38	?	e 28 48	PS
Lick	Z. 111.1	31	—	—	—	—	e 19 2	PP
Rapid City	E. 111.8	15	e 15 8	P	—	—	e 17 57	—
Eureka	111.8	26	e 15 0	P	e 18 36	PKP	e 29 34	PKKP
Brebeuf	111.9	352	e 19 20	PP	—	—	—	—
Ottawa	112.2	354	e 19 18	PP	25 18	[+ 6]	28 59	PS
Salt Lake City	112.3	22	e 17 3	[-87]	e 28 11	PS	e 19 5	PP
Fresno	Z. 112.4	30	—	—	—	—	e 19 11	PP
Tinemaha	112.9	29	i 19 26	PP	—	—	i 21 48	SKP
King Ranch	Z. 113.6	31	e 19 22	?	—	—	e 19 35	PP
Isabella	Z. 113.9	30	—	—	—	—	e 19 34	PP
China Lake	Z. 114.2	29	e 18 21	[-13]	—	—	e 19 26	PP
Boulder City	115.3	27	e 18 26	[-10]	—	—	e 19 43	PP
Pasadena	115.3	31	i 19 47	PP	i 29 31	PS	i 22 7	SKP
Dalton	Z. 115.5	30	i 18 44	[+ 7]	—	—	19 48	PP
Riverside	115.8	30	i 18 45	[+ 7]	e 21 56	SKP	e 19 43	PP
Chicago, C.G.S.	116.2	3	—	—	e 34 40	SS	e 28 56	PS
Palisades	116.3	351	e 19 47	PP	e 25 40	[+12]	e 21 23	PKS
Fordham	116.5	351	—	—	i 25 34	[+ 6]	e 19 52	PP
City College, N.Y.	116.5	351	e 19 31	[+52]	—	—	—	—
Cleveland	116.6	358	e 19 46k	PP	—	—	—	—
Palomar	Z. 116.6	30	e 18 47	[+ 8]	—	—	i 19 57	PP
Hayfield	N. 116.8	29	—	—	—	—	e 19 43	PP
Pennsylvania	117.0	354	—	—	e 24 58	[-32]	i 19 57	PP
Philadelphia	117.6	352	—	—	e 22 6	PKS	e 20 2	PP
Terre Haute	118.5	3	e 19 59	PP	—	—	e 22 39	PKS
Washington	118.8	354	e 20 7	PP	e 27 3	SKKS	i 29 49	PS
Florissant	119.0	5	—	—	e 31 32	?	e 29 56	PS
St. Louis	119.2	5	e 18 48	[+ 4]	e 25 44	[+ 6]	i 30 6	PS
Tucson	120.2	26	e 18 54	[+ 8]	i 20 22	PP	i 30 8	PS
Fayetteville	121.2	9	—	—	e 22 54	PKS	e 18 52	PP
Columbia	124.0	357	e 18 53	[ 0]	e 26 11	[+17]	i 20 44	PP
Mobile	127.2	4	e 21 6	PP	e 39 18	SSP	i 23 49	PPP
Guadalajara	133.5	25	—	—	—	—	e 22 57	—
Manzanillo	134.5	27	—	—	i 30 41?	—	23 18	PKS
San Juan	135.9	335	e 19 35	[+19]	e 22 0	PP	e 23 2	PKS
Tacubaya	136.1	20	i 21 1	?	e 26 13	[-10]	e 24 10	PPP
Fort de France	136.8	326	—	—	—	—	e 22 12	PP
Vera Cruz	137.2	17	e 19 21	[+ 2]	e 22 9	PP	25 56	?
Comitan	141.0	12	—	—	e 28 25	SKKS	e 23 21	PKS
Galerazamba	146.0	344	i 19 51	[+17]	—	—	i 20 10	PKP <sub>2</sub>
Bogota	151.5	338	e 19 53	[+10]	i 30 25	SKKS	—	—
Chinchina	151.7	342	i 19 51	[+ 8]	i 43 30	SS	23 41	PP
La Plata	153.7	236	—	—	—	—	54 55	SSS
La Paz	163.7	288	20 16	[+18]	i 27 10	[+12]	23 29	PKS
Huancayo	166.8	318	e 20 10	[+10]	e 26 54	[- 6]	e 25 10	PP

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July 17d. 7h. 34m. 13s. Epicentre 6°·95S, 126°·39E. Depth of focus = 0·069R.

A = -0·5890, B = +0·7991, C = -0·1202;  $\delta = -7$ ;  $h = +7$ ;  
D = +0·805, E = +0·593; G = +0·071, H = -0·097, K = -0·993.

	$\Delta$ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.	
			m.	s.		m.	s.		m.	s.		
Bandung	18·6	269	e 3	43 <sub>a</sub>	- 3	i 6	47	- 3	e 14	18	ScS	e 8·8
Djakarta	19·4	272	i 3	53	- 2	i 7	2	- 2	e 7	50	PcP	e 9·8
Manila	22·0	346	i 4	18	- 1	e 8	26	SS				
Baguio City	23·9	346	i 4	34	- 1	i 8	14	- 2	i 6	0	pP	
Rabaul	25·8	85	i 4	55	+ 2	i 8	46	- 2	e 6	5	PP	
Perth	26·8	200	i 5	4	+ 2	i 9	6	+ 2	i 6	12	PP	
Guam	27·3	42	i 5	3	- 2							
Hengchun	29·3	349	e 5	23	0	9	43	0				
Medan	29·6	290	e 5	30	+ 4	e 10	0	+12	i 15	13	ScS	
Hsinkong	30·3	351	e 5	31	0	9	52	- 7				
Alishan	30·8	350	5	36	0	10	5	- 1				
Hwaiien	31·1	352	5	37	- 1	10	10	- 1				
Taichung	31·4	350	5	42	0	10	12	- 4				
Hong Kong	31·4	338	i 5	41 <sub>k</sub>	0	10	17	+ 1	7	2	pP	
Ilan	31·8	352	e 5	50	+ 4	10	21	- 1				
Sintiko	32·0	351	7	3	PP							
Taipei	32·1	352	5	48	0	10	19	- 7				
Brisbane	32·5	132	i 5	50	0	i 13	2	SS				
Canton	32·5	337	i 5	50 <sub>k</sub>	0	i 10	29	- 4	i 7	16	pP	
Melbourne	35·1	154	i 6	13	0	i 11	16	+ 4	i 7	39	pP	i 16·6
Riverview	35·2	143	i 6	15 <sub>a</sub>	+ 1	i 11	19	+ 5	i 7	36	pP	
Yakusima	37·4	6	e 6	31	0	i 11	44	- 3	i 8	9	pP	
Zô-Sè	38·2	353	i 6	57 <sub>k</sub>	- 1	i 11	55	- 3	7	59	pP	
Kagosima	38·5	6	6	44	+ 3	12	5	+ 2				
Miyazaki	39·0	7	e 6	45	0	12	11	+ 1	15	25	?	
Futzeling	39·2	346	e 6	46	0							
Tomie	39·4	3	e 6	47	- 1	e 11	57	-19	i 8	31	pP	
Nanking	39·4	350	i 6	48 <sub>k</sub>	0	12	13	- 3	8	10	pP	
Nagasaki	39·6	5	i 6	52	+ 2	12	16	- 3	8	34	PP	
Kumamoto	39·8	6	e 6	52	0	12	22	0				
Asosan	39·9	6	i 6	54	+ 1	e 12	23	0				
Simidu	40·0	9	6	56	+ 2	e 12	24	- 1	e 15	48	SS	
Saga	40·2	5	i 6	58	+ 3	i 12	30	+ 2				
Oôita	40·3	7	e 6	58	+ 2	e 12	31	+ 2				
Hukuoka	40·5	5	e 6	57	0	e 12	30	- 2				
Muroto	40·7	10	e 6	57	- 1	e 12	33	- 2	e 13	35	PS	
Koti	40·8	9	e 7	0	0	e 12	34	- 2	e 8	21	pP	
Simonoseki	40·9	6	e 7	3	+ 2							
Matuyama	41·0	8	e 7	1	0	e 12	39	0	e 8	46	PP	
Ituhara	41·0	4	e 7	0	- 1	e 12	37	- 2				
Siomisaki	41·2	12	7	5	+ 2	12	41	- 1	e 8	40	pP	
Hirosima	41·5	8	7	0	- 5	12	45	- 2	e 8	47	PP	
Noumea	41·5	116	i 7	4 <sub>a</sub>	- 1	e 12	47	0	i 8	54	PcP	
Tokusima	41·5	10	e 7	5	0	i 12	49	+ 2	e 8	33	pP	
Takamatu	41·7	10	e 7	9	+ 2	i 12	50	+ 1	e 8	55	pP	
Owase	41·8	12	i 7	9	+ 1	12	52	+ 1	e 8	55	pP	
Sumoto	41·8	10	7	8	0	12	49	- 2	i 8	55	pP	
Himeji	41·9	10	e 7	12	+ 3	i 12	48	- 4	i 9	0	pP	
Hamada	42·0	7	7	11	+ 2	12	54	0	e 8	57	pP	
Kobe	42·2	11	e 7	13	+ 2	i 12	55	- 2	e 9	2	pP	
Osaka	42·3	11	e 7	13	+ 1	e 13	2	+ 4	e 8	59	pP	
Nara	42·4	12	i 7	16	+ 4	i 13	3	+ 4				
Tu	42·5	12	e 7	14	0							
Kameyama	42·6	12	e 7	15	0	13	6	+ 4	e 16	16	ScS	
Yonago	42·7	8	e 7	15	0				e 9	3	pP	
Kyoto	42·7	11	7	13 <sub>k</sub>	- 1	12	58	- 6				
Omaesaki	42·8	14	i 7	18	+ 2	e 13	6	+ 1	i 9	3	pP	
Toyooka	43·0	10	e 7	16	0	e 13	7	- 1	i 9	7	pP	
Hikone	43·0	12	7	17	0	13	8	0	16	1	ScS	
Nagoya	43·1	13	7	21	+ 3	e 13	5	- 4	9	4	pP	

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.		
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. -s.	s.	m. s.	m.	m.	
	N.	43.1	12	e 7 17	- 1	i 13 18	+ 9	—	—	—	
		43.2	14	i 7 21	+ 2	13 6	- 5	9 6	pP	—	
		43.2	12	e 7 19	0	13 10	- 1	15 52	?	—	
		43.3	16	e 7 20	0	i 13 9	- 3	e 9 1	PP	—	
	N.	43.3	12	i 7 22	+ 2	13 13	+ 1	—	—	—	
		43.4	8	7 23	+ 2	e 13 18	+ 4	—	—	—	
		43.5	15	i 7 18	- 2	e 13 17	+ 2	e 9 10	PP	—	
	N.	43.5	16	7 21	0	—	—	e 9 39	PP	—	
		43.6	14	i 7 24	+ 2	e 13 17	+ 1	—	—	—	
		43.8	12	e 7 25	+ 1	e 13 20	+ 1	—	—	—	
		43.8	15	i 7 20	- 3	i 13 18	- 1	—	—	—	
		43.9	14	e 7 20	- 3	e 13 6	-15	—	—	—	
		44.0	16	e 7 28	+ 3	e 13 33	+11	—	—	—	
	N.	44.1	13	e 7 24	- 1	—	—	—	—	—	
		44.2	339	7 27	0	13 24	- 1	—	—	—	
		44.2	342	e 7 24	- 3	—	—	—	—	—	
		44.2	16	i 7 27	0	e 13 9	-16	e 8 57	pP	—	
		44.3	12	e 7 30	+ 2	—	—	—	—	—	
		44.3	13	7 30	+ 2	13 31	+ 5	—	—	—	
		44.3	15	i 7 28	0	i 13 28	+ 2	—	—	—	
		44.5	14	e 7 27	- 2	e 13 19	-10	—	—	—	
		44.6	15	7 30	0	e 13 30	- 1	—	—	—	
		44.6	12	e 7 30	0	e 13 30	- 1	—	—	—	
		44.7	312	7 33	+ 2	13 31	- 1	—	—	—	
		44.7	14	i 7 28k	- 2	i 13 25	- 7	i 8 58	pP	—	
		44.7	15	e 7 29	- 1	e 13 33	+ 1	e 16 13	SS	—	
		44.8	14	e 7 31	0	e 13 33	0	e 8 26	pP	—	
		44.9	16	e 7 32	0	13 34	- 1	—	—	—	
		44.9	342	6 56	-36	—	—	—	—	—	
		45.0	343	7 35	+ 1	—	—	—	—	—	
		45.1	15	e 7 34	0	e 13 37	- 1	17 11	ScS	—	
		45.1	16	e 7 34	0	e 13 39	+ 1	—	—	—	
		45.2	12	e 7 36	+ 1	e 13 39	0	—	—	—	
		45.2	13	7 40	+ 5	13 47	+ 8	—	—	—	
		45.7	16	i 7 41	+ 2	i 13 47	+ 1	8 15	PP	—	
		45.7	16	e 7 33	- 5	i 13 50	+ 4	—	—	—	
		45.8	355	e 7 39	0	—	—	—	—	—	
		46.1	13	—	—	—	—	e 8 41	pP	—	
		46.2	14	e 7 41	0	e 14 14	+21	8 30	pP	—	
		46.3	345	e 7 43	0	—	—	—	—	—	
		46.4	15	e 7 43	0	i 13 58	+ 2	—	—	22.8	
		46.6	315	i 7 44k	- 1	i 13 54	- 4	9 14	pP	—	
		47.0	16	e 7 48	0	e 14 4	0	16 48	SS	—	
		47.2	16	e 7 51	+ 1	e 13 52	-15	—	—	—	
		47.3	14	e 7 56	+ 5	e 14 16	+ 8	—	—	—	
		47.7	349	i 7 52k	- 1	14 7	- 7	9 17	pP	—	
		47.8	335	e 7 52	- 2	—	—	—	—	—	
		47.8	16	7 55	0	14 16	+ 1	—	—	—	
		48.0	349	e 7 56	0	—	—	—	—	—	
		48.1	14	7 59	+ 2	i 14 26	+ 7	e 18 25	SSS	—	
		48.4	346	8 2	+ 3	—	—	—	—	—	
		48.4	15	e 7 59	0	i 14 28	+ 5	i 17 2	ScS	—	
	E.	48.4	286	e 7 57	- 2	e 14 17	- 6	—	—	—	
		48.6	16	8 1	+ 1	14 27	+ 1	17 3	ScS	—	
		48.9	339	e 8 3	0	—	—	—	—	—	
		49.1	333	8 7	+ 3	—	—	—	—	—	
		49.3	15	e 8 7	+ 1	e 14 34	- 2	—	—	—	
		49.3	14	8 9	+ 3	i 14 39	+ 3	—	—	—	
		49.6	344	e 8 7	- 1	—	—	—	—	—	
		49.8	335	8 11	+ 1	—	—	—	—	—	
	E.	50.0	293	i 8 11	0	i 14 41	- 4	9 39	pP	—	
		50.1	309	i 8 11	0	i 14 41	- 6	9 50	pP	—	
		50.1	5	i 8 11	0	i 14 52	+ 5	i 9 39	pP	—	
		50.2	14	e 8 13	0	—	—	—	—	—	
		50.5	14	8 15	0	14 53	+ 1	i 10 7	PP	—	

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Changchun		50.6	359	8 13	- 1	14 46	- 7	—	—
Chatra		50.7	313	8 17	+ 1	—	—	9 51	PP
Muroran		50.8	14	e 8 16	0	e 14 57	+ 1	—	—
Urakawa		51.1	16	e 8 21	+ 2	i 15 5	+ 5	e 17 40	ScS
Tomakomai		51.1	14	e 8 27	+ 7	e 15 7	+ 7	—	—
Changyeh		51.6	334	e 8 24	+ 1	—	—	—	—
Sapporo		51.6	14	i 8 21	- 1	e 15 8	+ 1	e 9 52	pP
Kodaikanal	E.	51.6	289	i 8 25 <sub>a</sub>	+ 2	i 15 14	+ 7	10 14	PP
Suva	N.	51.8	108	i 8 25	0	i 16 13	+63	i 9 41	pP
Obihiro	Z.	51.9	16	e 8 25	0	—	—	—	—
Kusiro		52.3	17	e 8 28	0	i 15 21	+ 5	17 28	ScS
Onerahi	N.	52.4	130	8 29	0	e 15 22	+ 4	e 9 28	?
Harbin		52.5	0	8 30	+ 1	—	—	—	—
Asahigawa		52.5	14	e 8 32	+ 2	—	—	—	—
Nemuro		53.0	18	e 8 33	0	i 15 26	0	—	—
Auckland	N.	53.1	131	e 8 36	+ 2	i 15 37	+10	i 18 21	sS
Kaimata	N.E.	53.2	139	e 8 37	+ 3	e 15 31	+ 3	e 10 13	pP
Hyderabad		53.2	298	i 8 34	0	i 15 25	- 3	10 6	pP
Abashiri		53.2	16	e 8 37	+ 2	e 15 33	+ 5	—	—
Cobb River	E.	53.4	137	e 8 34	- 1	e 15 34	+ 3	e 10 9	pP
Wakkanai		53.9	13	e 8 43	+ 3	e 15 42	+ 4	—	—
Karapiro	N.	54.0	132	e 8 41	0	e 15 45	+ 6	e 17 44	ScS
Macquarie Is.		54.2	157	i 8 41	0	e 15 47?	+ 6	i 10 13	pP
Yumen		54.2	332	e 8 43	+ 1	—	—	—	—
Christchurch		54.4	140	i 8 42	0	i 15 46	+ 2	—	—
Tongariro	Z.	54.5	134	e 8 43	0	—	—	e 10 59	sP
Wellington		54.8	136	i 8 44	- 1	i 15 50	+ 1	i 10 17	pP
Kurilsk		55.4	18	e 8 48	- 1	e 15 58	+ 1	i 10 16	pP
Tuai	N.	55.5	133	e 8 49	- 1	e 15 59	+ 1	e 17 51	ScS
Yuzno-Sakhlinsk		55.6	14	i 8 50	- 1	i 16 1	+ 1	i 10 20	pP
Ulegorsk		57.5	12	i 9 3	0	i 16 25	+ 1	10 34	pP
Poona		57.7	297	i 9 5 <sub>a</sub>	0	i 16 23	- 4	19 9	ScS
Bombay		58.7	297	e 9 12	0	i 16 35	- 5	10 46	pP
New Delhi	N.	59.1	309	i 9 19	+ 4	i 16 43	- 2	—	—
Dehra Dun		59.3	311	9 17	0	i 16 44	- 3	11 6	pP
Irkutsk		61.9	345	9 34 <sub>k</sub>	0	i 17 17	- 3	11 4	pP
Lahore		62.7	311	9 37	- 1	17 19	-10	—	—
Kerguelen Is.		63.2	218	e 9 43	+ 1	—	—	—	—
Mirny		63.8	194	i 9 45	0	i 17 42	- 1	i 11 22	pP
Petropavlovsk		65.8	20	i 9 57	- 2	i 18 9	+ 2	i 11 31	pP
Quetta		67.9	306	i 10 11 <sub>a</sub>	0	i 18 31	- 1	i 11 46	pP
Frunse		68.3	322	i 10 13	0	i 18 35	- 1	i 11 46	pP
Magadan		69.1	13	e 10 18	0	i 18 49	+ 3	11 50	pP
Klyuchi		69.1	20	i 10 21	+ 2	i 18 49	+ 3	11 53	pP
Semipalatinsk		69.6	330	e 10 22	0	i 18 49	- 2	i 11 59	pP
Stalinabad		70.0	315	i 10 25	+ 1	i 18 53	- 3	11 59	pP
Tashkent		70.9	318	i 10 29	0	i 19 5	- 1	i 12 5	pP
Tananarive		77.3	252	i 11 6	0	e 20 19	+ 3	12 53	pP
Ashkabad		77.3	311	i 11 7	+ 1	20 19	+ 3	i 12 45	pP
Tiksi		78.4	1	e 11 10	- 1	e 20 24	- 3	e 12 47	pP
Honolulu		79.2	67	i 11 17 <sub>k</sub>	+ 1	i 20 39	+ 4	i 12 52	pP
Unalaska		82.4	33	i 11 33	+ 1	i 21 10	+ 2	—	—
Sverdlovsk		82.9	330	11 35	0	21 5	- 8	13 13	pP
Goris		86.8	310	e 11 53	0	i 21 50	0	e 13 33	pP
Pietermaritzburg	Z.	91.8	240	i 12 23 <sub>k</sub>	+ 6	—	—	—	—
Ksara		94.1	303	i 12 28	0	i 22 57	+ 2	i 14 10	pP
Pretoria	Z.	94.4	244	i 12 30 <sub>a</sub>	+ 1	—	—	—	—
Grahamstown	Z.	94.4	236	i 12 30 <sub>a</sub>	+ 1	—	—	—	—
College		94.4	25	e 12 26 <sub>a</sub>	- 2	e 22 55	- 2	e 14 9	pP
Jerusalem		94.6	301	i 12 32 <sub>a</sub>	+ 2	—	—	i 16 21	PP
Moscow		95.0	325	i 12 30	- 1	23 0	- 2	i 14 10	pP
Astrida		96.3	267	e 12 37	0	—	—	e 16 40	PP
Simferopol		96.5	314	i 12 38	0	23 13	- 1	i 14 19	pP
Kimberley	Z.	96.8	240	i 12 32	- 7	—	—	—	—
Uvira		96.8	266	e 12 40	0	—	—	—	—

Continued on next page.



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	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Lwiro	97.3	267	e 12 43	+ 1	—	—	e 16 43	PP	—
Apatity	97.5	337	i 12 21 <sup>k</sup>	-21	i 22 59	-24	e 14 1	pP	—
Pulkovo	99.0	329	e 12 47	- 2	—	—	i 17 0	PP	—
Hermanus	100.0	233	—	—	e 22 59	[+13]	i 26 20	sSKS	—
Sodankyla	100.1	337	i 12 54	0	i 22 45	[- 1]	i 14 35	pP	—
Sitka	100.3	33	e 12 53 <sup>a</sup>	- 2	e 23 50	+ 4	e 14 37	pP	e 41.0
Iasi	101.1	317	e 13 1	+ 2	e 22 55	[+ 4]	—	—	—
Focsani	N. 101.4	315	—	—	e 22 58	[+ 6]	—	—	—
Bacau	101.5	316	—	—	e 22 59	[+ 6]	—	—	—
Bucharest	102.2	314	e 13 6	+ 2	i 24 5	+ 3	i 23 1	SKS	—
Kiruna	102.4	338	i 13 2	- 2	i 24 0	- 4	i 14 46	pP	—
Lwow	103.3	320	i 13 10	+ 1	i 24 15	+ 4	i 14 51	pP	—
Athens	104.2	307	e 13 13	0	e 23 6	[ 0]	—	—	—
Sofia	104.3	312	e 16 36	PP	e 23 9	[+ 3]	e 18 59	PPP	—
Warsaw	104.9	322	e 13 16	0	i 24 32	+ 7	e 14 57	pP	e 51.8
Upsala	105.4	330	i 13 17 <sup>k</sup>	P	23 10	[- 1]	i 14 57	pP	—
Timisoara	105.5	316	e 13 47 <sup>?</sup>	P	i 23 24	[+13]	—	—	—
Skalnate Pleso	105.8	319	e 15 1	pP	i 23 16	[+ 3]	i 17 51	PP	51.8
Belgrade	106.2	315	e 17 56	+28	e 20 36	PP	e 27 33	PS	—
Szeged	106.2	316	e 18 0	P	22 27	PKS	19 6	PP	—
Budapest	106.8	317	e 17 7	PKP	i 23 20	[+ 3]	19 11	pPKP	e 58.8
Kalossa	107.0	316	—	—	e 24 14	SKKS	18 21	PP	—
Hurbanovo	107.3	318	e 17 59	PP	e 23 22	[+ 2]	e 24 51	S	—
Bratislava	108.0	318	i 13 31	P	e 23 15	[- 7]	e 24 19	SKKS	—
Resolute Bay	108.3	11	i 17 35	PKP	e 23 22	[- 1]	e 13 27	P	—
Horseshoe Bay	108.4	40	e 13 34	P	—	—	i 18 10	PP	—
Victoria	108.5	41	e 13 34	P	i 26 40	PS	e 18 2	PP	—
Taranto	109.0	310	e 17 39	[+ 5]	23 34	[+ 8]	29 37	?	—
Copenhagen	109.1	327	i 17 38	[+ 4]	e 23 30	[+ 3]	i 18 13	PP	—
Corvallis	z. 109.3	45	e 13 57	P	—	—	—	—	—
Prague	109.3	32	i 13 38	P	i 25 5	S	i 18 12	PP	—
Seattle	109.4	42	e 13 42	P	i 23 37	[+ 9]	15 17	PP	—
Shasta	z. 110.6	49	e 13 44	P	—	—	—	—	—
Reggio Calabria	110.6	308	e 17 25	[-11]	—	—	e 19 13	pPKP	—
Cheb	110.6	321	e 19 28	PP	e 25 21	[-12]	i 32 52	?	—
Messina	110.6	308	i 17 40 <sup>k</sup>	[+ 2]	i 23 39	[+ 6]	i 19 0	pPKP	—
Triest	110.7	316	13 28	P	25 30	S	15 37	pP	—
Jena	110.9	322	e 17 41	[+ 3]	25 19	S	e 13 46	P	—
Berkeley	111.1	52	i 17 42	[+ 4]	e 23 39	[+ 4]	e 13 54	P	—
Hamburg	111.1	325	—	—	i 23 42	[+ 7]	15 27	pP	—
Mineral	z. 111.2	50	e 13 49	P	—	—	—	—	—
Santa Clara	111.4	53	—	—	e 27 19	SP	e 18 59	PP	—
Lick	z. 111.6	53	e 13 55	P	—	—	e 18 26	PP	—
Rome	112.4	312	e 17 37	[- 3]	i 23 43	[+ 3]	i 19 31	pPKP	—
Bologna	112.6	315	e 17 46	[+ 4]	e 23 47	[+ 6]	e 19 17	pPKP	—
Reno	z. 112.7	50	e 13 56	P	—	—	—	—	—
Florence	112.9	315	e 17 42 <sup>k</sup>	[ 0]	i 24 50	S	i 18 40	PP	—
Stuttgart	113.0	320	e 13 53	P	e 23 38	[- 4]	e 15 34	pP	—
Fresno	z. 113.2	53	e 13 58	P	—	—	—	—	—
Witteveen	z. 113.2	325	i 17 45	[+ 2]	e 15 37	pP	e 13 54	P	—
Chur	113.3	318	e 17 44	[+ 1]	e 23 45	[+ 1]	e 18 45	PP	—
Karlsruhe	z. 113.4	321	e 17 30 <sup>k</sup>	[-13]	e 18 30	PP	e 14 41	P	—
Scoresby Sund	113.4	349	e 17 46	[+ 3]	i 23 49	[+ 5]	15 37	pP	—
King Ranch	z. 113.4	55	i 17 48	[+ 5]	i 28 45	PS	e 18 46	PP	—
Zürich	113.8	319	e 17 47	[+ 3]	e 23 47	[+ 1]	—	—	—
Strasbourg	113.9	320	i 17 46	[+ 2]	e 15 40	pP	e 13 59	P	—
Pavia	114.0	316	e 17 48	[+ 4]	e 23 51	[+ 5]	21 32	PPP	—
Woody	z. 114.1	54	i 17 47	[+ 3]	i 28 29	PKKP	e 14 4	P	—
De Bilt	114.3	325	e 13 57	P	e 23 51	[+ 4]	e 15 40	pP	—
Tinemaha	114.4	52	i 17 47	[+ 2]	i 25 55	[+ 7]	e 14 0	P	—
Basle	114.4	319	e 18 55	PP	e 27 49	?	16 19	?	—
Isabella	z. 114.4	54	17 49	[+ 4]	e 30 46	PPS	e 14 9	P	—
Hungry Horse	114.6	40	e 14 4 <sup>a</sup>	P	e 23 53	[+ 5]	e 15 42	pP	—
Pasadena	114.9	56	i 17 48	[+ 2]	i 23 59	[+10]	e 14 8	P	—
Neuchatel	114.9	319	17 45	[+ 5]	—	—	—	—	—

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
China Lake	z.	115.1	54	i 17 50	[+ 4]	i 27 28	PKKP	e 14 13	P	—
Besançon		115.5	319	e 17 49	[+ 2]	24 51	[- 1]	i 19 4	PP	—
Monaco		115.6	315	e 17 50	[+ 3]	20 42	SKP	e 19 45	pPKP	—
Riverside		115.6	56	i 17 51	[+ 4]	i 23 57	[+ 5]	e 14 9	P	—
Eureka		115.6	50	i 17 47	0	i 18 58	PP	e 14 6	P	—
Aberdeen		115.9	332	—	—	i 23 57	[+ 4]	e 20 27	PP	62.4
Palomar	z.	116.1	56	e 17 49	[+ 1]	i 28 58	PS	i 20 46	SKP	—
Butte	N.	116.3	42	17 51k	[+ 2]	e 15 52	pP	e 14 10	P	—
Durham		116.9	329	17 53	[+ 3]	i 23 57	[0]	19 3	PP	—
Hayfield	N.	117.0	56	i 17 53	[+ 3]	e 24 8	[+11]	i 20 50	SKP	—
Boulder City		117.2	53	i 17 52a	[+ 1]	—	—	—	—	—
Bozeman		117.4	42	i 17 55a	[+ 4]	e 23 54	[- 5]	i 14 16	P	e 52.7
Saskatoon		117.6	34	i 19 13	PP	e 23 57	[- 2]	e 28 5	PS	—
Kew		117.7	326	i 17 55	[+ 4]	e 24 3	[+ 3]	e 15 58	pP	—
Clermont-Ferrand		117.8	319	e 17 55	[+ 3]	e 28 12	SP	e 35 7	SS	—
Salt Lake City		118.4	47	i 17 56a	[+ 3]	e 24 8	[+ 6]	e 14 24	P	e 48.7
Reykjavik		118.6	345	i 17 54	[+ 1]	i 24 14	[+11]	e 19 3	PP	—
Jersey	E.	119.8	324	—	—	e 25 39	[-28]	—	—	55.8
Barcelona		120.0	314	—	—	e 35 14	SS	e 19 28	PP	—
Rathfarnham C.	z.	120.0	329	17 58	[+ 2]	i 19 6	PP	i 32 9	SKKP	—
Algiers Univ.	z.	120.6	309	17 57	[0]	e 19 27	PP	e 28 43	SP	—
Tamanrasset		121.1	292	e 18 0	[+ 2]	e 24 18	[+ 7]	e 14 38	P	—
Tucson		121.3	56	e 18 1k	[+ 3]	e 19 40	PP	i 28 48	PKKP	—
Alicante		122.9	312	18 4	[+ 3]	24 8	[-11]	19 41	PP	e 58.3
Relizane		122.9	308	i 18 5a	[+ 4]	i 19 42	PP	e 27 59	PKKP	—
Rapid City	E.	123.2	41	i 18 4k	[+ 2]	i 20 58	pPP	i 27 58	PKKP	—
Almería		124.8	310	i 18 7	[+ 2]	i 19 52	PP	i 21 35	PKS	—
Toledo	z.	124.9	314	18 18	[+13]	—	—	i 21 38	PKS	—
Granada		125.6	311	i 18 8a	[+ 1]	25 47	SKKS	19 58	PP	i 61.8
Ivigtut		125.7	357	—	—	25 7	[+41]	e 23 30	PPP	—
Chihuahua		126.1	60	e 18 25	[+17]	e 26 17	SKKS	29 47	PS	—
Lisbon		129.0	315	i 18 17k	[+ 4]	20 55	PP	20 10	pPKP	—
Guadalajara		130.0	69	e 18 20	[+ 5]	23 32	PPP	e 22 2	pPP	—
Fayetteville		132.9	46	i 18 7	PP	—	—	e 21 8	PP	—
Kirkland Lake	z.	133.2	24	e 18 9	[-11]	e 24 55	[+10]	e 20 9	pPKP	—
Chicago, C.G.S.		134.1	36	e 21 11	PP	i 21 53	PKS	i 23 38	pPKS	e 58.7
Florissant		134.1	41	e 18 24a	[+ 1]	i 27 9	SKKS	e 20 10	pPKP	—
Tacubaya		134.1	70	i 18 32	[+ 9]	e 26 33	SKKS	i 21 4	PP	—
St. Louis		134.3	41	i 18 21	[- 1]	e 21 3	PP	i 27 9	SKKS	—
Oaxaca		136.7	73	i 21 6	PP	—	—	i 21 23	PP	—
Vera Cruz		137.0	69	e 18 34	[+ 6]	e 26 52	SKKS	e 21 25	PP	—
Ottawa		137.2	23	i 18 19a	[- 8]	24 53	[+ 2]	20 17	pPKP	—
Shawinigan Falls		137.2	20	e 18 20a	[- 8]	25 0	[+ 9]	20 17	pPKP	—
Seven Falls		137.3	17	e 18 19a	[- 9]	24 43	[- 9]	20 14	pPKP	—
Cleveland		137.6	32	i 18 31k	[+ 2]	e 27 24	SKKS	i 21 22	PP	—
Brébeuf		137.9	21	i 18 21	[- 8]	—	—	21 21	PP	—
La Plata		138.2	175	21 23	PP	24 35	[-18]	22 5	PKS	68.4
Buenos Aires		138.4	174	—	—	22 14	PKS	e 21 0	PP	—
Pennsylvania		139.9	29	i 18 28	[- 5]	i 22 13	PP	i 20 21	pPKP	—
Mobile		139.9	49	e 18 29	[- 4]	i 27 44	SKKS	i 21 29	PP	—
Angra do Heroísmo		140.5	327	e 18 42	[+ 8]	e 39 51	SS	—	—	—
Halifax		141.5	12	i 18 33k	[- 3]	i 21 31	SKP	e 20 27	pPKP	—
Palisades		141.6	25	e 18 31	[- 5]	i 31 7	PKKS	i 20 15	pPKP	e 66.0
Fordham		141.7	25	i 18 35	[- 2]	—	—	i 20 34	pPKP	—
Washington		141.8	30	i 18 32a	[- 5]	i 21 34	PP	i 20 17	pPKP	—
Philadelphia		141.9	27	e 18 51	[+13]	e 27 50	SKKS	e 21 36	SKP	e 60.0
Columbia		143.0	40	i 18 37a	[- 2]	i 22 21	PKS	i 20 28	pPKP	e 61.3
San Salvador		144.3	76	i 18 45	[+ 3]	—	—	—	—	—
Antofagasta		145.4	152	i 18 47	[+ 4]	—	—	—	—	—
Huancayo	z.	151.3	131	e 18 56	[+ 4]	e 26 30	PPP	e 21 0	pPKP	—
La Paz		152.6	148	i 18 59a	[+ 5]	i 33 7	PSKS	20 42	pPKP	—
Balboa Heights		154.2	84	e 18 59	[+ 3]	—	—	—	—	—
Chinchina		158.0	94	i 19 3	[+ 2]	i 29 25	SKKS	i 19 43	PKP <sub>2</sub>	—
Bogota		159.5	95	i 19 8k	[+ 5]	i 42 15	SS	i 24 17	PP	—
San Juan		163.3	46	i 19 9a	[+ 2]	i 29 51	SKKS	i 21 46	sPKP	—
Fort de France		169.3	43	i 19 15	[+ 4]	—	—	e 20 31	pPKP	—
St. Vincent		170.2	50	i 19 14	[+ 2]	—	—	i 20 35	PKP <sub>2</sub>	—
Trinidad		171.4	64	e 19 15	[+ 3]	—	—	—	—	—
Barbados		171.5	43	e 19 18	[+ 6]	—	—	—	—	—

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July 17d. 15h. 19m. 39s. Epicentre 41°·04N. 27°·10W.

A = +0·6734, B = -0·3446, C = +0·6540;  $\delta$  = -7;  $h$  = -2;  
D = -0·456, E = -0·890; G = +0·582, H = -0·298, K = -0·756.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Angra do Heroismo	2·4	182	e 0 40	0	i 1 4	- 8	e 1 21 S*	—
Lisbon z.	14·0	94	e 3 18k	- 3	—	—	—	—
Granada	18·6	94	i 4 33k	+12	e 7 57	+11	5 9 PP	—
Rathfarnham C. z.	18·6	42	e 4 23a	+ 2	e 7 55	+ 9	e 4 39 ?	e 9·6
Kew	21·1	51	e 4 43	- 5	e 8 51	+12	—	e 10·4
Paris	22·2	60	e 5 3	+ 3	e 9 7	+ 7	e 5 36 PP	e 11·4
Clermont-Ferrand	22·4	68	e 5 3	+ 1	e 9 16	+12	—	—
Besançon	24·4	64	e 5 25	+ 4	e 5 51	PP	e 6 29 PPP	—
Basle	25·5	64	e 5 39	+ 7	—	—	—	—
Strasbourg	25·7	61	e 5 33	0	—	—	e 5 53 PP	e 12·0
Ebingen	26·5	62	e 5 42	+ 1	—	—	—	—
Stuttgart	26·6	61	e 5 42	0	—	—	—	—
Jena	28·3	56	e 5 43	-14	—	—	—	—
Seven Falls	31·7	296	e 6 27k	0	—	—	—	—
Messina E.	32·7	81	—	—	e 11 19	-33	—	—
Tamanrasset z.	32·9	114	e 6 38	0	—	—	—	—
Kiruna	37·0	28	i 7 12	0	—	—	—	—
Moscow	43·8	48	e 8 8	0	—	—	—	—
Fayetteville	51·5	288	i 9 9k	0	—	—	—	—
Rapid City E.	54·2	300	i 9 30	0	—	—	—	—
Bozeman	58·5	305	e 10 1	0	—	—	—	—
Hungry Horse	59·0	309	i 10 3	0	—	—	i 10 9 PcP	—
Salt Lake City	61·4	301	e 10 21	0	—	—	—	—
College	64·8	336	i 10 41	- 1	—	—	—	—
Eureka	64·8	301	i 10 43	0	—	—	i 11 16 PcP	—
Boulder City	66·0	298	i 10 52	+ 1	—	—	—	—
Lwiro	66·5	116	e 10 51	- 2	—	—	—	—
Astrida	67·4	115	e 10 59	0	—	—	—	—
Tinemaha z.	67·6	300	e 11 2	+ 1	—	—	—	—
China Lake z.	67·9	299	e 11 4	+ 1	—	—	—	—
Isabella z.	68·6	299	e 11 8	+ 1	—	—	—	—
La Paz N.	68·7	222	11 15	+ 7	—	—	—	—
Woody z.	68·8	299	e 11 4	- 4	—	—	—	—
Huancayo z.	69·1	231	e 11 9	0	—	—	—	—
Quetta z.	73·7	64	e 11 38k	0	—	—	—	—

July 18d. 0h. 27m. 39s. Epicentre 5°·26S. 151°·59E. Depth of focus = +0·007R.

A = -0·8759, B = +0·4738, C = -0·0910;  $\delta$  = -3;  $h$  = +7;  
D = +0·476, E = +0·880; G = +0·080, H = -0·043, K = -0·996

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Rabaul z.	1·2	29	i 0 18	- 3	—	—	—	—
Guam	19·8	340	i 4 27	+ 1	—	—	—	—
Brisbane	22·1	177	i 4 51	+ 1	i 8 52	+ 2	—	—
Nouméa z.	22·2	141	i 5 10	+19	e 9 27	SS	e 5 28 PP	—
Riverview	28·4	181	i 5 43k	- 5	i 10 33	+ 5	i 12 1 SS	e 14·4
Melbourne	33·0	190	e 6 30	+ 1	e 11 49	+ 8	e 6 39 PP	e 15·6
Manila	36·2	303	i 6 28	-28	e 12 31	+ 1	—	—
Baguio	37·5	305	i 7 9	+ 1	e 12 56	+ 6	—	—
Tongariro z.	40·1	151	e 7 29	0	—	—	—	—
Wellington	41·4	153	—	—	i 13 50	+ 2	e 13 25 ?	e 20·4
Matusiro	43·4	344	7 52a	- 3	e 14 14	- 4	9 58 PP	20·1
Hong Kong	45·7	308	8 16a	+ 1	e 14 49	- 2	—	—
Zô-Sè	46·4	323	8 20a	0	15 3	+ 2	—	—
Canton	46·8	308	8 25a	+ 2	e 15 13	+ 6	—	—
Nanking	48·5	322	8 37a	+ 1	14 34	-56	—	—

Continued on next page.

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		$\Delta$ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.
Peking		55.6	327	9	29 <sub>a</sub>	0	17	9	+ 2	—	—	—
College		82.7	22	e 12	12	- 3	e 22	21	- 5	e 14	57	PP e 34.5
Sitka		85.3	32	e 12	29	0	e 22	51	- 1	e 12	43	PcP e 38.7
Quetta		88.0	300	e 12	42	0	e 23	33	+15	e 16	9	PP
Berkeley		90.2	52	e 12	52	0	—	—	—	e 22	10	? —
Corvallis	z.	90.2	45	e 12	50	- 1	—	—	—	—	—	—
Shasta	z.	90.4	49	i 12	53	0	—	—	—	—	—	—
Lick	z.	90.6	53	e 12	54	0	—	—	—	—	—	—
Horseshoe Bay		90.8	41	e 12	55	0	—	—	—	—	—	—
Mineral	z.	90.9	50	e 12	56	0	—	—	—	—	—	—
King Ranch	z.	91.9	55	e 13	3k	+ 3	—	—	—	e 13	18	pP —
Fresno	z.	92.0	53	i 13	2	+ 1	—	—	—	—	—	—
Reno	z.	92.2	51	e 13	2	0	—	—	—	—	—	—
Isabella	z.	93.0	55	i 13	5k	0	i 16	46	PP	i 13	22	pP —
Pasadena		93.1	56	i 13	7k	+ 1	—	—	—	i 13	41	pP e 42.8
Tinemaha	z.	93.3	53	i 13	7k	0	—	—	—	i 13	23	pP —
China Lake	z.	93.7	54	i 13	10k	+ 1	e 16	54	PP	i 13	26	pP —
Riverside		93.8	56	i 13	9	0	e 16	37	PP	i 13	25	pP —
Palomar	z.	94.2	57	i 13	12k	+ 1	e 17	4	PP	i 13	28	pP —
Eureka		95.2	51	i 13	16	0	e 17	21	PP	e 30	11	PKKP —
Hayfield	n.	95.2	57	e 13	18	+ 2	—	—	—	—	—	—
Boulder City		96.0	54	i 13	20	+ 1	—	—	—	i 13	35	pP —
Hungry Horse		96.8	42	e 13	21	- 1	—	—	—	i 13	38	pP —
Butte		97.8	44	e 13	27	- 1	e 24	42	0	e 24	1	SKS e 45.2
Bozeman		98.9	45	e 13	33	+ 1	—	—	—	e 13	49	pP —
Tucson		99.2	58	e 13	35	+ 1	—	—	—	e 17	8	PP —
Resolute Bay		101.2	14	e 20	26	PPP	—	—	—	e 22	56	? —
Tananarive		101.5	249	e 18	9	PP	—	—	—	—	—	—
Boulder		103.4	50	i 13	54	+ 2	—	—	—	—	—	—
Rapid City	E.	104.6	46	e 13	58	0	—	—	—	e 14	14	pP —
Kiruna		109.4	342	i 18	21	[+ 0]	—	—	—	e 28	32	PS —
Fayetteville		112.6	53	i 18	28	[+ 1]	—	—	—	—	—	—
Ksara		114.2	305	e 18	33	[+ 3]	—	—	—	i 19	29	PP —
Jerusalem		115.1	303	i 18	33 <sub>a</sub>	[+ 1]	—	—	—	i 19	53	PP —
Upsala		115.3	336	i 18	33	[+ 1]	—	—	—	e 19	32	PP —
Kimberley	z.	118.7	233	i 18	41k	[+ 2]	—	—	—	—	—	—
Kirkland Lake	z.	118.8	37	e 18	39	[+ 0]	—	—	—	e 28	57	PS —
Astrida		121.4	264	e 18	46 <sub>a</sub>	[+ 2]	—	—	—	—	—	—
Uvira		121.9	263	e 18	49	[+ 4]	—	—	—	—	—	—
Bratislava		122.3	326	i 18	47	[+ 1]	—	—	—	i 19	0	pPKP —
Lwiro		122.4	264	e 18	49	[+ 3]	—	—	—	—	—	—
Hamburg		122.6	334	—	—	—	—	—	—	i 18	49	PKKP —
Ottawa		122.7	38	i 18	47k	[+ 0]	—	—	—	—	—	—
Jena		123.6	331	e 18	48	[+ 0]	—	—	—	e 20	46	PP —
Shawinigan Falls		123.9	36	i 18	50k	[+ 1]	—	—	—	—	—	—
Witteveen	z.	124.5	335	e 18	53	[+ 3]	—	—	—	—	—	—
Seven Falls		124.6	34	i 18	50k	[+ 0]	—	—	—	—	—	—
Stuttgart		126.2	331	e 18	54	[+ 1]	e 30	51	PS	20	51	PP —
Strasbourg		127.0	331	e 18	55	[+ 0]	e 30	57	PS	e 20	54	PP e 61.8
Florence		128.2	324	i 18	53	[- 3]	e 39	5	SSP	e 22	15	SKP —
Kew		128.4	338	e 18	59	[+ 2]	—	—	—	—	—	e 65.4
Messina	E.	128.4	316	—	—	—	—	—	—	e 21	56	PP —
Rome		128.5	321	—	—	—	e 38	31	SSP	e 22	17	—
Rathfarnham C.	z.	128.8	343	i 19	1 <sub>a</sub>	[+ 3]	i 22	17	PKS	e 19	15	pPKP —
Paris		129.3	334	e 19	1	[+ 2]	—	—	—	e 21	9	PP e 67.4
Huancayo	z.	130.3	110	i 19	5	[+ 4]	e 21	37	PP	32	5	PS —
Monaco	z.	130.4	326	e 19	10	[+ 9]	—	—	—	e 22	20	PKS —
Clermont-Ferrand		131.2	331	e 22	34	SKP	—	—	—	e 21	55	PP —
Chinchina		133.0	88	i 19	8	[+ 2]	i 22	36	PKS	i 19	24	pPKP —
La Paz		135.2	120	e 19	12	[+ 2]	—	—	—	22	38	PKS —
San Juan		141.0	67	e 19	16	[- 4]	—	—	—	e 22	28	PP —
Tamanrasset		142.9	301	e 19	22	[- 2]	e 23	0	PKS	e 22	37	PP —
St. Vincent		146.7	74	i 19	32	[+ 33]	—	—	—	—	—	—
Trinidad		146.8	79	e 19	41	[+ 42]	—	—	—	—	—	—
Barbados		148.3	74	e 19	41	[+ 39]	—	—	—	—	—	—

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July 18d. 6h. 19m. 34s. Epicentre 5°·07S. 130°·26E. Depth of focus = 0·015R.

A = -0·6438, B = +0·7601, C = -0·0878;  $\delta$  = -6;  $h$  = +7;  
D = +0·763, E = +0·646; G = +0·057, H = -0·067, K = -0·996.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Manila	21·6	335	4 42	+ 2	—	—	—	—
Rabaul	21·8	89	i 4 41 <sub>k</sub>	- 1	i 5 45	PPP	9 39	SS
Bandung	22·6	264	i 4 53	+ 3	e 8 58	+14	e 15 59	ScS
Lembang	22·6	264	i 4 42 <sub>a</sub>	- 7	—	—	e 15 26	ScS
Djakarta	23·4	266	i 4 56 <sub>a</sub>	0	e 9 9	+11	e 9 58	SS
Guam	23·4	38	i 4 56	- 1	—	—	—	—
Baguio City	23·4	336	i 5 0	+ 2	i 9 7	+ 9	—	—
Hengchun	28·5	341	5 42	- 2	10 36	+14	—	—
Tawu	28·8	342	5 53	+ 6	10 14	-13	—	—
Hsinkong	29·3	343	5 53	0	10 30	- 5	—	—
Tainan	29·6	341	5 43	-11	10 36	- 3	—	—
Perth	30·0	205	i 5 59	+ 1	i 10 48	+ 2	i 6 36	?
Hwalien	30·1	344	5 57	- 1	10 38	- 9	—	—
Taichung	30·5	343	e 6 1	- 1	10 43	-11	—	—
Ilan	30·8	345	e 6 5	0	10 59	+ 1	—	—
Brisbane	31·1	138	i 6 5	- 2	i 11 2	- 1	—	—
Taipei	31·1	344	e 6 7	0	11 4	+ 1	—	—
Hong Kong	31·4	330	i 6 10 <sub>a</sub>	0	e 11 8	0	i 9 7	PcP
Canton	32·5	330	i 6 20 <sub>a</sub>	0	i 11 19	- 6	6 59	pP
Medan	N. 32·7	285	e 6 26	+ 4	—	—	—	—
Riverview	34·6	149	i 6 37 <sub>k</sub>	0	i 11 55	- 2	i 7 10	pP
Melbourne	35·3	160	i 6 57	+13	i 12 28	+20	—	—
Yakusima	Z. 35·3	0	i 6 44	0	i 12 12	+ 4	e 7 20	pP
Kagosima	36·4	0	e 6 54	0	e 12 25	0	—	—
Miyazaki	36·8	2	6 58	+ 1	12 32	+ 1	15 14	SS e 19·1
Zô-Sô	37·0	347	i 6 58 <sub>a</sub>	0	12 30	- 4	7 37	pP
Tomie	37·5	358	e 7 2	0	e 12 29	-13	e 7 39	pP e 19·2
Nagasaki	N. 37·6	0	7 2	- 1	12 43	0	7 45	pP e 18·3
Kumamoto	37·7	1	7 2	- 1	12 40	- 5	—	19·1
Simidu	37·7	4	e 7 5	0	e 12 42	- 3	—	e 18·9
Asosan	37·8	1	e 7 5	0	12 46	0	e 8 0	?
Saga	N. 38·1	0	i 7 8	0	i 12 43	- 8	i 8 6	?
Ooita	38·1	2	e 7 8	0	e 12 39	-12	8 58	PP e 19·0
Muroto	38·3	5	e 7 9	0	i 12 52	- 2	e 7 50	pP e 19·0
Hukuoka	38·4	0	7 11	0	12 59	+ 3	15 53	SSS
Nanking	38·5	344	7 11	0	12 55	- 2	7 54	pP
Koti	38·5	4	7 12	+ 1	12 55	- 2	i 7 50	pP
Futzeling	38·6	341	7 10	- 1	—	—	—	—
Siomisaki	38·7	7	e 7 12	0	e 12 57	- 3	e 7 50	pP
Matuyama	38·8	3	e 7 10	- 2	e 12 56	- 6	9 16	PPP e 16·1
Simonoseki	38·8	1	e 7 15	+ 1	e 12 58	- 4	—	—
Nouméa	Z. 39·0	120	e 7 13	- 1	i 13 8	+ 4	e 17 14	ScS e 18·2
Ituhara	N. 39·1	359	e 7 13	- 2	e 13 2	- 4	e 17 14	— e 20·3
Tokusima	39·1	6	e 7 18	+ 2	e 13 4	- 2	i 7 59	pP 20·7
Hirosima	39·3	3	e 7 12	- 5	e 13 1	- 8	8 36	PP e 19·6
Owase	39·3	8	7 18	0	13 9	0	e 7 59	pP e 19·9
Takamatu	39·3	5	e 7 20	+ 2	e 13 12	+ 3	e 8 40	PP e 17·2
Wakayama	39·4	6	e 7 17	0	e 13 10	0	—	—
Sumoto	39·4	6	7 20	+ 1	13 8	- 2	e 9 20	PcP e 19·7
Himeji	39·6	5	e 7 23	+ 3	i 13 16	+ 3	8 31	? e 18·2
Hamada	39·8	2	7 21	0	13 16	0	e 7 57	pP
Kobe	39·8	6	e 7 22	0	i 13 15	- 1	e 7 27	pP
Osaka	39·8	7	e 7 22	0	e 13 18	+ 2	e 7 48	pP e 19·1
Nara	39·9	7	i 7 24	+ 1	e 13 17	- 1	—	—
Tu	40·0	8	7 24	0	13 16	- 3	15 41	? —
Kameyama	40·1	8	e 7 26	+ 1	13 0	-21	e 9 8	PP —
Omaesaki	40·2	10	e 7 25	0	e 13 25	+ 3	e 8 3	pP —
Hamamatu	40·2	10	e 7 29	+ 4	e 13 25	+ 3	—	—
Kyoto	40·2	7	7 24	- 1	13 18	- 4	—	—
Yonago	40·4	4	e 7 32	+ 5	i 12 29	-56	—	—

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Hikone	40.5	8	7	28 <sup>a</sup>	0	i 13	24	-3	8	10	pP	16.5
Nagoya	40.5	8	e 7	29	+1	13	25	-2	—	—	—	e 16.8
Tottori	40.5	5	e 7	33	+5	e 13	24	-3	e 14	5	PS	—
Osima	40.6	12	i 7	30	+2	i 13	25	-3	e 9	31	PcP	e 17.5
Shizuoka	40.6	10	7	28	0	e 13	28	0	e 9	28	PP	—
Toyooka	40.6	6	e 7	28	0	e 13	26	-2	e 16	34	SS	—
Ibukisan	40.6	8	e 7	26	-2	13	26	-2	—	—	—	—
Gihu	40.7	8	e 7	30	+1	e 13	23	-7	e 8	5	pP	e 16.8
Ajiro	40.8	11	e 7	32	+2	—	—	—	e 9	43	PPP	—
Mera	40.8	12	7	30	0	—	—	—	e 9	24	PP	16.5
Misima	40.8	11	e 7	28	-1	13	14	-16	e 8	2	pP	—
Tsuruga	40.9	7	7	32	+1	i 13	35	+4	16	42	SS	e 22.9
Iida	41.0	9	i 7	36	+4	e 13	30	-2	—	—	—	—
Hunatu	41.1	11	7	33	0	13	21	-15	(e 16	48)	SS	16.8
Saigo	41.2	4	7	37	+4	13	35	-2	—	—	—	22.9
Yokohama	41.2	12	e 7	40	+6	e 14	1	+24	e 9	49	PcP	—
Hukui	41.3	7	e 7	34	0	e 13	36	-3	—	—	—	—
Tokyo, C.M.O.	41.5	12	e 7	38	+2	13	42	+1	i 8	16	pP	—
Takayama	41.5	8	e 7	34	+1	—	—	—	—	—	—	—
Titibu	41.7	11	i 7	40	+3	13	27	-17	—	—	—	—
Matumoto	41.7	9	e 7	36	-1	13	47	+3	e 9	10	PP	e 21.6
Kanazawa	41.8	8	e 7	40	+2	—	—	—	—	—	—	—
Kumagaya	41.9	11	e 7	38	0	—	—	—	e 10	1	PPP	—
Oiwake	41.9	10	e 7	39	0	e 13	43	-4	e 8	26	pP	—
Toyama	42.1	8	e 7	37	-2	e 13	46	-4	8	26	pP	—
Matusiro	42.1	10	i 7	38	-2	i 13	44	-6	13	15	PcS	20.2
Maebasi	42.1	11	e 7	40	0	13	45	-5	e 9	40	PP	—
Tukubasan	42.1	12	e 7	39	-1	13	47	-3	—	—	—	—
Kakioka	42.1	12	e 7	39	-1	13	45	-5	—	—	—	e 20.6
Nagano	42.2	10	e 7	42	+1	e 13	47	-5	e 9	49	PP	e 21.8
Mito	42.3	12	e 7	35	-7	e 13	50	-3	e 8	18	pP	—
Utunomiya	42.4	12	e 7	42	0	i 13	51	-4	i 7	56	pP	20.7
Takada	42.6	9	7	45	0	13	54	-4	—	—	—	20.1
Wazima	42.7	8	e 7	45	0	e 13	55	-4	e 11	10	?	—
Onahama	43.0	12	e 7	43	-4	i 13	57	-6	—	—	—	—
Shirakawa	43.0	12	7	47	0	13	58	-5	e 8	22	pP	—
Aikawa	43.5	9	e 7	56	+4	13	48	-23	—	—	—	—
Niigata	43.5	10	e 8	2	+10	14	8	-3	e 8	33	pP	—
Hukushima	43.6	12	7	53	0	i 14	13	+1	—	—	—	22.0
Senchow	43.9	335	7	53	-2	—	—	—	—	—	—	—
Sian	44.0	334	i 7	57	+1	—	—	—	—	—	—	—
Yamagata	44.1	11	e 7	44	-12	i 14	17	-2	—	—	—	—
Sendai	44.2	12	e 7	57	-1	e 14	23	+2	e 8	42	pP	e 22.8
Dairen	44.5	350	e 8	0	0	—	—	—	—	—	—	—
Isinomaki	44.5	12	e 8	2	+2	e 14	27	+8	e 8	35	pP	—
Yumenkow	44.5	337	e 8	1	+1	—	—	—	—	—	—	—
Linfen	44.6	338	8	1	0	—	—	—	—	—	—	—
Sakata	44.6	11	e 8	12	+11	e 14	32	+6	—	—	—	—
Mizusawa	45.1	12	8	5	0	14	32	-2	—	—	—	—
Akita	45.5	11	i 8	8	0	e 14	41	+2	e 8	46	pP	—
Morioka	45.7	12	8	9	0	i 14	38	-4	e 8	47	pP	—
Taiyuan	45.7	340	8	10	0	—	—	—	—	—	—	—
Miyako	45.8	13	e 8	12	+2	14	40	-4	e 10	40	PPP	18.0
Hatinohe	46.5	12	e 8	15	0	i 14	50	-4	e 8	57	pP	e 19.2
Aomori	46.7	11	8	12	-4	i 14	58	+2	—	—	—	—
Peking	46.7	345	i 8	17 <sup>a</sup>	0	i 14	51	-5	—	—	—	—
Kwanting	47.0	345	8	19	-1	—	—	—	—	—	—	—
Tatung	47.6	342	8	28	+3	—	—	—	—	—	—	—
Hakodate	47.6	11	e 8	30	+5	—	—	—	—	—	—	—
Lanchow	47.8	331	8	43	pP	—	—	—	—	—	—	—
Mori	47.9	10	8	28	+1	15	2	-11	11	20	PPP	21.4
Vladivostok	48.0	2	e 8	27	0	i 15	13	-2	9	9	pP	—
Shillong	48.1	311	i 8	28 <sup>a</sup>	0	i 15	5	-11	8	51	pP	—
Muroran	48.2	11	e 8	25	-3	e 15	18	0	—	—	—	—
Urakawa	48.4	12	e 8	30	0	e 15	21	+1	e 9	8	pP	21.1

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	$\Delta$ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.
Tomakomai	48.5	11	e 8	33	+ 2	e 15	19	- 3	—	—	—
Suttsu	48.5	10	e 8	44	+12	e 15	24	+ 2	—	—	—
Yinchuan	48.7	335	e 8	34	+ 1	—	—	—	—	—	—
Suva	48.8	110	8	38	+ 4	15	46	+20	—	—	—
Changchun	48.9	355	i 8	33	0	—	—	—	—	—	—
Sapporo	49.0	11	e 8	33	- 1	e 15	19	-10	i 9	17	pP e 25.9
Paotow	49.1	340	e 8	36	0	—	—	—	—	—	—
Obihiro	49.2	12	e 8	47	+10	e 15	35	+ 4	—	—	—
Sining	49.3	330	8	40	+ 2	—	—	—	—	—	—
Kusiro	49.5	14	e 8	40	+ 1	i 15	34	- 2	i 16	24	PPS e 19.9
Asahigawa	49.8	12	e 8	43	+ 1	—	—	—	—	—	—
Wuwei	49.9	331	8	43	+ 1	—	—	—	—	—	—
Nemuro	50.1	14	e 8	42	- 1	e 15	33	-11	e 9	15	pP e 20.5
Abashiri	50.5	13	e 8	47	0	e 15	41	- 8	—	—	e 19.8
Onerahi	50.7	133	8	48	0	e 15	59	+ 7	9	28	pP e 20.4
Harbin	50.7	356	e 8	48	0	—	—	—	—	—	—
Wakkanai	51.3	10	e 9	6	+13	e 15	50	-10	e 12	2	PPP
Auckland	51.6	134	e 9	0	+ 5	e 16	0	- 5	e 11	42	PPP
Bokaro	52.0	306	i 8	57	0	i 15	59	-11	10	12	PcP 24.1
New Plymouth	52.1	137	e 9	4	+ 5	e 16	12	+ 1	—	—	—
Kaimata	52.2	142	e 9	0	+ 1	e 16	18	+ 5	e 9	49	pP
Cobb River	52.2	140	e 8	59	0	e 16	13	0	e 9	33	pP e 20.6
Chatra	52.4	310	i 9	0	0	—	—	—	i 10	5	PcP
Karapiro	52.5	135	e 9	5	+ 3	e 16	15	- 2	e 9	38	pP e 22.4
Madras	52.9	290	i 9	5 <sub>a</sub>	0	i 16	24	+ 2	9	47	pP
Yuzno-Sakhlinsk	53.0	11	i 9	6	+ 1	i 16	23	- 1	i 9	49	pP
Christchurch	53.4	142	e 9	7	- 1	e 16	27	- 2	e 9	38	pP
Wellington	53.6	139	i 9	7 <sub>k</sub>	- 2	i 16	30	- 2	e 9	35	pP e 22.4
Tuai	54.1	135	e 9	10	- 2	e 16	38	- 1	e 9	54	pP
Macquarie Is.	54.5	160	i 9	15	0	e 16	48	+ 4	e 18	55	ScS
Yumen	54.5	329	9	15	- 1	—	—	—	—	—	—
Kodaikanal	54.7	286	i 9	21 <sub>k</sub>	+ 3	e 16	51	+ 4	11	24	PP 24.6
Hyderabad	55.8	295	i 9	24 <sub>a</sub>	- 1	i 17	1	0	11	4	PP 25.0
Apia	57.7	103	9	44	+ 5	e 18	26	+60	e 10	24	? e 24.4
Poona	60.3	294	i 9	56 <sub>a</sub>	0	17	57	- 3	10	37	PcP 26.3
New Delhi	61.0	306	i 10	6 <sub>a</sub>	+ 4	i 18	21	+12	14	58	PcS e 24.2
Dehra Dun	61.1	309	e 10	2	0	i 18	10	0	e 12	6	PP 26.9
Irkutsk	61.2	342	i 10	2 <sub>a</sub>	- 1	i 18	14	+ 3	10	46	pP
Bombay	61.4	295	i 10	3	- 1	i 18	15	+ 1	10	47	PcP 28.3
Klyuchi	66.1	18	i 10	32	- 2	i 19	16	+ 4	i 11	4	pP
Magadan	66.4	11	i 10	36	- 1	19	15	0	11	20	pP
Mirny	66.6	195	i 10	38	0	e 19	17	- 1	i 13	4	PP
Kerguelen Is.	67.0	218	e 10	44	+ 3	—	—	—	—	—	—
Frunse	69.3	320	i 10	55	0	i 19	49	- 1	i 24	1	SS
Quetta	69.9	304	i 10	58 <sub>a</sub>	0	i 19	56	- 1	e 39	2	P'P'
Semipalatinsk	70.0	328	i 10	58	- 1	i 19	56	- 2	i 11	33	pP
Stalinabad	71.4	313	i 11	9	+ 1	—	—	—	i 20	21	PS
Tashkent	72.2	316	i 11	12	0	i 20	20	- 3	i 11	48	pP
Honolulu	74.9	66	i 11	28 <sub>a</sub>	0	i 20	54	0	i 21	48	ScS e 30.8
Tiksi	76.6	0	i 11	35	- 2	e 21	21	ScS	e 12	11	pP
Hawaii, V.Ob.	77.1	69	i 11	42	+ 1	e 21	23	+ 5	—	—	—
Unalaska	78.7	33	i 11	48	- 1	i 21	34	- 1	—	—	—
Ashkabad	79.0	310	i 11	51	0	21	40	+ 2	i 12	17	pP
Tananarive	81.5	252	i 12	5 <sub>k</sub>	+ 1	e 22	5	+ 1	e 15	12	PP e 38.7
Sverdlovsk	83.3	329	i 12	13	+ 1	22	18	- 4	15	23	PP
Goris	88.5	310	i 12	39	0	i 23	8	- 4	22	54	SKS
College	91.1	25	i 12	48 <sub>a</sub>	- 2	e 23	2	[- 7]	i 16	32	PP
Moscow	95.6	325	13	10	- 1	i 23	34	[ 0]	17	2	PP
Pietermaritzburg z.	96.0	240	i 13	16 <sub>k</sub>	+ 2	—	—	—	—	—	—
Ksara	96.4	303	i 13	15	0	i 24	16	- 5	i 13	50	pP
Sitka	96.6	33	e 13	17	0	e 24	26	+ 3	e 17	14	PP e 39.1
Jerusalem	96.9	301	i 13	24	+ 6	—	—	—	i 17	20	PP
Apatity	97.3	337	i 13	4 <sub>a</sub>	-14	i 24	18	-11	e 13	32	pP
Simferopol	97.9	314	i 13	21	0	i 23	47	[ 0]	i 13	58	pP
Pretoria	98.6	243	i 13	27 <sub>k</sub>	+ 1	—	—	—	—	—	—

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		$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Grahamstown	z.	98.6	235	i 13 27 <sub>a</sub>	+ 1	—	—	—	—
Pulkovo		99.4	330	e 13 26	- 2	i 23 53	[- 1]	i 17 41	PP
Uvira		100.8	266	e 13 36 <sub>a</sub>	+ 1	—	—	—	—
Kimberley	z.	101.0	240	i 13 36	0	—	—	—	—
Lwiro		101.2	267	e 13 40	+ 3	—	—	e 17 46	PP
Helsinki		102.0	330	e 13 36	- 4	i 24 57	0	i 24 5	SKS
Kiruna		102.1	339	i 13 38 <sub>a</sub>	- 2	i 25 3	0	i 14 16	pP
Iasi		102.3	317	e 13 43	+ 1	e 24 7	[- 1]	—	—
Focsani	E.	102.7	316	e 13 48	+ 4	e 24 13	[+ 3]	—	—
Bucharest		103.6	314	e 13 51	+ 3	i 25 16	0	i 18 13	PP
Hermanus		104.2	233	e 13 26 <sub>?</sub>	-24	i 25 26	0	i 18 53	PP
Lwow		104.3	320	i 13 50	0	e 24 9	[- 8]	i 18 18	PP
Horseshoe Bay		104.5	40	e 13 52	0	—	—	e 18 8	PP
Victoria		104.6	41	e 13 52 <sub>k</sub>	0	i 24 18	[- 1]	i 26 30	PS
Corvallis	z.	105.2	45	i 18 9	[+ 3]	—	—	—	—
Seattle		105.5	42	14 1	P	e 25 38	+ 1	i 18 16	PKP
Upsala		105.6	331	i 13 53 <sub>a</sub>	P	24 20	[- 3]	i 18 22	PP
Warsaw		105.7	323	e 13 56	P	e 24 27	[+ 3]	e 27 22	PS
Resolute Bay		105.8	11	i 13 56 <sub>k</sub>	P	e 24 26	[+ 2]	e 18 14	PP
Sofia		105.9	313	e 13 59	P	24 24	[ 0]	i 18 32	PP
Ukiah		106.0	51	e 14 2	P	e 24 32	[+ 7]	e 18 23	PP
Athens		106.1	308	—	—	e 24 21	[- 4]	—	—
Shasta	z.	106.4	49	e 13 59	P	—	—	—	—
Skalnate Pleso		106.9	320	e 14 4	P	i 25 56	+ 7	i 18 33	PP
Berkeley		106.9	52	e 14 6	P	i 24 31	[+ 2]	e 18 57	PP
Timisoara		106.9	316	e 14 5	P	e 24 29	[ 0]	17 43	PKP
Mineral	z.	107.1	49	e 14 7	P	—	—	—	—
Santa Clara		107.2	53	e 18 58	PP	e 24 28	[- 2]	e 27 45	PS
Lick	z.	107.4	53	e 14 7	P	—	—	—	—
Szeged		107.5	317	e 14 55	pP	28 8	PS	18 33	PP
Belgrade		107.6	315	e 14 10 <sub>a</sub>	P	e 25 29	SKKS	i 18 40	PP
Budapest		108.0	318	e 14 9	P	24 45	[+11]	e 18 29	PP
Kalossa		108.2	317	e 28 10	PS	24 38	[+ 4]	21 38	PKS
Hurbanovo		108.5	319	17 50	PKP	e 24 33	[- 3]	i 18 35	PP
Reno	z.	108.6	50	e 14 14	P	—	—	—	—
Fresno	z.	109.0	53	e 14 12	P	—	—	—	—
Bratislava		109.1	319	i 20 59	PPP	i 25 13	SKKS	i 28 52	PPS
King Ranch	z.	109.2	54	e 14 21	P	18 25	PKP	19 36	PP
Copenhagen		109.6	328	e 14 14	P	i 25 41	SKKS	e 18 13	PKP
Tinemaha		110.2	52	e 14 22	P	24 53	[+10]	i 18 24	PKP
Isabella	z.	110.2	54	e 14 19	P	e 18 23	PKP	29 36	PKKP
Prague		110.3	322	i 14 21	P	i 24 48	[+ 5]	i 18 55	PP
Pasadena		110.6	56	14 22	P	i 26 24	S	i 18 24	PKP
Hungry Horse		110.7	40	e 14 20 <sub>k</sub>	P	e 25 49	SKKS	i 18 19	PKP
Taranto		110.7	311	14 54	P	25 26	[+41]	28 26 <sub>?</sub>	PS
China Lake	z.	110.9	54	e 14 25	P	—	—	e 18 26	PKP
Riverside	z.	111.3	56	e 14 25	P	i 24 50	[+ 3]	i 19 23	PP
Eureka		111.5	50	i 14 33 <sub>a</sub>	P	i 18 26	PKP	i 19 5	PP
Cheb		111.6	322	e 18 53	PP	e 24 49	[+ 1]	i 25 41	SKKS
Hamburg		111.7	326	i 14 24	P	e 25 43	SKKS	e 18 10	PKP
Jena		111.8	323	e 14 23	P	e 26 41	SKKS	e 18 22	PKP
Palomar	z.	111.8	56	e 14 29	P	—	—	i 18 37	PKP
Triest		112.0	317	e 14 26	P	i 24 53	[+ 3]	i 18 17	PKP
Scoresby Sund		112.3	350	e 14 26	P	i 26 46	S	e 18 26	PKP
Butte	N.	112.3	42	e 14 31	P	i 24 58	[+ 7]	i 18 22	PKP
Reggio Calabria		112.4	309	e 17 44	?	e 29 1	PS	i 19 9	PP
Messina		112.5	309	e 14 27	P	25 10	[+18]	i 19 9	PP
Hayfield	N.	112.8	56	e 14 37	P	i 25 5	[+12]	i 18 28	PKP
Boulder City		113.1	53	e 14 34	P	—	—	i 18 30	PKP
Bozeman		113.4	42	e 14 33	P	i 24 58	[+ 3]	i 18 30	PKP
Witteveen		113.8	326	e 14 36	P	—	—	e 19 24	PP
Saskatoon		113.9	34	e 18 48	[+24]	i 26 6	S	—	—
Rome		113.9	314	e 14 33	P	i 26 5	S	i 18 11	PKP
Bologna		114.0	317	e 18 17	[- 7]	e 29 18	PPS	e 19 33	PP
Stuttgart		114.0	322	e 14 33	P	e 26 44	SKKS	e 18 24	PKP

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	$\Delta$	Az.	P.		O-C.	S.	O-C.	Supp.		L.		
	°	°	m.	s.	s.	m.	s.	m.	s.	m.		
Florence	114.2	316	i 14	35	P	i 26	7	SKKS	i 18	25	PKP	—
Karlsruhe	114.3	322	e 18	26	[+ 2]	e 29	47	PPS	e 19	3	pPKP	—
Salt Lake City	114.3	47	e 14	41	P	e 27	5	S	e 18	20	PKP	e 46.7
Prato	114.3	316	e 14	26	P	—	—	—	—	—	—	—
Chur	114.4	320	e 18	25	[ 0]	e 24	56	[- 3]	—	—	—	—
Zürich	114.8	320	18	27	[+ 2]	—	—	—	—	—	—	—
Strasbourg	114.9	322	e 14	38	P	e 27	4	S	e 15	13	pP	—
De Bilt	115.0	326	e 14	37	P	e 29	19	PS	e 19	26	PP	—
Pavia	115.2	318	e 14	41	P	i 29	52	PPS	e 18	32	PKP	—
Basle	115.4	321	e 18	30	[+ 3]	—	—	—	e 28	58	PS	—
Neuchatel	116.0	320	e 18	27	[ 0]	—	—	—	e 19	36	PP	—
Aberdeen	116.1	333	e 19	28	PP	i 24	49	[-17]	i 26	7	SKKS	e 51.8
Besançon	116.5	321	e 18	34	[+ 5]	e 19	41	PP	e 19	12	pPKP	—
Monaco	z. 116.9	317	e 18	32	[+ 3]	i 19	43	PP	e 22	11	PPP	—
Tunis	117.0	309	18	20	[- 9]	e 35	38	SS	30	20	PPS	—
Tucson	117.0	56	i 18	33 <sup>a</sup>	[+ 3]	e 26	32	SKKS	e 19	52	PP	e 47.8
Durham	117.2	331	e 18	37	[+ 6]	—	—	—	19	34	PP	—
Edinburgh	E. 117.3	333	19	47	PP	e 25	31	[+21]	29	56	PS	—
Reykjavik	117.7	347	i 14	55	P	i 25	21	[+ 9]	e 18	32	PKP	—
Paris	118.0	324	e 14	46	P	e 27	30	S	i 22	6	PKS	e 59.4
Kew	118.3	327	e 14	52	P	e 25	8	[- 6]	i 19	49	PP	e 48.4
Clermont-Ferrand	118.9	320	e 15	4 <sup>k</sup>	P	e 25	34	[+18]	e 18	34	PKP	50.4
Rapid City	E. 119.2	42	e 15	4 <sup>k</sup>	P	i 25	22	[+ 5]	e 18	34	PKP	e 56.3
Boulder	119.3	46	i 15	18	P	—	—	—	i 18	35	PP	—
Rathfarnham Castle	120.3	331	e 18	36 <sup>a</sup>	[ 0]	28	54	S	e 19	24	pPKP	—
Jersey	E. 120.4	326	e 20	2	PP	e 30	43	PPS	e 20	50	pPP	—
Barcelona	121.4	316	—	—	—	e 32	9	PPS	e 20	21	PP	e 64.1
Chihuahua	121.8	59	e 18	54	[+15]	e 30	29	PS	e 20	32	PP	—
Algiers Univ.	z. 122.4	311	e 18	40	[ 0]	e 25	35	[+ 8]	e 20	15	PP	—
Tamanrasset	z. 123.9	294	15	11	P	e 26	5	[+33]	i 18	45	PKP	—
Ivigtut	124.0	359	e 19	30	[+47]	e 27	0	SKKS	e 30	5	PS	—
Alicante	124.4	314	18	50	[+ 6]	25	31	[- 3]	20	38	PP	e 58.9
Relizane	124.7	310	e 31	26	?	—	—	—	33	28	?	—
Guadalajara	125.8	68	e 22	32	PP	e 27	29	SKKS	e 30	38	PS	—
Toledo	126.3	317	e 18	42	[- 5]	37	42	SS	20	41	PP	51.7
Almeria	126.5	313	i 18	48	[ 0]	27	33	SKKS	i 20	44	PP	59.1
Granada	127.2	314	i 18	52 <sup>a</sup>	[+ 3]	i 26	22	[+40]	i 20	52	PP	i 65.1
Fayetteville	128.9	47	e 18	40	[-12]	—	—	—	e 22	4	PKS	—
Tacubaya	129.8	69	i 19	4	[+10]	e 27	26	SKKS	i 20	55	PP	e 60.2
Kirkland Lake	z. 129.9	26	e 18	53 <sup>a</sup>	[ 0]	e 21	34	PP	e 22	50	PKS	—
Florissant	130.2	42	e 18	55	[ 0]	e 31	2	SKSP	e 21	19	PP	—
Chicago, C.G.S.	130.3	37	e 19	0	[+ 5]	e 27	34	SKKS	e 21	38	PP	e 55.2
Lisbon	130.3	318	e 18	57 <sup>a</sup>	[+ 2]	21	16	PP	i 22	8	PKS	—
St. Louis	130.4	42	e 18	52	[- 3]	e 22	18	PKS	i 21	18	PP	—
Oaxaca	132.5	72	e 19	33	pPKP	—	—	—	22	34	PKS	—
Vera Cruz	132.7	69	i 18	58	[- 1]	e 27	52	SKKS	i 22	16	PKS	—
Ottawa	133.9	25	e 18	47	[-14]	26	6	[ 0]	24	29	PPP	—
Cleveland	134.0	33	e 19	2	[ 0]	—	—	—	i 22	16	SKP	—
Shawinigan Falls	134.1	22	e 18	55 <sup>a</sup>	[- 6]	25	51	[- 8]	22	21	PKS	—
Seven Falls	134.3	20	e 18	51	[-11]	28	14	SKKS	22	22	PKS	—
Buffalo (Larkin)	134.5	30	e 18	50	[-12]	—	—	—	e 22	18	PKS	—
Mobile	135.8	50	19	8	[+ 2]	—	—	—	i 22	42	PKS	—
Pennsylvania	136.4	31	i 19	7	[ 0]	—	—	—	22	31	PKS	—
Santa Lucia	N. 136.9	154	e 19	30	[+22]	e 28	37	SKKS	e 22	28	PP	—
Comitan	137.0	72	e 18	26	[-42]	e 31	2	PS	e 22	54	PKS	—
Palisades	138.2	28	e 19	0	[- 9]	e 28	34	SKKS	e 21	56	PP	e 64.5
Weston	138.2	24	19	1	[- 9]	—	—	—	—	—	—	—
Washington	138.2	32	i 19	11 <sup>a</sup>	[+ 1]	—	—	—	i 22	48	PP	—
Fordham	138.3	28	e 19	6	[- 3]	i 22	46	PKS	e 22	4	PP	—
Philadelphia	138.4	30	e 19	20	[+10]	e 27	41	?	e 22	2	PP	e 56.5
Halifax	138.8	15	e 19	3	[- 7]	—	—	—	22	9	PKS	—
Columbia	139.1	41	e 19	5	[- 6]	e 27	31	?	i 23	25	PKS	e 56.6
La Plata	139.5	170	22	42	PKS	28	44	SKKS	45	56	SSS	66.6
Buenos Aires	139.7	169	—	—	—	i 22	57	PKS	e 20	59	?	—
San Salvador	140.2	75	e 19	19	[+ 5]	—	—	—	—	—	—	—

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	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Angra do Heroismo	140.8	332	i 19 24	[+ 9]	e 40 20	SS	i 23 7	PP	—
Antofagasta	145.0	146	i 19 28	[+ 6]	—	—	e 23 42	PP	—
M'Bour	146.4	288	i 19 28	[+ 3]	e 23 6	PP	i 19 58	pPKP	—
Huancayo	149.4	124	i 19 33	[+ 4]	e 20 8	pPKP <sub>2</sub>	e 30 45	SKKS	—
Balboa Heights	150.2	81	e 19 37	[+ 7]	—	—	—	—	—
La Paz	151.9	140	i 19 36 <sub>a</sub>	[+ 3]	26 26	[ 0]	i 23 54	PPP	60.1
Galerazamba	154.1	76	i 19 49	[+13]	—	—	i 23 48	PP	74.4
Port au Prince	154.2	57	e 19 10	[-26]	—	—	—	—	—
Chinchina	154.2	89	i 19 39	[+ 3]	i 26 36	[+ 8]	i 23 33	PP	72.4
Bogota	155.8	90	i 19 41	[+ 3]	i 31 9	SKKS	i 24 49	PP	—
San Juan	159.2	49	e 19 42 <sub>a</sub>	[ 0]	e 35 6	SKSP	i 24 3	PP	e 69.9
Fort de France	165.2	49	i 19 53	[+ 4]	i 19 59	?	i 20 33	pP	—
St. Vincent	166.1	54	i 19 50	[ 0]	i 24 40	PP	i 20 57	PKP <sub>2</sub>	—
Trinidad	167.1	64	e 19 52	[+ 1]	—	—	—	—	—
Barbados	167.4	50	e 19 59	[+ 8]	—	—	—	—	—

July 19d. 20h. 40m. 54s. Epicentre 14°·74N. 120°·05E.

A = -0.4845, B = +0.8375, C = +0.2528;  $\delta$  = +5; h = +6;  
D = +0.866, E = +0.501; G = -0.127, H = +0.219, K = -0.968.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Manila	0.9	100	i 0 29	+ 9	—	—	—	—
Baguio City	1.8	17	i 0 33	+ 1	—	—	—	—
Tainan	8.2	1	e 2 20	+17	—	—	—	—
Alishan	8.8	4	e 2 30	+19	4 6	+13	—	—
Hwalien	9.3	9	2 20	+ 2	4 3	- 2	—	—
Hong Kong	9.4	324	2 16 <sub>a</sub>	- 2	e 3 51?	-16	—	—
Taichung	9.4	4	e 2 22	+ 3	—	—	—	—
Taipei	10.3	7	e 2 38	+ 6	4 25	- 5	—	—
Zô-Sè	16.3	6	3 49 <sub>a</sub>	- 3	6 55	+ 2	—	—
Nanking	17.3	356	4 6 <sub>a</sub>	+ 2	e 7 20	+ 4	—	—
Sian	21.9	335	4 58	+ 2	—	—	—	—
Linfen	22.6	342	e 5 2	0	—	—	—	—
Taiyuan	23.9	345	e 5 16	0	—	—	—	—
Guam	24.0	90	i 5 17	0	—	—	—	—
Djakarta	24.6	213	i 5 26	+ 4	e 9 47	+ 5	e 5 58	PP
Kyoto	24.6	32	5 20	- 2	9 35	- 7	—	—
Lembang	24.7	211	i 5 24 <sub>a</sub>	0	e 9 44	0	e 10 42	SS
Bandung	24.8	211	e 5 26	+ 2	e 9 47	+ 1	—	—
Peking	25.4	354	5 28 <sub>a</sub>	- 3	9 54	- 2	6 5	PP
Kwanting	25.7	352	e 5 44	+11	—	—	—	—
Matusiro	27.1	33	5 43 <sub>k</sub>	- 2	e 10 5	-19	9 31	PcP
Shillong	28.5	297	i 5 58	0	—	—	—	—
Rabaul	37.0	118	e 7 14	+ 1	—	—	i 7 30	PP
Colombo	40.2	263	e 9 17	PP	—	—	—	20.4
Dehra Dun	41.5	299	e 7 59	+ 9	i 13 59	- 8	i 17 38	SSS
Poona	44.3	282	8 14	+ 1	e 14 44	- 4	17 50	ScS
Quetta	51.0	297	9 5 <sub>a</sub>	0	i 16 18	- 4	e 11 19	PP
Brisbane	52.8	143	i 9 18	0	—	—	—	—
Riverview	56.7	149	i 10 6	?	i 19 40	ScS	i 18 21	PPS
Melbourne	57.3	157	e 9 26	-25	—	—	e 10 32	PcP
Ksara	77.2	302	i 11 56	0	e 21 47	0	e 14 56	PP
College	77.7	26	e 11 58	- 1	e 21 45	- 7	e 26 38	SS
Sodankyla	77.8	337	i 12 1	0	—	—	i 12 13	PcP
Jerusalem	78.1	300	i 12 2	0	—	—	i 12 11	PcP
Tananarive	78.8	247	i 12 7 <sub>a</sub>	+ 1	—	—	e 12 35	?
Kiruna	80.1	338	i 12 10 <sub>a</sub>	- 2	i 22 6	-12	12 28	PcP
Iasi	81.0	316	e 12 16	- 1	—	—	—	—
Bucharest	82.6	314	e 12 29	+ 3	e 22 37	- 6	—	—
Upsala	83.5	330	i 12 27	- 3	i 22 40	-12	—	—
Warsaw	83.9	322	e 12 31	- 1	e 22 48	- 8	e 12 47	PcP

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	$\Delta$	Az.	P.		O-C.	S.	O-C.	Supp.		L.	
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	m.	s.	m.	
Skalstugan	84.6	335	i 12	33 <sub>a</sub>	- 2	—	—	12	44	PcP	—
Sitka	85.5	32	e 12	40	0	—	—	—	—	—	—
Belgrade	86.4	315	e 12	45 <sub>a</sub>	0	e 23	16	- 5	e 12	55	PcP
Budapest	86.5	318	12	50	+ 4	—	—	—	e 13	2	PcP
Bratislava	87.6	319	i 12	50	0	e 23	26	- 6	—	—	—
Copenhagen	87.6	327	e 12	50	0	e 23	26	- 6	—	—	41.1
Resolute Bay	88.1	9	e 12	50	- 3	e 23	14	[- 7]	—	—	—
Prague	88.5	322	i 12	55	0	—	—	—	—	—	—
Hamburg	89.7	326	i 13	2	+ 1	—	—	—	—	—	e 49.1
Jena	89.9	323	e 12	58	- 3	—	—	e 16	34	PP	—
Taranto	90.0	312	—	—	—	e 22	41	?	e 14	11	?
Astrida	91.0	268	e 13	7	0	—	—	e 16	1	PP	—
Scoresby Sund	91.0	348	—	—	—	e 23	35	[- 4]	e 30	18	SS
Uvira	91.8	267	e 13	12	+ 1	—	—	—	—	—	—
Lwiro	91.8	268	e 13	10	0	—	—	e 16	2	PP	—
Witteveen	z. 91.8	326	e 13	12	+ 1	—	—	—	—	—	—
Messina	92.0	310	e 13	25	+13	e 24	8	- 4	30	38	SS
Stuttgart	92.2	322	e 13	11	- 1	i 24	9	- 5	e 13	22	PcP
Ebingen	92.6	322	e 13	14	+ 3	—	—	—	—	—	44.6
Karlsruhe	z. 92.6	322	e 13	12	- 1	—	—	—	—	—	49.1
Rome	92.9	315	e 13	0	-15	e 24	17	- 3	e 23	40	SKS
Florence	93.0	317	i 13	17 <sub>k</sub>	+ 1	e 24	17	- 4	e 17	15	PP
De Bilt	93.0	326	e 13	16	0	e 23	51	[+ 1]	—	—	e 54.1
Strasbourg	93.1	322	i 13	17 <sub>k</sub>	0	e 24	20	- 2	e 25	38	PS
Pavia	93.7	318	—	—	—	e 24	36?	+ 9	e 25	46?	PS
Paris	96.1	324	i 13	30	- 1	e 26	4	PS	e 17	22	PP
Hungry Horse	101.0	33	e 13	53	0	—	—	—	e 17	44	PP
Eureka	105.0	42	i 17	48	PP	—	—	—	—	—	—
Tamanrasset	z. 105.9	299	17	36	?	e 21	37	?	e 18	31	PP
Shawinigan Falls	117.9	10	e 18	47	[ 0]	—	—	—	—	—	—
Fayetteville	120.0	32	i 18	52	[ 0]	—	—	—	—	—	—
Palisades	123.0	13	—	—	—	—	—	i 20	37	PP	e 65.4
San Juan	146.5	11	e 19	42	[ 0]	—	—	i 20	8	PKP <sub>2</sub>	—
Dominica	150.1	3	e 19	54	[+ 7]	—	—	—	—	—	—
St. Vincent	152.2	3	e 19	58	[+ 7]	—	—	—	—	—	—
Trinidad	154.7	4	e 20	4	[+10]	—	—	—	—	—	—
Huancayo	z. 164.8	82	e 20	11	[+ 6]	—	—	—	—	—	—
La Paz	171.9	104	i 20	11 <sub>k</sub>	[+ 1]	e 23	40	PKS	i 25	26	PP

July 19d. 23h. 26m. 37s. Epicentre 9°·48N. 84°·23W. Depth of focus = 0·010R.

A = +0·0992, B = -0·9815, C = +0·1637;  $\delta$  = -2;  $h$  = +7;  
D = -0·995, E = -0·100; G = +0·016, H = -0·163, K = -0·986.

	$\Delta$	Az.	P.		O-C.	S.	O-C.	Supp.		L.	
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	m.	s.	m.	
Balboa Heights	4.6	96	i 1	5	- 3	e 2	12	+11	—	—	
San Salvador	6.5	311	e 1	31	- 2	e 2	35	-13	—	—	
Galerazamba	8.9	81	i 2	18	+11	i 4	12	+25	—	5.4	
Chinchina	9.6	117	i 2	15	- 1	i 4	13	+ 9	i 2	19	PP
Comitan	10.2	312	e 2	27	+ 2	—	—	—	e 4	39	SS
Bogota	11.2	115	i 2	36 <sub>k</sub>	- 1	i 4	46	+ 4	—	—	5.9
Merida	12.5	336	i 2	59 <sub>a</sub>	+ 3	—	—	—	6	0	SS
Oaxaca	14.3	303	i 3	28	+ 9	—	—	—	—	—	6.4
Vera Cruz	15.0	311	3	37	+ 9	e 6	39	+27	e 7	3	SS
Tacubaya	17.5	306	i 4	3	+ 4	e 7	10	+ 2	i 4	28	PPP
San Juan	19.7	61	i 4	23	0	e 8	5	+ 9	—	—	e 9.7
Guadalajara	21.5	303	e 4	43	+ 1	e 8	47	+17	—	—	—
Manzanillo	21.6	298	i 4	53	+ 9	—	—	—	—	—	—
Trinidad	22.4	85	e 4	54	+ 3	—	—	—	—	—	—
St. Vincent	22.8	79	i 4	56	+ 1	—	—	—	—	—	—

Continued on next page.

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		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		<sup>o</sup>	<sup>o</sup>	m.	s.	s.	m.	s.	s.	m.	s.	m.
Dominica		23.0	73	e 5	2	+ 5	—	—	—	—	—	—
Huancayo		23.2	157	i 4	59	+ 1	e 9	18	+18	e 5	56	PP e 13.0
Fort de France		23.2	75	i 5	0	+ 2	e 9	20	+20	—	—	—
Barbados		24.4	79	e 5	13	+ 3	—	—	—	—	—	—
Columbia		24.6	6	i 5	12	0	e 9	38	+14	i 5	23	pP e 10.8
Fayetteville		28.0	343	e 5	40	- 3	—	—	—	e 6	48	PP —
Washington		30.0	11	e 6	1	0	e 9	48	PcP	e 7	8	PP i 13.5
La Paz		30.3	148	i 6	3k	- 1	e 10	59	+ 3	i 7	13	PP i 16.9
Philadelphia		31.4	13	e 7	14	+60	e 12	44	SS	—	—	e 14.6
Palisades		32.7	14	i 6	25	0	e 11	53	+20	i 7	43	PP e 16.1
Tucson		33.4	316	e 6	30	- 1	e 12	5	+21	—	—	e 19.1
Buffalo (Larkin)		33.6	7	6	31	- 1	—	—	—	—	—	e 18.3
Boulder		35.7	332	e 6	49	- 2	—	—	—	—	—	—
Ottawa		36.5	10	i 6	57k	0	12	39	+ 7	7	37	pP —
Brébeuf		37.0	12	i 7	2	0	—	—	—	—	—	—
Hayfield	N.	37.6	315	e 7	7	0	—	—	—	—	—	—
Rapid City	E.	38.2	338	e 7	11	0	—	—	—	e 8	52	PP —
Shawinigan Falls		38.2	13	e 7	10k	- 1	e 13	6	+ 8	7	41	pP —
Palomar	Z.	38.3	313	i 7	13a	0	—	—	—	i 9	26	PcP —
Boulder City		38.3	318	i 7	13	0	e 10	14	?	i 8	3	—
Kirkland Lake	Z.	38.7	4	e 7	14k	- 1	—	—	—	e 16	20	SSS —
Riverside	Z.	39.0	314	i 7	19a	+ 1	—	—	—	9	29	PcP —
Seven Falls		39.2	14	e 7	19k	0	e 15	42	SS	9	5	PP —
Halifax		39.3	23	e 7	22	+ 1	—	—	—	—	—	—
Salt Lake City		39.6	326	e 7	22	- 1	—	—	—	i 9	31	PcP —
Pasadena		39.6	313	i 7	25a	+ 1	i 13	29	+10	i 9	31	PcP e 21.4
China Lake	Z.	40.1	316	i 7	28	0	—	—	—	i 9	32	PcP —
Isabella	Z.	40.6	315	i 7	32	0	—	—	—	i 9	32	PcP —
Eureka		41.2	322	e 7	34	- 1	—	—	—	i 8	24	?
Tinemaha		41.2	317	i 7	38	+ 1	—	—	—	i 9	35	PcP —
King Ranch	Z.	41.3	314	i 7	39a	+ 1	—	—	—	e 9	39	PcP —
Fresno	Z.	42.1	316	e 7	42	- 1	—	—	—	—	—	—
Bozeman		42.8	332	e 7	47	- 2	—	—	—	i 9	37	PcP —
Reno	Z.	43.6	319	e 7	56	0	—	—	—	—	—	—
Lick	Z.	43.7	316	i 7	58a	+ 1	—	—	—	—	—	—
Butte	N.	43.7	331	e 8	4	+ 7	e 14	33	+14	i 10	18	PP e 18.6
Berkeley		44.4	316	i 8	3a	+ 1	e 14	54	+25	i 9	53	PP —
Mineral	Z.	45.2	319	e 8	9a	0	—	—	—	—	—	—
Shasta	Z.	45.9	319	e 8	8	- 5	—	—	—	—	—	—
Hungry Horse		46.1	333	e 8	14	- 1	—	—	—	i 9	52	PcP —
Corvallis		48.6	323	e 8	6	-28	—	—	—	—	—	—
Seattle		49.8	327	e 8	21	-23	10	9	PP	e 9	5	pP —
Victoria		50.9	327	i 8	53a	0	—	—	—	i 10	10	PcP —
Horseshoe Bay		51.4	328	e 8	51	- 5	—	—	—	—	—	—
Resolute Bay		65.4	357	i 10	32a	- 2	e 19	9	0	e 22	56	SS e 30.2
Reykjavik		69.6	24	i 11	0k	0	—	—	—	—	—	—
Scoresby Sund		72.0	18	e 11	13	- 1	e 20	41	+14	e 26	5	SS 34.4
Lisbon	Z.	72.5	52	i 11	20a	+ 2	—	—	—	—	—	—
Rathfarnham C.	Z.	75.2	37	i 11	33a	0	—	—	—	i 11	40	pP —
Toledo	Z.	76.5	51	i 11	42	+ 1	21	29	+12	—	—	53.4
Granada		76.9	54	i 11	46a	+ 3	21	37	+15	12	4	PcP i 34.4
Almeria		77.8	54	i 11	49	+ 1	—	—	—	—	—	40.4
Kew		78.9	39	i 11	55k	+ 1	e 22	7	+24	e 12	8	pP e 33.4
Alicante		79.3	53	11	59	+ 2	e 21	59	+12	27	14	SS —
Relizane		80.3	55	e 12	2	0	—	—	—	—	—	—
Paris		80.8	42	i 12	5	+ 1	e 22	15	+12	e 23	1	SP —
Clermont-Ferrand		81.4	45	e 12	9	+ 1	e 22	23	+14	—	—	—
Algiers Univ.	Z.	82.2	54	e 12	12	0	e 22	40	+23	—	—	—
De Bilt		82.2	38	e 12	13	+ 1	e 22	27	+10	—	—	e 34.4
Witteveen	Z.	83.1	38	i 12	17	+ 1	—	—	—	—	—	—
Besançon		83.3	43	i 12	29	+12	—	—	—	e 12	51	pP —
Strasbourg		84.3	42	i 12	23	+ 1	e 22	47	+ 9	e 23	41	SP 39.4
Basle		84.3	43	e 11	45	-36	—	—	—	—	—	—
Skalstugan		84.5	26	i 12	23	0	—	—	—	—	—	—
Karlsruhe	Z.	84.6	41	e 12	24k	0	e 14	0	PP	e 12	59	pP —

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Monaco	z.	84.7	47	e 12 22	- 2	—	—	i 12 34	?
Hamburg		84.9	37	i 12 27k	+ 1	—	—	i 12 54	pP
Zürich		85.0	43	e 12 26	0	—	—	—	—
Stuttgart		85.2	42	e 12 27	0	e 23 13	+26	e 12 35	PcP
Pavia		85.7	45	e 12 31	+ 1	e 23 38	PS	e 16 17	PP
Ebingen		85.9	42	e 12 27	- 3	—	—	—	—
Copenhagen		86.0	34	i 12 32	+ 1	e 23 7	+12	e 22 56	SKS
Tamanrasset	z.	86.2	68	i 12 34k	+ 2	e 23 2	+ 5	e 15 51	PP
Jena		86.4	39	e 12 34	+ 1	—	—	—	—
Kiruna		86.8	22	i 12 34	0	e 23 9	+ 7	e 22 53	SKS
Florence		87.4	46	e 12 35a	- 2	e 23 35	+27	i 13 4	pP
Upsala		87.8	30	i 12 39k	0	e 23 30	+18	—	—
Prague		88.3	40	i 12 43	+ 1	—	—	—	—
Rome		88.7	48	e 12 44	0	e 23 33	+13	e 29 53	SS
Sodankyla		89.1	21	i 12 46	0	—	—	—	—
Bratislava		90.5	41	i 12 55	+ 3	e 23 41	+ 3	e 24 59	PS
Messina	E.	91.8	51	—	—	e 24 40	PS	—	—
Quetta		131.8	34	e 19 6k	[+ 4]	—	—	e 22 32	PKS
Poona	z.	144.8	38	i 19 27	[+ 1]	—	—	—	—
Shillong	z.	145.0	6	i 19 27	[+ 1]	—	—	—	—

July 21d. 0h. 8m. 32s. Epicentre 0°·79N. 26°·09W.

A = +0.8980, B = -0.4398, C = +0.0137;  $\delta$  = +2; h = +7;  
D = -0.440, E = -0.898; G = +0.012, H = -0.006, K = -1.000.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
M'Bour		16.2	33	i 3 54	+ 3	e 7 2	+11	e 8 45	PcP
Angra do Heroismo		37.7	358	—	—	—	—	15 38	SSS
Tamanrasset	z.	37.7	52	e 7 16	- 2	e 13 9	- 1	e 8 44	PP
Granada		41.8	27	i 8 5	+13	i 14 17	+ 6	9 40	PP
Toledo		43.8	25	e 8 7	- 1	14 43	+ 3	—	—
Alicante		44.2	29	8 15	+ 3	14 51	+ 6	—	—
Algiers Univ.	z.	44.8	34	e 8 19	+ 2	e 15 2	+ 7	e 10 1	PP
La Paz		44.9	246	i 8 17a	0	14 52	- 4	9 59	PP
Bogota		48.1	276	e 8 50	+ 7	e 15 40	- 2	—	—
Chinchina		49.6	276	e 8 55	0	—	—	—	—
Huancayo	z.	50.5	254	i 9 0	- 1	—	—	e 10 6	PcP
Clermont-Ferrand		51.6	26	e 9 10	0	e 16 35	+ 4	e 20 7	SS
Messina		53.3	41	e 9 22	0	e 16 58	+ 4	e 11 23	PP
Rome		53.6	35	e 9 23	- 1	i 17 2	+ 4	e 20 18	SS
Paris		53.8	23	e 9 26	0	e 18 2	+61	e 19 12	ScS
Besançon		54.0	26	e 9 36	+ 8	—	—	—	—
Pavia		54.0	30	e 12 57	PPP	e 17 20	+17	e 20 17	SS
Florence		54.2	33	e 9 33	+ 4	i 17 13	+ 7	e 17 46	PS
Halifax		54.8	328	e 9 32	- 1	—	—	—	—
Rathfarnham Castle		54.9	14	i 9 33k	0	17 28	+12	i 11 38	PP
Lwiro		55.0	93	e 9 36	+ 1	—	—	—	—
Kew		55.0	19	e 9 38	+ 3	e 17 19	+ 2	—	—
Strasbourg		55.8	27	e 9 41	0	e 17 22	- 6	e 19 28	ScS
Astrida		55.9	94	e 9 40	- 1	—	—	e 10 55	?
Stuttgart		56.6	27	e 9 44	- 2	e 17 35	- 3	13 16	PPP
Kimberley	z.	56.8	126	e 9 44	- 3	—	—	—	—
Durham		57.4	7	9 39	-18	e 17 54	+ 5	—	—
De Bilt		57.4	22	e 9 55	+ 2	e 17 58?	+ 9	—	—
Witteveen	z.	58.6	23	e 10 1	0	—	—	—	—
Palisades		58.9	319	—	—	i 18 10	+ 2	—	—
Jena	z.	59.2	27	10 3	- 1	—	—	—	—
Aberdeen		59.4	15	—	—	18 28?	+13	—	—
Bratislava		60.1	32	i 10 9	- 2	—	—	e 12 33	PP
Seven Falls		60.3	326	e 10 10	- 2	—	—	—	—
Hamburg		60.5	24	e 10 10	- 2	—	—	e 12 27	PP

Continued on next page.

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	$\Delta$	Az.	P.		O-C.	S.	O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m. s.	s.	m.	s.	m.
Columbia	61.0	309	e 10	16	0	—	—	—	—	—
Brébeuf	61.0	324	e 10	19	+ 2	—	—	—	—	—
Shawinigan Falls	61.1	325	e 10	16 <sup>a</sup>	- 1	—	—	—	—	—
Ottawa	62.2	323	i 10	25 <sup>k</sup>	0	e 18 48	- 3	—	—	—
Buffalo (Larkin)	62.9	319	i 10	26	- 3	—	—	—	—	—
Copenhagen	63.0	23	—	—	—	e 19 4	+ 3	—	—	31.5
Warsaw	64.6	30	e 10	40	0	e 19 21	0	—	—	29.5
Jerusalem	65.4	55	i 10	45	0	—	—	—	—	—
Kirkland Lake	66.2	324	e 10	48	- 2	—	—	—	—	—
Ksara	66.5	53	e 10	56	+ 3	e 19 48	+ 4	e 13 28	PP	33.5
Upsala	67.9	22	i 10	59	- 2	e 19 59	- 2	—	—	—
Skalstugan	68.7	17	i 11	5	- 1	—	—	—	—	—
Scoresby Sund	69.6	2	e 11	13	0	e 20 25	+ 4	e 21 10	ScS	31.5
Fayetteville	71.9	308	i 11	24	- 2	—	—	—	—	—
Kiruna	74.1	17	i 11	39	0	e 21 13	+ 1	—	—	—
Tananarive	74.8	110	11	42	- 1	—	—	e 12 4	PcP	—
Moscow	74.8	32	11	40	- 3	—	—	—	—	—
Tiflis	75.3	47	11	46	0	—	—	—	—	—
Sodankyla	75.7	18	i 11	50	+ 1	—	—	—	—	—
Rapid City	E. 80.2	314	e 12	13	0	—	—	—	—	—
Boulder	81.2	310	e 12	19	0	—	—	—	—	—
Resolute Bay	83.7	346	i 12	33 <sup>k</sup>	+ 1	—	—	—	—	—
Tucson	85.1	302	e 12	39	0	—	—	—	—	—
Bozeman	85.9	316	e 12	43	0	—	—	—	—	—
Salt Lake City	86.3	311	e 12	45	+ 1	—	—	—	—	—
Butte	N. 87.0	316	e 12	49	+ 1	—	—	—	—	—
Sverdlovsk	87.5	33	12	51	0	23 37	+ 6	—	—	—
Hungry Horse	88.0	318	i 12	52	0	—	—	—	—	—
Boulder City	88.5	306	e 12	56	+ 1	—	—	—	—	—
Eureka	89.4	309	i 13	0	0	—	—	i 13 49	?	—
Riverside	z. 90.6	304	e 13	8	+ 3	—	—	—	—	—
China Lake	z. 90.8	306	e 13	11	+ 5	—	—	—	—	—
Isabella	91.5	305	e 13	13	+ 3	—	—	—	—	—

July 21d. 14h. 51m. 10s. Epicentre 50°·43N. 147°·57E. Depth of focus = 0.094R.

A = -0.5399, B = +0.3430, C = +0.7687;  $\delta$  = +4; h = -6;  
D = +0.536, E = +0.844; G = -0.649, H = +0.412, K = -0.640.

	$\Delta$	Az.	P.		O-C.	S.	O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m. s.	s.	m.	s.	m.
Ulegorsk	3.8	251	i 1	30	+ 3	i 2 40	+ 4	—	—	—
Yuzno-Sakhlinsk	4.7	225	i 1	33	+ 1	i 2 48	- 1	—	—	—
Kurilsk	5.2	178	i 1	34	- 2	i 2 50	- 4	—	—	—
Wakkanai	E. 6.4	221	—	—	—	i 3 18	+ 6	—	—	—
Nemuro	7.2	192	—	—	—	e 3 17	- 7	—	—	—
Petropavlovsk	7.4	64	i 1	54	0	i 3 25	- 2	—	—	—
Asahigawa	7.5	210	e 1	59	+ 3	—	—	—	—	—
Kusiro	7.8	198	i 1	56	- 2	i 3 27	- 7	—	—	—
Obihiro	E. 8.1	204	—	—	—	e 3 33	- 5	—	—	—
Sapporo	8.5	212	i 2	4 <sup>k</sup>	- 1	e 3 42	- 4	e 13 30	ScS	—
Tomakomai	8.9	210	—	—	—	e 3 47	- 5	—	—	—
Urakawa	8.9	204	e 2	2	- 6	e 3 47	- 5	3 35	?	—
Muroran	9.3	212	—	—	—	e 3 52	- 7	—	—	—
Magadan	9.3	10	e 2	15	+ 2	4 5	+ 6	—	—	—
Mori	N. 9.6	213	2	20	+ 4	4 1	- 3	e 3 38	?	—
Klyuchi	9.8	48	e 2	18	0	—	—	—	—	—
Aomori	10.7	209	e 2	28	+ 2	4 20	- 3	—	—	—
Hatinohe	10.8	205	—	—	—	e 4 12	- 13	—	—	—
Miyako	E. 11.5	202	e 2	35	+ 1	e 4 35	- 2	—	—	—
Morioka	11.6	205	e 2	36	+ 1	i 4 40	+ 1	—	—	—

Continued on next page.

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		$\Delta$ °	Az. °	P.		O - C. s.	S.		O - C. s.	Supp.		L. m.
				m.	s.		m.	s.		m.	s.	
Akita		11.9	209	e 2	40	+ 2	e 4	46	+ 2	—	—	—
Mizusawa		12.2	204	e 2	40	0	e 4	51	+ 1	—	—	—
Sakata		12.8	208	e 2	48	+ 2	e 5	7	+ 7	—	—	—
Vladivostok		13.0	242	i 2	47	0	i 5	2	- 1	—	—	—
Sendai		13.0	204	i 2	50	+ 1	i 5	6	+ 3	—	—	—
Yamagata		13.2	206	—	—	—	e 5	11	+ 4	—	—	—
Hokusima		13.6	204	e 2	56	+ 1	e 5	16	+ 2	—	—	—
Niigata		13.9	209	e 3	1	+ 4	e 5	24	+ 5	—	—	—
Onahama		14.3	202	e 3	3	+ 2	e 5	28	+ 2	—	—	—
Shirakawa		14.3	204	e 3	3	+ 2	e 5	27	+ 1	—	—	—
Harbin		14.7	260	e 3	7	+ 2	e 5	38	+ 5	—	—	—
Utunomiya		14.9	205	e 3	6	0	e 5	38	+ 2	—	—	—
Mito		15.0	203	e 3	9	+ 2	e 5	36	- 2	—	—	—
Wazima		15.1	214	e 3	11	+ 2	e 5	43	+ 3	—	—	—
Kakioka	E.	15.2	203	e 3	10	+ 1	e 5	40	- 2	—	—	—
Maebasi		15.3	207	i 3	11k	0	e 5	45	+ 2	—	—	—
Nagano		15.3	210	e 3	12	+ 1	e 5	47	+ 4	—	—	—
Matusiro		15.4	210	i 3	12k	0	i 5	45	0	—	—	—
Kumagaya		15.4	206	e 3	13	+ 1	e 5	48	+ 3	—	—	—
Oiwake		15.5	208	e 3	12	0	e 5	44	- 3	—	—	—
Toyama		15.6	212	e 3	13	0	—	—	—	—	—	—
Tokyo, C.M.O.		15.8	204	e 3	18	+ 3	e 5	52	0	—	—	—
Yokohama		16.1	204	—	—	—	e 5	58	+ 2	e 6 28	?	—
Kohu		16.2	207	e 3	23	+ 4	i 5	58	0	—	—	—
Changchun		16.5	255	i 3	23	+ 1	e 6	7	+ 3	—	—	—
Mera		16.5	203	e 3	18	- 3	—	—	—	—	—	—
Gihu		17.0	212	e 3	25	0	e 6	12	0	—	—	—
Nagoya	E.	17.1	211	e 3	28	+ 1	e 6	14	0	—	—	—
Omaesaki		17.2	207	—	—	—	e 6	20	+ 4	—	—	—
Kameyama		17.6	212	e 3	27	- 4	e 6	20	- 2	—	—	—
Kyoto		17.6	214	e 3	34k	+ 1	e 6	25	+ 3	—	—	—
Takamatu		18.9	217	e 3	45	+ 1	e 6	43	0	—	—	—
Koti		19.8	217	e 3	52	0	e 6	44	+ 1	—	—	—
Matuyama	N.	19.8	219	e 3	51	- 1	e 6	55	+ 12	—	—	—
Ooita		20.8	220	e 4	2	0	e 7	15	+ 1	—	—	—
Yakusima		23.7	219	e 4	27	0	e 7	58	- 3	—	—	—
Peking		24.3	257	i 4	32k	0	—	—	—	—	—	—
Irkutsk		26.8	291	i 4	55	+ 1	e 8	49	+ 1	—	—	—
Zô-Sé		27.6	236	i 5	0k	0	e 9	0	- 2	—	—	—
Nanking		28.1	240	i 5	5k	0	i 9	8	- 1	—	—	—
College		35.7	41	e 6	10	+ 1	e 11	1	- 3	—	—	—
Hong Kong	z.	38.3	235	e 6	31k	0	—	—	—	8 24	PP	—
Baguio City		40.3	222	i 6	47	+ 1	e 12	7	- 4	—	—	—
Sempalatinsk		41.5	297	i 6	57	+ 1	—	—	—	—	—	—
Manila		41.8	221	e 6	58	0	i 12	36	+ 3	—	—	—
Sitka		43.8	50	i 7	15	+ 1	—	—	—	—	—	—
Resolute Bay		48.5	18	i 7	49a	0	e 14	5	- 1	—	—	—
Sverdlovsk		48.6	313	e 7	51	0	e 14	8	+ 1	i 9 45	pP	—
Frunse		48.8	291	—	—	—	i 14	13	+ 3	i 8 17	?	—
Shillong	z.	49.0	261	i 7	53	0	—	—	—	—	—	—
Chatra		51.1	266	i 8	10	+ 1	—	—	—	—	—	—
Tashkent		52.9	292	i 8	21	0	i 15	3	- 1	—	—	—
Horseshoe Bay		54.0	54	i 8	28a	0	—	—	—	—	—	—
Victoria		54.4	55	i 8	17a	- 14	—	—	—	—	—	—
Sodankyla		54.4	336	i 8	33	+ 1	—	—	—	—	—	—
Rabaul	z.	54.6	174	i 8	31a	- 1	—	—	—	—	—	—
Dehra Dun		54.6	276	e 8	33	0	—	—	—	—	—	—
Seattle	z.	55.6	55	i 8	41	+ 1	—	—	—	—	—	—
Kiruna		55.6	338	i 8	40k	0	i 15	40	0	i 10 37	pP	—
Corvallis	z.	57.0	58	i 8	50a	0	—	—	—	—	—	—

Continued on next page.



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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	<sup>c</sup>	<sup>c</sup>	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Pulkovo	59.0	328	i 9	2	0	i 16	22	- 1	i 11	4	pP	—
Scoresby Sund	59.2	356	e 9	5	+ 1	e 16	27	+ 2	e 17	49	ScS	—
Moscow	59.3	322	i 9	4	0	16	24	- 2	i 11	4	pP	—
Hungry Horse	59.3	50	i 9	4	0	i 9	44	PcP	11	4	pP	—
Shasta	z. 60.1	61	i 9	11	+ 1	—	—	—	—	—	—	—
Ukiah	60.7	63	i 9	14	0	—	—	—	—	—	—	—
Mineral	z. 60.8	61	i 9	15 <sub>a</sub>	0	—	—	—	—	—	—	—
Skalstugan	61.0	339	i 9	15 <sub>k</sub>	0	17	0	+12	e 11	16	pP	—
Quetta	61.7	284	i 9	20 <sub>k</sub>	0	e 16	55	- 1	—	—	—	—
San Francisco	z. 62.0	64	i 9	21	- 1	—	—	—	—	—	—	—
Berkeley	z. 62.1	64	i 9	23 <sub>a</sub>	0	—	—	—	—	—	—	—
Santa Clara	62.6	64	9	21	- 5	—	—	—	—	—	—	—
Bozeman	62.6	51	i 9	26	0	e 17	6	- 1	e 11	29	pP	—
Lick	z. 62.8	64	i 9	28 <sub>a</sub>	0	—	—	—	—	—	—	—
Upsala	62.8	334	i 9	27 <sub>k</sub>	0	i 17	8	- 1	i 11	33	pP	—
Fresno	z. 64.2	63	i 9	36 <sub>a</sub>	0	—	—	—	—	—	—	—
Eureka	64.5	58	e 9	39	+ 1	i 9	57	PcP	e 11	42	pP	—
Tinemaha	64.9	62	i 9	42 <sub>a</sub>	+ 1	i 17	39	+ 5	e 11	44	pP	—
King Ranch	z. 65.3	64	i 9	44 <sub>a</sub>	+ 1	—	—	—	e 11	47	pP	—
Salt Lake City	65.7	55	i 9	46	0	—	—	—	—	—	—	—
Isabella	z. 65.8	63	i 9	45 <sub>a</sub>	- 1	—	—	—	i 11	50	pP	—
Kirovobad	66.1	305	i 9	49	+ 1	—	—	—	—	—	—	—
China Lake	z. 66.2	62	i 9	49 <sub>a</sub>	0	—	—	—	11	53	pP	—
Goris	67.0	304	e 9	55	+ 1	18	2	+ 3	—	—	—	—
Pasadena	67.0	64	i 9	54 <sub>a</sub>	0	i 18	2	+ 3	i 12	1	pP	—
Rapid City	E. 67.6	47	i 9	57	0	e 18	8	+ 2	i 12	3	pP	—
Boulder City	67.6	60	i 9	57	0	—	—	—	—	—	—	—
Riverside	z. 67.6	64	i 9	57 <sub>a</sub>	0	—	—	—	e 12	4	pP	—
Palomar	z. 68.4	64	i 10	1 <sub>a</sub>	0	—	—	—	i 12	6	pP	—
Hayfield	N. 68.8	63	i 10	4	0	—	—	—	—	—	—	—
Simferopol	68.9	316	e 10	6	+ 1	18	21	0	19	3	ScS	—
Lwow	69.1	325	i 10	6	0	i 18	22	- 1	i 12	17	pP	—
Boulder	69.6	52	i 10	10	0	—	—	—	—	—	—	—
Duluth	70.3	39	i 10	11	- 2	i 18	33	- 4	—	—	—	—
Jena	z. 72.3	332	e 10	25	0	—	—	—	e 12	36	pP	—
Tucson	72.6	60	i 10	27	0	—	—	—	e 12	37	pP	—
Bratislava	73.0	328	i 10	30	+ 1	—	—	—	i 12	40	pP	—
Kirkland Lake	z. 73.6	31	i 10	31 <sub>a</sub>	0	—	—	—	—	—	—	—
Nouméa	z. 74.3	162	e 10	37	+ 1	—	—	—	—	—	—	—
Rathfarnham C.	z. 74.3	344	i 10	37 <sub>k</sub>	+ 1	—	—	—	i 12	48	pP	—
Stuttgart	74.9	333	e 10	39	0	—	—	—	e 12	52	pP	—
Strasbourg	75.5	334	i 10	42	0	—	—	—	e 12	55	pP	—
Paris	76.7	337	i 10	52	+ 3	—	—	—	i 13	4	pP	—
Shawinigan Falls	77.3	27	i 10	51 <sub>a</sub>	- 1	—	—	—	13	6	pP	—
Ottawa	77.4	30	i 10	52 <sub>a</sub>	0	—	—	—	e 13	6	pP	—
Safed	77.6	307	i 10	55 <sub>a</sub>	+ 1	—	—	—	—	—	—	—
Brisbane	77.7	175	i 10	55	0	—	—	—	—	—	—	—
Brébeuf	78.0	28	i 10	56 <sub>k</sub>	0	—	—	—	—	—	—	—
Fayetteville	78.1	47	i 10	57	0	e 11	18	PcP	e 13	8	pP	—
Jerusalem	78.7	307	i 11	2 <sub>a</sub>	+ 2	—	—	—	—	—	—	—
Florence	78.8	329	e 10	35	-24	—	—	—	e 13	13	pP	—
Monaco	z. 80.0	332	e 11	8	+ 1	—	—	—	e 13	21	pP	—
Halifax	81.5	22	e 11	17	+ 2	—	—	—	—	—	—	—
Riverview	z. 84.0	177	11	28	+ 1	14	30	sP	13	39	pP	—
Columbia	85.6	39	i 11	35	0	—	—	—	e 13	54	pP	—
Melbourne	z. 87.9	182	i 11	46	0	—	—	—	—	—	—	—
Pretoria	128.0	275	—	—	—	—	—	—	e 20	8	PKP <sub>2</sub>	—
Huancayo	128.2	58	i 17	59	[+ 3]	e 20	35	SKP	e 20	21	pP	—
La Paz	N. 135.7	53	18	20	[+10]	21	0	PP	—	—	—	—

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July 21d. 15h. 32m. 26s. Epicentre 23°·34N. 70°·02E.

A = +0·3140, B = +0·8638, C = +0·3940;  $\delta = -2$ ;  $h = +4$ ;  
D = +0·940, E = -0·342; G = +0·135, H = +0·370, K = -0·919.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Bombay	5·1	149	e 1 20	0	i 2 20	0	—	—
Poona	6·0	142	i 1 32	0	e 2 47	+ 4	—	—
Quetta	7·3	339	i 1 50 <sub>a</sub>	0	i 3 12	- 3	i 1 56	PP
New Delhi	N. 8·3	50	i 2 2	- 2	i 3 34	- 6	4 34	S <sub>g</sub>
Lahore	9·0	24	2 25	+12	4 52	- 5 <sub>g</sub>	—	—
Hyderabad	E. 9·8	125	e 2 23	- 2	i 4 7	-10	—	—
Dehra Dun	10·0	44	e 2 28	0	i 4 18	- 4	2 43	PP
Madras	E. 14·1	135	i 3 18	- 4	i 5 53	- 9	3 26	PP
Bokaro	14·5	85	i 3 26	- 1	i 6 5	- 6	3 42	PP
Kodaikanal	14·8	150	e 3 38	+ 5	i 6 28	+10	3 56	PPP
Chatra	15·9	74	i 3 35	-11	—	—	i 6 52	SS
Ashkabad	17·7	328	i 4 10	+ 1	—	—	—	—
Tashkent	17·9	358	i 4 11	- 1	e 7 25	- 5	i 4 40	PPP
Colombo	E. 18·9	148	4 24	0	7 44	- 9	—	—
Frunse	19·8	10	i 4 36	+ 1	i 8 11	- 2	—	—
Shillong	20·0	79	e 4 36	0	i 8 13	- 4	8 39	SS
Tiflis	27·9	317	5 56	+ 2	—	—	—	—
Semipalatinsk	28·2	14	i 5 57	+ 1	i 10 42	+ 1	—	—
Sining	30·4	57	e 6 19	+ 3	—	—	—	—
Wuwei	31·4	55	e 6 27	+ 2	—	—	—	—
Ksara	31·6	297	i 6 30	+ 3	i 11 39	+ 4	i 10 13	PcP
Safed	31·8	295	i 6 30	+ 2	—	—	i 9 18	PcP
Lanchow	31·8	59	e 6 30	+ 1	—	—	—	—
Jerusalem	31·9	293	i 6 32 <sub>k</sub>	+ 3	—	—	—	—
Sverdlovsk	34·2	351	6 51	+ 2	14 31	SS	8 5	PP
Yinchuan	34·3	55	e 6 54	+ 4	—	—	—	—
Sian	35·6	63	7 4	+ 3	—	—	—	—
Simferopol	36·3	315	i 7 7	0	i 12 49	+ 1	i 8 33	PP
Senchow	36·6	64	e 7 22	+12	—	—	—	—
Paotow	37·7	53	7 22	+ 4	—	—	—	—
Irkutsk	39·0	33	i 7 31 <sub>a</sub>	+ 1	e 13 30	+ 1	9 4	PP
Taiyuan	39·0	58	e 7 32	+ 2	—	—	—	—
Canton	39·6	82	7 35 <sub>a</sub>	0	13 42	+ 4	—	—
Tatung	40·0	55	7 42	+ 4	—	—	—	—
Moscow	40·2	332	i 7 40 <sub>a</sub>	0	13 47	- 1	9 12	PP
Hong Kong	40·6	82	7 42 <sub>a</sub>	0	—	—	e 9 16	PP
Iasi	E. 41·4	316	e 7 51	+ 2	—	—	—	—
Bucharest	41·5	311	i 7 52 <sub>a</sub>	+ 2	e 17 34	ScS	e 9 47	PcP
Athens	42·0	301	e 7 51	- 3	i 14 17	+ 3	—	—
Peking	42·2	56	i 7 57 <sub>a</sub>	+ 1	14 22	+ 5	9 41	PP
Sofia	43·0	308	i 8 4	+ 1	e 13 53	-36	e 9 26	PP
Nanking	43·8	68	i 8 9 <sub>a</sub>	0	14 43	+ 3	i 9 56	PP
Lwow	44·5	318	i 8 15	0	i 14 51	0	i 10 1	PP
Timisoara	45·2	312	e 8 24	+ 4	—	—	—	e 33·6
Belgrade	45·5	311	e 8 24 <sub>k</sub>	+ 1	e 15 8	+ 3	e 10 13	PP e 30·7
Pulkovo	45·8	333	i 8 25	0	i 15 8	- 1	i 10 1	PcP
Zô-Sè	45·8	69	i 8 25 <sub>a</sub>	0	15 11	+ 2	10 19	PP
Djakarta	46·4	125	e 8 27	- 3	—	—	e 10 57	PP
Skalnate Pleso	46·6	316	i 8 33	+ 1	e 15 22	+ 1	e 10 27	PP
Kalossa	46·8	313	8 35	+ 1	15 9	-15	e 9 46	PcP
Astrida	47·0	242	e 8 30	- 4	—	—	—	—
Budapest	47·0	314	8 36	+ 1	e 18 41	SS	13 57	PcS
Warsaw	47·0	321	i 8 36	+ 1	i 15 31	+ 5	e 10 28	PP
Taranto	47·2	304	e 8 34	- 2	—	—	16 34	PS
Tananarive	47·4	210	i 8 40 <sub>a</sub>	+ 2	—	—	10 9	PcP
Bandung	47·5	125	e 9 4	+26	—	—	—	—
Lwiro	47·5	243	e 8 41	+ 2	—	—	e 10 10	PcP
Baguio City	47·8	89	i 8 43	+ 1	e 15 41	+ 3	—	—
Uvira	48·0	242	e 8 46	+ 4	—	—	—	—
Reggio Calabria	48·4	301	i 8 46 <sub>a</sub>	0	e 15 52	+ 6	e 10 41	PP

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Bratislava	48.4	314	i 8	43	- 2	e 15	48	+ 2	i 10	46	PP	e 26.6
Messina	48.4	301	i 8	47 <sub>a</sub>	+ 1	i 15	51	+ 5	e 10	41	PP	—
Manila	48.8	91	i 8	50	+ 1	i 15	52	0	—	—	—	—
Changchun	49.4	52	8	55	+ 1	—	—	—	—	—	—	—
Triest	50.3	311	i 9	0	0	i 16	9	- 4	i 10	2	PcP	—
Prague	50.5	316	i 9	2	0	e 16	16	0	e 10	55	PP	28.1
Rome	50.9	306	i 9	4 <sub>a</sub>	0	e 16	20	- 1	i 11	4	PP	—
Upsala	51.4	329	i 9	8 <sub>a</sub>	0	i 16	27	- 1	i 11	7	PP	—
Sodankyla	51.6	340	i 9	11	+ 1	i 10	25	PcP	i 14	21	PcS	—
Cheb	51.8	316	i 9	17	+ 5	e 16	36	+ 3	e 11	1	PP	—
Bologna	51.9	309	e 9	16	+ 4	e 16	39	+ 4	—	—	—	e 30.6
Florence	51.9	308	i 9	9 <sub>a</sub>	- 3	i 16	33	- 2	i 11	6	PP	e 30.6
Jena	52.4	317	i 9	17	0	e 16	46	+ 4	e 12	51	PP	—
Copenhagen	52.9	323	i 9	21 <sub>a</sub>	+ 1	i 16	51	+ 3	e 11	23	PP	26.6
Chur	53.3	312	i 9	22 <sub>a</sub>	0	—	—	—	—	—	—	—
Pavia	53.5	310	i 9	24 <sub>a</sub>	0	e 16	49	- 8	e 11	7	PP	—
Stuttgart	53.7	314	i 9	26	0	16	58	- 1	11	34	PP	—
Kiruna	53.8	339	i 9	26 <sub>a</sub>	0	—	—	—	10	32	PcP	—
Hamburg	53.8	320	i 9	27 <sub>a</sub>	0	e 17	0	- 1	e 21	42	SS	e 35.4
Zürich	54.0	312	i 9	27	0	—	—	—	—	—	—	—
Vladivostok	54.2	53	9	29	0	17	5	- 1	—	—	—	—
Karlsruhe	z. 54.2	314	i 9	28 <sub>k</sub>	- 1	—	—	—	—	—	—	—
Strasbourg	54.6	314	i 9	32 <sub>a</sub>	0	e 17	12	+ 1	i 10	43	PcP	—
Monaco	z. 54.7	308	i 9	32	0	i 10	35	PcP	11	36	PP	—
Basle	54.7	313	e 9	33	0	—	—	—	—	—	—	—
Neuchatel	55.1	312	e 9	35	0	e 17	15	- 3	—	—	—	—
Skalstugan	55.1	332	i 9	35 <sub>a</sub>	0	—	—	—	—	—	—	—
Witteveen	z. 55.7	319	i 9	42	+ 1	—	—	—	—	—	—	—
Besançon	55.8	312	e 9	39	- 2	e 17	26	- 2	e 10	38	PcP	—
De Bilt	56.6	318	e 9	47	0	i 17	42	+ 4	e 11	55	PP	—
Kyoto	57.6	62	9	50	- 3	17	49	- 2	—	—	—	—
Clermont-Ferrand	57.7	310	i 9	54 <sub>a</sub>	0	e 17	51	- 2	e 13	26	PPP	—
Paris	58.1	314	i 9	58	0	e 17	53	- 5	i 10	50	PcP	—
Tiksi	58.4	19	e 9	58	- 1	e 17	53	- 9	e 12	7	PP	—
Algiers Univ.	z. 58.4	300	e 9	57	- 3	e 21	30	SS	e 12	6	PP	—
Tamanrasset	58.9	283	i 10	3 <sub>a</sub>	0	e 18	10	+ 2	e 39	20	P'P'	—
Matusiro	59.4	60	i 10	5 <sub>a</sub>	- 1	i 18	6	- 9	12	21	PP	30.0
Kew	60.0	317	i 10	10	0	e 18	23	0	e 12	25	PP	—
Relizane	60.6	299	e 10	11	- 3	e 10	50	PcP	e 12	28	PP	—
Durham	E. 60.7	321	i 10	15 <sub>a</sub>	0	i 18	31	- 1	—	—	—	—
Alicante	61.0	302	10	16	- 1	18	35	0	—	—	—	e 29.4
Aberdeen	61.0	324	i 10	18	0	i 18	38	+ 3	i 12	44	PP	i 34.4
Jersey	E. 61.1	315	e 10	18	0	e 18	37	0	—	—	—	—
Edinburgh	E. 61.6	322	10	22	0	18	41	- 2	12	34	PP	—
Yuzno-Sakhlinsk	61.7	48	i 10	20	- 1	e 18	42	- 2	—	—	—	—
Almeria	62.8	301	i 10	28	- 1	—	—	—	11	6	PcP	—
Pretoria	63.4	222	i 10	34 <sub>a</sub>	0	—	—	—	—	—	—	—
Rathfarnham Castle	63.5	319	i 10	35	0	e 19	25	+18	e 12	32	PP	e 40.6
Toledo	63.5	304	i 10	33 <sub>a</sub>	- 1	e 19	8	+ 1	e 24	17	?	26.6
Granada	63.6	301	i 10	33 <sub>k</sub>	- 1	19	59	+51	13	11	PP	37.5
Pietermaritzburg	z. 65.0	218	i 10	45 <sub>a</sub>	+ 1	—	—	—	—	—	—	—
Magadan	65.5	34	10	47	0	19	31	- 1	—	—	—	—
Lisbon	67.6	304	11	1 <sub>a</sub>	0	—	—	—	i 11	24	PcP	—
Kimberley	z. 67.7	222	i 11	0 <sub>a</sub>	0	—	—	—	—	—	—	—
Scoresby Sund	68.9	339	i 11	9	0	e 20	18	+ 5	e 13	42	PP	32.6
Reykjavik	z. 70.1	332	i 11	17 <sub>a</sub>	+ 1	—	—	—	—	—	—	—
Perth	70.3	140	i 11	24	+ 7	i 20	34	+ 5	i 15	42	PPP	—
Klyuchi	71.3	36	i 11	23	0	e 20	43	+ 2	—	—	—	—
M'Bour	81.7	282	i 12	22	0	e 22	57	+23	e 23	19	ScS	—
Resolute Bay	81.7	356	i 12	21 <sub>a</sub>	0	e 22	21	-13	—	—	—	—
Rabaul	z. 84.5	97	e 12	34	- 1	—	—	—	—	—	—	—
College	87.4	15	e 12	54	+ 4	e 23	16	[- 1]	e 16	14	PP	e 34.8
Mirny	91.3	171	e 13	6	- 2	—	—	—	—	—	—	—
Melbourne	93.0	130	e 13	17	+ 1	—	—	—	e 25	32	PS	—
Brisbane	94.7	118	i 13	24	0	—	—	—	i 16	2	PP	—

Continued on next page.

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	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Riverview	95.8	124	i 17 26	PP	i 24 4	[-32]	i 26 4 PS	e 44.2
Halifax	100.2	328	i 12 54 <sub>a</sub>	-54	—	—	e 17 51 PP	—
Seven Falls	101.5	334	—	—	32 31	SS	e 27 18 PS	—
Shawinigan Falls	102.7	335	e 14 1 <sub>a</sub>	0	—	—	18 6 PP	—
Kirkland Lake z.	103.9	340	—	—	—	—	e 18 16 PP	—
Ottawa	104.8	336	e 18 28	PP	25 46	-14	27 46 PS	—
Palisades	107.7	332	i 18 50	PP	i 25 13	[+11]	i 25 54 SKKS	e 50.2
Fordham	107.9	332	—	—	e 28 23	PS	e 18 58 PP	—
Buffalo (Larkin)	108.1	336	—	—	—	—	e 18 50 PP	—
Seattle	108.5	9	—	—	e 28 22	PS	i 18 58 PP	66.6
Hungry Horse	108.6	3	e 18 15	[-15]	e 18 55	PP	e 29 55 PKKP	—
Cleveland	110.3	338	e 21 35	PPP	e 28 42	PS	e 19 11 PP	—
Butte N.	110.9	2	e 18 37	[+ 2]	i 19 16	PP	e 33 43 SS	e 46.7
Bozeman	111.3	1	i 18 39	[+ 3]	—	—	—	—
Corvallis z.	111.3	10	e 19 13	[+37]	—	—	—	—
Rapid City E.	112.6	355	i 18 41	[+ 2]	—	—	i 19 29 PP	—
Shasta z.	115.2	10	e 18 46	[+ 2]	—	—	—	—
Florissant	115.5	343	e 19 52	PP	e 26 56	{+12}	e 29 23 PS	—
St. Louis	115.6	343	—	—	e 29 41	PS	e 19 54 PP	—
Mineral z.	115.7	10	e 18 51	[+ 6]	—	—	—	—
Salt Lake City	116.2	2	—	—	—	—	e 19 49 PP	—
Boulder	116.8	356	e 18 48	[+ 1]	—	—	i 20 0 PP	—
Eureka	117.3	5	i 18 50	[+ 2]	i 20 9	PP	i 29 13 PKKP	—
Berkeley z.	118.0	11	e 18 50	[+ 1]	—	—	—	—
Lick z.	118.6	11	i 18 53	[+ 3]	—	—	—	—
Fayetteville	119.0	345	18 52 <sub>k</sub>	[+ 1]	—	—	—	—
Tinemaha z.	119.4	8	i 18 55	[+ 3]	e 22 48	PPP	i 20 18 PP	—
Fresno z.	119.5	9	e 18 52	[ 0]	—	—	—	—
China Lake z.	120.7	7	i 18 57	[+ 3]	—	—	i 20 30 PP	—
Boulder City	120.8	5	i 18 56	[+ 1]	i 20 28	PP	e 28 59 PKKP	—
Isabella z.	120.8	8	i 18 55	[ 0]	e 22 56	PPP	e 20 22 PP	—
King Ranch z.	120.9	9	e 18 58	[+ 3]	—	—	—	—
Pasadena z.	122.3	8	i 19 0	[+ 3]	e 20 37	PP	28 57 PKKP	—
Riverside z.	122.6	7	i 19 0	[+ 2]	—	—	—	—
Hayfield N.	123.0	6	i 19 3	[+ 4]	—	—	—	—
Palomar z.	123.2	7	i 19 2	[+ 3]	e 20 35	PP	i 28 52 PKKP	—
Tucson	124.7	1	i 19 5	[+ 3]	—	—	e 20 48 PP	—
Merida	131.7	334	e 25 25	PPP	—	—	e 23 13 SKP	—
Galerazamba	132.0	311	—	—	—	—	i 22 52 SKP	64.6
Vera Cruz	135.6	341	i 17 47	?	—	—	i 23 14 SKP	—
Chinchina	136.2	306	i 19 28	[+ 4]	i 23 7	SKP	i 22 17 PP	64.6
Tacubaya	136.2	345	i 20 30	?	—	—	i 22 25 PP	—
La Paz	140.2	272	i 19 35 <sub>a</sub>	[+ 4]	34 54	PPS	i 22 32 PP	71.6
Huancayo	145.2	283	i 19 43	[+ 3]	—	—	e 22 55 PP	—

July 22d. 3h. 28m. 58s. Epicentre 36°·84N. 26°·30E.

A = +0.7192, B = +0.3554, C = +0.5970;  $\delta = -3$ ;  $h = 0$ ;  
D = +0.443, E = -0.896; G = +0.535, H = +0.264, K = -0.802.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Athens	2.3	300	e 0 41 <sub>k</sub>	- 1*	i 1 14	+ 2*	i 0 46 P <sub>g</sub>	—
Sofia	6.3	340	i 1 35	0	i 3 21	- 7 <sub>g</sub>	i 1 44 P*	—
Bucharest	7.6	359	e 1 57	3	i 4 11	0 <sub>g</sub>	e 3 33 S	—
Taranto	8.0	300	e 2 55	+17 <sub>g</sub>	e 3 52	-12*	—	—
Ksara	8.4	108	e 2 10	+ 5	i 3 42	- 3	e 2 18 PP	e 6.0
Safed	8.5	114	i 2 6 <sub>a</sub>	0	i 3 32	-16	—	—
Messina	8.6	282	e 2 8	0	e 3 46	- 2	—	e 5.4
Jerusalem	8.9	122	i 2 10	- 2	i 3 47	- 8	—	—
Belgrade	9.1	333	e 2 33	P*	e 4 3	+ 3	e 5 4 S <sub>g</sub>	—
Timisoara	9.7	338	3 2?	P <sub>g</sub>	e 5 14	- 6 <sub>g</sub>	—	—
Szeged	10.5	336	—	—	4 15	+22	5 26 S <sub>g</sub>	—
Rome	11.8	300	e 2 52	0	e 5 12	+ 6	i 3 38 ?	7.0
Budapest	11.9	336	e 2 50	- 2	—	—	—	6.1
Triest	12.9	317	e 3 1	- 5	e 5 20	-13	e 3 56 PPP	—
Bratislava	13.2	332	i 3 10	0	—	—	i 3 20 PP	e 7.2

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Florence	z.	13.4	306	e 3 16	+ 2	—	—	—	—
Pavia		15.4	308	—	—	—	—	4 38	?
Prague		15.8	331	e 3 49	+ 5	—	—	i 4 12	PP
Warsaw		15.8	348	e 3 46	+ 1	e 6 51	+ 9	e 8 56	PcP
Monaco	z.	15.9	301	e 3 48	+ 1	—	—	e 4 5	PP
Zürich		16.8	314	e 4 0	+ 2	—	—	—	—
Basle		17.5	314	e 4 9	+ 3	—	—	—	—
Neuchatel		17.6	311	e 4 8	+ 1	—	—	—	—
Jena		17.6	328	e 4 9	+ 1	e 7 41	+ 18	e 4 20	PP
Karlsruhe	z.	17.8	319	e 4 14 <sub>a</sub>	+ 4	—	—	e 4 28	PP
Strasbourg		17.9	317	e 4 14 <sub>a</sub>	+ 2	e 7 40	+ 10	e 4 29	PP
Besançon		18.3	311	e 4 16	0	e 4 48	PPP	i 4 31	PP
Algiers Univ.	z.	18.6	277	e 4 19	0	e 4 44	PPP	e 4 33	PP
Clermont-Ferrand		19.5	304	e 4 31 <sub>a</sub>	0	e 8 25	+ 19	—	—
Hamburg		20.2	331	i 4 37 <sub>k</sub>	- 1	e 8 33	+ 12	—	—
Relizano		20.8	275	e 4 36	- 8	—	—	e 4 57	PP
Copenhagen		21.1	338	e 4 48	0	e 8 49	+ 10	e 5 5	PP
Paris		21.1	312	i 4 48	0	e 8 44	+ 5	e 5 21	PPP
De Bilt		21.3	322	e 4 52	+ 2	e 9 2 <sub>?</sub>	+ 19	—	—
Tamoussset	z.	22.8	238	e 5 7	+ 2	e 9 13	0	—	—
Upsala		23.7	349	i 5 12	- 1	e 9 31	+ 4	—	—
Granada		23.8	280	5 32 <sub>k</sub>	+ 17	—	—	6 23	?
Kew		23.9	316	i 5 16	+ 1	e 9 38	+ 8	—	—
Toledo	z.	23.9	287	e 5 17	+ 1	9 40	+ 10	—	—
Durham	N.	26.2	322	5 31	- 5	—	—	—	—
Rathfarnham C.	z.	28.0	316	e 5 57	+ 3	—	—	e 6 37	PP
Skalstugan		28.1	347	i 5 53 <sub>k</sub>	- 1	—	—	—	—
Sodankyla		30.6	0	i 6 16	0	—	—	i 7 11	PP
Kiruna		31.2	356	i 6 22	0	e 11 29	0	—	—
Quetta	z.	34.3	89	e 6 49 <sub>k</sub>	0	—	—	—	—
Lwiro		39.0	176	e 7 31 <sub>k</sub>	+ 2	—	—	e 7 39	pP
Astrida		39.4	175	e 7 33	+ 1	—	—	—	—
Scoresby Sund	z.	42.1	338	e 7 55	0	—	—	—	—
Shawinigan Falls		69.8	313	e 11 13 <sub>k</sub>	0	—	—	—	—
Brébeuf		70.9	313	i 11 23 <sub>a</sub>	+ 3	—	—	—	—
Ottawa		72.2	314	e 11 28	0	—	—	—	—
Kirkland Lake	z.	73.0	318	e 11 31	- 1	—	—	—	—
College		78.5	357	e 12 3	0	—	—	—	—
Matusiro		83.5	49	12 30	0	—	—	—	—
Rapid City	E.	87.4	326	i 12 49	0	—	—	—	—
Hungry Horse		88.1	335	i 12 52	0	—	—	—	—
Fayetteville		88.8	316	i 12 56	- 1	—	—	—	—
Bozeman		89.3	332	i 12 59	0	—	—	—	—
Butte	N.	89.6	333	e 13 0	0	—	—	—	—
Boulder		91.5	325	i 13 9	- 1	—	—	—	—
Eureka		96.5	332	i 13 32	0	—	—	—	—
Tucson		100.4	324	e 13 50	0	—	—	—	—
Isabella	z.	100.8	331	e 13 51	0	—	—	—	—

July 22d. 9h. 25m. 11s. Epicentre 19°·23S. 69°·49W. Depth of focus = 0.010R.

A = +0.3310, B = -0.8850, C = -0.3274;  $\delta$  = -2;  $h$  = +5;  
D = -0.937, E = -0.350; G = -0.115, H = +0.307, K = -0.945.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
La Paz		3.0	26	i 0 51	+ 4	i 1 27	+ 5	1 49	?
Antofagasta		4.5	191	e 1 4	- 2	2 10	+ 11	i 1 32	—
Copiapó	E.	8.1	185	e 1 59	+ 2	3 17	+ 10	i 2 12	PPP
Huancayo		9.1	321	e 2 10	0	e 3 59	+ 7	—	—
Santa Lucia	N.	14.2	184	e 3 17	0	6 13	+ 20	3 44	PP
La Plata		18.7	149	—	—	—	—	3 31	?
Bogotá		24.1	349	i 5 9	+ 1	i 9 21	+ 6	—	—
Chiuchina		24.8	345	i 5 14	0	i 9 29	+ 2	i 5 57	PP
Galerazamba		30.4	349	—	—	i 11 0	+ 3	—	—
Trinidad		30.7	16	e 6 8	0	—	—	—	—

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.		
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	m.	
St. Vincent		33.2	15	i 6 27	- 2	—	—	—	—	—	
Barbados		33.6	18	e 6 35	+ 2	—	—	—	—	—	
Fort de France		34.7	14	e 6 39	- 3	—	—	—	—	—	
San Juan		37.5	5	i 7 3	- 3	e 12 39	- 8	i 7 40	SP	e 15.5	
Merida		44.5	333	—	—	e 15 7	PS	9 52	PP	—	
Vera Cruz		46.3	324	—	—	e 15 1	+ 5	e 10 5	PP	—	
Tacubaya		48.2	321	i 8 38	+ 5	—	—	e 9 18	sP	—	
Columbia		54.1	348	i 9 16	0	i 16 32	-12	i 9 40	pP	e 23.5	
Fayetteville		59.8	337	i 9 56	- 1	e 17 57	- 2	e 10 20	pP	—	
Palisades		60.1	356	i 9 58	- 1	i 18 0	- 3	i 18 38	PPS	e 28.1	
M'Bour		61.6	61	i 10 7	- 2	—	—	e 10 35	pP	—	
Buffalo (Larkin)		62.4	352	i 10 13	- 1	—	—	i 10 37	pP	—	
Halifax		63.8	5	i 10 23 <sub>k</sub>	0	—	—	i 10 48	pP	—	
Brébeuf		64.5	357	i 10 28 <sub>k</sub>	0	18 58	0	10 42	pP	—	
Ottawa		64.6	355	i 10 28 <sub>a</sub>	0	e 18 57	- 3	i 10 52	pP	—	
Tucson		64.7	322	e 10 31	+ 1	—	—	—	—	—	
Shawinigan Falls		65.5	358	e 10 33 <sub>a</sub>	- 2	—	—	10 58	pP	—	
Kirkland Lake	z.	67.7	352	e 10 48 <sub>a</sub>	- 1	—	—	e 11 13	pP	—	
Boulder		67.8	331	i 10 50	0	—	—	—	—	—	
Hayfield	n.	68.6	320	i 10 56	+ 1	i 11 35	sP	i 11 24	pP	—	
Palomar	z.	69.1	319	i 10 59	+ 1	i 11 35	sP	i 11 23	pP	—	
Riverside	z.	69.9	319	i 11 2 <sub>a</sub>	0	i 11 39	sP	i 11 29	pP	—	
Rapid City	E.	70.2	335	i 11 5 <sub>a</sub>	+ 1	—	—	e 11 34	pP	—	
Pasadena		70.5	319	i 11 7 <sub>a</sub>	+ 1	20 16	+ 6	i 11 35	pP	—	
China Lake	z.	71.2	320	i 11 12	+ 1	i 11 46	sP	i 11 36	pP	—	
Salt Lake City		71.5	327	e 11 13	+ 1	—	—	i 11 38	pP	—	
Isabella	z.	71.6	320	i 11 14	+ 1	i 11 51	sP	i 11 39	pP	—	
King Ranch	z.	72.2	319	i 11 18	+ 1	11 57	sP	11 43	pP	—	
Tinemaha		72.4	321	i 11 19	+ 1	i 20 38	+ 6	i 11 45	pP	—	
Eureka		72.8	324	i 11 21	+ 1	i 12 10	sP	i 11 47	pP	—	
Fresno	z.	73.2	320	e 11 16	- 5	—	—	—	—	—	
Lick	z.	74.7	319	e 11 33	+ 2	—	—	e 11 57	pP	—	
Bozeman		74.8	331	i 11 32	0	—	—	i 11 58	pP	—	
Berkeley		75.4	319	e 11 36	+ 1	e 21 12	+ 7	e 12 0	pP	—	
Butte	n.	75.8	331	i 11 38	+ 1	—	—	i 12 4	pP	—	
Mineral	z.	76.6	322	e 11 41	0	—	—	e 12 1	pP	—	
Shasta	z.	77.2	322	e 11 45	0	—	—	e 12 10	pP	—	
Hungry Horse		78.2	331	e 11 51	+ 1	—	—	e 12 17	pP	—	
Corvallis	z.	80.2	324	e 12 2	0	—	—	e 12 30	pP	—	
Lisbon	z.	80.7	44	e 12 32 <sub>a</sub>	pP	—	—	—	—	—	
Seattle		81.7	327	e 12 9	0	e 22 7	- 5	—	—	—	
Victoria		82.8	327	e 12 15 <sub>a</sub>	0	—	—	e 12 42	pP	—	
Granada		83.6	47	e 12 46 <sub>a</sub>	pP	—	—	—	—	—	
Tamanrasset	z.	84.3	64	i 12 22 <sub>a</sub>	0	—	—	12 49	pP	—	
Grahamstown	z.	84.5	123	i 12 25	+ 1	—	—	—	—	—	
Kimberley	z.	84.6	118	i 12 25 <sub>a</sub>	+ 1	—	—	—	—	—	
Toledo		84.7	45	e 12 25	+ 1	e 22 41	- 1	i 12 52	pP	—	
Relizane		85.9	50	e 12 31	+ 1	e 15 33	PP	e 12 58	pP	—	
Algiers Univ.	z.	88.1	50	e 12 43	+ 2	e 22 50	[- 8]	e 13 8	pP	—	
Rathfarnham C.	z.	90.4	32	i 12 55 <sub>k</sub>	+ 3	i 16 31	PP	i 13 16	pP	—	
Clermont-Ferrand		92.1	42	e 13 3	+ 3	e 23 29	[+ 8]	13 26	pP	—	
Kew		92.6	36	—	—	e 24 11	+16	i 16 42	PP	—	
Paris		93.0	39	e 16 46	PP	—	—	—	—	—	
Resolute Bay		95.1	353	—	—	23 38	[ 0]	e 23 18	?	—	
Strasbourg		96.1	41	e 16 55	PP	e 26 31	PPS	e 17 25	PPP	—	
Florence X.		96.6	46	e 13 43	pP	—	—	e 17 9	PP	—	
Rome		96.8	48	—	—	e 23 52	[+ 4]	e 17 17	PP	—	
Uvira		97.0	96	—	—	—	—	e 17 22	PP	—	
Lwiro		97.1	95	—	—	e 27 7	PPS	e 16 30	PP	—	
Messina	E.	97.9	52	—	—	e 23 54	[+ 1]	e 26 5	PS	—	

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Jena	z.	99.2	39	e 13 22	- 9	—	—	13 46	pP	—
Taranto		99.8	51	—	—	—	—	21 49	?	—
College		102.4	335	e 14 6	+20	—	—	e 17 58	PP	—
Skalstugan		103.4	27	—	—	—	—	i 18 4	PP	—
Bucharest	E.	107.1	48	—	—	e 24 42	[+ 6]	e 25 29	sS	—
Kiruna		107.7	24	—	—	e 24 44	[+ 5]	e 18 35	PP	—
Ksara		113.0	61	—	—	e 29 1	PS	e 19 17	PP	—
Rabaul		132.9	245	e 19 6	[+ 2]	—	—	e 20 7	PP	—
Quetta	E.	139.2	66	e 19 15	[ 0]	—	—	e 22 13	PP	—
Poona		145.4	85	—	—	—	—	i 19 56	PKP <sub>2</sub>	—
Dehra Dun		148.6	63	—	—	—	—	e 19 50	PKP <sub>2</sub>	—
Matusiro		150.2	311	19 37	[+ 2]	42 25	SS	e 23 24	PP	—
Lembang	z.	154.0	174	e 19 29	[-10]	—	—	—	—	—
Shillong		161.7	66	e 19 51	[+ 2]	—	—	—	—	—

July 23d. 19h. 26m. 1s. Epicentre 23°·65S. 112°·07W.

A = -0.3445, B = -0.8498, C = -0.3989;  $\delta$  = -4;  $h$  = +4;  
D = -0.927, E = +0.376; G = +0.150, H = +0.370, K = -0.917.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Huancayo		36.7	78	e 7 8	- 1	e 13 10	0	e 15 2	Q	16.9
Santa Lucia	N.	37.4	115	e 7 37	+21	e 13 47	+27	e 8 34	PP	e 15.7
Antofagasta	N.	38.0	99	e 8 45	PP	e 13 14	-15	—	—	e 16.0
La Paz		41.8	89	i 7 47	- 4	i 14 14	+ 3	i 9 33	PP	19.8
Comitan		44.2	28	e 8 35	+23	e 14 19	-27	e 10 39	PPP	e 23.1
Tacubaya		44.6	17	i 8 22k	+ 7	e 15 5	+13	e 9 55	PcP	e 21.7
Guadalajara		44.9	12	8 27	+ 9	e 14 44	-12	e 16 20	?	e 22.6
Vera Cruz		45.3	21	i 8 15	- 5	e 15 0	- 2	—	—	21.9
Chinchina		45.5	56	i 8 26	+ 3	i 15 9	+ 4	—	—	20.0
Bogota		46.5	58	e 8 33	+ 3	i 15 22	+ 3	i 12 23	?	—
Buenos Aires		47.6	116	8 40	+ 1	15 36	+ 1	—	—	—
Merida		49.4	28	e 8 47	- 5	15 35	-25	e 11 26	PPP	21.3
Galerazamba		49.6	51	i 9 1	+ 6	—	—	—	—	21.0
Chihuahua		52.3	7	—	—	e 17 5	+25	e 21 5	—	e 29.9
Tucson		55.6	1	e 9 40k	+ 1	e 17 34	+ 9	—	—	e 26.2
Barratt		56.2	355	i 9 44	0	i 17 42	+ 9	—	—	—
Palomar	z.	56.9	355	e 9 48	0	—	—	—	—	—
Hayfield	N.	57.1	356	e 9 52	+ 2	17 58	+13	—	—	—
Riverside		57.5	355	i 9 54	+ 1	e 18 1	+11	i 10 1	—	—
Pasadena		57.8	354	i 9 56	+ 1	i 18 1	+ 7	i 12 28	PP	—
King Ranch	z.	59.1	353	e 10 5	+ 1	—	—	—	—	—
Isabella	z.	59.3	354	e 10 5	0	—	—	—	—	—
Boulder City		59.4	357	e 10 6?	0	—	—	—	—	—
China Lake	z.	59.4	355	e 10 6	0	—	—	—	—	—
Hawaii, V. Ob.		60.1	312	e 10 10	0	—	—	—	—	—
Fresno	z.	60.5	353	e 10 13	0	—	—	—	—	—
Tinemaha	z.	60.7	354	e 10 16	+ 1	—	—	—	—	—
San Juan		61.3	51	e 10 22	+ 3	e 18 37	- 2	e 12 43	PP	e 25.7
Lick	z.	61.3	351	e 10 20	+ 1	—	—	—	—	—
Santa Clara		61.4	351	—	—	e 18 37	- 3	—	—	—
Fayetteville		61.8	16	i 10 21k	0	e 19 11	+25	—	—	—
Berkeley		61.9	351	e 10 26	+ 2	e 18 54	+ 7	—	—	e 29.2
Wellington	z.	62.5	234	e 10 23	- 3	—	—	e 12 35	PP	e 28.0
Fort de France		62.7	58	e 10 21	- 7	e 18 59	+ 2	—	—	e 27.0
Eureka		62.9	357	e 10 28a	- 1	—	—	i 11 11	PcP	—
Honolulu		63.3	311	i 10 30	- 1	e 19 17	+13	—	—	e 26.8
Ukiah		63.3	350	e 10 30	- 2	—	—	—	—	29.0
Christchurch		63.7	232	e 10 39	+ 4	e 19 13	+ 3	26 27	Q	e 30.0
Salt Lake City		64.1	0	e 10 38k	0	e 19 24	+10	e 13 13	PP	e 28.9
Mineral	z.	64.3	352	e 10 41	+ 2	—	—	—	—	—

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Columbia		64.5	28	e 10 39 <sup>k</sup>	0	i 19 23	+ 4	e 19 37	PS	e 27.1
Shasta	z.	64.7	351	e 10 42	0	—	—	—	—	—
St. Louis		65.3	19	e 10 41	- 3	e 19 31	+ 2	e 23 39	SS	—
Florissant		65.4	18	e 10 47	+ 1	e 20 52	?	—	—	—
Rapid City	E.	67.9	7	e 11 2 <sup>a</sup>	0	e 20 9	+ 8	e 24 19	SS	—
Corvallis	z.	68.7	351	e 11 8	+ 1	—	—	—	—	—
Chicago, C.G.S.		68.9	19	e 11 6	- 2	e 20 14	+ 1	e 25 54	SS	e 28.6
Bozeman		69.0	1	e 11 14	+ 5	e 20 16	+ 2	e 25 4	SS	e 31.1
Butte	N.	69.3	0	e 11 10 <sup>a</sup>	0	e 20 18	+ 1	i 21 15	ScS	e 29.3
Washington	z.	70.3	28	e 11 16 <sup>k</sup>	0	—	—	—	—	—
Cleveland		70.7	24	e 11 19	0	e 20 27	- 7	—	—	—
Seattle		71.6	353	11 31	+ 7	i 20 55	+11	e 12 17	?	35.6
Hungry Horse		71.7	359	e 11 24 <sup>a</sup>	0	—	—	—	—	—
Duluth		72.4	14	i 11 27	- 2	e 20 59	+ 6	—	—	—
Victoria		72.6	352	e 11 31	+ 1	e 20 1	-55	—	—	e 34.3
Fordham		73.3	29	e 11 27	- 7	e 21 3	- 6	—	—	—
Palisades		73.4	29	i 11 32	- 3	i 21 8	+ 3	e 14 19	PP	e 35.2
Ottawa		76.3	26	e 11 53	+ 1	21 41	+ 4	23 1	PPS	—
Kirkland Lake	z.	77.0	21	e 11 56 <sup>a</sup>	0	—	—	—	—	—
Brébeuf		77.2	27	e 11 59	+ 2	—	—	i 12 9	pP	—
Shawinigan Falls		78.4	26	e 12 4	0	—	—	15 12	PP	—
Seven Falls		79.7	27	e 12 12 <sup>k</sup>	+ 2	i 22 17	+ 4	—	—	—
Riverview		82.5	236	i 12 28 <sup>k</sup>	+ 3	i 22 42	0	e 15 44	PP	e 38.9
Sitka		82.7	347	e 12 30	+ 3	—	—	—	—	—
Melbourne		85.4	231	e 12 35	- 4	e 23 9	- 2	e 15 45	PP	e 34.9
Mirny		88.1	190	e 12 59	+ 6	e 23 39	+ 2	e 23 29	SKS	—
College		92.5	346	e 13 9	- 4	e 23 52	[+ 5]	e 25 32	PPS	—
Klyuchi		107.8	324	—	—	—	—	e 19 3	PP	—
Scoresby Sund		112.1	21	—	—	e 28 53	PS	e 19 14	PP	53.0
Magadan		113.7	326	—	—	—	—	e 19 55	PP	—
Rathfarnham C.	z.	118.0	40	i 19 15 <sup>k</sup>	[+26]	—	—	i 21 19	PPP	—
Toledo		118.2	56	19 34	[+45]	—	—	—	—	59.2
Matusiro		119.0	300	e 19 23	[+32]	—	—	36 41	SS	53.2
Aberdeen		120.3	36	—	—	—	—	23 29	PPP	e 51.3
Durham	E.	120.7	39	18 31	[-22]	35 34	SS	20 9	PP	—
Tiksi		121.3	341	e 20 27	PP	—	—	e 22 27	PKS	—
Kew		121.6	43	—	—	—	—	e 37 4	SS	e 51.0
Tamanrasset		123.1	77	e 18 59	[+ 1]	e 27 40	{+ 5}	e 20 40	PP	—
Algiers Univ.	z.	123.4	60	e 19 12	[+13]	e 36 22	SS	19 26	?	—
Paris		123.4	46	e 18 59	[ 0]	e 30 43	PS	e 20 43	PP	—
Clermont-Ferrand		123.9	50	e 23 58	PPP	e 27 44	{+ 4}	—	—	—
Vladivostok		124.5	307	—	—	26 11	[+ 7]	—	—	—
De Bilt		125.0	42	—	—	e 37 59	SS	e 20 41	PP	e 52.0
Skalstugan		126.0	27	i 19 10	[+ 6]	—	—	21 10	PP	—
Strasbourg		127.0	46	e 19 16	[+10]	e 37 47	SS	21 25	PP	—
Kiruna		121.2	21	i 19 11	[+ 5]	e 22 28	PKS	i 21 8	PP	—
Hamburg		127.6	40	e 19 36	[+29]	e 22 46	PKS	e 21 37	PP	e 70.0
Pavia		128.2	50	e 19 24	PP	e 29 8	PKKP	—	—	—
Copenhagen		128.5	37	—	—	e 42 41	SSS	e 22 35	PPP	56.0
Florence X.		129.8	52	e 19 11	[ 0]	—	—	38 59	SS	—
Upsala		129.8	30	—	—	e 22 43	PKS	i 21 13	PP	—
Rome		130.8	54	e 19 12	[ 0]	e 22 42	PKS	e 21 49	SKP	—
Lembang	z.	130.8	237	e 19 19	[+ 6]	—	—	—	—	—
Prague		131.0	43	e 19 12	[- 1]	e 27 38	{-48}	e 22 43	PKS	—
Triest		131.4	49	e 19 9	[- 4]	28 20	{- 9}	i 22 44	PKS	—
Zô-Sè		132.5	291	e 19 23	[+ 7]	—	—	—	—	—
Bratislava		133.2	45	e 19 19	[+ 1]	e 26 16	[-12]	e 23 19	PKS	—
Messina		133.4	59	e 20 4	?	e 40 26	SSP	e 21 50	PP	—
Uvira		133.6	120	e 19 20	[+ 2]	—	—	e 22 2	PP	—
Lwiro		134.0	119	e 19 23	[+ 4]	—	—	e 21 49	PP	—

Continued on next page.

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	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Warsaw	134.4	39	e 19 24	[+ 4]	i 29 10	{+23}	e 22 1	PP e 66.0
Taranto	134.5	56	e 19 29	[+ 9]	—	—	e 21 29	PP
Astrida	134.6	120	e 19 19	[ 0]	—	—	e 21 59	—
Nanking	134.6	292	e 19 30	[+10]	—	—	—	—
Pulkovo	135.4	26	e 19 27	[+ 5]	—	—	25 9	PPP
Peking	136.4	304	19 35 <sup>k</sup>	[+11]	—	—	—	—
Lwow	137.0	41	e 19 29	[+ 4]	i 23 4	PKS	e 22 27	PP
Athens	139.8	59	—	—	e 23 5	PKS	—	—
Bucharest	140.2	48	e 19 37	[+ 7]	e 23 14	PKS	e 25 21	PPP 67.0
Iasi	140.2	44	e 19 37	[+ 7]	—	—	—	—
Irkutsk	140.2	325	e 19 32	[+ 1]	—	—	23 5	PKS
Moscow	141.0	27	e 19 34	[+ 2]	e 26 30	[-11]	e 22 36	PP
Sian	142.8	296	e 19 53	[+18]	—	—	—	—
Simferopol	145.3	44	e 19 39	[ 0]	e 26 49	[+ 2]	21 39	?
Sverdlovsk	146.4	7	e 19 42	[+ 1]	42 14	SS	33 24	SKSP
Jerusalem	150.0	67	i 19 49	[+ 2]	—	—	i 21 43	—
Safed	150.1	65	i 19 50	[+ 3]	—	—	—	—
Ksara	150.2	63	i 19 52	[+ 5]	35 59	PPS	i 23 32	PP 80.0
Sempalatinsk	151.6	343	e 19 55	[+ 6]	—	—	—	—
Goris	155.8	44	e 20 2	[+ 7]	—	—	e 24 16	PP
Frunse	160.0	346	e 20 4	[+ 4]	—	—	—	—
Tashkent	162.3	357	e 20 10	[+ 7]	—	—	e 23 49	PKS
Ashkabad	163.6	28	20 11	[+ 7]	—	—	i 24 57	PP
Stalinabad	165.1	357	e 20 6	[ 0]	—	—	e 24 55	PP
Poona	z. 172.5	228	e 20 0	[-11]	—	—	—	—
Bombay	N. 173.4	225	e 23 5	PP	—	—	—	e 95.4
Quetta	173.4	8	e 20 18 <sup>a</sup>	[+ 7]	27 58	[+45]	47 17	SS

July 24d. 13h. 0m. 18s. Epicentre 30°·51N. 138°·59E. Depth of focus = 0.066R.

A = -0.6473, B = +0.5709, C = +0.5051;  $\delta$  = +5; h = +2;  
D = +0.661, E = +0.750; G = -0.379, H = +0.334, K = -0.863

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Hatidyozima	2.8	22	e 1 6	0	1 57	+ 1	—	—
Siomisaki	3.8	322	e 1 15	0	e 2 12	0	2 28	?
Owase	4.1	331	1 17	0	2 18	+ 2	—	—
Omaesaki	4.1	356	i 1 21	+ 4	i 2 22	+ 6	—	—
Osima	E. 4.3	9	i 1 19	0	e 2 18	- 2	e 2 58	?
Shizuoka	4.5	358	1 21	0	i 2 24	0	—	—
Mera	4.5	13	i 1 20	0	i 2 23	- 1	—	—
Ajiro	4.6	5	e 1 21	0	e 2 24	- 1	—	—
Tu	4.6	338	1 22	0	2 27	+ 2	—	—
Misima	4.6	4	i 1 21	0	e 2 22	- 3	—	—
Kameyama	4.7	338	1 24	+ 1	i 2 30	+ 4	—	—
Nara	4.8	332	i 1 25	+ 1	i 2 29	+ 1	—	—
Nagoya	4.8	344	1 26	+ 2	i 2 32	+ 4	—	—
Osaka	4.9	329	e 1 25	0	e 2 34	+ 4	—	—
Tokusima	4.9	317	e 1 26	+ 1	e 2 33	+ 3	—	—
Sumoto	5.0	322	i 1 26	+ 1	i 2 34	+ 2	—	—
Hunatu	5.0	2	1 26	+ 1	i 2 32	0	—	—
Yokohama	5.0	10	1 24	- 1	2 32	0	—	—
Iida	5.0	353	i 1 29	+ 3	i 2 34	+ 2	—	—
Kobe	5.1	326	e 1 27	+ 1	i 2 35	+ 1	—	—
Kyoto	5.1	333	1 27 <sup>a</sup>	0	2 35	+ 1	—	—
Kohu	5.1	0	i 1 28 <sup>k</sup>	+ 1	e 2 34	0	—	—
Gihu	5.1	343	e 1 27	0	e 2 34	0	—	—
Hikone	5.1	338	i 1 30 <sup>a</sup>	+ 3	2 37	+ 3	—	—
Tokyo, C.M.O.	5.2	10	1 27 <sup>k</sup>	0	e 2 34	- 1	—	—
Koti	5.3	306	e 1 29	+ 1	e 2 36	- 1	—	—
Simidu	5.3	297	e 1 26	- 2	e 2 38	+ 1	—	—
Himeji	5.3	320	—	—	i 2 42	+ 5	2 34	?
Takamatu	5.4	316	i 1 30	0	i 2 42	+ 3	—	—
Titibu	5.5	4	i 1 30	0	e 2 39	- 2	—	—

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Tyosi	E.	5.5	19	e 1 30	0	i 2 41	0	—	—
Tsuruga	N.	5.6	338	1 33	+ 2	i 2 45	+ 3	—	—
Kumagaya		5.7	6	e 1 31	0	2 43	- 1	—	—
Matumoto		5.8	355	1 34	+ 1	2 46	0	—	—
Oiwake		5.8	0	e 1 32	- 1	e 2 44	- 2	—	—
Tukubasan		5.8	12	i 1 31	- 2	i 2 38	- 8	—	—
Hukui		5.9	341	e 1 36	+ 2	i 2 50	+ 2	—	—
Kakioka	E.	5.9	13	1 33	0	2 45	- 3	—	—
Macbasi		5.9	4	i 1 31 <sup>k</sup>	- 3	e 2 47	- 1	e 2 11	—
Toyooka		5.9	329	e 1 34	0	e 2 45	- 3	—	—
Matuyama	N.	6.0	305	e 1 36	+ 1	e 2 51	+ 1	—	—
Matusiro		6.0	357	i 1 35 <sup>a</sup>	0	i 2 49	- 1	7 36	PcP
Mito		6.1	14	1 35	0	2 48	- 4	—	—
Utunomiya	N.	6.1	10	e 1 35	- 1	e 2 48	- 4	—	—
Nagano	N.	6.2	357	1 36	0	2 52	- 2	—	—
Kanazawa		6.2	345	e 1 37	0	—	—	—	—
Toyama		6.3	350	e 1 40	+ 1	2 58	+ 2	—	—
Miyazaki		6.3	285	—	—	e 2 54	- 2	—	—
Hirosima		6.5	308	e 1 40	0	e 2 54	- 6	i 3 2	S
Takada		6.6	358	1 43	+ 1	e 2 58	- 4	—	—
Onahama		6.7	16	e 1 42	0	i 3 2	- 1	—	—
Shirakawa		6.7	11	i 1 42	- 1	i 3 0	- 3	—	—
Matsue		6.8	318	1 44	0	3 7	+ 1	—	—
Kagosima		7.0	281	e 1 47	+ 1	e 3 11	+ 1	—	—
Yakusima		7.0	272	e 1 46	0	i 3 10	0	—	—
Wazima		7.0	349	e 1 51	+ 5	e 3 8	- 2	—	—
Kumamoto		7.1	291	e 1 49	+ 1	3 13	+ 1	—	—
Simonoseki		7.3	300	—	—	3 16	0	—	—
Hokusima		7.4	12	1 52	+ 1	3 15	- 2	—	—
Niigata		7.4	3	e 1 52	+ 1	3 16	- 1	—	—
Aikawa		7.5	358	1 52	0	3 16	- 3	—	—
Saga		7.6	293	e 2 1	+ 8	i 3 24	+ 3	—	—
Hukuoka		7.6	296	e 1 56	+ 3	3 24	+ 3	—	—
Yamagata		7.9	10	e 1 54	- 1	3 26	- 1	—	—
Sendai		8.0	13	1 55	- 1	3 24	- 5	—	—
Isinomaki		8.2	15	e 2 0 <sup>k</sup>	0	e 3 30	- 3	—	—
Sakata		8.4	7	e 2 6	+ 5	e 3 30	- 7	—	—
Mizusawa		8.8	13	2 7	0	3 45	0	—	—
Akita		9.3	7	i 2 12	+ 1	3 57	+ 3	—	—
Morioka		9.4	12	e 2 13	0	i 3 58	+ 1	—	—
Miyako		9.5	16	e 2 14	0	e 3 58	- 1	—	—
Hatinohe		10.3	13	e 2 22 <sup>a</sup>	0	i 4 14	- 1	—	—
Aomori		10.4	9	2 24	0	4 22	+ 4	—	—
Hakodate		11.4	8	—	—	—	—	e 2 50	PP
Mori	N.	11.7	7	2 39	+ 1	i 4 45	+ 1	e 3 33	?
Muroran		12.0	8	e 2 40	0	e 4 49	- 1	—	—
Urakawa		12.1	15	e 2 43	+ 1	i 4 54	+ 2	—	—
Tomakomai		12.2	10	e 2 50	+ 7	—	—	—	—
Suttsu		12.3	6	—	—	e 4 55	- 1	—	—
Sapporo		12.7	9	i 2 48 <sup>a</sup>	0	e 5 3	- 1	—	—
Obihiro	N.	12.9	15	e 3 1	+12	e 5 16	+10	—	—
Kusiro		13.3	19	e 2 54	0	i 5 18	+ 1	—	—
Asahigawa		13.6	12	e 3 2	+ 4	—	—	—	—
Nemuro		14.0	22	e 3 2	0	e 5 31	+ 2	—	—
Abashiri		14.2	17	e 3 6	+ 1	5 39	+ 7	—	—
Zô-Sô		15.0	277	e 3 8	- 4	5 44	- 4	—	—
Wakkanai	E.	15.1	8	—	—	i 5 55	+ 5	—	—
Taipei		16.1	254	e 3 22	0	6 4	- 4	—	—
Changchun		17.0	325	3 33	0	6 29	+ 4	—	—
Nanking		17.0	280	3 29 <sup>a</sup>	- 3	6 22	- 3	—	—
Hsinkong		17.0	248	e 3 48	+15	6 38	+13	—	—
Guam		17.9	160	i 3 41	0	—	—	—	—
Peking		20.6	304	i 4 5 <sup>a</sup>	- 2	—	—	—	—
Manila		22.7	230	i 4 22	- 4	(e 11 58)	L	—	e 12.0
Hong Kong		23.3	255	—	—	e 8 8	- 4	—	—

Continued on next page.



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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Sian		25.3	286	—	—	8 42	- 2	—	—
Shillong	z.	41.3	275	i 6 3	-62	—	—	—	—
Dehra Dun		51.6	286	—	—	e 15 7	- 5	—	—
College		55.9	30	i 8 54	- 1	—	—	—	—
Quetta		60.8	290	i 9 26k	- 2	e 17 6	- 5	—	—
Sitka		62.9	38	e 9 43	0	—	—	—	—
Riverview		65.1	168	i 9 58a	+ 7	i 17 58	+ 5	—	—
Resolute Bay		69.5	13	i 10 22a	- 1	—	—	—	—
Kiruna		71.8	339	i 10 35a	- 1	i 19 19	- 2	13 20	PP
Victoria		72.7	44	i 10 43a	0	—	—	—	—
Corvallis	z.	74.6	47	e 10 55	+ 2	—	—	—	—
Shasta	z.	77.0	50	i 11 6	0	—	—	e 12 43	pP
Skalstugan		77.1	338	i 11 5	- 1	—	—	i 14 5	PP
Mineral	z.	77.7	50	—	—	—	—	e 11 51	—
Upsala		77.8	334	i 11 8a	- 2	i 20 20	- 6	i 14 12	PP
Hungry Horse		78.2	41	e 11 14	+ 1	—	—	e 12 55	pP
Scoresby Sund	z.	78.3	353	i 11 14	0	—	—	—	—
Berkeley	z.	78.5	53	i 11 15a	0	—	—	i 12 54	pP
Lick	z.	79.2	53	e 11 19a	+ 1	—	—	e 12 58	pP
Reno	z.	79.3	50	e 11 19	0	—	—	—	—
Butte	N.	80.3	42	i 11 23	0	—	—	i 12 59	pP
Fresno	z.	80.7	53	e 11 27	+ 1	—	—	—	—
Bozeman		81.4	42	i 11 30	0	—	—	—	—
King Ranch	z.	81.5	54	i 11 38	+ 8	—	—	e 13 18	pP
Tinemaha	z.	81.6	52	i 11 31	0	—	—	e 13 13	pP
Eureka		81.8	49	i 11 32	0	i 14 6	sP	e 13 18	pP
Isabella	z.	82.2	53	i 11 33	0	—	—	i 13 16	pP
China Lake		82.7	53	i 11 38	+ 4	—	—	i 13 21	pP
Pasadena		83.2	54	i 11 39	0	—	—	e 13 21	pP
Bucharest		83.4	318	—	—	e 21 18	- 6	—	—
Salt Lake City		83.7	46	e 11 42	0	—	—	e 13 23	pP
Riverside	z.	83.8	54	i 11 43	+ 1	—	—	13 25	pP
Boulder City		84.5	51	i 11 47?	+ 2	—	—	—	—
Palomar	z.	84.6	54	i 11 47	+ 1	—	—	13 28	pP
Jerusalem		84.6	304	i 11 44	- 1	—	—	—	—
Barrett	z.	85.0	55	i 11 48	0	—	—	i 13 31	pP
Hayfield	N.	85.2	54	i 11 49	0	—	—	e 13 31	pP
Prague		85.8	328	i 11 51	0	—	—	—	—
Rapid City	E.	86.8	40	i 11 57	+ 1	e 21 58	+ 2	—	—
Boulder		88.2	44	e 12 4	+ 1	—	—	—	—
Strasbourg		89.8	330	e 12 10	0	—	—	—	—
Rathfarnham C.	z.	91.1	340	i 12 16a	0	—	—	—	—
Paris		91.8	333	i 12 20	0	—	—	—	—
Fayetteville		97.3	41	i 12 45	0	—	—	—	—
Huancayo		143.6	67	i 18 44	[+ 1]	—	—	—	—

July 24d. 18h. 56m. 47s. Epicentre  $1^{\circ}90'N$ .  $126^{\circ}62'E$ . Depth of focus = 0.009R.

A = -0.5962, B = +0.8021, C = +0.0330;  $\delta = -9$ ;  $h = +7$ ;  
D = +0.803, E = +0.597; G = -0.020, H = +0.026, K = -0.999.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Manila		13.8	336	i 3 14	+ 1	i 5 51	+ 7	—	—
Baguio City		15.6	338	i 3 39	+ 3	i 6 32	+ 6	—	—
Lembang		20.9	245	i 4 34a	- 2	e 8 26	+ 7	e 4 58	PP
Bandung		20.9	245	e 4 34	- 2	e 8 26	+ 7	e 9 2	SS
Guam		21.3	56	4 39	- 1	—	—	—	—
Djakarta		21.3	248	e 4 44	+ 3	i 8 44	+18	e 9 19	SS
Hong Kong		23.6	330	e 5 1	- 2	e 9 8	+ 1	—	—
Canton		24.7	329	5 12a	- 1	9 26	+ 1	—	—
Rabaul	z.	26.2	103	e 5 27	+ 0	e 12 31	PcS	i 6 27	PP
Zô-Sè		29.5	350	5 59a	+ 1	10 45	+ 2	—	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Nanking	30.9	345	6 11	+ 1	11 9	+ 4	—	—
Matusiro	36.1	16	i 6 53 <sub>a</sub>	- 1	i 12 28	+ 2	8 35	PPP
Brisbane	38.7	141	i 7 17	0	i 13 29	+24	—	—
Peking	39.1	347	7 20 <sub>a</sub>	0	13 13	+ 2	—	—
Shillong	z. 40.9	308	e 6 36	-58	—	—	—	—
Riverview	42.4	149	i 7 49 <sub>k</sub>	+ 2	e 14 12	+12	i 9 41	PcP e 23.8
Melbourne	43.0	159	i 7 52	0	e 14 18	+ 9	i 8 4	pP
Dehra Dun	54.0	307	9 27	+11	—	—	—	—
Quetta	63.0	303	e 10 18	- 1	i 18 42	+ 2	i 20 9	ScS
Honolulu	75.6	69	e 11 40	+ 3	—	—	—	—
Tananarive	80.3	251	e 12 4 <sub>a</sub>	+ 1	—	—	e 12 27	pP
College	86.4	25	i 12 31	- 2	e 23 39	+40	e 29 43	SS e 36.8
Ksara	89.6	304	i 12 53 <sub>a</sub>	+ 4	e 23 45	+16	e 24 53	PS 49.2
Safed	89.9	303	i 12 52	+ 2	—	—	—	—
Sitka	92.8	33	e 13 5	+ 1	—	—	—	—
Kiruna	94.3	339	i 13 10	0	e 24 9	- 1	e 23 38	SKS
Bucharest	96.2	315	—	—	e 23 55	[+10]	e 24 33	S
Upsala	97.8	331	e 13 25	0	e 24 40	+ 1	e 23 57	SKS
Warsaw	98.0	323	—	—	e 24 0	[+ 6]	e 24 46	S
Skalstugan	98.9	336	i 13 32	0	—	—	—	—
Resolute Bay	99.2	10	—	—	e 24 38	-17	e 17 43	PP
Taranto	103.4	312	—	—	e 27 43	PS	34 53	?
Rome	106.4	315	—	—	i 24 45	[+12]	—	—
Florence X.	106.7	317	—	—	e 24 40	[+ 5]	e 26 3?	S e 53.7
Strasbourg	107.2	322	—	—	—	—	e 27 49	SP e56.2
Hungry Horse	107.6	38	e 18 22	[+ 7]	—	—	—	—
Isabella	z. 108.9	51	e 18 32	[+14]	—	—	e 19 6	PP
China Lake	z. 109.5	51	—	—	—	—	e 19 7	PP
Eureka	109.6	47	e 18 24	[+ 5]	—	—	e 14 25	P
Riverside	z. 110.2	53	—	—	—	—	e 18 59	PP
Paris	110.2	324	—	—	—	—	28 19	SP e 60.2
Palomar	z. 110.8	53	—	—	—	—	e 19 4	PP
Barratt	z. 111.2	54	e 18 25	[+ 2]	—	—	e 19 7	PP
Hayfield	N. 111.7	53	—	—	—	—	e 19 13	PP
Algiers Univ.	z. 115.1	312	e 19 24	PP	e 29 21	PS	—	—
Rapid City	E. 116.2	38	e 18 49	[+16]	—	—	—	—
Boulder	116.9	43	e 18 37	[+ 3]	—	—	—	—
Tamanrasset	z. 117.6	297	e 18 39	[+ 3]	e 25 34	[+16]	e 29 2	PKKP
Kirkland Lake	z. 125.0	22	e 18 52 <sub>k</sub>	[+ 2]	—	—	—	—
Fayetteville	126.4	41	—	—	—	—	i 18 56	PP
Shawinigan Falls	128.8	17	e 19 0	[+ 3]	—	—	—	—
Seven Falls	128.8	15	e 18 58	[+ 1]	—	—	—	—
Ottawa	128.9	20	e 19 0 <sub>k</sub>	[+ 3]	—	—	—	—
Brébeuf	129.5	18	e 19 2	[+ 3]	—	—	—	—
Palisades	133.4	21	i 22 39	PKS	—	—	e 25 5	PPP e 63.0
Huancayo	156.0	116	e 19 49	[+ 6]	—	—	—	—
San Juan	156.3	31	i 20 14	[+30]	—	—	—	—
La Paz	159.5	136	i 19 53	[+ 5]	—	—	e 24 21	PP

July 29d. 7h. 13m. 45s. Epicentre 8°.39S. 85°.65E.

A = +.0751, B = +.9866, C = -0.1450;  $\delta$  = +4;  $h$  = +7;  
D = +0.997, E = -0.076; G = -0.011, H = -0.145, K = -0.989.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Colombo	E. 16.2	339	—	—	e 7 5	+14	—	—
Kodaikanal	E. 20.2	336	e 4 52 <sub>a</sub>	+13	e 8 34	+13	e 9 16	SS
Djakarta	21.1	86	e 4 49	+ 1	e 8 50	+11	e 5 16	PP
Lembang	21.8	87	i 4 52 <sub>a</sub>	- 3	e 8 47	- 5	e 5 10	PP
Bandung	21.9	88	e 5 0	+ 4	—	—	—	—

Continued on next page.

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		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
				m.	s.		m.	s.		m.	s.		
Madras	E.	21.9	346	i 5	19	PP	i 9	7	+13	9	36	SS	10.6
Hyderabad	E.	26.6	344	e 6	26	PP	i 10	37	+21	e 11	42	SS	e 12.9
Bombay		29.9	335	e 6	19	+ 7	e 11	19	+10	e 10	47	PcP	—
Bokaro		32.0	0	e 6	35	+ 5	e 12	14	?	—	—	—	—
Shillong	Z.	34.3	10	i 6	49	0	—	—	—	—	—	—	—
Tananarive		38.4	250	i 7	26k	+ 2	—	—	—	e 7	38	?	—
Manila		41.8	57	e 7	37	-15	—	—	—	—	—	—	—
Quetta		42.4	336	e 7	58k	+ 1	e 14	20	0	e 17	19	SS	—
Baguio City		42.5	54	i 7	59	+ 1	—	—	—	—	—	—	—
Namangan		50.8	346	e 9	4	0	—	—	—	—	—	—	—
Frunse		52.0	350	9	12	0	—	—	—	—	—	—	—
Astrida		55.9	272	e 9	42	0	—	—	—	—	—	—	—
Uvira		56.4	271	e 10	45	+60	—	—	—	—	—	—	—
Pretoria	Z.	57.1	245	i 9	50k	0	—	—	—	—	—	—	—
Grahamstown	Z.	59.7	236	i 10	8	0	—	—	—	—	—	—	—
Kimberley	Z.	60.5	242	i 10	13k	0	—	—	—	—	—	—	—
Tiflis		62.3	326	e 10	24	- 1	—	—	—	—	—	—	—
Jerusalem		62.6	312	i 10	27 <sub>a</sub>	0	—	—	—	—	—	—	—
Safed		63.0	314	i 10	29	0	—	—	—	10	33	PcP	—
Riverview		65.1	123	i 11	4	+19	i 24	0	SS	—	—	—	e 30.2
Brisbane		66.1	116	i 10	52	+ 1	—	—	—	—	—	—	—
Sotchi		66.4	325	10	51	- 1	—	—	—	—	—	—	—
Matusiro		66.5	44	e 10	52	- 1	e 19	41	- 3	—	—	—	e 27.4
Sverdlovsk		68.2	346	10	55	- 8	—	—	—	—	—	—	—
Moscow		75.2	334	e 11	43	- 2	—	—	—	—	—	—	—
Messina	Z.	79.9	311	—	—	—	—	—	—	e 12	11	PcP	—
Tamanrasset	Z.	84.2	294	e 12	36 <sub>a</sub>	+ 2	—	—	—	e 13	10	PcP	—
Prague	N.	84.6	322	i 12	41	+ 5	—	—	—	e 13	5	PcP	—
Upsala		86.5	332	i 12	44 <sub>a</sub>	- 1	—	—	—	—	—	—	—
Jena	Z.	86.6	322	e 12	47	+ 1	—	—	—	e 12	58	PcP	—
Monaco		87.3	315	e 12	49	- 1	—	—	—	e 16	18	PP	—
Stuttgart		87.4	320	e 12	50	0	—	—	—	13	2	PcP	—
Ebingen		87.4	320	e 12	57	+ 1	—	—	—	—	—	—	—
Copenhagen		87.6	327	—	—	—	e 23	34	+ 2	e 29	33	SS	—
Hamburg	Z.	88.3	324	i 12	56	+ 1	—	—	—	—	—	—	—
Kiruna		88.7	340	—	—	—	e 23	36	- 7	—	—	—	—
Skalstugan		90.2	335	i 13	2 <sub>a</sub>	0	—	—	—	—	—	—	—
College		112.5	22	e 18	36	[- 1]	—	—	—	e 19	22	PP	—
Hungry Horse		136.8	19	e 19	21	[- 3]	—	—	—	e 22	8	PP	—
Mineral	Z.	140.0	33	e 19	23	[- 6]	—	—	—	—	—	—	—
Reno	Z.	141.5	32	e 19	35	[+ 2]	—	—	—	—	—	—	—
Eureka		143.5	29	i 19	34	[- 1]	—	—	—	i 20	11	PKP <sub>2</sub>	—
Rapid City	E.	143.6	11	e 19	35	[- 1]	—	—	—	—	—	—	—
La Paz	N.	144.2	226	19	45	[+ 8]	—	—	—	—	—	—	—
Tinemaha	Z.	144.2	34	i 19	37	[ 0]	—	—	—	19	55	PKP <sub>2</sub>	—
Salt Lake City		144.2	23	e 19	40	[+ 2]	—	—	—	—	—	—	—
King Ranch	Z.	144.5	37	e 19	39	[+ 1]	—	—	—	—	—	—	—
Isabella	Z.	145.0	36	i 19	39	[ 0]	—	—	—	i 19	50	PKP <sub>2</sub>	—
China Lake	Z.	145.4	34	i 19	42	[+ 2]	—	—	—	i 20	8	PKP <sub>2</sub>	—
Washington	Z.	145.9	336	e 19	40	[ 0]	—	—	—	—	—	—	—
Pasadena		146.3	37	i 19	44	[+ 3]	—	—	—	20	3	PKP <sub>2</sub>	e 61.0
Boulder City		146.8	31	i 19	45	[+ 3]	—	—	—	i 20	12	PKP <sub>2</sub>	—
Riverside	Z.	146.8	36	i 19	45	[+ 3]	—	—	—	e 21	8	PKP <sub>2</sub>	—
Boulder		147.0	16	e 19	44 <sub>a</sub>	[+ 2]	—	—	—	—	—	—	—
Palomar	Z.	147.6	37	i 19	48	[+ 5]	—	—	—	e 21	46	—	—
Hayfield	N.	148.1	35	e 19	52	[+ 8]	—	—	—	—	—	—	—
Barratt	Z.	148.2	37	i 19	48	[+ 4]	—	—	—	20	2	PKP <sub>2</sub>	—
San Juan		150.8	293	e 19	54	[+ 6]	—	—	—	—	—	—	—
Columbia		151.7	336	e 19	57	[+ 7]	—	—	—	—	—	—	—
Tucson		151.8	30	e 19	57	[+ 7]	—	—	—	—	—	—	—
Huancayo	Z.	152.3	221	e 19	56	[+ 5]	—	—	—	—	—	—	—
Fayetteville		152.4	0	i 19	57	[+ 6]	—	—	—	—	—	—	—

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July 30d. 5h. 40m. 59s. Epicentre 35°·70N. 26°·11E.

A = +0·7309, B = +0·3583, C = +0·5809;  $\delta = +4$ ;  $h = 0$ ;  
D = +0·440, E = -0·898; G = +0·522, H = +0·256, K = -0·814.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Athens	3·0	320	e 0 49 <sub>a</sub>	- 1	i 1 23	0	—	—
Sofia	7·3	344	e 1 51	0	—	—	i 4 1	S <sub>g</sub>
Safed	8·2	107	i 1 53	- 9	3 20	-18	—	—
Ksara	8·2	100	i 2 5 <sub>k</sub>	+ 1	i 3 45	+ 7	i 3 57	SS
Taranto	8·5	307	2 6	0	—	—	—	e 4·7
Jerusalem	8·5	115	i 1 55	-12	3 29	-16	—	—
Bucharest	8·7	0	e 2 17	+ 7	i 4 19	- 3*	i 4 56	S*
Reggio Calabria	8·7	289	—	—	—	—	3 36	?
Messina	8·8	290	e 2 11	0	i 3 41	-12	i 2 21	P*
Focsani	10·0	4	—	—	e 4 10	-12	e 5 35	S <sub>g</sub>
Belgrade	10·1	336	i 2 33 <sub>a</sub>	+ 4	e 4 26	+ 1	e 5 22	S <sub>g</sub>
Timisoara	E. 10·7	341	e 3 13	P*	—	—	—	5·9
Kalossa	12·1	336	e 2 41	-14	e 4 32	?	8 26	PcP
Rome	12·3	304	e 2 58	0	i 5 1	-17	i 3 36	?
Budapest	12·9	338	e 3 24	+17	e 5 41	SSS	—	7·1
Hurbanovo	13·5	337	4 19	+64	e 5 31	-16	—	—
Triest	13·7	320	e 3 13	- 3	e 5 48	- 4	i 7 34	S <sub>g</sub>
Florence X.	14·0	310	e 3 20	- 1	e 5 49	-10	—	—
Prato	14·1	310	e 3 53	+29	e 6 17	+15	—	—
Bratislava	14·1	335	i 3 23	0	—	—	—	7·8
Skalnate Pleso	14·2	344	—	—	—	—	5 19	?
Bologna	14·3	312	—	—	—	—	e 3 44	—
Pavia	16·0	312	—	—	e 5 49	?	—	e 8·2
Monaco	Z. 16·4	305	e 3 52	- 1	—	—	e 4 17	PPP
Chur	16·7	317	e 3 56	0	—	—	—	—
Prague	16·7	333	i 3 57	0	e 7 12	+ 9	i 4 11	PP
Cheb	17·5	329	—	—	—	—	e 5 27	?
Ebingen	17·8	321	e 4 10	- 1	—	—	—	—
Stuttgart	18·0	322	4 13	0	7 22	-10	e 4 20	PP
Basle	18·2	316	e 4 17	+ 2	—	—	—	—
Neuchatel	18·2	314	e 4 17	+ 1	—	—	—	10·3
Jena	18·5	330	e 4 20	+ 1	e 7 23	-21	e 5 5	PP
Karlsruhe	18·6	321	e 4 15 <sub>k</sub>	- 4	—	—	—	e 10·0
Algiers Univ.	Z. 18·6	280	e 4 20	0	e 7 44	- 2	e 4 44	PPP
Strasbourg	18·7	319	e 4 23	+ 2	e 7 49	+ 1	e 4 35	PP
Besançon	18·9	314	e 4 25	0	e 7 29	-24	i 4 42	PP
Clermont-Ferrand	20·1	307	i 4 39	+ 1	—	—	—	11·0
Relizane	20·7	278	e 4 43	- 1	—	—	—	—
Hamburg	21·2	333	i 4 50	+ 1	—	—	—	e 11·5
Alicante	21·4	285	4 56	+ 5	8 50	+ 5	5 32	PPP
Paris	21·7	314	e 4 53	- 1	e 8 51	- 4	i 5 15	PP
Tamanrasset	Z. 22·0	240	e 4 59	+ 1	e 9 8	+12	i 5 44	PPP
Copenhagen	22·1	339	—	—	e 9 8	+10	—	11·0
Granada	23·9	282	5 2	-13	9 29	- 1	—	i 14·7
Toledo	Z. 24·1	289	e 5 20	+ 2	9 31	- 3	—	—
Kew	24·6	318	—	—	e 9 47	+ 5	e 16 29	ScS
Jersey	E. 24·6	312	e 6 16	PPP	—	—	—	e 12·0
Upsala	24·8	350	i 5 24	0	e 9 51	+ 5	—	—
Durham	N. 27·0	324	5 40	- 4	10 17	- 5	—	—
Rathfarnham Castle	28·7	318	e 6 1	0	e 10 41	- 9	e 8 41	PcP
Skalstugan	29·2	347	i 6 1	- 3	—	—	—	—
Apatity	32·2	5	e 8 51	PcP	e 14 11	SS	—	e 15·8
Kiruna	32·3	356	i 6 30	- 2	—	—	—	—
Lwiro	37·8	176	e 7 23 <sub>a</sub>	+ 3	e 13 31	+20	—	—
Astrida	38·2	174	e 7 27	+ 4	—	—	—	—
Scoresby Sund	43·1	338	—	—	—	—	17 50	SS
Chatra	Z. 52·2	82	i 9 16	+ 1	—	—	—	—
Shillong	Z. 56·6	81	i 9 43	- 2	—	—	—	—
Tananarive	58·0	156	e 10 4	+ 7	—	—	—	—
Kimberley	Z. 64·1	181	i 10 39	+ 1	—	—	—	—

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Halifax	65.8	308	e 10 51	+ 2	—	—	e 17 56	PP
Seven Falls	69.1	314	e 11 12 <sub>k</sub>	+ 2	—	—	—	—
Shawinigan Falls	70.5	314	e 11 23	+ 5	—	—	—	—
College	79.6	357	e 12 12	+ 1	—	—	—	—
San Juan	81.3	286	e 12 23	+ 4	—	—	—	—
Matusiro	84.4	49	12 37	+ 2	—	—	18 46	PPPP
Rapid City	88.2	326	e 12 58	+ 4	—	—	—	46.0
Hungry Horse	89.1	335	e 12 56	- 1	—	—	—	—
Bozeman	90.2	332	e 13 6	+ 2	—	—	—	—
Butte	90.5	333	e 13 11	+ 6	—	—	—	—
Salt Lake City	94.7	329	e 18 8	PP	—	—	—	—
Eureka	97.4	331	e 13 42	+ 5	—	—	—	—

July 30d. 9h. 14m. 57s. Epicentre 35°·86N. 25°·96E.

A = +0.7303, B = +0.3556, C = +0.5833;  $\delta = +3$ ;  $h = 0$ ;  
D = +0.438, E = -0.899; G = +0.524, H = +0.255, K = -0.812.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Athens	2.8	320	e 0 45	0	i 1 24	- 3*	—	—
Sofia	7.1	344	0 47	-60	2 59	- 9	—	—
Taranto	8.3	306	2 0	- 3	e 3 23	-17	—	—
Ksara	8.4	101	i 2 3 <sub>k</sub>	- 2	i 3 40	- 3	—	6.8
Bucharest	8.6	1	e 2 9	+ 1	e 4 4	+16	e 2 31	P*
Reggio Calabria	8.6	288	e 2 11	+ 3	i 3 49	+ 1	i 2 41	P*
Messina	8.6	289	i 2 6 <sub>k</sub>	- 2	i 3 45	- 3	e 2 31	P*
Jerusalem	8.7	115	i 2 7 <sub>k</sub>	- 2	i 3 41	- 9	—	4.9
Focsani	9.9	5	e 2 41	P*	—	—	—	e 5.0
Belgrade	9.9	336	e 2 27 <sub>a</sub>	+ 1	—	—	i 5 23	S <sub>g</sub>
Timisoara	10.5	342	e 2 41	+ 6	e 4 49	+14	e 5 38	S*
Bacau	10.7	4	—	—	e 4 49	+10	e 3 6	—
Szeged	11.3	339	2 52	+ 7	—	—	3 47	?
Iasi	11.4	6	e 2 47	0	e 4 51	- 5	—	e 6.6
Kalossa	11.9	336	—	—	4 56	-13	2 58	PPP
Rome	12.1	304	e 2 54	- 2	i 5 11	- 3	i 3 36	?
Budapest	12.7	338	—	—	5 18	-10	3 3	PP
Tunis	12.8	279	3 9	+ 3	e 5 41	+11	e 4 10	?
Hurbanovo	13.3	337	e 3 15	+ 2	e 5 39	- 3	—	6.7
Triest	13.4	320	e 3 11	- 3	5 52	+ 7	i 4 24	PP
Florence X.	13.8	310	e 3 19 <sub>a</sub>	0	i 5 47	- 7	—	—
Prato	13.9	310	e 3 18	- 2	e 5 59	+ 2	—	17.8
Bratislava	13.9	335	i 3 21	0	i 6 1	+ 4	—	6.8
Skalnate Pleso	14.0	344	i 3 21	0	i 6 7	+ 8	4 23	?
Bologna	14.1	312	e 3 27	+ 4	e 6 8	+ 6	—	e 7.5
Pavia	15.8	311	e 3 47	+ 2	e 6 53	+11	e 4 54	PPP
Monaco	16.2	304	e 3 49	- 1	—	—	i 4 7	PP
Chur	16.5	317	e 3 56	+ 2	e 7 12	+14	—	—
Prague	16.5	333	i 3 53	0	i 7 5	+ 7	i 4 10	PP
Ravensburg	17.0	320	e 4 2	+ 1	7 17	+ 7	—	8.6
Cheb	17.3	329	i 4 8	+ 4	i 7 21	+ 5	—	8.0
Zürich	17.3	317	e 4 8	+ 3	e 7 26	+10	—	—
Ebingen	17.6	320	e 4 6	- 1	7 31	+ 8	e 4 26	PP
Stuttgart	17.8	322	e 4 7	- 3	7 34	+ 6	i 4 23	PP
Basle	18.0	316	e 4 15	+ 2	e 7 28	- 4	—	e 8.4
Neuchatel	18.0	314	e 4 11	- 2	e 7 44	+12	—	—
Jena	18.3	330	e 4 14	- 2	e 7 36	- 3	i 4 24	PP
Karlsruhe	18.4	321	i 4 21 <sub>k</sub>	+ 3	e 7 49	+ 8	e 4 29	PP
Strasbourg	18.5	319	i 4 20 <sub>a</sub>	+ 1	i 7 47	+ 3	e 4 35	PP
Algiers Univ.	18.5	280	e 4 16	- 2	e 7 41	- 3	e 4 29	PP
Besancon	18.7	314	e 4 19	- 2	e 7 54	+ 6	e 4 33	PP
Clermont-Ferrand	19.9	307	e 4 33	- 1	i 8 29	+14	—	10.4
Relizane	20.6	277	e 4 44	+ 1	e 5 11	PPP	5 4	PP
Hamburg	21.0	333	i 4 49	+ 2	i 8 37	0	—	e 11.0
Alicante	21.2	285	4 44	- 5	i 8 50	+ 9	5 23	PP

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Paris		21.5	314	e 4 52	0	8 47	0	i 5 14	PP e 12.0
Copenhagen		21.9	339	—	—	i 9 1	+ 7	—	— 11.0
Tamanrasset	z.	22.0	239	e 4 58	0	e 9 4	+ 8	—	—
Almeria		22.9	281	5 9	+ 3	e 9 18	+ 5	—	—
Granada		23.8	282	i 5 16k	+ 1	i 9 23	- 5	8 46	PcP i 11.8
Toledo		24.0	289	e 5 16	0	i 9 29	- 3	—	— 14.6
Helsinki		24.3	359	e 5 19	0	e 9 34	- 3	—	—
Kew		24.4	318	—	—	e 9 39	0	—	— e 12.0
Jersey	E.	24.4	312	e 5 22	+ 1	e 9 41	+ 2	—	— 11.0
Upsala		24.6	350	i 5 23	0	i 9 39	- 3	i 5 52	PP —
Durham		26.8	324	5 44	+ 1	—	—	—	—
Lisbon	z.	28.0	286	e 5 56a	+ 2	10 36	- 2	—	—
Aberdeen		28.4	327	—	—	—	—	e 12 3	SS e 14.7
Rathfarnham C.	z.	28.5	318	e 6 3	+ 4	e 10 43	- 3	i 6 42	PP e 14.9
Skalstugan		29.0	347	i 5 59	- 3	—	—	i 6 6	—
Sodankyla		31.6	0	i 6 24	- 1	—	—	—	—
Apatity		32.0	5	e 8 15	?	e 13 36	SS	—	— e 14.9
Kiruna		32.2	356	i 6 27	- 4	—	—	—	—
Quetta		34.6	88	e 6 51	- 1	e 12 21	- 1	e 11 13	? —
Lwiro		38.0	175	e 7 21	0	e 13 41	+ 27	—	—
Astrida		38.4	174	e 7 24k	0	e 13 45	+ 25	—	—
Uvira		39.2	175	e 7 31	0	e 13 51	+ 19	—	—
Reykjavik	z.	40.2	330	i 7 45	+ 5	—	—	—	—
Scoresby Sund		42.9	338	e 8 7	+ 5	e 14 29	+ 2	—	— 20.0
New Delhi	N.	43.5	85	—	—	i 14 31	- 5	i 16 30	? i 19.0
Dehra Dun		43.6	82	e 8 9	+ 1	i 14 30	- 8	—	—
M'Bour		43.9	252	i 8 15	+ 5	e 14 49	+ 7	e 15 16	? e 20.0
Bombay		44.5	100	—	—	e 14 54	+ 3	e 18 30	SSS —
Chatra	z.	52.3	82	i 9 15	0	—	—	—	—
Bokaro		52.6	86	e 9 22	+ 4	e 16 39	PS	—	—
Shillong	z.	56.6	81	i 9 44	- 2	—	—	—	—
Colombo		57.0	107	—	—	17 39	- 4	—	— 31.6
Tananarive		58.2	156	e 10 0a	+ 2	e 16 14	?	e 10 45	PcP —
Pretoria	z.	61.3	178	i 10 24a	+ 4	—	—	—	—
Resolute Bay		63.2	345	e 10 30	- 1	e 19 17	+ 14	e 16 13	PP —
Kimberley	z.	64.3	181	i 10 38	0	—	—	—	—
Halifax		65.6	308	e 10 48	0	—	—	—	—
Grahamstown		68.8	179	i 11 12	+ 4	—	—	—	—
Seven Falls		68.9	313	e 11 8	0	e 20 23	+ 10	—	—
Shawinigan Falls		70.3	314	e 11 21	+ 4	—	—	—	—
Brébeuf		71.4	313	i 11 24k	0	—	—	i 17 45	—
Ottawa		72.7	314	e 11 29	- 1	20 57	0	29 11	SSS —
Kirkland Lake	z.	73.6	318	e 11 35	- 2	—	—	—	—
Palisades		74.0	309	e 11 50	+ 11	i 21 11	0	e 14 35	PP e 33.2
Philadelphia		75.4	309	—	—	e 21 32	+ 5	—	e 36.3
Washington	z.	77.2	309	e 11 58	+ 1	e 21 47	0	e 24 12	— e 33.5
College		79.5	357	e 12 7	- 2	—	—	—	—
San Juan		81.1	286	e 12 19	0	—	—	—	—
Chicago, C.G.S.		81.7	316	e 12 35	+ 13	—	—	—	— e 38.6
Columbia		82.7	307	e 12 29	+ 2	e 22 45	+ 1	e 28 15	SS e 39.2
Baguio City		84.2	74	i 12 47	+ 13	—	—	—	—
Matusiro		84.4	48	12 35	0	22 57	- 4	29 10	SS e 36.8
Sitka		86.1	350	e 13 45	+ 61	—	—	—	—
Lembang	z.	87.2	100	e 12 53	+ 3	—	—	—	—
Rapid City	E.	88.0	326	e 12 52	0	—	—	e 19 13	? —
Hungry Horse		88.9	335	e 12 54	- 2	e 30 3	SS	e 23 45	S <sub>c</sub> S —
Fayetteville		89.3	316	e 13 0	0	e 23 31	[+ 2]	e 23 53	S —
Bozeman		90.0	331	i 13 4	+ 1	—	—	e 17 36	? —
Butte	N.	90.3	332	e 13 6	+ 2	e 24 1	+ 4	e 25 49	PPS e 40.4
Horseshoe Bay		90.8	340	e 13 7	0	—	—	—	—
Victoria		91.7	341	e 13 12	+ 2	—	—	—	—
Boulder		92.2	325	e 13 12	- 1	—	—	—	—
Salt Lake City		94.5	329	e 13 25	+ 2	—	—	—	—
Eureka		97.2	331	e 13 38	+ 2	—	—	—	—
Mineral	z.	98.5	336	e 13 47	+ 5	—	—	—	—
Isabella	z.	101.5	331	e 14 0	+ 5	e 18 2	—	—	—
Pasadena	E.	102.7	330	—	—	e 25 53	[+ 10]	—	— i 42.8
Riverview	E.	135.5	104	—	—	—	—	i 30 11	PKKP —

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July 30d. 10h. 39m. 56s. Epicentre 35°·77N. 25°·88E.

A = +0·7317, B = +0·3550, C = +0·5819;  $\delta$  = +2;  $h$  = 0;  
D = +0·436, E = -0·900; G = +0·524, H = +0·254, K = -0·813.

	$\Delta$	Az.	P.		O - C.	S.		O - C.	Supp.		L. m.	
			m.	s.		m.	s.		m.	s.		
Athens	2·8	322	e 0	46	- 1	i 1	28	+ 1*	i 0	54	P <sub>g</sub>	—
Sofia	7·2	345	1	49	0	4	4	+ 6 <sub>g</sub>	—	—	—	—
Taranto	8·3	307	2	5	+ 1	3	28	- 12	—	—	—	—
Ksara	8·4	100	i 2	4	- 2	i 3	42	- 2	—	—	—	—
Reggio Calabria	8·5	289	e 2	4	- 3	i 3	40	- 5	—	—	—	—
Messina	8·6	289	i 2	7 <sub>k</sub>	- 1	i 3	44	- 4	e 2	31	P*	4·8
Bucharest	8·6	1	e 2	22	+ 12	e 4	54	+ 8 <sub>g</sub>	e 4	6	SSS	—
Belgrade	9·9	337	e 2	30 <sub>a</sub>	+ 2	e 5	27	0 <sub>g</sub>	—	—	—	—
Focsani	10·0	5	e 3	8	P*	5	34	+ 4 <sub>g</sub>	—	—	—	—
Timisoara	10·6	342	e 2	36	0	3	0	?	—	—	—	e 5·6
Szeged	11·3	339	3	15	PPP	4	58	+ 4	5	23	SS	—
Kalossa	11·9	336	3	1	PP	—	—	—	8	30	P <sub>c</sub> P	—
Rome	12·1	304	e 3	4	+ 7	i 6	2	S*	—	—	—	i 7·0
Tunis	12·8	279	3	4	- 1	5	16	- 14	e 3	25	PPP	—
Budapest	12·8	339	e 3	6	0	—	—	—	—	—	—	e 6·3
Hurbanovo	13·4	337	e 3	25	+ 11	e 5	35	- 10	—	—	—	e 6·7
Triest	13·5	321	e 3	3	- 12	5	37	- 10	3	24	PP	i 7·8
Florence	13·8	310	e 3	45	PP	e 6	13	+ 21	i 8	34	P <sub>c</sub> P	—
Prato	13·9	310	e 3	4	- 17	e 5	27	- 30	—	—	—	—
Bratislava	14·0	335	i 3	23	+ 1	e 6	10	+ 11	—	—	—	7·6
Skalnate Pleso	14·0	345	i 3	22	0	—	—	—	i 3	48	PPP	—
Bologna	14·1	312	—	—	—	e 6	16	+ 14	—	—	—	e 8·3
Pavia	15·8	312	e 4	2	PP	e 6	52	+ 10	—	—	—	—
Monaco	16·2	305	e 3	49	- 2	—	—	—	e 4	13	PPP	—
Chur	16·5	317	e 3	56	+ 1	e 6	39	- 19	—	—	—	—
Prague	16·5	333	e 3	56	+ 1	i 7	8	+ 8	i 4	48	?	—
Ravensburg	17·0	320	e 4	4	+ 3	—	—	—	—	—	—	—
Zürich	17·3	317	e 4	16	+ 12	—	—	—	—	—	—	—
Cheb	17·3	330	e 4	24	PP	e 7	14	- 4	—	—	—	8·1
Ebingen	17·6	320	e 4	8	0	e 7	34	+ 11	—	—	—	—
Stuttgart	17·9	322	e 4	10	- 1	e 7	25	- 5	—	—	—	9·1
Basle	18·0	316	e 4	14	+ 1	e 7	34	+ 2	—	—	—	—
Neuchatel	18·1	314	e 4	13	0	—	—	—	—	—	—	—
Jena	18·3	330	e 4	18	0	e 7	48	+ 9	e 4	26	PP	—
Karlsruhe	18·4	321	4	4?	- 14	e 7	34	- 7	—	—	—	—
Algiers Univ.	z. 18·4	280	e 4	17	- 1	e 7	42	0	e 4	41	PPP	—
Strasbourg	18·5	319	i 4	22 <sub>a</sub>	+ 2	i 7	48	+ 4	e 4	49	PPP	—
Besançon	18·7	314	e 4	22	0	e 6	43	?	e 4	44	PPP	—
Clermont-Ferrand	19·9	307	e 4	35	0	e 8	27	+ 12	—	—	—	10·4
Relizane	20·5	277	e 4	47	+ 4	—	—	—	e 5	14	PPP	—
Hamburg	21·0	333	i 4	49	+ 1	i 8	50	+ 23	—	—	—	e 12·1
Alicante	21·2	285	i 4	49	- 1	i 8	49	+ 8	5	24	PPP	10·8
Paris	21·6	314	e 4	54	0	e 8	49	0	e 8	57	P <sub>c</sub> P	e 13·1
Tamanrasset	z. 21·9	239	e 5	0	+ 3	e 9	3	+ 9	e 5	19	PP	—
Copenhagen	21·9	339	—	—	—	e 9	12	+ 18	—	—	—	11·1
Granada	23·7	282	i 5	16 <sub>k</sub>	+ 1	i 9	26	- 1	5	59	PPP	12·5
Toledo	23·9	289	i 5	17	0	e 9	31	0	—	—	—	15·5
Kew	24·4	318	—	—	—	e 9	42	+ 3	—	—	—	e 11·6
Jersey	24·4	312	—	—	—	e 9	46	+ 6	—	—	—	—
Upsala	24·7	350	e 5	19	- 4	e 9	44	0	—	—	—	—
Rathfarnham C.	z. 28·5	318	i 5	21	- 38	—	—	—	—	—	—	—
Skalstugan	29·1	347	i 6	1	- 3	—	—	—	—	—	—	—
Apatity	32·1	5	e 8	55	?	e 14	16	SSS	—	—	—	—
Kiruna	32·3	356	i 6	29	- 4	—	—	—	—	—	—	—
Quetta	z. 34·7	87	e 6	53 <sub>k</sub>	0	—	—	—	—	—	—	—
Lwiro	37·9	175	i 8	23 <sub>a</sub>	+ 62	—	—	—	—	—	—	—
Uvira	39·2	175	e 7	33	+ 1	—	—	—	—	—	—	—
Tananarive	58·1	156	e 10	1	+ 3	—	—	—	e 10	11	?	—
Pretoria	z. 61·2	178	e 10	21	+ 2	—	—	—	—	—	—	—
Kimberley	z. 64·2	181	i 10	39	0	—	—	—	—	—	—	—

Continued on next page.

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		$\Delta$	Az.	P.		O-C.	S.	O-C.	Supp.		L.
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	m.	s.	m.
Halifax		65.6	308	e 10	47	- 1	—	—	—	—	—
Seven Falls		68.9	313	i 11	7 <sup>a</sup>	- 2	—	—	11	33	pP
Shawinigan Falls		70.3	314	e 11	21	+ 4	—	—	—	—	—
Brébeuf		71.4	313	i 11	22	- 1	—	—	—	—	—
Ottawa		72.7	314	e 11	32	0	—	—	—	—	—
Kirkland Lake	z.	73.6	318	e 11	36	0	—	—	—	—	—
College		79.6	357	e 12	8	- 2	—	—	—	—	—
San Juan		81.1	286	e 12	18	0	—	—	—	—	—
Matusiro		84.5	48	e 12	36	0	—	—	—	—	—
Lembang	z.	87.3	100	e 12	54	+ 4	—	—	—	—	—
Rapid City	e.	88.1	326	e 12	53	0	—	—	—	—	—
Hungry Horse		88.9	335	e 12	56	- 1	—	—	—	—	—
Butte	N.	90.4	332	e 13	6	+ 2	—	—	—	—	—
Eureka		97.3	331	i 13	43	+ 6	—	—	—	—	—

Aug. 1d. 6h. 44m. 2s. Epicentre 28°·62S. 72°·28W.

A = +0.2675, B = -0.8375, C = -0.4764;  $\delta$  = -8;  $h$  = +2;  
D = -0.953, E = -0.304; G = -0.145, H = +0.454, K = -0.879.

		$\Delta$	Az.	P.		O-C.	S.	O-C.	Supp.		L.
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	m.	s.	m.
La Paz		12.6	18	i 3	10	+ 6	i 5	30	+ 4	—	6.6
Huancayo	z.	16.7	350	e 3	55	- 1	e 7	12	+ 9	—	—
San Juan		47.1	8	e 8	31	- 3	—	—	—	—	—
Columbia		62.8	352	e 10	25	- 3	—	—	—	—	—
Fayetteville		67.6	341	i 10	56 <sup>k</sup>	- 3	—	—	—	—	—
Tucson		70.8	326	e 11	19	0	—	—	—	—	—
Ottawa		73.7	358	11	35	- 1	—	—	—	—	—
Brebeuf		73.8	359	i 11	37 <sup>a</sup>	0	—	—	—	—	—
Barratt	z.	74.1	322	i 11	39	0	—	—	—	—	—
Palomar	z.	74.7	322	i 11	44	+ 1	—	—	—	—	—
Shawinigan Falls		74.8	0	e 11	50	+ 6	—	—	—	—	—
Boulder		74.9	334	i 11	43	- 1	—	—	—	—	—
Seven Falls		75.4	1	e 11	45	- 1	—	—	—	—	—
Riverside	z.	75.5	323	i 11	47	0	—	—	—	—	—
Boulder City		75.7	326	i 11	47	- 1	—	—	—	—	—
Pasadena		76.0	322	e 11	50	0	—	—	—	—	—
Kirkland Lake	z.	76.7	355	11	53	- 1	—	—	—	—	—
China Lake	z.	77.0	324	e 11	57	+ 1	—	—	—	—	—
Isabella	z.	77.3	323	i 11	58	0	—	—	—	—	—
Rapid City	e.	77.7	338	e 12	1	+ 1	—	—	—	—	—
King Ranch	z.	77.8	322	i 12	5	+ 5	—	—	—	—	—
Salt Lake City		78.2	330	e 12	2	0	—	—	—	—	—
Tinemaha	z.	78.3	324	12	4	+ 1	—	—	—	—	—
Eureka		79.0	327	i 12	7	0	—	—	—	—	—
Lick	z.	80.3	322	i 12	15	+ 1	—	—	—	—	—
Reno		81.0	325	e 12	19	+ 1	—	—	—	—	—
Berkeley	z.	81.0	322	i 12	18	0	—	—	—	—	—
Bozeman		81.9	334	e 12	23	+ 1	—	—	—	—	—
Shasta	z.	83.2	324	i 12	28	0	—	—	—	—	—
Hungry Horse		85.3	334	e 12	38	- 1	—	—	—	—	—
Corvallis	z.	86.4	326	e 12	46	+ 1	—	—	—	—	—
Ksara		119.5	65	33	24	PPS	—	—	—	—	—
Lembang		144.8	180	e 19	45	[+ 7]	—	—	—	—	—

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Aug. 1d. 20h. 28m. 28s. Epicentre 19°·03N. 71°·11W.

A = +0·3063, B = -0·8950, C = +0·3241;  $\delta$  = -11;  $h$  = +5;  
D = -0·946, E = -0·324; G = +0·105, H = -0·307, K = -0·946.

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
San Juan	4·8	97	i 1	14	0	i 2	13	+ 1	—	—	i 2·7
Dominica	10·0	110	i 2	27	0	—	—	—	—	—	—
Fort de France	10·4	113	e 2	36	+ 2	—	—	—	e 4	50	?
St. Vincent	11·1	120	e 2	38	- 5	i 4	36	-13	—	—	—
Trinidad	12·4	131	e 3	1	0	e 5	2	-19	—	—	—
Barbados	12·5	116	e 3	6	+ 4	—	—	—	—	—	—
Bogota	14·6	192	e 3	34	+ 4	e 6	23	+10	—	—	7·5
Chinchina	14·6	198	i 3	30	0	i 6	18	+ 5	—	—	7·5
Columbia	17·3	331	i 4	1	- 3	e 7	10	- 6	—	—	e 7·6
Merida	17·5	279	i 4	11	+ 4	e 7	42	+21	—	—	—
San Salvador	18·2	256	e 4	49	PP	—	—	—	—	—	—
Chapel Hill	18·2	339	i 4	15	- 1	8	10	SS	—	—	—
Comitan	20·2	265	—	—	—	—	—	—	e 8	40	PcP
Palisades	22·0	354	i 4	58	0	e 9	2	+ 6	i 5	13	PP
Vera Cruz	23·6	274	—	—	—	e 9	42	-17	—	—	e 11·5 e 11·2
Buffalo (Larkin)	24·6	347	e 5	22	0	—	—	—	—	—	—
Halifax	26·3	12	e 5	32	- 7	—	—	—	—	—	—
Brébeuf	26·5	356	i 5	42	+ 1	—	—	—	—	—	—
Fayetteville	26·5	315	e 5	40	0	—	—	—	—	—	—
Ottawa	26·6	353	e 5	42	0	e 10	20	+ 4	e 11	40	SS
Shawinigan Falls	27·5	358	e 5	58	+ 8	—	—	—	—	—	—
Seven Falls	28·0	0	e 5	58	+ 3	—	—	—	—	—	—
Huancayo	z. 31·2	188	e 6	23	0	—	—	—	—	—	—
La Paz	N. 35·4	175	e 6	54	- 5	e 12	44	+10	15	4	SS
Boulder	36·0	313	e 7	4	- 1	—	—	—	—	—	—
Rapid City	E. 36·6	320	i 7	9	0	—	—	—	—	—	—
Salt Lake City	41·0	311	e 7	46	0	—	—	—	—	—	—
Boulder City	41·9	303	e 7	54	0	—	—	—	—	—	—
Bozeman	42·3	318	e 7	58	+ 1	—	—	—	—	—	—
Barratt	z. 42·9	298	e 7	58	- 3	—	—	—	—	—	—
Palomar	z. 43·1	299	e 8	5	+ 1	—	—	—	—	—	—
Butte	43·4	318	e 8	7	+ 1	—	—	—	—	—	—
Eureka	43·6	308	i 8	8	0	i 30	57	PKKP	i 9	56	PP
Riverside	z. 43·6	300	e 8	8	0	—	—	—	—	—	—
Dalton	z. 44·0	300	e 8	11	0	—	—	—	—	—	—
Pasadena	44·3	300	—	—	—	14	32	-16	—	—	e 30·0
Woody	z. 45·1	302	e 8	20	0	—	—	—	—	—	—
Hungry Horse	45·3	320	i 8	20	0	—	—	—	—	—	—
King Ranch	z. 45·8	301	e 8	27	+ 2	—	—	—	—	—	—
Lick	z. 47·5	304	e 8	43	+ 4	—	—	—	—	—	—
Mineral	z. 48·0	308	e 9	39	+56	—	—	—	—	—	—
Shasta	z. 48·7	308	i 8	47	0	—	—	—	—	—	—
La Plata	55·1	167	—	—	—	17	14	- 4	21	44	SS
Malaga	60·4	58	i 10	17k	+ 3	—	—	—	—	—	—
College	67·3	333	i 10	56	- 2	—	—	—	—	—	—
Skalstugan	70·2	28	11	15	- 1	—	—	—	—	—	—
Tamanrasset	70·9	72	e 11	20	0	—	—	—	e 15	6	PPP
Kiruna	73·1	23	11	32k	- 1	—	—	—	—	—	—
Sodankyla	75·6	23	i 11	47	0	—	—	—	—	—	—
Ksara	92·9	53	e 13	28	+12	—	—	—	e 17	12	PP

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Aug. 2d. 7h. 11m. 18s. Epicentre 5°·07N. 76°·28W. Depth of focus = 0·011R.

A = +0·2363, B = -0·9677, C = +0·0878;  $\delta$  = -1; h = +7;  
D = -0·972, E = -0·237; G = +0·021, H = -0·085, K = -0·996.

	$\Delta$ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m
			m.	s.		m.	s.		m.	s.	
Chinchina	0·7	98	i 0	17	- 1	i 0	27	- 4	—	—	—
Bogota	2·2	101	i 0	38	+ 1	i 1	2	0	—	—	—
Balboa Heights	5·0	320	i 1	15	0	i 2	12	+ 1	—	—	—
Galerazamba	5·8	10	i 1	27	+ 2	i 2	30	- 1	—	—	i 2·7
Trinidad	15·6	68	e 3	34	- 2	i 6	30	+ 4	—	—	—
San Juan	16·5	36	i 3	44	- 2	i 6	38	- 8	i 4	25	? e 7·4
St. Vincent	16·8	60	i 3	48 <sub>a</sub>	- 2	—	—	—	—	—	—
Huancayo	17·0	177	e 3	50	- 2	i 7	7	+10	i 5	37	? —
Fort de France	17·7	56	3	58	- 3	e 7	20	+ 7	—	—	—
Dominica	17·8	54	i 4	7	+ 4	—	—	—	—	—	—
Barbados	18·3	63	e 4	7	0	—	—	—	—	—	—
La Paz	22·9	160	e 5	4	+ 8	8	54	0	—	—	i 11·3
Columbia	29·1	352	i 5	54	0	e 10	52	+15	e 11	46	sS e 13·8
Fayetteville	35·0	334	i 6	43 <sub>k</sub>	- 1	—	—	—	—	—	—
Palisades	35·8	3	—	—	—	e 12	16	- 5	e 8	21	PP e 17·6
Buffalo (Larkin)	37·7	357	i 7	8	+ 1	—	—	—	—	—	—
Ottawa	40·2	1	e 7	28 <sub>k</sub>	0	—	—	—	e 9	3	PP —
Brébeuf	40·3	3	i 7	30 <sub>a</sub>	+ 1	—	—	—	—	—	—
Shawinigan Falls	41·4	4	i 7	46 <sub>k</sub>	+ 8	—	—	—	—	—	—
Tucson	42·1	314	i 7	45	+ 1	—	—	—	e 8	13	pP —
Seven Falls	42·2	6	e 7	45 <sub>a</sub>	+ 1	—	—	—	—	—	—
Kirkland Lake	43·0	356	7	51 <sub>k</sub>	0	—	—	—	—	—	—
Boulder	43·5	327	i 7	55	0	—	—	—	—	—	—
Rapid City	45·5	333	i 8	9	- 1	—	—	—	—	—	—
Barratt	46·6	311	e 8	18	- 1	—	—	—	—	—	—
Boulder City	46·9	316	i 8	23	+ 1	—	—	—	—	—	—
Palomar	47·1	312	i 8	24	+ 1	—	—	—	e 8	49	pP —
Riverside	47·7	312	i 8	28	0	—	—	—	e 8	43	pP —
Salt Lake City	47·7	323	e 8	28	0	—	—	—	—	—	—
Pasadena	48·4	312	i 8	35	+ 1	—	—	—	—	—	e 15·7
China Lake	48·8	314	e 8	37	0	—	—	—	—	—	—
Isabella	49·3	314	e 8	40	0	—	—	—	e 9	8	pP —
Eureka	49·6	320	i 8	43	0	i 10	48	PP	i 9	8	pP —
Woody	49·6	314	i 8	42	0	—	—	—	i 9	8	pP —
King Ranch	50·1	313	e 8	48	+ 1	—	—	—	—	—	—
Butte	51·5	328	e 8	57	0	—	—	—	—	—	—
Mineral	53·7	318	e 9	13	0	—	—	—	—	—	—
Hungry Horse	53·8	330	e 9	13	0	—	—	—	e 11	12	PP —
Granada	73·2	53	i 11	45 <sub>k</sub>	+24	—	—	—	16	0	PPP —
Rathfarnham C.	74·0	36	—	—	—	—	—	—	13	12	? —
College	77·6	336	e 11	45	- 1	—	—	—	—	—	—
Tamanrasset	80·5	68	12	3	+ 1	—	—	—	12	30	pP —
Stuttgart	83·2	42	e 12	16	0	—	—	—	—	—	—
Skalstugan	84·8	27	i 12	24	0	—	—	—	—	—	—
Kiruna	87·9	22	i 12	38 <sub>a</sub>	0	—	—	—	i 13	6	pP —
Bucharest	95·3	45	—	—	—	—	—	—	e 15	2	PP —

Aug. 2d. 7h. 18m. 18s. Epicentre 43°·53N. 146°·05E. Depth of focus = 0·008R.

A = -0·6034, B = +0·4062, C = +0·6862;  $\delta$  = -4; h = -3;  
D = +0·558, E = +0·830; G = -0·569, H = +0·383, K = -0·727.

	$\Delta$ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.
			m.	s.		m.	s.		m.	s.	
Nemuro	0·4	241	0	12 <sub>a</sub>	- 2	0	19	- 8	—	—	—
Kusiro	1·3	246	i 0	24 <sub>k</sub>	0	i 0	40	- 2	—	—	—
Abashiri	1·4	292	i 0	25 <sub>k</sub>	0	e 0	42	- 2	—	—	—
Kurilsk	2·2	37	i 0	36	+ 1	i 0	51	-11	—	—	—
Obihiro	2·2	255	i 0	38	+ 3	i 1	4	+ 2	—	—	—

Continued on next page.



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	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	<sup>c</sup>	<sup>c</sup>	m. s.	s.	m. s.	s.	m. s.	m.
Asahigawa	2.7	277	e 0 44	+ 1	e 1 19	+ 5	—	—
Urakawa	2.8	241	e 0 44	0	e 1 16	- 1	i 0 58	P <sub>g</sub>
Tomakomai	3.4	254	e 0 55	+ 2	e 1 35	+ 3	—	—
Sapporo	3.5	264	i 0 54k	+ 1	i 1 34	0	1 17	?
Wakkanai	3.7	303	—	—	e 1 39	0	i 2 13	S <sub>g</sub>
Muroran	3.9	254	e 1 0	0	e 1 46	+ 2	—	—
Yuzno-Sakhlinsk	4.2	327	e 1 5	+ 2	i 1 52	+ 1	—	—
Mori	4.3	252	i 1 4k	0	1 55	+ 1	1 22	P <sub>g</sub>
Hakodate	4.3	248	i 1 5k	0	i 2 0	+ 6	—	—
Suttsu	4.3	262	e 1 3	- 1	e 1 55	+ 1	—	—
Hatinohe	4.5	230	e 1 6	- 1	i 1 54	- 5	—	—
Aomori	4.8	237	e 1 10	0	e 2 2	- 4	e 1 38	P <sub>g</sub>
Miyako	4.9	220	e 1 5k	- 8	e 2 2	- 7	1 50	?
Morioka	5.3	225	i 1 17k	- 1	e 2 12	- 6	—	—
Mizusawa	5.8	222	1 23	- 1	2 24	- 7	—	—
Akita	5.9	232	e 1 27	+ 1	e 2 32	- 1	—	—
Uglegorsk	6.2	335	i 1 33	+ 2	i 2 44	+ 3	—	—
Isinomaki	6.2	217	e 1 35	+ 4	e 2 32	- 9	—	—
Sendai	6.5	218	e 1 31	- 4	2 41	- 7	e 2 4	S*
Sakata	6.6	228	e 1 38	+ 2	e 2 47	- 3	—	—
Yamagata	6.8	221	e 1 42	+ 2	e 2 49	- 6	—	—
Hokusima	7.2	218	e 1 44	0	i 2 58	- 7	—	—
Onahama	7.7	213	e 2 3	+12	i 3 7	-10	—	—
Niigata	7.7	226	e 2 2	+11	e 2 32	?	—	e 3.6
Shirakawa	7.8	217	e 1 58	+ 5	e 3 12	- 8	—	—
Mito	8.3	213	e 2 1	+ 1	e 3 22	- 8	—	—
Utunomiya	8.4	216	e 2 1	0	e 3 26	- 6	—	—
Kakioka	8.6	214	e 2 2	- 1	3 29	- 8	—	—
Maebasi	8.9	219	e 2 7	0	e 3 47	0	—	—
Kumagaya	9.0	217	e 2 9	0	e 3 42	- 7	—	—
Nagano	9.1	224	e 2 15	+ 4	e 4 3	+11	—	—
Matusiro	9.2	223	i 2 9k	- 2	i 4 26	+32	—	—
Oiwake	9.2	221	e 2 17	+ 5	—	—	—	—
Tokyo, C.M.O.	9.2	214	—	—	3 44	-10	—	—
Titibu	9.2	218	e 2 32	+19	e 3 47	- 7	—	—
Wazima	9.3	232	e 2 13	0	—	—	—	—
Yokohama	9.5	214	e 2 30	+14	e 3 55	- 6	—	—
Matumoto	9.6	223	e 2 31	+14	e 4 1	- 3	—	—
Kohu	9.8	219	e 2 23	+ 3	e 4 2	- 6	—	—
Hunatu	9.8	218	—	—	e 3 37	-31	—	—
Mera	9.8	211	—	—	e 3 44	-24	—	—
Takayama	10.0	226	e 1 59	-23	—	—	—	—
Misima	10.0	216	e 2 34	+12	e 4 2	-12	—	—
Osima	10.2	213	—	—	i 4 6	-12	—	—
Vladivostok	10.3	273	e 2 28	+ 1	—	—	—	—
Gihu	10.8	225	e 2 37	+ 3	4 51	+19	—	—
Nagoya	10.9	223	—	—	—	—	e 2 58	PP
Kameyama	11.4	224	e 2 46	+ 4	e 4 50	+ 3	—	e 5.2
Kyoto	11.7	227	e 2 45	0	—	—	e 4 30	?
Changchun	15.0	278	e 3 28	0	—	—	—	—
Klyuchi	15.9	31	e 3 58	+19	—	—	—	—
Magadan	16.3	9	e 3 44	- 1	—	—	—	—
Peking	22.5	271	e 4 52	- 1	e 8 56	+ 8	—	—
Tiksi	29.4	349	—	—	—	—	e 6 51	PP
College	41.7	36	i 7 43	0	—	—	i 7 59	pP
Shillong	47.2	266	e 8 26	0	—	—	—	—
Rabaul	47.8	172	i 8 32	0	—	—	i 8 49	pP
Sitka	49.2	45	i 8 44	+ 2	—	—	—	—
Resolute	55.4	16	9 27k	- 1	—	—	e 10 25	PP
Lahore	56.5	284	9 35	0	—	—	—	—
Horseshoe Bay	59.1	50	9 49 <sub>a</sub>	- 4	—	—	—	—
Victoria	59.5	50	i 9 56 <sub>a</sub>	0	—	—	—	—
Corvallis	61.7	54	e 10 13	+ 1	—	—	—	—
Kiruna	61.7	340	i 10 11	0	—	—	—	—
Quetta	62.5	286	10 16k	0	—	—	e 10 35	pP

Continued on next page.

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		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Ashkabad		63.7	298	e 10	24	0	—	—	—	—	—	—
Shasta	z.	64.5	57	i 10	31	0	—	—	—	—	—	—
Hungry Horse		64.7	47	i 10	32	0	—	—	—	i 10	50	pP
Mineral	z.	65.2	57	e 10	34	0	—	—	—	—	—	—
Butte		66.9	48	e 10	47	+ 1	—	—	—	—	—	—
Lick	z.	67.0	60	e 10	46	0	—	—	—	—	—	—
Skalstugan		67.1	340	i 10	47	0	—	—	—	—	—	—
Fresno	z.	68.5	59	e 10	55	0	—	—	—	—	—	—
Upsala		68.6	335	i 10	56	0	—	—	—	—	—	—
Eureka		69.1	55	e 11	0	0	i 13	33	PP	i 11	17	pP
Tinemaha	z.	69.3	58	i 11	2	+ 1	—	—	—	e 11	19	pP
Kirovobad		69.3	307	e 11	0	0	—	—	—	—	—	—
King Ranch	z.	69.4	61	e 11	3	+ 1	—	—	—	e 11	20	pP
Woody	z.	69.8	60	i 11	2 <sub>a</sub>	- 1	—	—	—	i 11	20	pP
Isabella	z.	70.0	60	i 11	5 <sub>a</sub>	0	—	—	—	i 11	20	pP
China Lake	z.	70.5	59	i 11	9 <sub>a</sub>	+ 1	—	—	—	i 11	26	pP
Salt Lake City		70.7	52	e 11	10	+ 1	—	—	—	—	—	—
Pasadena		71.2	61	i 11	11 <sub>a</sub>	0	—	—	—	—	—	—
Riverside	z.	71.8	60	i 11	14 <sub>a</sub>	- 1	—	—	—	e 11	32	pP
Boulder City		72.1	57	i 11	18	0	—	—	—	i 11	47	SP
Palomar	z.	72.5	61	i 11	21 <sub>a</sub>	+ 1	—	—	—	e 11	36	pP
Hayfield	N.	73.1	60	e 11	25	+ 2	—	—	—	—	—	—
Barratt	z.	73.1	61	i 11	22 <sub>a</sub>	0	—	—	—	e 11	39	pP
Rapid City	E.	73.1	45	i 11	24	0	—	—	—	—	—	—
Lwow		74.2	325	e 11	30	0	—	—	—	e 11	46	pP
Krakow	N.	75.6	328	e 11	41	+ 3	—	—	—	—	—	e 38.9
Hamburg	z.	76.2	335	—	—	—	—	—	—	e 12	24	sP
Tucson		77.0	58	e 11	47	+ 1	—	—	—	e 12	4	pP
Kirkland Lake	z.	80.1	29	e 12	2	0	—	—	—	—	—	—
Stuttgart		80.6	333	e 12	6	+ 1	—	—	—	12	22	pP
Melbourne		81.0	181	i 13	9	+ 61	—	—	—	—	—	—
Fayetteville		83.7	45	i 12	22 <sub>a</sub>	+ 1	—	—	—	e 12	38	pP
Shawinigan Falls		84.0	26	12	30 <sub>a</sub>	+ 7	—	—	—	—	—	—
Ottawa		84.0	28	i 12	22 <sub>a</sub>	0	—	—	—	—	—	—
Seven Falls		84.0	24	12	22	0	—	—	—	—	—	—
Taranto		84.5	323	—	—	—	—	—	—	21	27	?
Brèbeuf		84.6	27	i 12	26 <sub>a</sub>	0	—	—	—	—	—	—
Columbia		91.7	38	e 13	0	0	—	—	—	—	—	—

Aug. 4d. 9h. 49m. 0s. Epicentre 5°-17S. 151°-99E. Dpeth of focus = 0.016R.

A = -0.8794, B = +0.4677, C = -0.0894;  $\delta$  = +8; h = +7;  
D = +0.470, E = +0.883; G = +0.079, H = -0.042, K = -0.996.

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Rabaul	z.	1.0	10	i 0	8 <sub>k</sub>	-15	—	—	—	—	—	—
Guam		19.9	339	i 4	20	- 2	—	—	—	—	—	—
Nouméa		22.0	142	i 4	40	- 3	e 8	19	-15	i 5	12	PPP
Brisbane		22.2	178	4	41	- 5	i 8	45	+ 8	—	—	—
Riverview		28.5	182	i 5	41	- 3	e 10	24	+ 2	—	—	—
Suva	N.	28.9	119	—	—	—	e 10	21	- 7	e 12	8	SS
Melbourne		33.1	190	i 6	21	- 3	e 11	4	-30	e 7	1	pP
Baguio City		37.8	305	i 7	4	0	i 13	14	+28	i 8	38	pP
Cobb River	E.	40.3	156	e 7	51	+25	—	—	—	—	—	—
Perth		43.1	227	—	—	—	—	—	—	i 15	29	?
Matusiro		43.4	344	7	47	- 3	14	26	+17	i 9	36	PcP
Lembang	z.	44.2	266	e 7	54	- 2	—	—	—	—	—	—
Hong Kong		46.0	308	e 8	13 <sub>k</sub>	+ 2	15	14	+28	—	—	—
Zô-Sô		46.6	323	e 8	15	- 0	e 15	9	+14	e 10	3	PP
Nanking		48.7	322	e 8	32	0	e 15	42	+17	—	—	—

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Macquarie Is.	z.	49.5	175	i 8 44	+ 5	—	—	—	—
Peking		55.8	327	e 9 23	- 1	17 12	+11	—	—
Shillong		65.8	301	i 10 32 <sub>a</sub>	0	e 19 31	+23	—	e 32.2
College		82.5	22	i 12 6	- 2	—	—	i 13 4	—
Sitka		85.0	32	i 12 21	0	e 22 44	+ 5	e 13 22	PP e 37.2
Quetta		88.3	300	i 12 37 <sub>a</sub>	0	e 23 1	[+ 8]	—	—
Berkeley		89.8	52	e 12 44 <sub>a</sub>	0	e 23 28	+ 4	e 24 45	PS e 41.0
Corvallis	z.	89.8	45	i 12 43	- 1	—	—	—	—
Santa Clara	E.	90.0	52	—	—	e 23 34	+ 8	—	—
Shasta	z.	90.0	49	e 12 44	0	—	—	—	—
Lick	z.	90.2	53	e 12 41 <sub>a</sub>	- 4	—	—	e 13 5	pP
Victoria		90.2	41	i 12 45 <sub>a</sub>	- 1	e 23 31	+ 4	—	e 42.0
Horseshoe Bay		90.4	41	i 12 38 <sub>a</sub>	- 9	—	—	—	—
Mineral	z.	90.6	50	e 12 46 <sub>a</sub>	- 1	—	—	—	—
Seattle		90.9	42	e 12 49	0	23 36	+ 2	e 24 3	PS 43.0
King Ranch	z.	91.5	55	e 12 54	+ 1	—	—	—	—
Fresno	z.	91.6	53	i 12 51	- 1	—	—	—	—
Reno	z.	91.9	51	e 12 54	0	—	—	—	—
Woody	z.	92.3	54	i 12 55 <sub>a</sub>	0	—	—	—	—
Isabella	z.	92.6	55	i 12 57	0	—	—	—	—
Pasadena		92.7	56	i 12 58 <sub>a</sub>	0	i 23 48	- 1	e 16 28	PP 41.0
Tinemaha	z.	92.9	53	i 13 2	+ 3	—	—	—	—
China Lake	z.	93.3	54	i 12 59 <sub>a</sub>	- 1	—	—	—	—
Riverside		93.4	56	i 13 1 <sub>a</sub>	0	e 23 51	- 4	—	—
Palomar	z.	93.8	57	13 3 <sub>a</sub>	0	—	—	—	—
Barratt		93.9	58	e 13 3	0	e 23 54	- 6	—	—
Hayfield	N.	94.8	57	e 13 7	0	—	—	—	—
Eureka		94.8	51	i 13 7	0	e 30 15	PKKP	i 14 6	sP
Boulder City		95.6	54	i 13 10	0	—	—	i 16 57	PP
Hungry Horse		96.5	42	i 13 13	- 1	e 38 19	P'P'	e 17 5	PP
Butte		97.5	44	e 13 19	0	e 23 57	[+13]	i 24 14	SKKS e 40.0
Salt Lake City		98.0	50	e 13 23	+ 1	—	—	e 17 25	PP
Bozeman		98.5	45	i 13 23	0	—	—	—	—
Tucson		98.8	58	e 13 27	+ 1	—	—	17 25	PP
Resolute		101.0	14	e 13 14	-20	24 0	[- 2]	18 5	pPP
Rapid City	E.	104.2	46	e 13 50	0	—	—	e 18 7	PP
Tacubaya		109.4	71	e 18 23	PP	e 26 0	S	e 21 15	PPP
Kiruna		109.5	342	e 18 47	PP	e 25 4	[+24]	e 28 3	PS
Ksara		114.5	305	—	—	—	—	i 19 28	PP
Florissant	N.	114.6	50	—	—	e 26 40	S	e 35 19	SS
Scoresby Sund		114.7	358	—	—	25 29	[+29]	e 29 16	PS 53.0
Skalstugan		114.8	341	i 18 21	[- 3]	—	—	—	—
St. Louis		114.8	50	e 19 18	PP	26 41	S	e 29 7	PS
Upsala		115.4	336	e 19 23	PP	i 34 39	SS	—	—
Warsaw		118.2	328	e 19 54	PP	e 29 42	PS	e 26 17	SS e 62.0
Kirkland Lake	z.	118.5	37	e 18 31	[- 1]	—	—	—	—
Copenhagen		120.2	335	e 20 10	PP	e 25 18	[- 2]	e 30 6	PKKP 60.0
Astrida		121.8	263	e 18 39	[ 0]	—	—	—	—
Ottawa		122.4	38	e 18 37	[- 1]	25 26	[- 2]	19 25	pPKP
Bratislava		122.5	326	18 26	[-12]	—	—	19 26	PP e 61.0
Lwiro		122.8	264	e 14 43	P	—	—	e 18 43	PKP
Columbia		123.2	52	i 18 42	[+ 1]	e 27 34	S	26 6	SKKS e 53.2
Shawinigan Falls		123.6	36	e 18 46	[+ 4]	—	—	—	—
Seven Falls		124.4	34	e 18 49 <sub>k</sub>	[+ 6]	—	—	—	—
Palisades		125.7	42	18 45	[ 0]	e 26 4	[+26]	e 20 32	PP e 58.0
De Bilt		125.8	335	—	—	30 0?	PS	e 20 40	PP e 61.0
Stuttgart		126.3	330	e 18 48	[+ 1]	e 20 41	PP	e 19 30	pPKP
Strasbourg		127.1	331	e 18 50	[+ 2]	e 30 45	PS	e 19 40	pPKP e 63.0
Florence X.	z.	128.3	324	e 18 50	[+10]	—	—	—	—
Besançon		128.9	331	e 18 54	[+ 2]	—	—	e 19 34	pPKP
Paris		129.4	334	e 18 56	[+ 3]	—	—	e 19 42	pPKP
Halifax		129.9	33	i 18 55 <sub>k</sub>	[+ 1]	—	—	—	e 63.0
Huancayo	z.	129.9	110	e 19 0	[+ 6]	—	—	—	—
Clermont-Ferrand		131.4	331	i 18 59	[+ 2]	—	—	—	—
La Paz		134.9	119	e 19 8	[+ 5]	i 22 42	PKS	i 19 26	pPKP 65.3

Continued on next page.

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	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Algiers Univ.	137.6	322	e 18 56	[-11]	—	—	e 22 2 PP	—
Alicante	138.6	327	e 18 54	[-15]	25 34	[-32]	e 23 14 PKS	e 55.9
San Juan	140.6	67	e 19 15	[+ 1]	—	—	—	—
Granada	141.1	328	e 19 43 <sub>a</sub>	[+28]	22 35	PP	42 29 SS	71.3
Malaga	141.9	329	i 19 7 <sub>a</sub>	[- 8]	—	—	i 22 15 PP	70.7
Tamanrasset	143.2	302	i 19 17 <sub>a</sub>	[ 0]	e 20 14	?	e 20 46 SKP	—
Dominica	145.7	70	i 19 24	[+ 1]	—	—	—	—
St. Vincent	146.2	74	i 19 24 <sub>k</sub>	[ 0]	—	—	—	—
Trinidad	146.4	79	e 19 25	[+ 1]	—	—	—	—

Aug. 5d. 9h. 9m. 7s. Epicentre 40°·73N. 143°·87E.

A = -0.6138, B = +0.4481, C = +0.6500;  $\delta = +4$ ;  $h = -2$ ;  
D = +0.590, E = +0.808; G = -0.525, H = +0.383, K = -0.760.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Urakawa	1.6	330	e 0 31	0	e 0 51	0	1 5 ?	—	
Hatinohe	1.8	264	e 0 32 <sub>a</sub>	0	e 0 55	- 1	e 1 22 ?	—	
Miyako	1.8	234	e 0 31 <sub>a</sub>	- 1	e 0 50	- 6	—	—	
Obihiro	z.	2.2	e 0 47	+ 3 <sub>g</sub>	—	—	—	—	
Kusiro	2.3	10	e 0 39	0	e 1 8	- 1	e 1 44 ?	—	
Morioka	2.3	244	i 0 41 <sub>a</sub>	+ 1	i 1 7	- 2	—	—	
Aomori	2.4	273	i 0 40	- 1	e 1 8	- 4	e 1 23 S <sub>g</sub>	—	
Tomakomai	2.5	317	e 0 46	+ 3	e 1 17	+ 3	—	—	
Hakodate	2.6	295	e 0 45	+ 1	—	—	—	—	
Mizusawa	2.6	234	i 0 45	0	1 14	- 3	—	—	
Muroran	2.7	307	e 0 45	0	e 1 24	+ 5	—	—	
Mori	2.8	300	0 50	+ 2	e 1 21	- 1	i 1 40 S <sub>g</sub>	—	
Nemuro	2.9	26	e 0 48	0	e 1 19	- 5	—	—	
Sapporo	3.0	322	e 0 54	+ 5	e 1 28	+ 1	—	—	
Isinomaki	3.0	221	e 0 49	0	e 1 30	+ 3	—	—	
Akita	3.1	252	e 0 50	0	1 25	- 4	—	—	
Asahigawa	3.2	340	e 1 0	+ 7	—	—	—	—	
Abashiri	3.3	5	e 0 57	+ 3	e 1 33	- 2	e 2 5 ?	—	
Sendai	3.4	224	e 0 53 <sub>a</sub>	- 1	1 33	- 4	—	—	
Suttsu	3.4	308	e 0 52	- 3	—	—	e 2 14 ?	—	
Sakata	3.6	241	—	—	e 1 49	+ 7	—	—	
Yamagata	3.7	229	e 0 58	- 1	e 1 43	- 2	—	—	
Hokusima	4.0	223	e 1 1	- 2	1 47	- 5	—	—	
Onahama	4.4	212	e 1 12	+ 2	e 1 50	-12	—	—	
Shirakawa	4.6	220	e 1 2	-10	e 2 2	- 5	—	—	
Nilgata	4.7	235	e 1 45	+31	e 2 38	+ 3 <sub>g</sub>	—	—	
Wakkanai	E.	5.0	342	—	e 2 42	- 3 <sub>g</sub>	—	—	
Mito	5.1	213	e 1 19	0	e 2 12	- 8	—	—	
Aikawa	5.1	240	e 1 20	0	—	—	—	—	
Utsunomiya	E.	5.2	218	e 1 20	- 1	e 2 18	- 4	e 2 35 ?	—
Kakioka	5.4	214	e 1 19	- 3	2 25	- 3	—	—	
Takada	5.7	232	—	—	e 2 20	-15	—	—	
Maebasi	5.7	222	e 1 27	- 1	i 2 33	- 2	e 3 10 ?	—	
Kumagaya	5.8	219	e 1 32	+ 3	e 2 32	- 6	—	—	
Tokyo, C.M.O.	6.0	214	e 1 36	+ 4	i 2 31	-12	—	—	
Nagano	N.	6.0	229	e 1 35	+ 2	e 3 10	- 8 <sub>g</sub>	—	—
Oiwake	6.1	225	e 1 46	+13	e 2 54	+ 9	—	—	
Yokohama	6.2	214	e 1 49	+13	e 3 17	- 8 <sub>g</sub>	e 2 45 ?	—	
Matumoto	6.4	228	e 1 51	+12	e 3 17	+ 3*	—	—	
Kohu	6.6	221	e 1 39	- 1	e 2 55	- 3	—	—	
Toyama	6.6	234	e 1 41	0	e 2 35	-23	—	—	
Hunatu	6.6	219	e 1 49	+ 8	e 3 10	+12	—	—	
Mera	6.6	210	—	—	—	—	e 2 32 ?	—	
Misima	6.8	216	e 1 43	0	e 3 16	-10*	—	—	
Osima	6.9	212	—	—	e 2 55	-10	—	—	

Continued on next page.

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Iida	7.0	224	e 1	59	- 3*	e 3	7	- 1	—	—	—
Shizuoka	7.2	219	e 2	15	+ 9*	e 3	31	0	—	—	—
Omaesaki	7.6	218	—	—	—	e 3	21	- 2	4	18	S*
Gihu	7.7	229	e 1	50	- 6	e 3	21	- 4	e 3	46	S*
Nagoya	7.8	227	e 2	11	+13	e 4	4	+ 8*	—	—	—
Hikone	8.1	230	e 2	2	0	—	—	—	—	—	—
Kameyama	8.3	227	e 2	21	+16	e 3	56	+16	—	—	—
Tu	8.4	226	e 2	20	P*	—	—	—	—	—	—
Kyoto	8.6	231	e 2	10	+ 2	3	55	+ 7	—	—	4.5
Osaka	9.0	230	e 2	31	+17	e 4	34	+ 3*	—	—	—
Sumoto	9.6	231	e 2	54	P*	e 4	52	+ 3*	—	—	—
Tokusima	9.9	231	e 2	44	P*	—	—	—	—	—	—
Changchun	14.1	289	e 3	20	- 2	—	—	—	—	—	—
Peking	21.1	277	e 4	43	- 5	8	48	+ 9	—	—	—
Nanking	21.9	255	e 4	32	-24	e 9	1	+ 7	—	—	—
Shillong	45.4	267	e 8	19	- 3	—	—	—	—	—	e 26.0
Resolute	58.5	16	9	58	- 2	—	—	—	e 13	0	PPP
Quetta	61.7	287	10	20 <sup>a</sup>	- 2	—	—	—	—	—	e 32.8
Sodankyla	62.3	337	i 10	24	- 2	—	—	—	—	—	—
Kiruna	63.7	339	i 10	34	- 1	19	7	- 3	e 20	28	ScS
Hungry Horse	67.8	45	e 11	2	0	—	—	—	—	—	—
Mineral	z. 68.1	55	e 11	2	- 1	—	—	—	—	—	—
Skalstugan	69.2	339	e 11	8	- 2	—	—	—	—	—	—
Upsala	70.5	334	i 11	15	- 3	—	—	—	—	—	—
Eureka	72.1	53	i 11	28	0	—	—	—	e 11	41	PcP
Woody	z. 72.6	58	i 11	30	0	—	—	—	i 11	40	PcP
Isabella	z. 72.9	58	e 11	31	- 1	—	—	—	—	—	—
China Lake	z. 73.3	57	e 11	40	+ 5	—	—	—	—	—	—
Pasadena	74.0	59	e 11	44	+ 5	—	—	—	e 11	56	PcP
Riverside	z. 74.6	58	e 11	51	+ 8	—	—	—	—	—	—
Barratt	z. 75.9	59	e 11	58	+ 8	—	—	—	—	—	—
Rapid City	E. 76.3	43	e 11	54	+ 1	—	—	—	—	—	—
Jena	z. 79.6	332	e 12	9	- 1	—	—	—	—	—	—
Bratislava	79.7	327	12	12	0	—	—	—	e 13	5	?
Stuttgart	82.3	332	e 12	23	- 1	—	—	—	—	—	—
Rathfarnham C.	z. 82.9	342	—	—	—	—	—	—	e 20	33	?
Paris	84.5	336	e 12	37	0	—	—	—	e 12	45	PcP
Fayetteville	86.8	44	e 12	46	- 1	—	—	—	—	—	—

Aug. 9d. 17h. 0m. 51s. Epicentre 10°·80N. 86°·14W.

A = +0.0662, B = -0.9803, C = +0.1861;  $\delta=0$ ;  $h=+6$ ;  
D = -0.998, E = -0.067; G = +0.012, H = -0.186, K = -0.982.

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
San Salvador	4.2	314	e 1	17	+ 2*	e 1	52	- 5	—	—	—
Balboa Heights	6.7	105	e 1	48	+ 5	—	—	—	—	—	—
Merida	10.6	342	e 2	48	+12	—	—	—	—	—	—
Chinchina	11.9	118	e 2	52	- 2	i 5	8	- 1	—	—	6.2
Vera Cruz	12.8	312	—	—	—	e 4	30	-60	—	—	—
Bogota	13.4	116	e 3	20	+ 5	i 6	10	+25	—	—	7.2
Tacubaya	15.2	306	i 3	42	+ 4	e 6	24	- 4	—	—	—
San Juan	20.8	66	e 4	45	0	—	—	—	—	—	—
Columbia	23.6	11	i 5	14	+ 1	e 9	38	+13	—	—	e 10.9
Huancayo	z. 25.1	154	e 5	23	- 4	—	—	—	—	—	—
Chapel Hill	25.8	13	i 5	35	0	—	—	—	—	—	—
Fayetteville	26.2	345	i 5	35 <sup>a</sup>	- 3	—	—	—	—	—	—
Washington	29.1	15	e 6	4	0	—	—	—	i 6	11	?
Tucson	31.2	317	e 6	24	0	—	—	—	—	—	e 16.8
Palisades	32.0	18	i 6	29	0	e 11	33	- 9	e 7	38	PP
Boulder	33.7	333	e 6	43	- 1	—	—	—	—	—	—
Hayfield	N. 35.3	315	e 6	58	- 1	—	—	—	—	—	—
Barratt	z. 35.5	312	e 7	1	0	—	—	—	—	—	—
Ottawa	35.6	13	i 7	0 <sup>k</sup>	- 1	12	53	+15	e 8	18	PP
Palomar	z. 36.0	313	i 7	5 <sup>a</sup>	0	—	—	—	—	—	e 19.4

Continued on next page.



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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Rapid City	E.	36.3	339	e 7 7	0	—	—	—	—
Riverside	Z.	36.7	314	i 7 12 <sub>a</sub>	+ 1	—	—	e 9 31	PcP
Pasadena		37.4	314	i 7 17	0	—	—	—	—
Shawinigan Falls		37.4	15	e 7 22	+ 5	—	—	e 7 39	?
Salt Lake City		37.5	327	e 7 17	0	—	—	9 34	PcP
China Lake	Z.	37.9	316	i 7 21 <sub>a</sub>	0	—	—	e 9 37	PcP
Isabella	Z.	38.4	315	i 7 26 <sub>a</sub>	+ 1	—	—	i 9 38	PcP
Woody	Z.	38.7	315	i 7 28	+ 1	—	—	i 9 38	PcP
Tinemaha	Z.	39.0	318	i 7 32	+ 2	—	—	—	—
Eureka		39.0	322	e 7 30	0	—	—	i 7 46	?
King Ranch	Z.	39.1	314	e 7 32	+ 1	—	—	—	—
Fresno	Z.	39.9	316	e 7 37	0	—	—	—	—
Bozeman		40.8	333	e 7 44	0	—	—	e 9 46	PcP
Reno	Z.	41.4	320	i 7 51	+ 1	—	—	—	—
Lick	Z.	41.4	316	e 7 51	+ 1	—	—	—	—
Butte		41.7	332	e 7 52	0	—	—	e 9 49	PcP
Berkeley	Z.	42.1	316	e 7 56	0	—	—	—	—
Mineral	Z.	43.0	319	e 8 4	+ 1	—	—	—	—
Hungry Horse		44.1	333	e 8 10	- 1	—	—	e 9 55	PcP
Corvallis	Z.	46.4	323	e 8 32	+ 2	—	—	—	—
Tamanrasset		87.4	67	e 12 46	- 4	—	—	—	—
Quetta		131.7	32	e 19 15 <sub>a</sub>	[ 0 ]	—	—	—	—

Aug. 9d. 23h. 0m. 47s. Epicentre 15°·94S. 175°·03W. Depth of focus 0·037.

A = -0·9584, B = -0·0834, C = -0·2728;  $\delta$  = -9;  $h$  = +6;  
D = -0·087, E = +0·996; G = +0·272, H = +0·024, K = -0·962.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Apia		3.8	56	e 1 2	0	1 51	- 3	—	—
Suva	N.	6.6	250	i 1 40	+ 3	2 34	-18	—	—
Nouméa		18.6	247	e 3 55	- 3	i 6 59	- 5	—	—
Onerahi		21.9	204	i 4 35	+ 3	8 22	+10	15 17	ScS
Auckland	N.	22.7	202	i 4 40	0	8 32	+ 7	—	—
Karapiro	N.	23.4	199	i 4 45	- 1	8 38	+ 2	—	—
Tuaiti	N.	23.8	195	4 48	- 1	8 40	- 4	—	—
New Plymouth	E.	25.0	200	5 2	+ 1	e 8 58	- 8	e 5 53	pP
Wellington		26.8	197	i 5 14	- 2	e 9 29	- 5	—	—
Christchurch		29.4	198	i 5 43	+ 2	e 10 11	- 5	e 7 9	PP
Brisbane		31.7	243	i 5 59	- 1	i 10 47	- 5	—	—
Rabaul		34.3	286	e 6 21 <sub>a</sub>	- 1	e 11 25	+ 1	e 8 14	PP
Riverview		35.3	233	i 6 29 <sub>a</sub>	- 1	i 11 44	- 3	i 7 4	pP
Honolulu		40.6	25	i 7 16 <sub>a</sub>	+ 1	i 13 5	- 2	i 8 11	pP
Melbourne		41.4	230	i 7 20	- 1	i 13 10	- 8	i 7 54	pP
Macquarie Is.		43.5	202	i 7 27	0	—	—	—	—
Guam		49.4	304	i 8 23	0	—	—	—	—
Perth		64.2	242	i 10 10	+ 2	i 18 25	0	23 12	SS
Mera		66.3	320	i 10 20	0	i 18 45	- 6	—	—
Osima		66.5	320	e 10 25	+ 3	e 18 51	- 2	—	—
Yokohama		66.7	321	e 10 20	- 3	e 18 58	+ 2	—	—
Tokyo, C.M.O.		66.8	321	e 10 25 <sub>k</sub>	0	i 18 55	- 2	13 5	PP
Kakioka	E.	67.0	322	e 10 21	- 3	—	—	—	—
Misima		67.0	320	e 10 21	- 3	e 18 53	- 6	—	—
Onahama		67.0	323	e 10 25	0	—	—	—	—
Omaesaki		67.1	319	e 10 28	+ 2	e 18 58	- 2	—	—
Shizuoka		67.2	320	e 10 28	+ 1	19 0	- 2	—	—
Utunomiya	E.	67.4	322	e 10 28	0	—	—	—	—
Kumagaya		67.4	321	e 10 28	0	e 19 4	0	—	—
Titibu		67.4	321	e 10 29	+ 1	i 19 3	- 1	—	—
Kohu		67.5	320	e 10 29	0	e 19 4	- 1	e 20 8	ScS
Shirakawa		67.5	322	e 10 25	- 3	e 18 59	- 6	e 11 9	PcP
Maebasi		67.7	321	e 10 29	0	e 19 7	0	e 11 41	pP
Hokusima		67.8	323	10 30	0	19 7	- 1	—	—
Sendai		67.9	324	e 10 30	0	19 8	- 1	22 18	SS

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Oiwake		68.0	321	e 10 32	0	e 19 11	0	e 37 56	P'P'
Owase	N.	68.0	318	e 10 33	+ 1	—	—	—	—
Nagoya	N.	68.2	319	e 10 35	+ 2	—	—	—	—
Tu		68.2	318	—	—	e 19 13	0	—	—
Matumoto		68.3	320	e 10 35	+ 1	e 19 13	- 1	—	—
Kameyama		68.3	318	e 10 35	+ 1	19 15	+ 1	—	—
Matusiro		68.4	321	i 10 32 <sup>k</sup>	- 1	i 19 14	- 1	i 12 14	pP
Nagano	N.	68.4	321	e 10 37	+ 2	e 19 21	+ 6	e 38 49	P'P'
Gihu		68.5	319	e 10 34	0	19 16	0	e 21 1	—
Takayama	N.	68.7	320	e 10 35	0	—	—	—	—
Hikone		68.8	319	e 10 36	0	—	—	—	—
Niigata	E.	68.8	322	e 10 23	-13	e 19 13	- 7	—	—
Morioka		68.8	325	e 10 36	0	e 19 15	- 5	—	—
Osaka		68.8	318	e 10 40	+ 3	e 19 22	+ 2	—	—
Kyoto		68.9	318	10 27	-10	19 12	-10	—	—
Sakata		69.0	324	e 10 44	+ 6	—	—	—	—
Sumoto		69.1	317	i 10 39 <sup>a</sup>	+ 1	19 24	0	—	—
Toyama		69.1	320	e 10 44	+ 6	—	—	—	—
Kobe		69.1	318	e 10 39	+ 1	e 19 9	-15	e 19 22	S
Tokusima		69.1	317	e 10 41	+ 2	e 19 22	- 2	e 20 20	ScS
Nemuro		69.2	330	e 10 37	- 1	e 19 21	- 4	—	—
Akita		69.4	324	i 10 40	0	19 28	+ 1	e 12 0	PcP
Kusiro		69.5	329	e 10 39	- 1	e 19 26	- 2	—	—
Kotl		69.5	316	e 10 42	+ 1	e 19 30	+ 2	—	—
Urakawa		69.7	328	e 10 43	+ 1	19 30	- 2	—	—
Aomori		69.8	326	e 10 43	0	—	—	—	—
Yakusima		69.8	312	10 45	+ 2	—	—	—	—
Manila		70.1	292	i 10 44	0	i 19 34	- 2	—	—
Abashiri		70.3	330	e 10 48	+ 2	19 39	+ 1	e 24 58	SS
Kagosima		70.4	312	e 10 47	+ 1	e 19 40	+ 1	—	—
Tomakomai		70.5	327	e 10 50	+ 3	i 19 43	+ 3	—	—
Muroran	N.	70.7	327	e 10 48	0	e 19 42	0	—	—
Mori	E.	70.8	327	e 10 52	+ 2	e 19 22	-21	—	—
Kumamoto		71.0	314	e 10 31	-18	19 45	- 1	—	—
Asahigawa		71.0	329	e 10 46	- 3	—	—	—	—
Sapporo		71.0	328	e 10 51	+ 1	e 19 46	0	e 11 52	pP
Hamada		71.2	316	e 10 35	-16	e 19 49	+ 1	e 20 38	ScS
Saga		71.5	314	e 10 54	+ 1	i 19 53	+ 1	—	—
Petropavlovsk		72.4	344	10 55	- 3	i 19 56	- 6	i 12 5	pP
Wakkanai	E.	72.6	330	e 11 1	+ 2	e 20 5	+ 1	—	—
Branner	Z.	72.7	42	i 11 0	0	—	—	—	—
San Francisco	E.	72.7	41	e 11 0	0	—	—	—	—
Ituhara		72.7	314	e 11 2	+ 2	e 20 19	+14	—	—
Santa Clara		72.8	42	i 11 2 <sup>a</sup>	+ 1	e 20 9	+ 5	i 12 8	pP
Berkeley		72.9	41	i 11 1 <sup>a</sup>	0	i 20 7	0	e 12 5	pP
Lick	Z.	73.0	42	i 11 2 <sup>a</sup>	0	38 36	P'P'	i 12 7	pP
Ukiah		73.1	40	i 11 2	0	e 20 9	0	i 12 11	pP
King Ranch	Z.	73.1	45	i 11 4 <sup>a</sup>	+ 2	—	—	i 12 13	pP
Yuzno-Sakhlinsk		73.2	331	i 11 3	0	i 20 9	0	i 12 11	pP
Hsinkong		73.3	301	11 4	0	—	—	—	—
Hwalien		73.5	302	11 6	+ 1	20 17	+ 3	—	—
Pasadena		73.5	46	i 11 5 <sup>a</sup>	0	i 20 14	0	i 12 7	pP
Ilan		73.7	302	e 11 6	0	—	—	—	—
Barratt		73.8	48	i 11 6 <sup>a</sup>	0	i 20 17	0	i 12 8	pP
Fresno	Z.	73.9	43	e 11 7	0	—	—	e 12 17	pP
Riverside		74.0	47	i 11 6	- 1	i 20 19	0	11 21	pP
Palomar		74.0	48	i 11 6	- 1	e 20 21	+ 2	i 12 16	pP
Taipei		74.0	302	11 9	+ 1	20 20	+ 1	—	—
Isabella	Z.	74.1	45	i 11 8 <sup>a</sup>	0	e 20 21	+ 1	i 12 16	pP
Mineral	Z.	74.8	40	e 11 11 <sup>a</sup>	0	—	—	e 12 18	pP
China Lake	Z.	74.8	45	i 11 11 <sup>a</sup>	0	e 20 23	+ 5	i 12 20	pP
Tinemaha		75.1	44	i 11 15	+ 1	i 20 32	0	i 12 24	pP
Hayfield	N.	75.1	48	i 11 14	0	e 20 34	+ 2	—	—
Reno	Z.	75.4	41	i 11 16	0	—	—	i 12 26	pP

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Bandung	76.0	267	e 11	21	+ 2	e 20	39	- 2	—	—	—
Vladivostok	76.3	323	i 11	20	0	i 20	43	+ 1	i 12	29	pP
Mirny	76.3	204	i 11	19	- 1	i 20	39	- 5	e 12	29	pP
Corvallis	76.4	35	i 11	21	0	e 13	10	sP	i 12	30	pP
Boulder City	76.8	46	11	23 <sub>a</sub>	0	—	—	—	—	—	—
Djakarta	77.0	267	i 11	23 <sub>k</sub>	0	i 20	51	- 1	e 14	16	PP
Zô-Sè	77.0	308	e 11	24 <sub>k</sub>	0	20	48	- 4	12	32	pP
Eureka	77.9	43	i 11	28 <sub>a</sub>	0	e 20	58	- 4	i 12	38	pP
Tucson	77.9	51	i 11	30 <sub>a</sub>	+ 1	i 21	2	0	i 12	39	pP
Victoria	78.8	32	e 11	33 <sub>k</sub>	- 1	i 21	9	- 2	e 12	36	pP
Seattle	78.9	33	11	24	-10	i 21	13	+ 1	12	38	pP
Hong Kong	79.0	297	11	35	- 1	13	19	PP	12	47	sP
Guadalajara	79.2	65	e 11	33	- 3	e 21	9	- 6	e 12	35	pP
Nanking	79.3	308	i 11	37 <sub>k</sub>	0	i 21	18	+ 2	12	48	pP
Sitka	79.9	21	i 11	40 <sub>a</sub>	0	i 21	18	- 4	i 12	42	pP
Chihuahua	80.0	56	i 11	57 <sub>k</sub>	+16	e 21	37	+13	i 13	1	pP
Canton	80.1	297	11	41 <sub>k</sub>	0	i 21	25	0	12	52	pP
Magadan	80.2	343	e 11	39	- 2	i 21	20	- 6	e 12	48	pP
Dairen	80.4	315	11	46	+ 3	—	—	—	—	—	—
Changchun	80.6	321	11	44	0	21	30	0	12	55	pP
Salt Lake City	81.2	43	e 11	46 <sub>k</sub>	0	e 21	24	-12	i 12	54	pP
Tacubaya	82.4	67	i 12	3	+10	e 21	51	+ 3	e 15	3	PP
Puebla	83.2	68	—	—	—	—	—	—	e 13	33	sP
College	83.2	11	e 11	55 <sub>a</sub>	- 1	i 21	46	-10	i 13	4	pP
Butte	83.4	38	i 11	58 <sub>a</sub>	0	i 21	54	- 4	i 13	6	pP
Oaxaca	83.8	70	—	—	—	e 21	59	- 3	e 13	7	pP
Hungry Horse	83.8	36	i 11	59 <sub>a</sub>	0	i 21	55	- 7	i 13	9	pP
Bozeman	84.2	39	i 12	2 <sub>k</sub>	0	e 22	1	- 5	e 13	8	pP
Peking	84.7	314	i 12	4 <sub>k</sub>	0	22	10	0	13	16	pP
Vera Cruz	85.1	69	e 12	20 <sub>k</sub>	+13	e 22	16	+ 2	i 13	25	pP
Kwanting	85.2	314	12	10	+ 3	—	—	—	—	—	—
Boulder	85.3	46	i 12	8	0	—	—	—	—	—	—
Tatung	86.8	313	e 12	19	+ 4	22	37	+ 6	—	—	—
Shenchow	87.0	307	e 12	13	- 3	—	—	—	—	—	—
Sian	87.8	306	12	24	+ 5	22	44	+ 4	—	—	—
Comitan	87.8	72	—	—	—	e 22	53	+13	e 24	25	PS
Rapid City	88.4	43	e 12	23 <sub>a</sub>	0	e 22	30	[+ 4]	i 13	30	pP
Saskatoon	89.8	35	i 13	36	+67	i 22	32	[- 3]	i 22	55	S
Yinchuan	91.2	310	e 12	39	+ 3	—	—	—	—	—	—
Merida	91.4	69	e 12	41 <sub>k</sub>	+ 4	e 23	18	+ 5	i 13	47	pP
Fayetteville	92.1	53	i 12	39	0	e 16	23	PP	e 13	47	pP
Wuwei	93.8	308	e 12	49	+ 2	—	—	—	—	—	—
Tiksi	95.1	345	e 12	50	- 2	—	—	—	e 14	3	pP
Florissant	95.8	52	e 12	56	- 1	i 23	52	+ 4	i 14	5	pP
Huancayo	95.8	104	e 13	0	+ 3	e 23	11	[+ 2]	e 14	10	pP
St. Louis	95.8	52	i 12	56	- 1	i 23	6	[- 3]	14	2	PP
Irkutsk	96.8	322	e 12	59	- 1	i 24	1	+ 3	14	13	pP
Terre Haute	98.1	51	e 17	13	PP	—	—	—	e 22	3	?
Shillong	99.4	294	i 13	12	0	—	—	—	—	—	—
Chinchina	100.4	88	i 14	27	+70	i 24	38	+ 9	i 23	28	SKS
La Paz	101.0	111	e 13	25	+ 5	24	33	0	i 14	33	pP
Bogota	101.8	88	i 17	39	PP	i 23	35	[- 3]	i 24	39	S
La Plata	101.8	132	17	37	PP	i 23	39	[0]	31	55	S
Columbia	102.0	58	e 13	27 <sub>a</sub>	0	i 23	38	[- 1]	e 14	35	pP
Galerazamba	102.2	82	i 17	47	PP	i 23	44	[+ 3]	i 24	58	S
Resolute	102.7	16	e 14	35	sP	e 24	27	- 1	e 23	38	SKS
Cleveland	103.0	51	e 14	38	sP	i 23	41	+ 5	e 17	39	PP
Chapel Hill	103.9	56	i 13	34	- 1	—	—	—	i 17	52	PP
Bokaro	104.5	291	—	—	—	i 25	8	+ 6	i 32	25	SS
Washington	105.9	54	i 18	7	PP	e 24	14	[+16]	14	49	pP
Colombo	106.4	273	—	—	—	e 26	5	PS	e 18	13	PP
Ottawa	107.6	47	e 17	56	[0]	24	2	[- 2]	24	56	SKKS
Palisades	108.6	52	e 14	59	P	i 24	6	[- 3]	e 18	13	PP
Shawinigan Falls	109.8	46	e 18	3	[+ 2]	—	—	—	—	—	—
Hyderabad	110.0	283	e 18	33	PP	e 24	11	[- 1]	e 20	15	PP

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	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Seven Falls	111.1	45	—	—	24 18	[- 1]	25 20	SKKS	—
Semipalatinsk	111.5	318	e 17 49	[- 12]	e 18 39	PP	i 20 21	PPP	—
Dehra Dun	112.3	297	—	—	i 26 15	S	e 19 8	PP	—
San Juan	112.4	76	e 18 4 <sub>a</sub>	[ 0]	—	—	e 28 55	PKKP	—
Poona	114.5	283	i 18 7	[ 0]	—	—	e 19 3	PP	—
Bombay	115.6	284	—	—	e 26 44	S	e 18 59	PP	—
Frunse	115.6	310	i 18 11	[+ 1]	i 28 53	PS	i 19 15	pPKP	—
Halifax	116.2	48	—	—	—	—	e 28 45	PS	e 59.2
Fort de France	116.5	81	—	—	e 24 42	[+ 2]	e 28 43	PS	—
Tashkent	119.6	309	e 18 19	[+ 1]	i 24 49	[- 1]	i 19 41	PP	—
Stalinabad	120.2	306	i 18 20	[+ 1]	e 24 54	[+ 1]	—	—	—
Sverdlovsk	121.8	328	e 19 50	PP	e 24 53	[- 5]	e 36 14	SS	—
Quetta	121.9	296	i 18 22	[ 0]	—	—	e 26 30	S	—
Scoresby Sund	123.0	10	i 18 24	[ 0]	i 25 4	[+ 2]	e 19 43	pPKP	—
Tananarive	125.6	232	e 18 31 <sub>a</sub>	[+ 2]	e 20 27	PP	e 21 24	pPP	—
Grahamstown	126.9	203	i 18 32	[ 0]	—	—	—	—	—
Kiruna	127.2	353	e 18 23	[- 8]	i 37 19	SS	i 21 49	PKS	—
Hermanus	128.1	195	—	—	i 37 28	SS	e 20 37	PP	—
Ashkabad	128.4	306	e 18 35	[ 0]	22 1	PKS	e 19 45	pPKP	—
Reykjavik	128.4	15	i 18 36 <sub>k</sub>	[+ 1]	e 21 28	PP	i 19 51	pPKP	—
Pietermaritzburg	128.5	208	e 19 9 <sub>a</sub>	[+ 34]	—	—	—	—	—
Kimberley	131.6	204	e 18 25	[- 15]	—	—	—	—	—
Skalstugan	132.1	356	i 18 30	[- 11]	i 21 44	SKP	i 19 56	pPKP	—
Pulkovo	132.5	343	i 18 38	[- 3]	i 22 9	PKS	i 21 7	PP	—
Pretoria	132.8	209	e 18 47	[+ 4]	—	—	—	—	—
Moscow	133.1	335	i 18 43	[ 0]	i 22 13	PKS	i 19 49	pPKP	—
Upsala	135.2	351	i 18 34	[- 12]	i 22 19	PKS	i 19 59	pPKP	—
Goris	137.0	311	e 18 38	[- 12]	—	—	—	—	—
Aberdeen	138.5	6	e 19 13	[+ 19]	i 26 11	SKKS	i 22 19	SKP	—
Copenhagen	139.9	353	i 18 51	[- 4]	i 22 38	PKS	i 20 10	pPKP	—
Durham	140.9	6	19 1	[+ 3]	22 39	PKS	e 16 6	P	—
Warsaw	141.6	344	i 18 56	[- 3]	e 29 2	SKKS	i 20 13	pPKP	e 58.2
Rathfarnham Castle	141.7	11	i 18 55 <sub>a</sub>	[- 4]	e 25 25	[- 18]	i 20 17	pPKP	—
Simferopol	142.1	326	e 18 57	[- 2]	—	—	—	—	—
Hamburg	142.2	355	18 59 <sub>a</sub>	[- 1]	e 22 44	PKS	e 20 14	pPKP	—
Lwow	142.8	340	e 18 58	[- 3]	i 22 39	PKS	i 20 8	pPKP	—
Witteveen	143.2	358	i 19 0	[- 1]	i 22 18	PP	i 20 15	pPKP	—
Iasi	143.6	334	19 3	[ 0]	19 42	pPKP	22 44	PKS	—
Angra do Heroismo	143.8	45	—	—	e 26 6	[+ 21]	e 23 4	PKS	—
De Bilt	143.9	0	i 19 3 <sub>k</sub>	[ 0]	e 40 43	SS	i 20 16	pPKP	—
Raciborz	144.3	345	19 8	[+ 4]	24 34	[- 74]	20 23	pPKP	—
Kew	144.3	6	i 19 4	[ 0]	e 25 54	[+ 6]	i 20 11	pPKP	—
Bacau	144.4	334	19 6	[+ 2]	—	—	19 57	pPKP	—
Skalnate Pleso	144.6	343	e 19 3	[- 1]	26 12	[+ 24]	e 19 47	pPKP	—
Jena	144.7	353	e 19 2	[- 2]	e 22 34	PP	i 20 16	pPKP	—
Focsani	145.0	332	19 8	[+ 3]	—	—	19 59	pPKP	—
Prague	145.1	349	19 4	[ 0]	e 28 25	SKKS	e 20 19	pPKP	—
Hurbanovo	146.3	344	i 19 10	[+ 2]	e 28 23	SKKS	20 27	pPKP	—
Bratislava	146.3	345	i 19 9	[+ 1]	i 23 43	PKS	i 20 25	pPKP	—
Bucharest	146.4	332	19 10	[+ 2]	22 33	SKP	19 39	?	—
Budapest	146.4	343	19 13	[+ 5]	e 29 43	SKKS	20 23	pPKP	—
Karlsruhe	146.9	356	i 19 9 <sub>k</sub>	[+ 1]	—	—	i 20 24	pPKP	—
Ksara	147.0	308	19 11	[+ 3]	i 35 28	PPS	i 20 26	pPKP	—
Stuttgart	147.1	355	e 19 8	[ 0]	e 28 55	SKKS	i 20 23	pPKP	—
Paris	147.2	3	e 19 10	[+ 1]	i 22 43	PKS	i 20 27	pPKP	e 83.6
Timisoara	147.3	339	19 16	[+ 7]	—	—	20 31	pPKP	—
Kalossa	147.3	342	19 10	[+ 1]	—	—	e 20 30	pPKP	—
Strasbourg	147.4	357	i 19 9	[ 0]	e 28 56	SKKS	e 20 27	pPKP	—
Safed	147.6	307	e 19 12	[+ 3]	—	—	i 20 30	pPKP	—
Ebingen	147.7	355	e 19 10	[+ 1]	—	—	i 20 28	pPKP	—
Jerusalem	148.3	305	i 19 12 <sub>k</sub>	[+ 2]	—	—	i 20 31	pPKP	—
Belgrade	148.4	339	e 19 12	[+ 2]	29 36	SKKS	i 20 30	pPKP	—
Basle	148.4	357	e 18 23	[- 47]	—	—	19 41	pP'	—
Zürich	148.5	356	e 19 17	[+ 6]	—	—	—	—	—
Besançon	148.8	359	e 19 12	[+ 1]	e 22 48	PP	e 20 33	pPKP	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Neuchatel	149.0	357	e 19 12	[+ 1]	—	—	—	—
Sofia	149.0	333	i 19 12	[+ 1]	i 22 24	PP	i 20 32	pPKP
Astrida	149.4	235	e 19 13k	[+ 1]	—	—	e 22 53	PP
Triest	149.5	345	i 19 11a	[- 3]	e 25 53	[+ 1]	i 20 26	pP'
Clermont-Ferrand	150.2	3	e 19 15	[+ 2]	e 42 13?	SS	i 20 36	pPKP
Lwiro	150.3	235	e 19 15	[+ 2]	—	—	20 42	pPKP
Pavia	150.6	354	i 19 17k	[+ 3]	e 25 51	[- 5]	20 36	pPKP
Bologna	151.0	351	e 19 20	[+ 5]	25 29	[- 28]	e 20 36	pPKP
Prato	151.7	351	e 19 18	[+ 3]	e 29 27	SKKS	—	—
Florence X.	151.7	350	i 19 16	[ 0]	e 29 27	SKKS	i 20 34	pPKP
Athens	152.5	327	e 19 14a	[- 2]	—	—	e 20 21	pPKP
Taranto	153.3	339	e 19 26	[+ 9]	e 42 23	SS	e 24 26	PP
Rome	153.3	348	i 19 21k	[+ 3]	e 41 21	SS	i 20 35	pPKP
Lisbon	154.1	26	19 23	[+ 4]	—	—	20 54	pPKP
Toledo	154.9	16	e 19 22	[+ 2]	25 57	[- 4]	i 20 37	pPKP
Messina	155.9	339	e 19 19	[- 11]	26 0	[- 2]	e 20 21	pPKP
Reggio Calabria	156.0	339	19 13	[- 7]	—	—	e 20 38	pPKP
Alicante	157.2	11	19 13	[- 9]	25 47	[- 17]	30 47	SKKS
Granada	157.5	18	i 19 28k	[+ 5]	i 25 36	[- 28]	20 3	pPKP
Malaga	157.7	20	i 19 24k	[ 0]	26 26	[+ 22]	30 54	SKKS
Almeria	158.2	16	i 19 27	[+ 3]	49 4	SSS	e 43 14	SS
M'Bour	158.8	91	e 19 29	[+ 4]	22 12	SKP	i 20 48	pPKP
Algiers Univ.	159.2	4	e 19 27	[+ 2]	e 23 47	PP	e 20 40	pPKP
Relizane	159.9	10	e 19 29	[+ 3]	e 24 16	PP	e 20 43	pPKP
Tamanrasset	173.2	356	i 19 37k	[+ 1]	e 30 32	SKKS	i 20 51	pPKP

Aug. 12d. 0h. 25m. 49s. Epicentre 19°·84S. 175°·65W. Depth of focus = 0.034R.

A = -0.9387, B = -0.0714, C = -0.3373 ;  $\delta = +3$  ;  $h = +5$  ;  
D = -0.076, E = +0.997 ; G = +0.336, H = +0.026, K = -0.941.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Suva	N.	5.8	286	i 1 26	0	i 2 19	-15	e 2 36	S
Apia		7.0	32	e 1 32	-10	2 41	-20	—	—
Nouméa		16.9	258	i 3 44a	+ 1	i 6 49	+ 8	i 4 5	PPP
Onerahi	E.	18.1	207	e 3 54	- 1	—	—	—	e 7.8
Karapiro	N.	19.6	201	e 4 12	+ 1	7 40	+ 7	—	—
Wellington		22.9	199	e 4 43	0	e 8 39	+ 9	—	—
Cobb River	E.	23.4	203	e 4 51	+ 3	e 8 52	+14	—	—
Brisbane		29.6	249	i 5 44	0	e 10 18	- 1	—	—
Riverview		32.6	238	i 5 57a	-12	e 11 5	- 1	i 6 23	pP
Rabaul	Z.	35.0	292	e 6 27	- 2	e 12 24	PcS	e 8 57	PcP
Melbourne		38.5	234	e 6 59	0	e 11 55	-41	e 7 52	pP
Matusiro	Z.	71.0	322	i 10 51k	0	—	—	—	—
Lembang		75.3	268	e 11 11	- 5	—	—	—	—
Berkeley		76.2	41	e 11 23	+ 1	e 20 53	+10	—	—
King Ranch	Z.	76.3	44	e 11 24	+ 1	—	—	e 12 17	pP
Lick	Z.	76.3	42	i 11 23	0	—	—	—	—
Pasadena		76.6	46	i 11 24k	0	—	—	i 12 17	pP
Barratt	Z.	76.8	48	e 11 27	+ 1	—	—	e 12 20	pP
Palomar	Z.	77.1	47	i 11 28k	+ 1	—	—	i 12 21	pP
Woody	Z.	77.1	44	i 11 26k	0	—	—	i 12 19	pP
Riverside	Z.	77.1	46	i 11 27k	0	—	—	i 12 20	pP
Fresno	Z.	77.1	43	e 11 27	0	—	—	—	—
Isabella	Z.	77.3	45	i 11 28k	0	—	—	i 12 22	pP
Shasta	Z.	77.9	38	i 11 34	+ 2	—	—	—	—
China Lake	Z.	78.0	45	i 11 32k	0	—	—	i 12 25	pP
Hayfield	N.	78.1	48	e 11 15	-17	—	—	e 12 24	pP
Mineral	Z.	78.2	39	e 11 33	0	—	—	—	—
Tinemaha	Z.	78.3	44	i 11 34	0	—	—	i 12 27	pP
Reno	Z.	78.8	41	i 11 32	- 3	—	—	—	—
Zô-Sè		79.0	309	11 46	+ 9	—	—	—	—

Continued on next page.



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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Hong Kong	z.	80.3	298	e 11 46	+ 1	—	—	—	—
Tucson		80.8	51	e 11 49	+ 2	—	—	i 12 42	pP
Eureka		81.1	42	e 11 49	0	—	—	i 12 44	pP
Nanking		81.2	308	i 11 50k	+ 1	—	—	—	—
Seattle	z.	82.4	33	i 11 57	+ 1	—	—	e 12 29	pP
Victoria		82.4	32	i 11 56	0	—	—	12 51	pP
Horseshoe Bay		83.1	31	i 11 56k	- 2	e 21 55	- 1	—	—
Changchun		83.2	321	i 12 1k	+ 1	—	—	—	—
Sitka		83.7	21	e 12 1	0	—	—	—	—
Salt Lake City		84.5	43	e 12 6	0	—	—	e 13 1	pP
Butte	N.	86.8	38	e 12 18	+ 1	—	—	i 13 15	pP
Peking		87.0	314	i 12 18k	0	—	—	—	—
College		87.1	12	e 12 17	- 1	e 22 35	[+ 1]	i 13 15	pP
Hungry Horse		87.3	36	i 12 19	0	e 22 29	[- 6]	i 13 18	pP
Boulder		88.4	46	i 12 25	0	—	—	—	—
Rapid City	E.	91.7	43	i 12 41	+ 1	—	—	e 13 38	pP
Huancayo	z.	95.4	105	—	—	—	—	e 13 53	pP
La Paz	N.	100.2	112	e 13 15	- 3	—	—	—	—
Quetta		123.0	294	i 18 28	[+ 1]	—	—	e 19 26	pP'
Scoresby Sund	z.	127.0	11	e 18 35	[+ 1]	—	—	—	—
Sodankyla		130.4	349	i 18 41	[ 0]	—	—	i 21 45	SKP
Kiruna		131.0	352	i 18 42	[ 0]	—	—	i 21 48	SKP
Skalstugan		136.0	355	e 18 51	[ 0]	—	—	—	—
Upsala		138.9	350	i 18 45	[-11]	—	—	e 21 47	PP
Warsaw		145.2	342	e 19 9	[+ 1]	—	—	e 20 5	pP'
Rathfarnham C.	z.	145.6	11	i 19 9k	[ 0]	20 31	sPKP	20 9	pPKP
Hamburg		146.0	354	i 19 13	[+ 4]	—	—	20 40	sP
Astrida		146.6	231	e 19 12k	[+ 2]	—	—	e 20 14	pPKP
Iasi		146.8	331	i 19 13	[+ 2]	—	—	20 19	pPKP
Witteveen		147.0	357	i 19 16a	[+ 5]	—	—	i 20 16	pPKP
Lwiro		147.5	230	i 19 19k	[+ 7]	—	—	i 20 19	pPKP
Raciborz		147.9	343	e 19 11	[ 0]	—	—	—	—
Kew		148.2	6	e 19 16	[+ 3]	—	—	e 20 17	pPKP
Jena	z.	148.4	351	e 19 14	[+ 1]	e 22 44	PP	i 20 13	pPKP
Prague		148.8	347	e 19 19	[+ 5]	e 22 56	PP	e 20 23	pPKP
Bucharest		149.5	328	i 19 21	[+ 6]	20 55	sPKP	20 22	pPKP
Bratislava		149.9	343	i 19 18	[+ 3]	e 22 53	PP	20 20	pPKP
Timisoara		150.6	336	e 18 19	[-56]	—	—	—	—
Karlsruhe	z.	150.7	354	e 19 25k	[+ 9]	—	—	e 20 3	pPKP
Stuttgart		150.9	353	e 19 18	[+ 1]	—	—	e 20 24	pPKP
Paris		151.1	2	e 19 19	[+ 2]	i 20 31	sPKP	e 20 18	pPKP
Strasbourg		151.2	355	i 19 25k	[+ 8]	e 20 39	sPKP	e 20 21	pPKP
Ebingen		151.5	354	e 19 26	[+ 8]	—	—	e 20 25	pPKP
Besançon		152.6	358	e 19 22	[+ 3]	e 22 48	PP	e 20 29	pPKP
Clermont-Ferrand		154.1	2	e 19 32	[+11]	—	—	—	—
Messina	E.	159.3	334	e 17 15	?	—	—	—	—
Malaga		161.5	23	i 19 34k	[+ 4]	i 24 0	PKS	i 20 20	PKP <sub>2</sub>
Algiers Univ.		163.1	4	e 19 33	[+ 1]	e 24 10	PP	e 20 25	pPKP
Relizane		163.8	11	e 19 43	[+11]	—	—	—	—
Tamanrasset	z.	176.9	340	i 19 43k	[+ 3]	e 25 21	PP	e 20 44	pPKP

Aug. 12d. 16h. 59m. 37s. Epicentre 33°·98N. 138°·79E.

Focus at Base of Superficial Layers.

$$A = -0.6251, B = +0.5475, C = +0.5563; \quad \delta = -2; \quad h = +1;$$

$$D = +0.659, E = +0.752; \quad G = -0.419, H = +0.367, K = -0.831.$$

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Omaesaki		0.8	323	i 0 14a	- 1	i 0 26	0	—	—
Osima		0.9	31	i 0 17k	0	—	—	—	—
Shizuoka		1.0	342	i 0 17k	- 1	i 0 34	+ 2	—	—
Ajiro		1.1	14	i 0 17k	- 2	e 0 30	- 4	—	—
Misima		1.1	7	i 0 18	- 2	e 0 34	- 1	—	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Hamamatu	1.1	310	i 0 18 <sub>a</sub>	- 2	i 0 37	+ 2	—	—
Hatidyozima	1.2	135	i 0 15 <sub>k</sub>	- 5	0 31	- 6	—	—
Mera	1.3	42	i 0 17 <sub>a</sub>	- 5	i 0 34	- 4	—	—
Hunatu	1.5	359	i 0 24 <sub>k</sub>	- 1	0 47	+ 3	—	—
Yokohama	1.6	26	i 0 25 <sub>k</sub>	- 2	i 0 43	- 4	—	—
Kohu	1.7	354	i 0 27 <sub>k</sub>	0	i 0 52	+ 4	—	—
Iida	1.7	333	i 0 26 <sub>k</sub>	- 2	i 0 48	- 2	—	—
Tokyo	1.9	25	i 0 29 <sub>k</sub>	- 1	0 50	- 3	—	—
Nagoya	1.9	309	i 0 30 <sub>a</sub>	- 1	0 57	+ 3	—	—
Titibu	2.0	7	i 0 31 <sub>k</sub>	- 1	i 1 1	+ 4	—	—
Tu	2.0	292	0 33	+ 1	1 7	+10	—	—
Kameyama	2.1	295	0 33 <sub>k</sub>	- 1	1 0	+ 1	—	—
Kashiwa	2.1	27	i 0 31 <sub>k</sub>	- 3	0 57	- 2	—	—
Owase	2.1	273	i 0 33 <sub>a</sub>	- 1	1 0	0	—	1.6
Gihu	2.2	311	i 0 33 <sub>a</sub>	- 2	1 9	+ 8	—	—
Kumagaya	2.2	12	i 0 36 <sub>k</sub>	+ 1	1 8	+ 6	—	—
Matumoto	2.4	344	i 0 38 <sub>k</sub>	+ 1	i 1 11	+ 5	—	—
Ibukisan	2.4	306	e 0 37 <sub>k</sub>	- 1	e 1 10	+ 3	—	—
Maebasi	2.4	5	i 0 38 <sub>k</sub>	0	e 1 12	+ 5	i 0 45	PP
Oiwake	2.4	355	e 0 36	- 2	e 1 0	- 7	—	—
Tyosi	2.4	44	e 0 38	0	e 1 10	+ 3	—	—
Hikone	2.4	302	0 38 <sub>a</sub>	- 1	1 11	+ 3	—	—
Takayama	N. 2.5	330	e 0 38	- 1	—	—	—	—
Kakioka	2.5	27	i 0 38 <sub>k</sub>	- 2	1 23	+13	—	—
Nara	2.5	287	e 0 39 <sub>a</sub>	- 1	e 1 13	+ 3	—	—
Siomisaki	2.6	259	0 35	- 5	e 1 7	- 4	—	e 1.8
Matusiro	2.6	350	i 0 40 <sub>k</sub>	- 1	1 14	+ 2	i 1 25	SS
Utunomiya	2.7	19	i 0 40 <sub>k</sub>	- 2	e 1 15	0	i 0 46	PP
Nagano	2.7	350	i 0 42 <sub>k</sub>	- 1	1 19	+ 4	—	—
Kyoto	2.7	293	0 43	0	1 19	+ 4	—	—
Mito	2.8	29	i 0 40 <sub>a</sub>	- 3	e 1 20	+ 4	—	—
Osaka	2.8	285	i 0 44 <sub>a</sub>	+ 1	1 19	+ 3	—	—
Tsuruga	2.8	307	0 43 <sub>a</sub>	0	1 25	+ 8	—	—
Hukui	2.9	316	e 0 45 <sub>a</sub>	0	1 23	+ 3	—	—
Toyama	3.0	335	0 49 <sub>k</sub>	+ 2	1 34	+12	—	—
Wakayama	3.0	276	i 0 46 <sub>a</sub>	- 1	e 1 40	SS	—	—
Kobe	3.1	284	e 0 47	0	1 36	+12	—	—
Maizuru	3.1	299	e 0 48	0	e 1 25	0	—	—
Takada	3.1	352	0 48 <sub>k</sub>	0	1 35	+ 9	—	—
Sumoto	3.3	278	i 0 50 <sub>a</sub>	0	1 27	- 2	—	—
Shirakawa	3.3	20	0 49	- 2	e 1 28	- 3	—	—
Onahama	3.4	30	i 0 54 <sub>k</sub>	+ 1	e 1 36	+ 3	—	—
Tokusima	3.5	273	0 51	- 2	e 1 35	0	—	2.2
Toyooka	3.6	296	i 0 53 <sub>a</sub>	- 2	1 37	- 1	—	—
Himeji	3.7	279	e 0 53	- 3	i 1 33	- 6	—	—
Torisima	3.7	159	e 0 56	- 1	i 1 55	SS	—	—
Muroto	3.9	260	e 0 58 <sub>a</sub>	- 1	1 44	- 1	—	—
Niigata	3.9	3	0 59	- 1	1 48	+ 2	—	—
Takamatu	3.9	276	i 0 57	- 3	i 1 43	- 3	—	—
Hukusima	4.0	19	e 0 59	- 2	1 45	- 3	—	—
Tottori	N. 4.0	293	e 1 2 <sub>a</sub>	+ 1	e 1 54	+ 5	—	—
Aikawa	4.0	354	1 5	+ 4	2 1	+12	—	—
Okayama	4.1	281	e 0 59	- 3	i 1 50	0	—	2.8
Kotí	4.4	266	e 1 4	- 2	e 2 5	+ 8	—	—
Yamagata	N. 4.4	16	e 1 6	- 1	i 2 19	+20	—	—
Sendai	4.6	21	e 1 13	+ 4	e 2 2	- 1	e 2 28	SS
Yonago	4.7	289	e 1 15	+ 4	e 2 7	+ 2	—	—
Isinomaki	4.9	24	e 1 10	- 3	2 31	SS	—	—
Matsue	4.9	289	1 15	+ 1	2 40	+29	—	—
Sakata	5.0	9	1 17	+ 2	2 37	+25	—	—
Saigo	5.0	298	e 1 17	+ 2	2 39	+27	—	2.9
Simidu	5.0	258	1 13 <sub>a</sub>	- 2	e 2 28	+15	—	—
Matuyama	N. 5.0	270	e 1 13	- 2	e 2 19	+ 6	—	—
Uwazima	5.3	263	1 17	- 1	—	—	e 3 45	†
Hirosima	5.3	276	e 1 19	0	e 2 24	+ 4	e 2 39	SS

Continued on next page.

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Mizusawa	5.5	19	1	18	- 3	2	36	+12	—	—	—
Hamada	5.6	281	1	21	- 3	2	30	+ 2	e 1 58	?	—
Akita	5.8	10	1	24	- 2	2	59	SS	i 2 1	?	—
Morioka	6.0	18	e 1	27	- 2	e 2	33	- 5	—	—	—
Ooita	E. 6.0	265	1	30	+ 1	2	38	0	—	—	—
Miyako	E. 6.2	23	e 1	27	- 5	e 2	46	+ 3	e 1 52	PP	—
Miyazaki	6.5	254	1	34 <sub>a</sub>	- 2	—	—	—	3 28	?	e 4.6
Simonoseki	6.5	272	e 1	35 <sub>k</sub>	- 1	e 3	7	+16	—	—	—
Asosan	6.5	263	e 1	37	+ 1	—	—	—	e 3 26	?	—
Kumamoto	6.9	262	e 1	39 <sub>a</sub>	- 2	3	4	+ 5	—	—	—
Hatinohe	6.9	18	e 1	39	- 2	e 3	4	+ 4	—	—	—
Hukuoka	7.0	269	e 1	40	- 3	3	18	+16	—	—	—
Aomori	Z. 7.0	12	e 1	44	+ 1	e 3	36	+33	—	—	—
Unzendake	7.2	262	i 1	46 <sub>k</sub>	0	e 3	37	+28	—	—	—
Kagosima	7.3	253	e 1	45	- 3	—	—	—	e 2 31	?	4.4
Ituhara	7.9	274	e 1	55	0	e 3	45	SS	—	—	—
Hakodate	7.9	10	e 1	58	+ 2	—	—	—	—	—	—
Mori	8.2	9	1	59	- 1	3	48	SS	—	—	—
Tomie	8.5	264	e 2	2	- 2	e 4	15	SS	—	—	—
Muroran	8.5	11	e 2	1	- 3	—	—	—	—	—	e 5.0
Urakawa	8.7	20	e 2	4	- 3	e 3	48	+ 2	e 2 55	?	—
Tomakomai	8.8	14	e 2	10	+ 2	e 3	50	+ 3	—	—	i 4.9
Suttsu	8.9	7	e 2	14	+ 5	e 4	8	SS	—	—	—
Sapporo	N. 9.3	12	e 2	18	+ 3	e 4	6	+ 6	—	—	e 4.8
Obihiro	Z. 9.6	20	e 2	13	- 6	—	—	—	—	—	—
Kusiro	10.0	24	e 2	19	- 6	e 4	10	- 7	—	—	e 5.0
Asahigawa	10.2	15	e 2	21	- 6	—	—	—	—	—	—
Vladivostok	10.6	331	i 2	34	+ 1	—	—	—	—	—	—
Nemuro	10.7	28	e 2	30	- 5	e 4	31	- 4	—	—	e 5.1
Abashiri	10.9	21	e 2	33	- 4	e 4	42	+ 3	—	—	e 5.8
Wakkanai	E. 11.6	10	e 3	12	+25	e 4	47	- 9	—	—	e 6.4
Kurilsk	13.2	29	e 3	4	- 4	e 5	34	- 1	—	—	—
Yuzno-Sakhlinsk	13.3	12	i 3	2	- 7	i 5	57	SS	i 3 28	PPP	—
Changchun	14.4	317	3	26	+ 3	i 6	25	SS	—	—	—
Zô-Sè	15.1	264	i 3	31 <sub>a</sub>	- 2	6	35	SS	—	—	—
Uglegorsk	15.3	8	e 3	29	- 6	i 6	9	-15	—	—	—
Nanking	16.9	269	i 3	55 <sub>a</sub>	0	7	21	SS	—	—	—
Ilan	17.4	243	4	3 <sub>k</sub>	+ 1	9	0	L	—	—	(9.0)
Taipei	17.5	244	4	8 <sub>k</sub>	+ 5	7	30	+15	—	—	—
Hwalien	18.0	241	4	22	+13	8	5	?	—	—	—
Hsinkong	18.7	239	e 4	21	+ 3	8	5	+23	—	—	—
Alishan	18.9	241	3	41	-39	7	36	-10	—	—	—
Futzing	19.1	268	e 4	23	0	—	—	—	—	—	—
Tawu	19.5	238	4	38	+10	8	26	+26	—	—	—
Hengchun	19.9	238	5	36	+65	9	26	L	—	—	(9.4)
Guam	21.1	164	4	41	- 3	—	—	—	—	—	—
Tatung	21.2	294	e 4	53	+ 8	—	—	—	—	—	—
Petropavlovsk	23.8	30	e 5	10	- 1	i 9	59	SS	e 5 59	PPP	—
Baguio City	23.9	228	i 5	13	+ 1	i 9	43	+19	—	—	—
Hong Kong	24.6	248	5	23	+ 5	—	—	—	—	—	e 9.9
Sian	24.7	279	e 5	35	+15	—	—	—	—	—	—
Canton	24.8	251	5	25 <sub>a</sub>	+ 4	i 9	59	+20	—	—	—
Magadan	26.8	14	e 5	40	+ 1	—	—	—	—	—	—
Klyuchi	27.0	27	e 5	35	- 6	—	—	—	e 6 21	PP	—
Irkutsk	30.7	317	e 6	14	0	—	—	—	e 7 23	PP	—
Tiksi	38.1	355	e 7	12	- 6	e 8	46	PP	9 22	PcP	—
Rabaul	Z. 40.0	159	e 7	29	- 5	—	—	—	—	—	—
Shillong	41.3	271	e 7	43	- 1	i 13	57	+ 1	—	—	—
Semipalatinsk	45.2	310	e 8	16	0	e 14	53	0	—	—	—
Bokaro	47.0	272	e 8	35 <sub>k</sub>	+ 5	e 15	26	+ 6	9 22	PP	22.4
Frunse	50.0	300	i 8	55 <sub>a</sub>	+ 2	i 16	5	+ 4	—	—	—
Djakarta	50.1	223	e 8	55	+ 1	e 16	9	+ 6	—	—	—
Lembang	50.2	222	i 8	44 <sub>k</sub>	-11	e 16	1	- 3	—	—	—
Dehra Dun	N. 50.9	284	e 9	7	+ 7	i 16	27	+13	11 8	PP	24.0
College	52.8	31	i 9	13	- 2	i 16	42	+ 2	e 11 27	PP	21.5

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Tashkent		54.2	299	e 9 27	+ 2	e 17 1	+ 2	e 11 36	PP	—
Stalinabad		55.4	296	i 9 31	- 3	i 17 24	+10	—	—	—
Sverdlovsk		56.0	320	i 9 42	+ 4	17 28	+ 6	10 38	PcP	—
Hyderabad	E.	56.1	269	i 9 41k	+ 3	i 17 34	+10	21 8	SS	29.1
Honolulu		56.5	85	—	—	e 17 41	+11	—	—	25.6
Madras		56.9	263	e 9 53	+ 9	e 17 42	+ 8	e 10 24	PcP	—
Poona		59.3	273	e 9 55	- 7	e 18 6	- 1	21 45	SS	27.4
Quetta		59.8	288	e 10 2	- 3	i 18 16	+ 4	—	—	—
Bombay		60.0	273	e 10 12	+ 6	e 18 25	+ 9	19 9	PPS	—
Sitka		60.1	39	e 10 9	+ 2	e 18 17	+ 1	i 10 52	PcP	e 24.8
Colombo	E.	60.5	258	e 10 16	+ 7	18 26	+ 5	—	—	e 30.6
Kodaikanal	E.	60.6	262	e 10 27	+17	—	—	—	—	—
Brisbane		62.6	166	e 10 26	+ 2	i 18 54	+ 6	—	—	—
Ashkabad		63.3	299	e 10 31	+ 3	12 46	PP	11 1	PcP	—
Suva	N.	64.1	138	e 10 58	+24	19 16	+ 9	e 14 40	PPP	e 31.0
Apatity		64.6	336	10 30	- 6	19 9	- 3	12 59	PP	32.9
Resolute Bay		66.1	14	e 10 43a	- 3	e 19 35	+ 4	13 54	PP	—
Sodankyla		66.9	337	i 10 49	- 3	i 19 50	+ 8	i 11 18	PcP	—
Moscow		68.4	323	e 11 0	- 1	20 2	+ 3	11 29	PcP	—
Riverview		68.4	169	i 11 4k	+ 3	e 20 3	+ 3	e 20 27	PS	e 28.0
Kiruna		68.6	339	i 11 0	- 2	i 20 4	+ 3	i 13 32	PP	—
Horseshoe Bay		69.7	44	e 11 8	- 1	—	—	—	—	—
Victoria		70.1	44	e 11 11a	0	e 20 18	- 1	—	—	—
Goris		71.0	305	i 11 18	+ 2	i 20 38	+ 9	—	—	—
Seattle		71.2	45	e 11 20	+ 2	e 20 44	+12	11 35	pP	e 30.9
Melbourne		71.7	175	e 11 17	- 4	e 20 32	- 5	i 11 24	pP	e 31.0
Corvallis	Z.	72.1	48	i 11 27	+ 4	—	—	—	—	—
Skalstugan		73.9	338	i 11 34	0	—	—	i 14 18	PP	—
Shasta	Z.	74.7	51	e 11 38	0	—	—	—	—	—
Upsala		74.7	333	i 11 38	- 1	e 21 11	- 1	i 14 25	PP	—
Scoresby Sund		74.9	353	e 11 39	- 1	e 21 20	+ 6	e 21 39	ScS	35.4
Ukiah		74.9	53	e 11 41	+ 1	—	—	e 12 30	?	—
Mineral	Z.	75.4	51	e 11 45	+ 3	—	—	—	—	—
Hungry Horse		75.5	41	e 11 42	- 1	e 21 24	+ 4	e 14 43	PP	—
Simferopol		76.0	315	e 11 47	+ 1	e 22 9	PS	e 11 54	PcP	—
San Francisco	Z.	76.1	54	e 11 51	+ 4	—	—	—	—	—
Berkeley		76.2	54	e 11 48	+ 1	e 21 30	+ 1	e 31 35	Q	e 36.0
Branner	Z.	76.5	54	e 11 50	+ 1	—	—	—	—	—
Santa Clara	E.	76.7	54	—	—	e 21 41	+ 8	—	—	—
Lick	Z.	76.9	54	e 11 51	0	—	—	—	—	—
Reno	Z.	77.0	51	e 12 2	+11	—	—	—	—	—
Saskatoon		77.0	35	i 11 57	+ 5	e 21 41	+ 4	—	—	—
Butte	N.	77.6	42	e 11 54	- 1	e 21 51	+ 7	e 22 54	PPS	e 32.7
Iasi		78.3	319	12 1	+ 2	—	—	—	—	—
Warsaw		78.4	326	e 12 3	+ 4	e 21 57	+ 5	e 14 43	PP	e 37.4
Fresno	Z.	78.5	53	e 11 57	- 3	—	—	—	—	—
Lwow		78.5	323	i 12 0	0	i 22 5	[- 2]	i 12 15	PcP	—
Bozeman		78.7	42	e 12 0	- 1	e 22 0	+ 5	—	—	32.9
Karapiro	N.	79.3	151	e 12 11	+ 7	—	—	—	—	—
King Ranch	Z.	79.3	55	e 12 1	- 3	—	—	e 15 9	PP	—
Tinemaha	Z.	79.4	52	i 12 7	+ 2	—	—	e 15 18	PP	—
Eureka		79.4	49	e 12 3	- 2	e 21 50	-13	i 12 28	pP	—
Copenhagen		79.6	332	i 12 6	0	i 22 7	+ 2	e 12 12	PcP	37.4
Woody	Z.	79.7	54	i 12 4	- 2	—	—	e 15 14	PP	—
Isabella	Z.	80.0	54	e 12 5	- 3	—	—	e 15 10	PP	—
Krakow		80.4	325	e 12 12	+ 2	22 26	+14	12 37	PcP	—
China Lake		80.5	53	e 12 9	- 2	—	—	e 15 15	PP	—
Bucharest		80.9	318	12 17	+ 4	21 23	-55	12 42	PP	—
Pasadena		81.1	55	e 12 12	- 2	i 22 21	+ 1	e 15 6	PP	—
Ksara		81.2	305	i 12 14	0	22 44	+23	i 12 57	?	—
Raciborz		81.2	326	e 11 32	-42	—	—	—	—	—
Salt Lake City		81.2	46	e 12 13	- 1	—	—	i 12 56	?	—
Riverside	Z.	81.7	55	e 12 20	+ 3	—	—	e 15 29	PP	—
Safed		81.9	304	i 12 17	- 1	—	—	—	—	—
Hamburg		82.1	332	e 12 20a	+ 1	e 22 34	+ 3	22 56	?	e 37.4

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Palomar	Z.	82.4	55	e 12 18	- 3	—	—	e 15 34	PP	—
Budapest		82.6	324	e 12 10	-11	22 36	+ 1	e 12 22	PcP	41.4
Timisoara	E.	82.6	321	e 12 23 <sup>f</sup>	+ 2	—	—	—	—	44.2
Hurbanovo		82.7	324	i 12 27	PP	e 22 35	- 1	e 12 41	pP	41.4
Jerusalem		82.8	303	i 12 24	+ 1	—	—	i 15 36	PP	—
Prague		82.9	328	e 12 28	+ 5	e 22 46	+ 7	e 15 59	PP	39.4
Barratt	Z.	82.9	55	e 12 24	+ 1	e 22 47	+ 8	e 15 37	PP	—
Hayfield	N.	83.0	54	e 12 24	0	—	—	e 15 38	PP	—
Bratislava		83.0	325	i 12 26	+ 2	e 22 44	+ 4	i 15 42	PP	e 34.4
Aberdeen		83.4	340	—	—	e 22 48	+ 5	i 23 21	PS	e 42.4
Jena		83.5	329	e 12 25	- 1	—	—	e 15 49	PP	e 42.4
Sofia		83.5	318	i 12 28	+ 2	e 22 54	+ 9	i 15 51	PP	52.5
Belgrade		83.7	321	e 12 25 <sup>a</sup>	- 2	e 22 50	+ 4	e 25 38	?	e 46.0
Cheb		83.8	329	—	—	e 22 57	+ 9	24 31	PPS	41.7
Rapid City	E.	84.0	40	e 12 31	+ 2	—	—	—	—	—
De Bilt		85.2	333	e 12 37	+ 2	e 22 59	- 2	e 28 42	SS	e 40.4
Durham		85.3	338	i 12 36	+ 1	23 4	+ 2	28 58	SS	—
Boulder		85.5	44	e 12 36	0	—	—	—	—	—
Stuttgart		86.2	329	e 12 39	0	e 23 11	0	e 16 6	PP	e 42.4
Karlsruhe	Z.	86.3	330	e 12 38	- 2	—	—	—	—	—
Athens		86.4	314	—	—	23 20	+ 8	—	—	—
Triest		86.4	325	e 12 42	+ 1	i 23 24	+10	23 11	SKS	41.8
Ebingen		86.7	329	e 12 43	+ 1	—	—	—	—	—
Strasbourg		86.9	330	e 12 43	0	e 23 7	[+ 3]	e 16 19	PP	e 41.4
Tucson		87.1	53	e 12 46	+ 2	—	—	—	—	—
Kew		87.6	336	—	—	e 23 31	+ 6	e 29 5	SS	e 40.4
Rathfarnham Castle		87.9	340	i 12 49 <sup>k</sup>	+ 1	e 23 13	-15	16 10	PP	e 44.4
Taranto		88.4	319	13 53	+63	23 33	+ 1	16 53	?	44.9
Neuchatel		88.5	329	13 29	+38	—	—	—	—	—
Besançon		88.7	330	e 12 47	- 5	—	—	13 3	pP	—
Paris		88.8	333	e 12 53	+ 1	e 24 8	PS	e 13 7	pP	e 42.7
Pavia		88.9	327	e 13 1	+ 8	e 23 20	[+ 3]	e 16 19	PP	e 43.8
Florence		89.0	325	e 13 1	+ 8	e 23 53	+15	i 29 40	SS	e 42.4
Rome		89.8	323	e 13 2	+ 5	e 23 52	+ 7	e 16 28	PP	e 41.4
Messina		90.9	319	e 13 1	- 1	e 23 57	+ 2	e 16 39	PP	43.4
Clermont-Ferrand		91.1	331	—	—	e 23 57	+ 1	e 24 59	PS	44.4
Kirkland Lake	Z.	91.2	25	e 13 6	+ 3	—	—	—	—	—
Florissant		94.4	37	e 13 22	+ 4	e 24 6	SKKS	e 17 10	PP	—
St. Louis		94.6	37	13 22	+ 3	24 38	+12	24 1	SKKS	—
Shawinigan Falls		94.9	21	e 13 28	+ 7	—	—	—	—	—
Seven Falls		95.0	20	e 23 47	SKS	e 24 24	- 6	30 44	SS	—
Ottawa		95.0	24	e 13 24	+ 3	24 3	[+11]	25 53	PS	—
Terre Haute		95.3	34	i 18 53	PP	25 23	+50	—	—	—
Brebeuf		95.6	22	i 13 27 <sup>a</sup>	+ 3	—	—	—	—	—
Cleveland		96.3	29	e 13 30 <sup>k</sup>	+ 4	e 24 19	SKKS	e 17 24	PP	—
Algiers Univ.		98.4	325	e 13 30	- 6	e 24 39	-20	e 17 39	PP	—
Alicante		98.7	329	13 36	- 2	25 1	- 1	19 42	PPP	e 46.6
Toledo		98.9	332	13 36	- 2	24 54	- 9	e 17 50	PP	48.7
Palisades		99.5	24	e 13 44	+ 3	e 25 16	+ 7	e 17 48	PP	e 51.3
Washington		100.2	28	e 17 57	PP	—	—	—	—	—
Granada		101.0	330	18 28	PP	25 28	+ 7	21 10	PPP	i 52.6
Malaga		101.7	330	i 18 17	PP	i 27 31	PPS	32 31	SSP	45.0
Columbia		102.7	33	e 17 27	?	e 25 37	+ 2	17 50	PP	e 42.6
Mirny		106.1	197	e 18 36	PP	—	—	—	—	—
Tamanrasset		108.1	315	e 18 52	PP	e 26 34	+14	e 25 7	SKS	—
Kimberley		124.3	256	e 18 58	[+ 2]	—	—	—	—	—
Chinchina		129.4	47	i 19 12	[+ 6]	—	—	i 21 27	PP	63.4
Bogota		130.6	45	—	—	i 22 39	SKP	—	—	—
Huancayo	Z.	142.0	63	e 19 28	[- 1]	—	—	—	—	—
La Paz	N.	150.2	61	i 19 56	[+13]	23 35	PKS	42 53	SS	71.6



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Aug. 14d. 2h. 50m. 12s. Epicentre 52°·69S. 26°·03E.

A = +0·5470, B = +0·2672, C = -0·7934 ;  $\delta = +9$  ;  $h = -6$  ;  
D = +0·439, E = -0·899 ; G = -0·713, H = -0·348, K = -0·609.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Hermanus	18·9	342	i 4 21	- 2	i 7 55	+ 2	i 8 17	SS	—
Grahamstown	19·4	1	i 4 25 <sup>k</sup>	- 4	—	—	—	—	—
Pietermaritzburg	23·3	10	i 5 7	- 3	—	—	—	—	—
Kimberley	23·9	357	i 5 12 <sup>a</sup>	- 4	—	—	—	—	—
Pretoria	27·0	4	i 5 40	- 5	—	—	—	—	—
Tananarive	37·6	35	e 7 16	- 2	e 13 16	+ 8	e 8 24	PP	18·8
Lwiro	50·3	4	e 8 58 <sup>a</sup>	- 2	—	—	i 11 20	PP	—
La Plata	59·7	251	10 6	- 2	18 18	PS	13 24	PPP	27·4
Perth	65·2	110	—	—	—	—	27 18	SS	30·4
Colombo	E. 74·8	56	—	—	e 21 23	+ 3	e 13 48	PP	e 36·4
Tamanrasset	77·2	341	e 11 53	- 4	e 21 42	- 5	i 12 5	PcP	—
Lembang	Z. 79·5	88	12 6	- 3	—	—	—	—	—
La Paz	79·5	257	i 12 12	+ 2	i 22 6	- 5	i 14 36	PP	37·3
Christchurch	79·9	156	—	—	22 18	+ 2	e 27 18	SS	e 37·7
Riverview	81·5	136	i 12 18 <sup>a</sup>	- 2	i 22 17	-15	22 37	ScS	e 33·9
Bombay	82·0	44	e 12 26	+ 3	e 22 38	+ 1	—	—	—
Poona	N. 82·1	45	—	—	e 22 38	0	—	—	—
Wellington	82·6	157	—	—	i 22 39	- 4	—	—	e 39·1
Hyderabad	83·2	50	—	—	e 23 10	+21	—	—	e 35·0
Jerusalem	84·5	8	i 12 30	- 5	—	—	e 35 18	Q	—
Safed	85·7	8	i 12 38	- 3	—	—	—	—	—
Ksara	86·6	8	e 12 47	+ 1	23 24	+ 1	e 16 6	PP	—
Huancayo	87·3	254	e 12 48	- 1	e 23 18	[+ 2]	e 29 11	SS	e 46·1
Brisbane	87·8	135	i 12 51	0	—	—	—	—	—
Quetta	89·9	35	e 12 46	+16	e 23 36	[+ 4]	—	—	—
Relizane	90·8	340	e 13 3	- 3	—	—	e 14 38	?	—
Reggio Calabria	90·9	352	e 13 24	+17	—	—	e 16 41	PP	40·3
Messina	91·0	352	e 13 12	+ 5	i 24 13	+10	—	—	—
Algiers Univ.	91·3	342	e 13 7	- 1	e 16 40	PP	e 24 14	ScS	—
Almeria	92·6	338	e 13 24	+ 9	e 24 27	+ 9	—	—	47·5
Malaga	92·9	336	13 22 <sup>k</sup>	+ 6	i 24 6	{+ 3}	16 56	PP	44·5
Granada	93·1	337	i 13 27 <sup>k</sup>	+10	i 24 34	+12	17 8	PP	42·8
Alicante	93·6	339	e 13 30	+11	24 30	+ 4	17 30	PP	e 44·2
Rome	94·9	350	e 13 36	+10	e 24 52	+15	e 17 18	PP	—
Toledo	95·8	337	13 49	+19	—	—	—	—	47·1
Bucharest	96·7	0	17 18	PP	25 0	+ 7	24 11	SKS	47·8
Florence	96·9	349	e 13 34	0	e 25 6	+12	e 26 20	PS	—
Belgrade	97·2	356	e 17 34 <sup>a</sup>	PKP	e 31 45	SS	e 26 29	PS	55·4
Monaco	97·4	346	—	—	—	—	e 17 29	PP	—
Triest	98·5	351	—	—	27 23	PPS	e 17 37	PP	44·8
Pavia	98·6	348	—	—	27 25	PPS	e 17 43	PP	e 45·5
Bogota	99·8	265	—	—	i 25 33	+14	i 26 40	SKKS	45·8
Clermont-Ferrand	100·0	344	—	—	e 25 26	+ 6	e 27 31	PPS	—
Besançon	101·0	346	—	—	—	—	e 17 58	PP	—
Ebingen	101·5	348	—	—	—	—	18 0	PP	—
Strasbourg	102·1	348	e 18 0	PP	e 25 0	{-10}	e 27 16	PS	e 47·3
Stuttgart	102·1	349	e 14 9	+11	e 27 13	PS	e 18 2	PP	e 49·8
Krakow	N. 102·5	356	—	—	—	—	17 49	PP	—
Cheb	E. 103·0	351	—	—	e 32 48	SS	27 21	PS	—
Paris	103·1	344	e 13 52	- 9	e 27 24	PS	e 27 24	PS	e 48·8
Jena	Z. 104·0	351	—	—	—	—	e 18 12	PP	—
Warsaw	104·6	357	e 27 40	PS	e 24 55	[+ 6]	e 18 29	PP	e 58·8
Suva	N. 105·5	153	—	—	—	—	28 57	PPS	e 50·1
De Bilt	105·9	347	e 18 34	PP	e 27 48	PS	e 33 18	SS	e 49·8
Kew	106·1	343	—	—	e 33 24	SS	e 19 4	PP	e 49·8
Hamburg	106·7	350	—	—	—	—	18 40	PP	e 50·8
Copenhagen	108·6	352	e 18 54	PP	e 28 25	—	34 6	SS	51·8
Aberdeen	111·9	344	—	—	—	—	e 38 8	SSS	e 54·8
Upsala	112·4	355	—	—	—	—	e 28 55	PS	—
Sodankyla	119·7	0	18 48	[- 3]	—	—	—	—	—

Continued on next page.

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	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Apatity	120.0	3	—	—	—	—	e 35 28 SS	—
Kiruna	120.3	358	i 18 47 <sup>a</sup>	[- 5]	e 30 10	PKKP	e 22 32 PKP	—
Columbia	126.2	280	e 19 12	[+ 7]	—	—	—	—
Palisades	126.7	292	e 21 11	PP	e 31 18	PS	e 38 9 SS	e 56.3
Scoresby Sund	127.6	342	—	—	—	—	e 38 48 SS	59.8
Seven Falls	129.0	299	33 10	PPS	38 39	SS	e 21 38 PP	—
Shawinigan Falls	129.7	298	e 19 13	[+ 1]	—	—	—	—
Ottawa	130.6	295	e 19 9	[- 3]	26 4	[-17]	22 42 PKP	—
Matusiro	131.0	81	e 19 16	[+ 2]	i 22 36	PKP	e 38 56 SS	—
Kirkland Lake	z. 134.6	295	e 19 20	[ 0]	—	—	—	—
Tucson	142.9	254	e 19 32	[- 3]	—	—	20 7 PKP <sub>2</sub>	—
Boulder	144.8	269	e 19 34	[- 4]	—	—	—	—
Rapid City	E. 145.8	276	i 19 37	[- 3]	—	—	—	—
Barratt	Z. 146.6	248	e 19 38	[- 3]	—	—	—	—
Hayfield	N. 146.8	251	e 19 41	[ 0]	—	—	—	—
Palomar	z. 147.2	249	e 19 40	[- 2]	—	—	—	—
Boulder City	147.9	254	i 19 43	[ 0]	—	—	—	—
Riverside	z. 148.0	249	e 19 40	[- 3]	—	—	i 19 51 PKP <sub>2</sub>	—
Resolute	148.0	334	i 19 42 <sup>a</sup>	[- 1]	—	—	e 19 58 PKP <sub>2</sub>	—
Pasadena	148.5	248	e 19 44	[ 0]	e 41 48	SS	19 53 PKP <sub>2</sub>	e 70.8
Salt Lake City	149.2	264	e 19 44	[- 1]	—	—	—	—
China Lake	z. 149.4	251	e 19 45	[- 1]	—	—	—	—
Isabella	z. 149.8	250	e 19 35	[-11]	—	—	i 19 50 PKP <sub>2</sub>	—
Woody	z. 150.0	250	e 19 44	[- 3]	—	—	—	—
King Ranch	z. 150.3	248	e 19 49	[+ 1]	—	—	—	—
Tinemaha	z. 150.6	252	e 19 52	[+ 4]	—	—	i 21 15 PKP <sub>2</sub>	—
Eureka	150.9	258	e 19 45	[- 3]	—	—	i 23 31 PP	—
Fresno	N. 151.3	250	e 19 58	[+ 8]	—	—	—	—
Bozeman	151.4	273	e 19 52	[+ 2]	—	—	i 20 13 PKP <sub>2</sub>	—
Butte	N. 152.5	273	e 19 55	[+ 4]	—	—	—	—
Lick	z. 152.8	249	e 19 55	[+ 3]	—	—	—	—
Reno	z. 153.2	254	e 19 50	[- 1]	—	—	—	—
Berkeley	z. 153.5	249	e 19 58	[+ 5]	—	—	—	—
Hungry Horse	154.5	276	e 19 51	[- 2]	—	—	e 23 57 PP	—
Mineral	z. 154.8	254	e 19 52	[- 1]	—	—	—	—
Ukiah	154.9	250	e 20 5	[+10]	—	—	—	—
Shasta	z. 155.5	253	e 19 51	[- 3]	—	—	—	—
Banff	156.4	282	e 20 21	PKP <sub>2</sub>	—	—	—	—
Corvallis	z. 158.3	260	e 20 10	PKP <sub>2</sub>	—	—	—	—
Seattle	159.2	269	e 20 24	PKP <sub>2</sub>	—	—	e 22 1 ?	—
College	167.4	348	e 25 8	PP	e 28 50	PPP	e 45 28 SS	e 58.2

Aug. 15d. 5h. 20m. 40s Epicentre 0.25S 101.46E. Depth of focus = 0.040R.

A = -0.1987, B = +0.9800, C = -0.0044;  $\delta$  = -10; h = +7;  
D = +0.980, E = +0.199; G = +0.001, H = -0.004, K = -1.000.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Medan	4.7	324	i 1 16k	+ 2	e 2 14	+ 2	—	—
Djakarta	8.0	138	i 1 53k	0	3 24	0	e 7 57 PcP	—
Lembang	9.0	137	i 2 4k	- 1	—	—	i 14 35 ScS	—
Bandung	9.0	137	e 2 6	0	e 3 45	- 1	e 14 36 ScS	—
Colombo	E. 22.7	289	4 39	+ 1	8 29	+ 6	—	13.5
Madras	E. 24.9	303	i 4 56 <sup>a</sup>	- 1	i 9 0	+ 1	5 38 PPP	10.4
Baguio City	25.1	48	i 5 1	+ 1	i 9 4	+ 2	i 6 4 pP	—
Hong Kong	25.6	28	5 6k	+ 1	i 9 14	+ 4	6 6 PP	—
Canton	25.9	26	e 5 8	+ 1	i 9 17	+ 2	6 15 pP	—
Kodaikanal	26.0	294	i 5 12k	+ 3	i 9 22	+ 5	7 32 PcP	11.0
Shillong	27.3	341	i 5 19	0	i 9 33	- 5	6 21 pP	—
Bokaro	28.4	329	i 5 31	+ 1	i 9 52	- 3	—	—
Hyderabad	E. 28.7	309	i 5 29	- 3	i 9 56	- 4	6 26 pP	11.9
Chatra	z. 30.2	334	i 5 44	- 1	—	—	i 6 34 pP	—
Poona	32.9	306	i 6 12k	+ 3	i 11 8	+ 3	8 55 PcP	14.4

Continued on next page.

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Bombay	34.0	306	i 6	17	0	i 11	21	- 1	7	37	PP	14.0
Perth	34.3	158	i 7	22	+61	—	—	—	—	—	—	i 16.2
Shenchow	35.8	12	e 6	37	+ 3	—	—	—	—	—	—	—
Nanking	36.1	25	—	—	—	i 11	50	- 4	i 14	0	SS	—
Lanchow	36.2	3	e 6	38	+ 1	—	—	—	—	—	—	—
Z6-S6	36.4	29	—	—	—	e 11	54	- 5	i 15	4	SS	—
New Delhi	36.9	323	i 6	42	0	i 12	2	- 4	8	18	PPP	i 16.1
Linfen	37.4	14	e 6	48	+ 1	—	—	—	—	—	—	—
Dehra Dun	37.7	326	e 6	48	- 1	i 12	13	- 5	8	4	PP	15.6
Wuwei	38.0	2	e 6	53	+ 1	—	—	—	—	—	—	—
Yinchuan	38.8	6	e 7	2	+ 3	—	—	—	—	—	—	—
Taiyuan	39.2	14	e 7	3	+ 1	—	—	—	—	—	—	—
Paotow	41.4	10	e 7	22	+ 2	—	—	—	—	—	—	—
Tatung	41.6	14	e 7	25	+ 4	—	—	—	—	—	—	—
Peking	42.3	17	i 7	29k	+ 2	i 13	27	+ 1	e 9	14	PP	—
Kwanting	42.3	16	e 7	29	+ 2	—	—	—	—	—	—	—
Quetta	44.7	316	i 7	45k	0	i 13	55	- 6	—	—	—	—
Guam	45.0	71	i 7	46	- 2	—	—	—	—	—	—	—
Stalinabad	48.9	326	—	—	—	i 14	53	- 7	i 9	12	PP	—
Frunse	49.3	334	i 8	20k	- 1	i 15	3	- 2	—	—	—	—
Matusiro	50.0	39	i 8	26	0	15	12	- 3	9	43	PcP	21.2
Tashkent	50.6	329	e 8	30	- 1	e 15	18	- 5	e 17	5	sS	—
Rabaul	50.8	95	i 8	32a	0	—	—	—	e 9	52	PcP	—
Vladivostok	51.1	28	i 8	35	0	i 15	30	0	9	47	pP	—
Irkutsk	52.4	2	i 8	45k	0	18	0	ScS	e 9	47	pP	—
Semipalatinsk	53.6	343	i 8	52	- 1	i 16	0	- 4	e 9	55	pP	—
Melbourne	54.8	138	i 9	2	0	e 16	16	- 3	i 10	7	pP	e 23.3
Ashkabad	54.9	319	i 9	2	0	16	10	-11	10	7	pP	—
Tananarive	56.0	247	i 9	12a	+ 1	—	—	—	i 10	21	pP	—
Brisbane	56.3	123	i 9	13	0	—	—	—	i 10	20	pP	—
Riverview	57.2	131	i 9	19a	0	i 16	50	- 1	i 10	23	pP	e 26.6
Yuzno-Sakhlinsk	59.2	32	e 9	33	0	e 18	48	ScS	e 10	41	pP	—
Sverdlovsk	65.6	337	10	14	0	18	32	- 4	e 11	17	pP	—
Tiflis	65.9	317	i 10	16	0	i 18	35	- 5	i 19	43	ScS	—
Mirny	66.4	184	i 10	21	+ 1	i 18	48	+ 2	i 11	29	pP	—
Ksara	70.0	306	i 10	42	0	i 19	16	-12	i 11	58	pP	—
Jerusalem	70.1	304	i 10	43a	+ 1	—	—	—	i 11	50	pP	—
Safed	70.1	305	i 10	43	0	—	—	—	—	—	—	—
Magadan	70.8	24	10	48	+ 1	19	38	0	—	—	—	—
Petropavlovsk	71.2	32	e 10	48	0	i 19	39	- 3	e 20	13	PS	—
Uvira	72.4	266	10	59	+ 3	—	—	—	—	—	—	—
Lwiro	72.7	268	e 11	1k	+ 3	e 20	0	+ 1	—	—	—	—
Pietermaritzburg	73.5	239	i 11	2	0	—	—	—	—	—	—	—
Tiksi	73.9	9	e 11	4	0	e 20	6	- 6	e 12	12	pP	—
Simferopol	74.3	317	11	6	- 1	i 20	11	- 6	e 13	57	PP	—
Pretoria	74.8	244	i 11	14a	+ 3	—	—	—	—	—	—	—
Moscow	75.8	328	i 11	15k	0	i 20	26	- 7	e 12	21	pP	—
Grahamstown	77.2	236	i 11	26a	+ 2	—	—	—	—	—	—	—
Kimberley	78.2	241	i 11	31a	+ 2	—	—	—	—	—	—	—
Iasi	79.3	318	11	35	0	21	5	- 5	12	5	pP	—
Bacau	79.6	318	11	39	+ 2	21	7	- 6	—	—	—	—
Bucharest	79.8	315	11	39	+ 2	21	12	- 3	12	48	pP	—
Athens	80.5	308	i 11	40k	0	i 21	25	+ 2	12	57	pP	—
Apatity	82.0	339	11	6k	-42	20	51	-47	14	23	PP	—
Lwow	82.1	320	i 11	49	0	i 21	33	- 6	e 12	58	pP	—
Timisoara	83.4	316	e 11	59	+ 3	e 21	48	- 4	—	—	—	—
Belgrade	83.8	315	i 11	59a	+ 1	e 21	48	- 8	13	7	pP	—
Warsaw	84.3	322	i 12	0	0	i 21	54	- 7	e 15	18	PP	—
Sodankyla	84.4	338	i 11	59	- 1	i 22	2	0	i 13	10	pP	—
Krakow	84.8	320	i 12	2	0	e 21	53	-12	e 15	20	PP	—
Hurbanovo	85.7	318	12	9	+ 2	i 22	2	[ - 1]	e 24	0	sS	—
Taranto	85.8	310	12	0	- 7	21	57	[ - 6]	15	57	PP	39.0
Raciborz	85.9	320	i 12	2	- 5	e 22	2	[ - 2]	—	—	—	—
Bratislava	86.4	318	i 12	11	0	i 22	18	- 3	i 13	23	pP	—
Apia	86.8	104	e 12	16	+ 3	—	—	—	—	—	—	—

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Kiruna	86.8	338	i 12	13k	0	i 22	22	- 2	i 22	5	SKS	—
Reggio Calabria	86.8	308	e 12	14	+ 1	e 22	9	[- 1]	i 22	26	ScS	—
Messina	86.9	308	i 12	14k	0	i 22	24	- 1	e 13	24	pP	—
Upsala	87.1	330	i 12	14k	0	i 22	24	- 3	i 22	8	SKS	—
Prague	88.3	320	e 12	20	0	i 22	35	- 3	e 13	33	pP	—
Trieste	88.6	316	e 12	15	- 5	i 22	37	- 4	i 22	16	SKS	—
Rome	89.4	312	i 12	25	0	e 22	24	[- 2]	i 13	52	pP	e 38.3
Cheb	89.6	320	i 12	29	+ 3	i 22	54	+ 4	22	23	SKS	—
Copenhagen	89.6	326	i 12	27	+ 1	i 22	50	0	i 22	26	SKS	—
Skalstugan	89.9	333	i 12	27k	0	i 22	51	- 2	i 16	5	PP	—
Jena	90.1	321	i 12	29	+ 1	e 22	26	[- 4]	e 13	37	pP	—
Florence X.	90.3	314	e 12	28	0	i 22	27	[- 4]	e 13	36	pP	—
Hamburg	91.1	323	i 12	34	+ 1	e 23	3	0	e 22	33	SKS	—
Stuttgart	91.7	319	i 12	36k	0	e 23	8	- 1	13	34	pP	—
Pavia	91.8	315	e 12	37k	+ 1	e 23	9	-10	e 13	37	pP	—
Ebingen	91.9	318	12	36k	0	—	—	—	—	—	—	—
Strasbourg	92.6	318	i 12	40	0	e 22	42	[- 3]	e 13	49	pP	38.3
Basle	92.8	317	e 12	42	+ 1	e 22	42	[- 4]	—	—	—	—
Monaco	93.1	314	i 12	42k	0	—	—	—	e 13	16	pP	—
Neuchatel	93.3	317	e 12	43	0	22	43	[- 6]	e 16	13	PP	—
Besançon	93.9	317	i 12	45	0	i 17	38	PPP	i 16	30	PP	—
De Bilt	94.1	322	—	—	—	i 23	31	+ 2	i 22	51	SKS	e 44.3
Tamanrasset	95.6	293	i 12	55k	+ 1	i 23	46	+ 4	e 14	6	pP	—
Clermont-Ferrand	96.0	316	e 12	56	+ 1	e 23	48	+ 2	e 23	2	SKS	—
Paris	96.1	319	e 12	56	0	e 23	53	+ 7	e 13	56	pP	—
Algiers Univ.	96.9	307	e 12	57	- 2	e 23	57	+ 4	e 14	5	pP	—
Kew	97.5	322	—	—	—	e 23	59	+ 1	i 23	8	SKS	—
Aberdeen	97.6	328	—	—	—	i 23	5	[- 6]	e 25	20	PS	—
College	98.9	24	e 13	10	+ 1	e 24	2	- 8	e 17	16	PP	e 40.5
Relizane	99.0	306	—	—	—	—	—	—	16	47	PP	—
Alicante	99.5	309	e 13	0	-10	23	58	-17	17	11	PP	—
Rathfarnham Castle	100.7	324	—	—	—	e 24	41	+16	i 17	26	PP	—
Scoresby Sund	100.9	343	—	—	—	e 23	26	[- 2]	e 17	35	PP	—
Almeria	101.3	307	—	—	—	e 23	27	[- 3]	—	—	—	—
Toledo z.	102.0	311	—	—	—	—	—	—	17	21	PP	—
Granada	102.1	308	17	4	PP	25	31	?	i 23	31	SKS	53.0
Malaga	102.8	308	16	48	PP	23	32	[- 5]	—	—	—	—
Resolute Bay	105.0	4	e 17	51	PP	e 23	42	[- 4]	e 26	51	sS	—
Sitka	107.6	29	—	—	—	e 25	22	S	e 32	51	SS	e 43.9
Victoria	118.3	32	e 18	14	[+ 1]	—	—	—	e 21	20	?	—
Banff	120.4	26	i 18	17	[ 0]	—	—	—	—	—	—	—
Corvallis z.	120.7	36	e 18	22	[+ 4]	—	—	—	—	—	—	—
Hungry Horse	123.1	28	e 18	23	[+ 1]	e 26	31	SKKS	i 19	40	pPKP	—
Shasta z.	123.4	39	18	24	[+ 1]	—	—	—	—	—	—	—
Mineral z.	124.1	39	e 18	26	[+ 2]	—	—	—	—	—	—	—
Berkeley	125.1	42	e 18	29	[+ 3]	27	54	SKKS	—	—	—	—
Butte N.	125.5	29	e 18	29	[+ 2]	i 21	10	SKP	i 20	12	PP	—
Lick z.	125.8	42	i 18	30	[+ 3]	—	—	—	—	—	—	—
Bozeman	126.5	28	i 18	30	[+ 1]	e 20	31	PP	e 19	47	pP	—
Eureka	128.1	37	i 18	31	[ 0]	i 21	19	SKP	i 19	45	pPKP	—
Tinemaha z.	128.2	40	e 18	35	[+ 3]	i 22	21	SKP	i 21	40	PKS	—
Woody z.	128.5	42	e 18	34	[+ 1]	i 20	40	PP	i 21	39	PKS	—
Isabella z.	128.8	42	i 18	35	[+ 2]	i 20	42	PP	i 21	41	PKS	—
China Lake z.	129.3	42	e 18	36	[+ 2]	i 21	40	PKS	e 19	53	pPKP	—
Salt Lake City	129.6	33	e 18	37	[+ 2]	—	—	—	i 21	28	SKP	—
Pasadena	129.9	44	e 18	38	[+ 3]	i 21	44	PKS	e 19	55	pPKP	—
Riverside z.	130.5	43	i 18	40	[+ 4]	e 21	42	PKS	e 19	56	pPKP	—
Rapid City E.	131.2	24	e 18	41	[+ 3]	—	—	—	i 21	35	SKP	—
Palomar z.	131.2	44	e 18	40	[+ 2]	—	—	—	i 21	49	PKS	—
Barratt z.	131.7	44	i 18	42	[+ 3]	i 21	36	PKS	i 19	51	pPKP	—
Hayfield N.	131.9	42	e 18	43	[+ 4]	i 21	37	SKP	i 19	53	pPKP	—
Kirkland Lake z.	132.3	1	e 18	48	[+ 8]	—	—	—	i 21	43	PKS	—
Seven Falls	132.8	353	—	—	—	38	10	SS	e 21	39	SKP	—
Boulder	133.5	28	—	—	—	—	—	—	i 21	42	SKP	—
Shawinigan Falls	133.6	354	i 18	44k	[+ 2]	21	2	PP	22	0	PKS	—

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	$\Delta$ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.	
Halifax	133.9	345	—	—	—	26	34	SKKP	e 21	11	PP	—
Brébeuf	134.7	355	—	—	—	—	—	—	21	44	pP	—
Ottawa	135.0	357	e 18	36	[- 8]	27	42	SKKS	21	12	pP	—
Tucson	135.9	41	—	—	—	—	—	—	i 21	51	PP	—
Palisades	139.2	355	e 18	39	[-13]	e 28	10	SKKS	e 21	39	PP	e 57.6
Fayetteville	141.5	20	18	42	[-14]	—	—	—	22	4	PP	—
Chapel Hill	144.5	1	i 19	3	[+ 1]	—	—	—	—	—	—	—
Columbia	146.4	4	i 19	8	[+ 3]	i 22	16	PP	i 20	24	pPKP	—
Tacubaya	152.2	46	i 19	28	[+14]	—	—	—	—	—	—	—
Dominica	157.4	312	e 19	58	[+37]	—	—	—	—	—	—	—
San Juan	158.2	327	e 19	25	[+ 3]	—	—	—	e 23	38	PP	—
St. Vincent	158.6	308	e 20	0	[+37]	—	—	—	—	—	—	—
Trinidad	160.1	302	e 20	7	[+43]	—	—	—	—	—	—	—
La Paz	160.4	211	19	6	[-17]	—	—	—	—	—	—	—
Huancayo	z. 167.4	194	e 19	37	[+ 6]	e 24	34	PP	e 20	45	pPKP	—
Bogota	173.8	314	—	—	—	i 25	23	[-45]	i 25	2	PP	—

Aug. 15d. 10h. 51m. 23s. Epicentre 0°·14S. 122°·85E. Depth of focus = 0·017R.

A = -0·5424, B = +0·8401, C = -0·0024;  $\delta$  = -3;  $h$  = +7;  
D = +0·840, E = +0·542; G = +0·001, H = -0·002, K = -1·000.

	$\Delta$ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.	
Manila	14.7	353	1 3	22	0	1 6	30	SS	—	—	—	
Bandung	16.6	246	e 3	46	+ 1	e 6	57	+12	—	—	—	
Lembang	16.6	246	i 3	45 <sub>k</sub>	0	e 6	55	+10	e 4	5	PP	—
Baguio City	16.6	352	3	45	0	i 6	57	+12	—	—	—	
Djakarta	17.1	249	e 3	48 <sub>a</sub>	- 2	e 7	7	+11	e 15	13	ScS	—
Hengchun	22.1	355	4	49	+ 5	8	47	+13	—	—	—	
Tawu	22.4	355	4	49	+ 1	8	50	+11	—	—	—	
Tainan	23.1	354	e 4	59	+ 5	9	7	+16	—	—	—	
Hsinkong	23.1	356	e 4	54	0	8	58	+ 7	—	—	—	
Hong Kong	23.8	340	i 5	2 <sub>a</sub>	+ 1	e 9	7	+ 1	—	—	—	
Ilan	24.8	358	5	7	- 2	9	30	+10	—	—	—	
Canton	24.9	339	5	11 <sub>a</sub>	0	9	28	+ 6	10	8	sS	—
Taipei	25.0	357	e 5	14	+ 1	9	39	+14	—	—	—	
Guam	25.6	57	i 5	14	- 2	—	—	—	—	—	—	
Rabaul	29.6	98	i 5	51	- 2	e 10	41	+ 4	e 8	34	PcP	—
Zô-Sê	31.1	357	6	5 <sub>a</sub>	- 1	11	3	+ 2	7	17	PP	—
Futzeling	31.9	349	e 6	17	+ 3	—	—	—	—	—	—	
Nanking	32.2	353	6	17 <sub>a</sub>	0	11	27	+ 9	6	51	pP	—
Perth	32.3	191	i 6	19	+ 1	i 11	34	+14	6	59	pP	—
Saga	33.9	11	e 6	42	+10	e 12	10	+24	e 8	5	PP	—
Simidu	34.1	15	e 6	32	0	e 11	51	+ 4	—	—	—	
Ooita	34.2	13	e 6	39	+ 5	—	—	—	—	—	—	
Muroto	34.9	17	6	40	0	—	—	—	—	—	—	
Koti	35.0	16	e 6	41	+ 1	e 12	11	+ 9	e 8	1	PP	—
Matuyama	n. 35.0	14	6	41	0	—	—	—	7	57	PP	—
Hirosima	35.5	14	e 6	43 <sub>a</sub>	- 1	e 12	11	+ 2	e 8	11	PP	—
Siomisaki	35.5	19	e 6	45	0	12	13	+ 3	—	—	—	
Tokusima	35.8	17	e 6	46	0	e 12	14	0	e 7	48	PP	—
Takamatu	35.8	16	e 6	48	0	e 12	15	+ 1	—	—	—	
Sumoto	36.1	17	e 6	51	+ 1	12	21	+ 3	—	—	—	
Owase	36.3	19	6	51	0	e 12	21	- 1	e 8	19	PP	—
Kobe	36.5	17	e 6	49	- 3	12	23	0	e 6	54	P	—
Osaka	36.6	18	e 6	55	+ 1	e 12	13	-13	e 8	19	PP	—
Sian	36.6	340	6	56	+ 2	—	—	—	—	—	—	
Shenchow	36.7	341	e 6	56	+ 1	—	—	—	—	—	—	
Kyoto	37.0	18	6	56	0	12	31	- 1	—	—	—	
Kameyama	37.1	19	e 6	58	0	12	39	+ 5	e 8	31	PP	—
Toyooka	37.2	16	e 6	59	0	e 12	35	+ 1	12	40	S	—
Hikone	37.4	18	7	2	+ 1	12	40	+ 2	8	30	PP	—
Omaesaki	37.4	21	e 7	1	0	e 12	43	+ 5	—	—	—	

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		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
				m.	s.		m.	s.		m.	s.	
Nagoya		37.5	19	e 7	3	+ 1	e 12	43	+ 3	—	—	—
Linfen		37.6	345	e 7	6	+ 4	—	—	—	—	—	—
Gihu		37.7	19	e 7	3	0	e 12	43	+ 1	8 30	PP	—
Tsuruga	E.	37.7	18	e 7	4	+ 1	12	45	+ 2	—	—	—
Shizuoka		37.8	21	7	5	+ 1	12	48	+ 4	—	—	—
Osima		38.0	22	7	9	+ 3	i 12	48	+ 1	i 8 41	PP	—
Hukui		38.1	18	e 7	6	0	—	—	—	—	—	—
Iida		38.1	20	e 7	7	0	e 12	50	+ 2	—	—	—
Misima		38.2	22	i 7	4	- 2	e 12	48	- 1	e 8 38	PP	—
Mera	E.	38.3	23	—	—	—	—	—	—	e 8 22	PP	—
Hunatu		38.4	21	7	9	0	12	57	+ 3	—	—	—
Kohu		38.5	21	e 7	9	0	12	58	+ 3	e 8 43	PP	e 15.8
Takayama	N.	38.5	19	e 7	9	0	—	—	—	—	—	—
Yokohama		38.7	22	e 7	17	+ 5	e 13	19	+ 21	e 8 54	PP	—
Matumoto	N.	38.8	20	e 7	12	0	e 13	0	0	—	—	—
Taiyuan		38.9	347	7	16	+ 3	—	—	—	—	—	—
Tokyo		39.0	22	7	17	+ 3	e 12	54	- 8	e 9 3	PP	e 15.2
Titibu		39.0	21	i 7	13	0	e 13	3	+ 1	i 8 52	PP	—
Oiwake		39.1	20	e 7	15	0	e 13	2	0	—	—	—
Matusiro		39.2	20	i 7	13 <sub>a</sub>	- 2	i 13	4	0	8 53	PP	16.0
Kumagaya		39.2	21	e 7	16	0	e 13	4	0	—	—	—
Nagano	N.	39.3	20	e 7	17	+ 1	e 13	23	+ 18	e 9 14	PP	—
Shillong		39.3	313	i 7	17	0	i 13	12	+ 5	8 47	PP	—
Maebasi		39.3	21	e 7	15 <sub>a</sub>	- 1	13	2	- 5	8 45	PP	—
Wazima	N.	39.5	18	e 7	17	0	13	11	+ 3	—	—	—
Tukubasan		39.6	22	7	13	- 5	13	4	- 7	17 14	ScS	—
Kakioka		39.6	22	e 7	17	- 1	13	7	- 4	—	—	—
Brisbane		39.7	136	i 7	19	0	i 13	8	- 3	—	—	—
Utunomiya	N.	39.8	22	e 7	18	- 1	e 13	5	- 8	e 17 17	ScS	—
Mito		39.8	22	e 7	23	+ 2	—	—	—	—	—	—
Lanchow		40.1	336	7	27	+ 4	—	—	—	—	—	—
Shirakawa		40.4	22	7	27	+ 1	13	27	+ 5	8 38	pP	—
Peking		40.4	352	i 7	24	- 2	13	26	+ 4	7 58	sP	—
Onahama		40.5	22	e 7	26	0	e 13	25	+ 3	—	—	—
Niigata		40.7	20	e 7	23	- 4	—	—	—	—	—	—
Tatung		41.0	349	e 7	34	+ 4	—	—	—	—	—	—
Hukusima		41.1	21	i 7	22	- 8	13	35	+ 3	—	—	—
Yinchuan		41.3	340	7	37	+ 4	—	—	—	—	—	—
Yamagata		41.5	21	e 7	34	0	e 13	42	+ 4	—	—	—
Sining		41.5	334	7	35	+ 1	—	—	—	—	—	—
Sendai		41.7	21	e 7	35	0	e 13	44	+ 3	e 9 27	PP	—
Sakata		41.9	20	e 7	46	+ 8	—	—	—	—	—	—
Isinomaki		42.0	22	e 7	34	- 3	e 13	50	+ 5	—	—	—
Paotow		42.2	345	e 7	43	+ 3	—	—	—	—	—	—
Wuwei		42.2	336	7	42	+ 2	—	—	—	—	—	—
Mizusawa		42.5	21	7	44	+ 1	14	0	+ 8	—	—	—
Akita		42.7	20	i 7	45	+ 1	i 14	3	+ 8	8 18	pP	—
Melbourne		42.7	154	i 7	44	0	i 14	1	+ 6	i 8 8	pP	—
Riverview		42.7	144	i 7	46	+ 1	i 14	6	+ 9	i 8 9	pP	—
Morioka		43.0	21	i 7	48	+ 1	i 14	7	+ 7	—	—	—
Bokaro		43.1	306	e 7	51	+ 3	i 14	5	+ 4	i 8 25	pP	18.3
Miyako		43.3	22	e 7	49	0	e 14	8	+ 4	17 17	SS	—
Colombo	E.	43.4	280	e 7	48	- 2	e 14	6	- 1	—	—	e 21.1
Chatra	Z.	43.5	311	i 7	50	0	—	—	—	i 8 17	pP	—
Vladivostok		43.8	10	i 7	51	- 1	14	16	+ 5	9 38	PP	—
Changchun		43.8	3	e 7	51	- 1	e 14	17	+ 6	8 33	pP	—
Aomori		43.9	20	i 7	54	0	e 14	19	+ 6	—	—	—
Hatinohe	N.	43.9	21	i 7	55	+ 1	i 14	18	+ 5	—	—	—
Madras	E.	44.3	289	e 8	14	+ 17	i 14	22	+ 5	9 53	PP	17.7
Mori		45.0	19	8	7	+ 4	14	36	+ 7	e 8 49	pP	—
Muroran		45.3	19	e 8	5	0	e 14	36	+ 3	—	—	—
Suttsu		45.5	18	e 8	6	0	i 14	36	0	—	—	—
Tomakomai		45.7	19	e 8	11	+ 3	14	49	+ 11	—	—	—
Harbin		45.8	2	e 8	9	0	—	—	—	—	—	—
Urakawa		45.8	21	e 8	11	+ 2	14	48	+ 7	—	—	—

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Sapporo		46.1	19	e 8 10	- 1	e 14 49	+ 5	e 13 30	ScP	—
Kodaikanal	E.	46.3	284	e 8 21	+ 9	i 14 54	+ 7	e 10 0	PP	—
Obihiro	Z.	46.6	21	e 8 17	+ 2	—	—	—	—	—
Yumen		46.6	333	e 8 16	0	—	—	—	—	—
Hyderabad	E.	47.0	294	i 8 15 <sub>a</sub>	- 3	i 15 1	+ 4	10 9	PP	21.2
Asahigawa		47.1	19	e 8 20	+ 1	—	—	—	—	—
Kusiro		47.1	22	e 8 18	0	i 15 3	+ 5	—	—	—
Nouméa		47.8	121	i 8 38	+13	—	—	—	—	—
Abashiri		47.9	21	e 8 28	+ 4	—	—	—	—	—
Wakkanai	E.	48.3	18	e 8 31	+ 3	—	—	—	—	—
Yuzno-Sakhlinsk		50.0	18	e 8 40	- 1	i 15 44	+ 5	—	—	—
Poona		51.6	294	i 8 51	- 1	e 16 0	- 1	10 9	PcP	24.2
New Delhi		52.1	307	e 8 42	-13	i 16 11	+ 2	21 22	SSS	—
Dehra Dun		52.2	310	e 9 0	+ 1	i 16 13	+ 4	19 51	SS	23.7
Bombay		52.6	294	e 9 2	+ 1	e 16 18	+ 4	16 47	PPS	—
Irkutsk		54.5	346	9 13 <sub>a</sub>	- 1	i 16 48	+ 8	12 29	PPP	—
Suva	N.	57.4	111	e 9 41	+ 5	i 17 26	+ 8	e 11 49	PP	—
Onerahi	E.	59.5	132	9 53	+ 3	—	—	—	—	—
Auckland	N.	60.3	133	—	—	i 18 7	+11	i 19 42	ScS	—
Kaimata	N.E.	60.6	140	e 10 1	+ 3	—	—	—	—	—
Cobb River	E.	60.7	138	e 9 57	- 1	e 18 10	+ 9	19 40	ScS	—
Frunse		60.8	321	i 9 58	0	i 18 10	+ 8	—	—	—
Petropavlovsk		60.9	24	e 9 57	- 2	i 18 8	+ 5	10 44	PcP	—
Quetta		61.0	305	e 9 58	- 2	i 18 9	+ 4	—	—	—
Karapiro	N.	61.2	134	e 10 2	0	e 18 32	+24	e 19 49	ScS	—
Macquarie Is.	Z.	61.7	157	i 10 8	+ 2	—	—	i 10 28	pP	—
Christchurch		61.9	141	e 10 7	+ 1	i 18 23	+ 7	i 19 3	PS	—
Semipalatinsk		62.0	331	e 10 5	- 1	i 18 23	- 6	—	—	—
Wellington		62.2	138	i 10 6	- 2	i 18 23	+ 3	—	—	—
Stalinabad		62.7	314	—	—	i 18 29	+ 9	i 16 10	?	—
Tu'ai	N.	62.8	134	e 10 13	+ 1	18 33	+ 6	—	—	—
Magadan		63.4	15	e 10 15	- 1	18 43	+ 8	20 2	ScS	—
Tashkent		63.5	317	i 10 14	- 2	i 18 43	+ 6	i 10 43	pP	—
Apia		66.1	105	e 10 35	+ 1	e 15 1	PPP	e 11 17	pP	—
Mirny		69.5	192	e 10 56	+ 1	e 19 56	+ 8	e 11 27	pP	—
Ashkabad		70.2	311	i 10 57	- 1	13 40	PP	e 11 24	pP	—
Tiksi		71.8	2	e 11 5	- 3	—	—	e 11 30	pP	—
Sverdlovsk		75.3	330	11 29	0	21 27	SKS	12 1	pP	—
Tananarive		76.0	251	i 11 31 <sub>a</sub>	- 1	—	—	i 13 23	?	—
Honolulu		79.8	68	i 11 55	+ 1	e 21 49	SKS	i 12 43	pP	e 35.9
Moscow		87.4	326	i 12 30 <sub>a</sub>	- 1	i 23 1	+ 1	12 56	pP	—
Ksara		87.6	304	i 12 31	- 1	i 16 5	PP	i 13 11	pP	—
Safed		87.8	303	i 12 37	+ 3	—	—	—	—	—
Jerusalem		88.0	302	i 12 37	+ 2	—	—	i 13 6	pP	—
Simferopol		89.2	315	e 12 38	- 2	i 22 59	SKS	e 13 9	pP	—
College		89.8	25	e 12 42	- 1	i 23 24	+ 4	i 13 20	pP	e 38.3
Apatity		89.9	338	i 12 3	-40	e 15 42	PP	i 22 23	?	—
Sodankyla		92.5	337	i 12 56	0	i 23 48	+ 4	i 13 21	pP	—
Uvira		93.7	266	e 13 0 <sub>a</sub>	- 1	—	—	—	—	—
Lwiro		94.0	268	e 13 8 <sub>k</sub>	+ 5	—	—	—	—	—
Pretoria		94.1	244	i 13 4 <sub>a</sub>	0	—	—	—	—	—
Kiruna		94.8	338	i 13 3	- 3	i 24 1	- 2	i 13 29	pP	—
Bucharest		94.9	314	17 5	PP	24 7	+ 3	23 37	SKS	—
Lwow		95.8	320	i 13 12	+ 1	e 24 18	+ 6	i 23 37	SKS	—
Sitka		96.5	33	i 13 16	+ 1	i 24 28	+ 9	i 13 48	pP	e 31.9
Warsaw		97.3	323	e 13 17	0	e 24 31	+ 6	e 23 44	SKS	—
Upsala		97.7	331	e 13 23	+ 3	i 24 31	+ 3	i 23 44	SKS	—
Belgrade		98.9	315	e 17 48	PP	23 55	[+ 7]	e 31 34	SS	—
Skalstugan		99.2	335	i 13 26	0	i 17 25	PP	i 13 48	pP	—
Bratislava		100.6	319	i 13 57	+24	i 24 4	[+ 8]	i 17 52	PP	—
Copenhagen		101.5	327	e 17 52	PP	i 24 8	[+ 8]	27 1	PS	—
Resolute Bay		102.3	10	e 13 39 <sub>k</sub>	0	i 24 7	[+ 3]	e 26 51	PS	—
Triest		103.4	317	e 18 4	PP	i 32 45	SS	e 20 30	PPP	—
Jena	Z.	103.4	323	e 13 45	0	e 24 17	[+ 8]	e 18 9	PP	—
Hamburg		103.5	326	e 13 49	+ 3	i 24 18	[+ 9]	e 18 8	PP	—

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Rome	105.2	314	e 18	14	PP	e 28	12	PS	e 32	38	SS	e 48.6
Horseshoe Bay	105.4	38	i 13	54	P	i 24	27	[+ 9]	e 18	9	PP	—
Stuttgart	105.5	321	e 13	55	P	e 24	24	[+ 5]	e 18	21	PP	—
Florence	105.6	316	e 16	52	?	e 27	56	PS	e 18	23	PP	e 49.6
Victoria	105.6	39	e 13	56	P	25	14	-20	24	29	SKKS	—
Bensberg	106.0	324	i 18	29	PP	25	12	-26	18	56	pPP	—
Scoresby Sund	106.1	348	i 28	36	PPS	i 24	27	[+ 6]	e 18	26	PP	51.6
Strasbourg	106.5	321	i 18	28	PP	e 25	47	+ 6	i 19	1	pPP	52.6
Pavia	106.6	317	e 18	29	PP	e 28	15	PS	e 19	0	PKP	—
Seattle	106.6	40	i 14	3	P	i 24	36	[+13]	e 18	2	PP	—
De Bilt	106.8	325	e 18	29	PP	e 25	56	PS	e 19	10	pPP	e 48.6
Corvallis	z. 106.9	43	e 14	4	P	—	—	—	e 18	21	PP	—
Neuchatel	107.5	320	e 18	22	PP	—	—	—	—	—	—	—
Besançon	108.0	320	e 18	39	PP	—	—	—	—	—	—	—
Monaco	108.2	316	e 18	40	PP	—	—	—	e 19	17	pPP	—
Aberdeen	108.3	332	i 18	39	PP	i 24	37	[+ 6]	i 20	57	PPP	—
Ukiah	108.5	49	i 18	14	[+ 3]	—	—	—	e 18	48	PP	—
Shasta	z. 108.7	47	e 14	11	P	—	—	—	e 18	18	PKP	—
Durham	109.2	330	i 19	12	[+59]	24	20	[-11]	—	—	—	—
Mineral	z. 109.3	47	e 18	17	[+ 4]	—	—	—	e 14	26	P	—
Banff	109.4	35	e 18	17	[+ 3]	—	—	—	—	—	—	—
Berkeley	109.5	50	i 18	18	[+ 4]	i 24	46	[+10]	e 18	48	pP'	—
Paris	109.6	323	e 18	50	PP	i 24	46	[+10]	19	21	pPP	53.6
Kew	110.1	326	e 18	53	PP	e 24	46	[+ 8]	e 26	21	S	e 52.6
Lick	z. 110.2	50	e 18	20	[+ 5]	—	—	—	e 14	19	P	—
Clermont-Ferrand	110.4	320	e 19	0	PP	—	—	—	e 19	32	pPP	—
Hungry Horse	111.5	37	i 18	20	[+ 3]	e 24	51	[+ 8]	e 14	23	P	—
Rathfarnham Castle	112.4	330	e 18	1	[-15]	e 25	12	[+24]	e 34	37	SS	e 59.6
Woody	z. 112.8	51	i 18	21	[+ 1]	i 29	17	PKKP	e 14	27	P	—
Tinemaha	z. 112.8	49	e 18	25	[+ 5]	i 25	7	[+18]	e 18	52	pP'	—
Isabella	z. 113.1	51	i 18	24	[+ 4]	e 28	40	SP	e 14	30	P	—
Butte	N. 113.4	39	e 18	24	[+ 3]	i 25	0	[+ 9]	e 14	32	P	e 45.7
Algiers Univ.	113.6	310	i 18	23	[+ 2]	19	13	PP	19	45	pPP	—
Eureka	113.7	46	i 18	11	[-10]	i 19	13	PP	i 14	29	P	—
China Lake	z. 113.7	51	i 18	24	[+ 2]	e 24	57	[+ 4]	e 14	32	P	—
Pasadena	113.8	52	i 18	25	[+ 3]	i 25	7	[+14]	i 18	53	pP'	e 44.7
Dalton	z. 114.1	52	i 17	56	[-25]	—	—	—	e 29	9	PKKP	—
Riverside	z. 114.4	52	e 18	27	[+ 4]	i 25	8	[+13]	e 14	44	P	—
Bozeman	114.5	38	i 18	26	[+ 3]	i 19	22	PP	e 14	38	P	—
Palomar	z. 115.1	53	e 18	28	[+ 4]	e 29	8	PKKP	e 14	39	P	—
Tamanrasset	115.1	295	e 18	28	[+ 4]	e 25	43	[+45]	e 19	28	PP	—
Barratt	z. 115.4	54	i 18	29	[+ 4]	i 25	12	[+12]	i 18	56	pP'	—
Alicante	115.7	313	i 18	22	[- 2]	25	10	[+10]	19	28	PP	e 55.1
Boulder City	115.8	50	i 18	38	[+12]	—	—	—	—	—	—	—
Relizane	115.8	310	e 19	32	PP	—	—	—	—	—	—	—
Hayfield	N. 115.9	52	i 18	30	[+ 4]	e 25	13	[+12]	e 14	42	P	—
Salt Lake City	116.1	44	e 18	30	[+ 4]	e 25	14	[+12]	e 14	43	P	e 49.2
Toledo	117.6	316	e 19	44	PP	—	—	—	—	—	—	—
Almeria	117.7	312	e 19	53	PP	e 26	24	SKKS	—	—	—	—
Granada	118.4	313	i 19	57	PP	25	18	[+ 8]	22	30	PPP	63.7
Malaga	119.2	313	i 19	53	PP	25	19	[+ 6]	i 22	17	PKS	60.0
Rapid City	E. 120.1	37	i 18	37	[+ 3]	e 15	5	P	e 19	7	pP'	—
Tucson	120.2	52	i 18	33	[+ 0]	i 19	57	PP	e 28	46	PKKP	—
Kirkland Lake	z. 128.2	19	e 18	58 <sup>a</sup>	[+ 8]	e 32	2	SKKP	e 19	25	pP'	—
Guadalajara	130.5	63	—	—	—	e 22	7	SKP	—	—	—	—
Seven Falls	131.7	12	—	—	—	e 22	24	SKP	30	34	PS	—
Shawinigan Falls	131.8	14	i 18	58 <sup>k</sup>	[+ 2]	22	12	SKP	e 19	26	pP'	—
Ottawa	132.0	18	e 18	58	[+ 1]	25	59	[+ 9]	19	27	pP'	—
Terre Haute	132.1	32	e 15	42	?	22	37	PKS	—	—	—	—
Brébeuf	132.5	16	i 18	31 <sup>k</sup>	[-26]	—	—	—	—	—	—	—
Tacubaya	134.6	62	i 16	57	?	e 25	58	[+ 5]	e 24	27	PPP	—
Halifax	135.3	7	e 18	40	[-22]	e 21	39	PP	i 19	35	pP'	—
Palisades	136.6	18	e 19	5	[+ 0]	i 26	13	[+ 4]	e 21	45	PP	e 65.3
Vera Cruz	137.3	61	e 21	52	PP	—	—	—	—	—	—	—
Columbia	139.5	31	e 19	7	[- 3]	e 21	52	PP	i 19	47	pP'	—

Continued on next page.

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	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Huancayo	158.3	124	e 19 49	[+ 9]	e 44 5	SS	i 20 25 sPKP	—
San Juan	159.8	25	i 19 44	[+ 2]	e 24 5	PP	i 20 22 pP'	—
La Paz	160.2	147	i 19 41	[ 0]	i 30 51	SKKS	23 27 PP	—
Bogota	162.5	75	i 19 48	[+ 4]	i 30 59	SKKS	i 44 44 SS	—
Dominica	164.4	15	e 19 50	[+ 4]	—	—	e 20 45 PKP <sub>2</sub>	—
St. Vincent	166.4	17	e 19 51	[+ 3]	e 20 50	PKP	e 24 38 PP	—
Barbados	166.9	11	e 19 56	[+ 8]	—	—	—	—
Trinidad	168.7	22	e 19 53	[+ 4]	—	—	—	—

Aug. 15d. 12h. 2m. 55s. Epicentre 43°·22N. 15°·99E.

A = +0.7027, B = +0.2014, C = +0.6824;  $\delta$  = +2;  $h$  = -3;  
D = +0.276, E = -0.961; G = +0.656, H = +0.188, K = -0.731.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Taranto	2.9	161	0 49	+ 1	1 33	- 3 <sub>g</sub>	0 57 P <sub>g</sub>	—
Triest	2.9	327	i 0 50 <sub>a</sub>	+ 2	1 25	+ 1	0 56 P <sub>g</sub>	—
Rome	2.9	244	i 0 50 <sub>k</sub>	+ 2	i 1 22	- 2	i 1 3 P <sub>g</sub>	—
Florence	3.5	281	i 0 59 <sub>k</sub>	+ 2	i 1 36	- 4	i 1 54 S <sub>g</sub>	—
Belgrade	3.6	62	0 59 <sub>k</sub>	+ 1	i 1 50	- 1*	1 12 P <sub>g</sub>	—
Bologna	3.6	292	e 1 5	+ 1*	e 1 45	+ 3	e 1 12 P <sub>g</sub>	—
Prato	3.6	282	e 0 59	0	i 1 32	-10	—	—
Kalossa	3.9	32	—	—	1 48	- 2	1 54 S <sub>g</sub>	3.1
Szeged	4.2	43	e 1 13	- 2*	2 0	+ 3	1 28 P <sub>g</sub>	—
Timisoara	E. 4.5	54	e 1 14	+ 3	i 2 6	+ 1	i 1 32 P <sub>g</sub>	—
Kecskemet	4.5	34	1 13	+ 1	2 27	- 2 <sub>g</sub>	1 27 P <sub>g</sub>	2.5
Budapest	4.8	26	1 15	0	e 1 54	-18	1 25 P*	2.6
Hurbanovo	4.9	18	i 1 17 <sub>a</sub>	0	e 2 17	+ 2	i 1 39 P <sub>g</sub>	—
Bratislava	5.0	8	e 1 19	+ 1	—	—	i 1 47 P <sub>g</sub>	—
Messina	5.0	184	i 1 18 <sub>k</sub>	0	i 2 39	- 6 <sub>g</sub>	i 1 37 P <sub>g</sub>	—
Vienna	5.0	3	i 1 21	+ 2	i 2 25	+ 5	i 1 39 P <sub>g</sub>	—
Reggio Calabria	5.1	183	1 19 <sub>a</sub>	- 1	i 3 3	+14 <sub>g</sub>	i 1 50 P <sub>g</sub>	—
Pavia	5.3	294	e 1 22	0	e 2 19	- 6	e 1 38 P*	—
Sofia	5.4	93	e 1 24	0	i 2 59	+ 1 <sub>g</sub>	i 1 45 P <sub>g</sub>	—
Monaco	6.2	278	e 1 35 <sub>k</sub>	0	i 2 55	+ 7	i 1 55 P*	—
Cuglieri	6.3	244	i 1 35	- 1	i 3 37	+ 9 <sub>g</sub>	14 0 ?	—
Ravensburg	6.4	318	e 1 37	- 1	2 48	- 5	2 7 P <sub>g</sub>	—
Skalnate Pleso	6.6	25	i 1 42	+ 1	e 3 4	+ 5	i 2 18 P <sub>g</sub>	—
Zürich	6.7	311	e 1 50	+ 8	—	—	—	—
Prague	6.9	352	1 45	0	2 57	- 8	2 19 P <sub>g</sub>	—
Uzhgorod	7.0	37	e 1 46	0	i 3 4	- 4	i 2 3 P*	—
Ebingen	7.0	318	1 45 <sub>a</sub>	0	i 4 2	+11 <sub>g</sub>	i 2 16 P <sub>g</sub>	—
Raciborz	7.0	12	e 1 41	- 5	e 3 0	- 8	i 2 12 P <sub>g</sub>	—
Stuttgart	7.3	322	e 1 49 <sub>a</sub>	0	e 3 6	- 9	e 2 22 P <sub>g</sub>	—
Cheb	7.3	341	i 1 50	0	i 3 4	-11	2 15 P*	—
Basle	7.3	309	e 1 50 <sub>k</sub>	0	e 3 31	-10*	e 2 18 P <sub>g</sub>	—
Krakow	7.3	20	e 1 51	0	i 3 15	0	i 2 8 P*	—
Bucharest	7.4	77	1 52	0	3 15	- 3	2 31 P <sub>g</sub>	—
Neuchatel	7.4	304	e 1 51	- 1	e 3 10	- 8	e 2 7 P*	—
Karlsruhe	7.8	320	i 1 55 <sub>a</sub>	- 2	3 18	-10	i 2 27 P <sub>g</sub>	—
Tunis	7.8	217	e 1 57	0	e 3 10	-18	e 2 8 P*	e 4.3
Strasbourg	7.8	316	1 57 <sub>a</sub>	- 1	i 3 23	- 5	i 2 3 PP	4.2
Athens	7.9	129	e 1 57	- 1	i 3 23	- 7	—	—
Besançon	8.1	303	e 2 2	0	—	—	—	—
Jena	8.3	340	i 2 2	- 1	i 3 30	- 9	i 2 46 P <sub>g</sub>	—
Focsani	8.4	69	2 17	+11	4 32	- 5 <sub>g</sub>	2 36 P*	—
Bacau	8.4	63	2 14	+ 8	4 47	+10 <sub>g</sub>	4 26 S*	—
Cernauti	8.6	50	i 2 11	+ 2	i 3 59	SS	—	—
Lwow	8.6	37	i 2 12	+ 3	i 3 50	+ 2	i 2 19 PP	—
Iasi	9.1	60	2 17	+ 1	4 55	- 6 <sub>g</sub>	4 33 S*	—

Continued on next page.

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Clermont-Ferrand	9.5	290	e 2	21	0	i 4	5	- 7	—	—	—
Warsaw	9.6	19	e 2	26	+ 5	e 4	9	- 3	2	34	PP
Kishinev	9.8	63	i 2	25	0	e 4	22	+ 5	—	—	—
Paris	10.9	305	i 2	42	+ 1	i 4	37	- 7	e 4	53	SS
Hamburg	11.1	341	i 2	42 <sub>a</sub>	0	—	—	—	i 2	50	PP
Witteveen	11.4	330	e 2	48	0	e 6	38	S <sub>g</sub>	e 4	3	P <sub>g</sub>
Algiers Univ.	11.8	241	e 2	50	- 2	e 5	16	+ 7	e 3	7	PP
Copenhagen	12.7	351	—	—	—	i 5	48	SS	—	—	—
Simferopol	13.1	76	i 3	7	- 3	—	—	—	—	—	e 6.5
Alicante	13.4	254	e 3	21	+ 7	e 6	1	SS	3	33	PPP
Kew	13.8	312	e 3	23	+ 4	e 6	12	SS	e 3	32	PP
Relizane	14.1	243	e 3	25	+ 2	—	—	—	e 3	38	PP
Toledo	15.4	264	e 3	38	- 1	6	39	+ 7	i 3	44	PP
Almeria	15.5	252	i 3	41	0	e 6	49	0	e 4	19	?
Granada	16.1	255	i 3	49 <sub>a</sub>	0	i 7	4	SS	4	13	PPP
Durham	16.3	321	3	55	+ 3	7	0	+ 7	—	—	—
Upsala	16.7	3	i 3	54 <sub>a</sub>	- 2	i 7	5	+ 2	—	—	i 8.6
Malaga	16.9	254	i 3	59 <sub>k</sub>	0	i 7	16	+ 9	8	19	PcP
Rathfarnham Castle	17.9	312	i 4	18 <sub>k</sub>	+ 6	e 7	44	+ 14	i 4	36	PP
Aberdeen	18.1	327	—	—	—	i 7	35	0	—	—	9.5
Ksara	18.1	114	i 4	17	+ 2	i 7	43	+ 8	i 4	33	PP
Safed	18.4	117	i 4	21	+ 3	i 7	40	- 1	—	—	—
Moscow	18.7	40	4	19	- 2	7	46	- 2	—	—	—
Jerusalem	19.0	121	i 4	26	0	i 7	49	- 6	—	—	—
Lisbon	19.5	265	4	31 <sub>a</sub>	0	8	9	+ 3	4	52	PP
Tiflis	21.3	84	i 4	50	0	—	—	—	—	—	—
Tamanrasset	22.2	206	i 4	59 <sub>k</sub>	0	e 9	11	+ 11	e 5	29	PP
Kiruna	24.8	4	i 5	23 <sub>a</sub>	- 1	e 9	41	- 5	—	—	i 13.5
Sodankyla	24.9	10	i 5	25	0	i 9	56	+ 9	—	—	i 13.5
Apatity	26.1	15	i 4	56 <sub>a</sub>	- 40	e 10	13	+ 6	—	—	13.7
Reykjavik	30.0	327	i 6	12 <sub>k</sub>	0	—	—	—	—	—	—
Sverdlovsk	31.1	48	6	20	- 2	—	—	—	9	14	PcP
Ashkabad	32.3	85	6	33	0	e 11	45	- 1	—	—	—
Scoresby Sund	33.2	338	e 6	41	0	e 12	5	+ 5	—	—	17.1
Tashkent	38.9	74	i 7	28	0	—	—	—	e 17	30	ScS
Stalinabad	39.6	78	i 7	34	0	i 13	38	0	—	—	—
Frunse	42.0	69	i 7	55 <sub>k</sub>	0	—	—	—	—	—	—
Quetta	42.3	91	e 7	56 <sub>a</sub>	0	e 14	20	+ 1	—	—	—
Semipalatinsk	43.3	57	i 8	4	0	e 14	29	- 4	—	—	—
Lwiro	46.7	162	i 8	33	0	—	—	—	—	—	—
Uvira	48.0	162	e 8	42 <sub>k</sub>	0	—	—	—	e 10	36	PP
Resolute	53.9	342	—	—	—	e 16	57	- 5	—	—	—
Poona	54.2	98	i 9	31	+ 1	—	—	—	—	—	—
Halifax	55.1	301	i 9	35 <sub>k</sub>	0	—	—	—	—	—	—
Tiksi	56.1	21	9	41	- 2	—	—	—	—	—	—
Irkutsk	56.5	47	9	44 <sub>a</sub>	- 2	—	—	—	—	—	—
Seven Falls	58.3	307	e 10	1	+ 2	—	—	—	—	—	—
Chatra	58.9	81	e 10	0	- 2	—	—	—	—	—	—
Shawinigan Falls	59.7	307	e 10	7	- 1	—	—	—	i 10	12	P
Brébeuf	60.7	306	e 10	10	- 5	—	—	—	—	—	—
Ottawa	62.0	307	e 10	23	- 1	—	—	—	—	—	—
Kirkland Lake	62.9	312	e 10	36	+ 5	—	—	—	—	—	—
Tananarive	68.3	148	e 11	8 <sub>a</sub>	+ 3	—	—	—	—	—	—
Pretoria	69.5	168	i 11	13 <sub>k</sub>	0	—	—	—	—	—	—
College	71.5	353	i 11	23	- 1	—	—	—	e 11	33	PcP
St. Vincent	71.8	271	e 11	26	0	—	—	—	—	—	—
San Juan	72.0	278	i 11	30	+ 2	—	—	—	—	—	—
Columbia	72.2	300	e 11	29	0	—	—	—	—	—	—
Banff	77.0	331	i 11	56	0	—	—	—	—	—	—
Sitka	77.2	344	e 11	59	+ 1	—	—	—	—	—	—
Rapid City	77.5	320	i 11	59	0	—	—	—	—	—	—
Yuzno-Sakhlinsk	78.6	34	e 12	5	0	—	—	—	—	—	—
Hungry Horse	78.8	329	i 12	5	0	—	—	—	—	—	—
Bozeman	79.8	325	i 12	11	0	—	—	—	—	—	—
Butte	80.1	326	e 12	13	0	—	—	—	—	—	—

Continued on next page.



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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Hong Kong	z.	80.7	68	e 12 17	0	—	—	—	—
Horseshoe Bay		81.1	334	e 12 17	- 1	—	—	—	—
Boulder		81.6	318	i 12 22	+ 1	—	—	—	—
Victoria		81.9	334	i 12 23	0	—	—	—	—
Seattle	z.	82.3	333	i 12 27	+ 2	—	—	—	—
Salt Lake City		84.1	323	e 12 34	0	—	—	e 13 9	?
Corvallis	z.	85.3	332	e 12 48	+ 8	—	—	—	—
Eureka		86.9	325	i 12 44	- 3	—	—	i 13 20	?
Mineral	z.	88.4	329	e 12 56	+ 1	—	—	—	—
Shasta	z.	88.4	330	e 12 55	0	—	—	—	—
Tinemaha	z.	89.9	325	e 13 2	0	—	—	—	—
Tucson		90.5	317	e 13 7	+ 2	—	—	—	—
China Lake	z.	90.7	324	e 13 5	0	—	—	—	—
Isabella	z.	91.2	324	i 13 8	0	—	—	e 16 40	PP
Woody	z.	91.3	325	e 14 16	+ 67	—	—	—	—
Riverside	z.	92.1	323	e 13 10	- 2	—	—	—	—
Palomar	z.	92.4	322	e 13 13	0	—	—	e 13 47	?
Barratt	z.	92.9	322	e 13 18	+ 2	—	—	—	—

Aug. 15d. 13h. 12m. 10s. Epicentre 45°·42N. 151°·50E.

A = -0.6190, B = +0.3360, C = +0.7099;  $\delta = +2$ ;  $h = -4$ ;  
D = +0.477, E = +0.879; G = -0.624, H = +0.339, K = -0.704.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Kurilsk		2.6	267	i 0 47	+ 4	i 1 15	- 2	—	—
Nemuro		4.7	246	e 1 13	0	e 2 6	- 4	—	—
Abashiri		5.3	257	e 1 25k	+ 2	e 2 26	+ 1	i 2 42	S*
Kusiro		5.7	247	e 1 30	+ 3	i 2 30	- 5	—	—
Yuzno-Sakhlinsk		6.3	287	e 1 39	+ 3	e 2 55	+ 5	—	—
Obihiro		6.5	250	e 1 40	+ 1	e 2 50	- 5	—	—
Asahigawa		6.7	259	e 1 48	+ 6	e 3 10	+10	—	—
Wakkanai	E.	6.9	273	e 1 50	+ 5	e 3 19	SS	—	—
Urakawa		7.1	246	e 1 50	+ 2	e 3 6	- 4	—	—
Uglegorsk		7.4	303	i 1 56	+ 4	e 3 24	+ 6	i 2 16	P*
Sapporo		7.7	256	e 1 57k	+ 2	i 3 22	- 3	i 2 15	P*
Tomakomai		7.7	251	e 2 0	+ 5	e 3 28	+ 3	—	—
Muroran		8.2	252	e 2 3	0	e 3 33	- 5	—	—
Suttsu		8.5	256	e 2 8	+ 1	e 3 53	+ 8	—	—
Mori		8.6	251	2 4	- 3	3 38	-10	i 2 33	P*
Hakodate		8.6	249	i 2 8	0	e 3 47	- 1	—	—
Hatinohe		8.8	240	e 2 9	- 1	i 3 41	-12	—	—
Petropavlovsk		9.0	29	2 21	+ 7	—	—	i 2 49	P*
Aomori		9.1	243	i 2 14a	0	e 4 5	+ 5	—	—
Miyako	N.	9.1	234	e 2 11	- 3	e 3 48	-12	e 4 26	S*
Morioka		9.5	237	e 2 19	- 1	e 3 58	-12	—	—
Mizusawa		9.9	234	2 25	- 1	4 8	-12	—	—
Akita		10.1	240	i 2 32	+ 2	e 4 23	- 2	—	—
Isinomaki		10.3	231	e 2 29	- 2	e 4 24	- 6	—	—
Sendai		10.6	232	e 2 34	- 2	e 4 27	-10	e 3 32	?
Sakata		10.8	237	e 2 58	PPP	e 4 36	- 6	—	—
Yamagata		11.0	233	e 2 40	0	e 4 53	+ 6	—	—
Hokusima		11.3	231	e 2 43	- 1	4 44	-10	—	—
Onahama		11.6	227	e 2 50	0	e 4 47	-14	—	—
Shirakawa		11.9	230	2 52	0	4 57	-12	—	—
Niigata		11.9	235	e 2 55	+ 1	4 59	-10	i 5 22	SS
Mito		12.3	226	e 2 55	- 3	e 5 6	-12	—	—
Aikawa		12.3	238	2 57	- 2	e 5 10	- 8	—	—
Klyuchi		12.4	25	3 6	+ 6	—	—	i 3 24	PPP
Utunomiya		12.5	229	e 3 0	0	e 5 13	-10	e 3 27	PPP

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Kakioka	E.	12.5	227	e 3 0	- 1	5 12	-11	—	—
Tyosi	E.	12.6	223	e 4 58	?	—	—	—	—
Takada		13.0	235	3 9	+ 1	e 5 31	- 4	—	—
Maebasi		13.0	230	3 7	- 1	e 5 26	- 9	e 3 28	PPP
Kumagaya		13.0	229	e 3 18	+ 9	e 5 30	- 5	—	—
Tokyo		13.2	227	e 3 15	+ 4	—	—	—	—
Nagano	N.	13.3	233	e 3 13	+ 1	e 5 45	+ 3	—	—
Titibu		13.3	229	e 3 11	- 1	e 5 31	-11	—	—
Oiwake		13.3	232	e 3 12	0	e 5 29	-13	—	—
Matusiro		13.4	233	3 11	- 1	5 44	- 1	e 4 21	?
Yokohama		13.4	226	e 3 12	- 1	e 5 37	- 8	—	e 6.9
Wazima		13.6	239	e 3 16	0	e 5 49	- 1	—	e 7.5
Matumoto	N.	13.7	233	e 3 20	+ 2	e 5 44	- 8	e 5 9	?
Hunatu		13.8	229	e 3 21	+ 1	5 50	- 4	i 6 21	SSS
Kohu	Z.	13.8	230	e 3 19	0	e 5 38	-16	—	—
Misima		14.0	227	e 3 20	- 1	e 5 51	- 8	—	e 6.7
Osima	E.	14.1	225	e 3 27	+ 4	—	—	—	e 7.0
Magadan		14.2	358	i 3 26	+ 2	e 6 5	+ 1	—	—
Takayama	N.	14.2	234	e 3 23	0	—	—	—	—
Vladivostok		14.2	268	i 3 27	+ 2	e 6 7	+ 3	—	—
Kanazawa		14.3	237	e 3 27	+ 1	—	—	—	—
Iida		14.3	231	e 3 26	0	—	—	—	—
Shizuoka		14.4	228	e 3 29	+ 1	e 6 0	- 9	—	—
Omaesaki		14.8	228	e 3 42	+ 9	i 6 44	SS	—	e 8.7
Hukui		14.8	236	e 3 34	+ 1	—	—	—	—
Gihu		15.0	233	e 3 35	0	6 26	+ 1	—	e 8.8
Nagoya		15.1	232	e 3 37	+ 1	6 18	- 7	—	—
Tsuruga	E.	15.2	236	e 3 42	+ 4	6 44	SS	—	—
Hikone		15.4	234	3 41	+ 1	e 7 12	SSS	—	9.1
Kameyama		15.6	233	e 3 44	+ 2	—	—	e 6 12	?
Tu		15.6	232	e 3 50	+ 7	—	—	—	—
Kyoto		15.9	235	3 48	+ 2	7 1	SS	—	—
Toyooka		16.1	238	e 3 49	0	e 6 57	+ 8	—	8.8
Osaka		16.3	234	e 4 0	+ 9	e 7 9	SS	—	—
Owase	N.	16.3	231	e 3 55	+ 3	e 7 9	SS	—	—
Kobe	E.	16.4	235	e 3 54	+ 1	e 7 2	+ 6	—	e 9.5
Sumoto		16.8	235	e 4 0	+ 1	7 17	+12	—	9.5
Siomisaki		17.0	231	e 3 59	- 1	i 7 22	+12	e 5 31	?
Matsue		17.2	241	e 4 4	+ 1	—	—	—	10.1
Tokusima		17.2	235	e 4 4	+ 1	e 7 25	+11	i 4 9	PP
Takamatu		17.3	236	e 4 4	0	e 7 26	+10	—	e 9.3
Harbin		17.4	281	e 4 6	0	—	—	—	—
Muroto		18.0	234	e 4 14	0	e 7 42	+10	—	9.8
Hamada		18.1	241	e 4 18	+ 3	e 7 46	+ 9	—	9.6
Koti		18.2	236	e 4 12	- 2	7 46	+ 9	—	e 9.5
Hirosima		18.3	239	e 4 18	+ 2	e 7 46	+ 7	e 4 36	PP
Matuyama		18.5	238	e 4 19	0	e 8 1	SS	—	e 8.9
Changchun		18.7	274	4 10	-11	e 7 27	-21	4 26	PP
Simidu		19.1	235	e 4 26	0	e 8 5	+ 8	—	e 10.5
Hukuoka		20.0	241	4 40	+ 3	8 42	SS	—	10.2
Saga		20.3	241	i 4 52	+12	8 52	SS	6 3	?
Ituhara	E.	20.3	244	e 4 40	0	—	—	e 7 44	?
Kumamoto		20.4	239	e 4 42	+ 1	e 8 55	SS	e 6 5	?
Miyazaki		20.6	236	e 4 44	+ 1	8 43	+14	—	—
Kagosima		21.4	237	e 4 58	+ 7	e 9 15	SS	—	13.3
Tomie		21.7	242	e 4 56	+ 2	—	—	—	—
Yakusima		22.2	235	e 5 2	+ 3	e 9 5	+ 5	—	—
Dairen		23.0	264	e 5 10	+ 3	—	—	—	—
Peking		26.4	271	5 38 <sub>a</sub>	0	e 10 10	- 2	5 58	sP
Kwanting		26.7	272	e 5 48	+ 6	—	—	—	—
Zò-Sè		27.6	249	5 51	+ 1	10 30	- 2	6 12	sP
Tatung		28.4	273	e 6 1	+ 3	e 10 48	+ 3	—	—
Tiksi		28.4	345	e 5 55	- 2	e 10 37	- 8	7 5	PPP
Nanking		28.6	254	e 5 58	- 1	10 42	- 6	6 20	sP
Taiyuan		29.8	269	6 13	+ 2	—	—	—	—

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Irkutsk		31.3	300	e 6 21 <sup>a</sup>	- 2	—	—	e 7 44	PPP	—
Taipei		31.6	240	e 6 47	+21	13 9	SS	—	—	—
Yinchuan		34.0	274	e 6 39	- 7	—	—	—	—	—
Sian		34.2	266	e 6 56	+ 7	—	—	—	—	—
Lanchow		36.8	272	e 7 13	+ 2	—	—	—	—	—
Changyeh		37.8	279	e 7 25	+ 6	—	—	—	—	—
College		37.9	37	i 7 20	0	i 13 7	- 6	e 9 3	PPP	e 15.8
Sining		38.0	275	e 7 22	+ 1	—	—	—	—	—
Hong Kong		38.1	245	7 25 <sup>a</sup>	+ 3	e 12 50?	-26	—	—	—
Canton		38.2	247	e 7 23	0	e 13 15	- 2	—	—	—
Baguio City		38.8	232	i 8 34	+66	i 13 24	- 2	—	—	—
Yumen		39.6	282	7 36	+ 1	—	—	—	—	—
Sitka		45.1	48	i 8 22	+ 3	i 15 1	+ 2	i 10 5	PP	e 18.2
Semipalatinsk		46.3	303	e 8 25	- 3	—	—	—	—	—
Rabaul	z.	49.4	179	e 8 40	-13	—	—	—	—	—
Shillong		51.2	268	i 9 6	0	i 16 25	0	e 16 43	PPS	—
Resolute		52.5	18	e 9 11 <sup>k</sup>	- 4	e 16 40	- 3	i 12 16	PPP	e 28.5
Frunse		53.2	297	i 9 20	- 1	16 40	-12	i 21 1	SS	—
Victoria		55.2	54	i 9 37	0	—	—	—	—	—
Seattle		56.3	54	e 9 48	+ 3	e 17 42	+ 8	e 10 40	PcP	—
Bokaro		56.6	271	i 9 50	+ 3	i 17 39	+ 1	—	—	—
Corvallis	z.	57.4	58	e 9 54	+ 2	—	—	—	—	—
Tashkent		57.4	298	i 9 48	- 3	e 17 36	-13	e 19 33	ScS	—
Dehra Dun		58.0	282	e 9 58	+ 1	i 17 53	- 4	18 13	PPS	—
Banff		58.1	48	e 9 57	0	—	—	—	—	—
Apatity		58.1	336	e 9 17	-39	e 17 26	-32	e 10 7	PcP	—
Stalinabad		59.3	295	i 10 5	0	i 18 12	- 2	—	—	—
New Delhi	N.	59.6	281	i 10 10	+ 2	i 18 12	- 5	10 53	PcP	—
Sodankyla		60.1	338	i 10 11	0	i 19 5	ScS	i 10 57	PcP	—
Shasta	z.	60.2	61	i 9 46	-25	—	—	i 19 58	ScS	—
Hungry Horse		60.5	50	e 10 14	0	e 18 30	+ 1	e 39 36	P'P'	—
Ukiah		60.6	63	e 10 17	+ 3	—	—	—	—	—
Mineral	z.	60.9	61	e 9 50	-25	—	—	—	—	—
Kiruna		61.2	341	i 10 14	- 4	e 18 26	+12	i 20 5	ScS	—
San Francisco	z.	61.9	64	e 10 26	+ 3	—	—	—	—	—
Berkeley		61.9	63	e 10 23	0	e 18 48	+ 1	—	—	e 26.2
Lick	z.	62.6	64	e 10 26	- 1	—	—	—	—	—
Butte	N.	62.7	51	e 10 29	0	e 18 55	- 2	e 23 10	SS	e 27.2
Bozeman		63.8	51	i 10 35	0	i 19 5	- 6	e 39 22	P'P'	e 31.2
Scoresby Sund		64.3	358	e 10 37	- 1	i 19 16	- 1	i 20 34	ScS	30.8
Eureka		64.8	59	i 10 38	- 4	i 13 8	PP	i 39 18	P'P'	—
Moscow		64.9	325	i 10 42	0	e 20 33	ScS	11 16	PcP	—
Tinemaha	z.	64.9	62	e 10 46	+ 2	e 19 28	+ 4	—	—	—
Djakarta	z.	65.0	230	e 10 44	0	—	—	—	—	—
Lembang	z.	65.1	229	i 10 43 <sup>k</sup>	- 1	—	—	—	—	—
Woody	z.	65.4	63	i 10 44	- 1	—	—	i 10 57	?	—
Quetta		65.6	289	i 10 47	0	—	—	—	—	—
Isabella	z.	65.7	63	e 10 49	+ 1	—	—	e 39 20	P'P'	—
Hyderabad		66.0	271	e 10 50 <sup>a</sup>	0	e 19 30	- 8	13 15	PP	27.3
Ashkabad		66.2	300	10 49	- 1	—	—	—	—	—
Salt Lake City		66.4	55	e 10 54	+ 1	e 19 48	+ 5	e 39 26	P'P'	e 27.9
Skalstugan		66.6	341	i 10 49	- 4	—	—	i 11 24	PcP	—
Pasadena		66.8	64	e 10 57	+ 1	i 19 51	+ 3	e 13 58	PP	e 30.5
Riverside		67.4	64	e 11 1	+ 2	i 19 54	- 1	e 39 18	P'P'	—
Madras		67.8	266	e 10 59	- 3	e 19 59	- 1	—	—	—
Suva	N.	67.8	152	—	—	19 50	-10	e 20 20	PS	e 31.2
Palomar	z.	68.2	64	e 11 2	- 1	—	—	e 39 21	P'P'	—
Poona		68.5	275	i 11 6	0	e 20 5	- 2	24 42	SS	—
Upsala		68.5	337	i 11 2 <sup>a</sup>	- 3	e 19 56	-12	e 20 12	PS	—
Hayfield	N.	68.7	63	e 11 8	+ 1	e 20 11	+ 1	e 39 21	P'P'	—
Barratt		68.7	65	e 11 6	- 1	i 20 12	+ 2	e 39 19	P'P'	—
Bombay		68.9	276	e 11 10	+ 1	e 20 30	+17	—	—	—
Rapid City	E.	69.0	48	i 11 10	+ 1	—	—	39 16	P'P'	—
Boulder		70.6	52	e 11 19	0	—	—	—	—	—
Reykjavik		70.7	357	11 48 <sup>k</sup>	+29	—	—	—	—	—

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	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Duluth	72.5	40	i 11	20	- 9	—	—	—	—	—	—
Brisbane	72.6	179	i 11	32	+ 1	i 20	58	+ 2	—	—	—
Tucson	72.7	62	e 11	33	+ 2	e 20	59	+ 2	—	—	—
Copenhagen	73.5	337	e 11	37	+ 1	e 21	2	- 4	e 21	20	PS
Simferopol	74.3	319	e 11	38	- 2	21	12	- 3	e 21	46	PS
Lwow	74.7	328	i 11	42	0	e 16	15	PPP	i 12	0	PcP
Aberdeen	75.4	345	i 11	40	- 6	i 21	15	- 12	e 28	50	SSS
Iasi	75.5	324	e 11	48	+ 1	—	—	—	e 12	8	PcP
Hamburg	76.1	337	i 11	52 <sub>a</sub>	+ 1	e 21	34	- 1	—	—	—
Bacau	76.2	324	11	53	+ 1	—	—	—	—	—	37.3
Kirkland Lake	z. 76.5	33	e 11	59	+ 6	—	—	—	—	—	—
Raciborz	76.6	331	e 11	54	0	e 22	2	[ 0]	22	5	ScS
Skalnate Pleso	76.6	329	11	55	+ 1	21	32	- 8	i 12	10	PcP
Focsani	76.8	323	12	0	+ 5	—	—	—	—	—	e 39.8
Witteveen	77.6	339	12	2	+ 3	—	—	—	—	—	e 37.3
Durham	77.6	344	12	1	+ 1	i 21	45	- 6	22	0	SKS
Prague	77.8	333	i 12	1 <sub>a</sub>	0	—	—	—	e 14	30	PP
Jena	78.0	335	e 12	0	0	e 21	30	- 25	15	15	PP
Bucharest	78.3	323	e 12	6	+ 3	21	53	- 6	e 22	9	SKS
Cheb	78.5	334	12	6	+ 2	e 21	57	- 4	e 15	10	PP
Hurbanovo	78.5	330	i 12	8	+ 4	i 22	0	- 1	e 23	9	PPS
Budapest	78.5	329	12	5	+ 1	21	51	- 10	22	20	ScS
Bratislava	78.6	331	i 12	2	- 2	e 21	55	- 7	i 15	2	PP
De Bilt	78.6	340	i 12	7 <sub>k</sub>	+ 2	e 21	59	- 3	—	—	35.8
Riverview	78.9	180	i 12	10	+ 4	i 22	7	+ 2	i 22	34	ScS
Szeged	79.2	328	e 12	9	+ 1	—	—	—	—	—	e 39.1
Timisoara	E. 79.2	327	i 12	13	+ 5	e 22	9	+ 1	—	—	—
Kalossa	79.3	329	e 12	57	+ 48	—	—	—	e 15	18	PP
Florissant	79.4	44	e 12	12	+ 3	e 22	11	+ 1	22	32	ScS
St. Louis	79.6	44	e 12	9	0	i 22	5	- 7	e 27	26	SS
Rathfarnham Castle	79.8	347	i 12	12 <sub>a</sub>	0	i 17	21	PPP	28	0	SS
Belgrade	80.2	327	e 12	14 <sub>a</sub>	0	e 22	17	- 2	e 13	24	?
Ottawa	80.4	32	e 12	12 <sub>a</sub>	- 2	—	—	—	—	—	e 35.8
Shawinigan Falls	80.5	29	e 12	15 <sub>a</sub>	0	—	—	—	—	—	e 45.4
Kew	80.5	343	e 12	15 <sub>a</sub>	0	e 22	34	+ 12	e 22	15	SKS
Stuttgart	80.6	336	12	13	- 2	e 22	17	- 6	e 31	20	SSS
Karlsruhe	z. 80.6	336	e 12	15 <sub>k</sub>	0	—	—	—	e 12	26	PP
Seven Falls	80.6	28	—	—	—	e 22	17	- 6	27	47	SS
Sofia	80.9	324	i 12	18	+ 1	i 22	24	- 2	15	33	PP
Brébeuf	81.1	30	i 12	17 <sub>a</sub>	0	—	—	—	—	—	45.3
Strasbourg	81.1	337	i 12	24	+ 5	e 22	24	- 5	e 15	24	PP
Ebingen	81.2	336	e 12	17	- 1	—	—	—	—	—	e 37.8
Cleveland	81.4	37	i 12	22	+ 2	i 22	25	- 6	—	—	—
Triest	81.9	332	i 12	23	0	i 22	30	- 6	i 22	45	ScS
Ksara	82.0	311	i 12	21	- 1	e 22	36	- 1	—	—	41.6
Basle	82.2	336	e 12	23	0	e 22	48	+ 9	—	—	49.3
Paris	82.3	340	i 12	21	- 3	e 22	37	- 3	i 12	33	pP
Neuchatel	82.8	336	e 12	27	0	e 22	44	- 1	—	—	e 37.8
Besançon	82.9	337	i 12	26	- 1	—	—	—	14	18	?
Melbourne	83.1	185	e 12	29	0	e 22	53	+ 5	e 16	34	?
Bologna	83.7	332	e 12	50 <sub>?</sub>	+ 18	e 22	30	- 25	—	—	—
Pavia	83.8	334	e 12	44 <sub>k</sub>	+ 12	e 33	32	SSS	e 28	4	SS
Jerusalem	83.9	310	12	34 <sub>a</sub>	+ 1	—	—	—	—	—	e 42.7
Florence	84.4	332	i 12	34	0	i 23	11	+ 10	i 28	58	SS
Weston	84.6	30	i 12	10	- 25	—	—	—	—	—	e 32.8
Athens	84.6	321	e 12	33 <sub>a</sub>	- 2	e 22	59	- 4	—	—	e 40.8
Palisades	84.8	33	e 12	38	0	i 23	0	- 5	e 23	55	PS
Clermont-Ferrand	85.0	338	i 12	40	+ 2	e 23	8	+ 1	e 23	30	ScS
Taranto	85.2	327	12	37	- 1	23	35	+ 26	—	—	45.1
Monaco	85.7	335	e 12	41 <sub>k</sub>	0	—	—	—	13	39	?
Rome	85.7	331	e 12	40	- 1	e 23	11	- 3	e 28	31	SS
Chapel Hill	87.0	39	i 12	51	+ 3	—	—	—	—	—	e 39.8
Columbia	87.7	41	i 12	54	+ 2	—	—	—	—	—	—
Messina	87.8	327	e 12	49	- 2	e 23	26	[ + 7]	e 33	26	SSS
Reggio Calabria	87.8	327	e 12	46	- 5	—	—	—	—	—	—

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	$\Delta$ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.
Wellington	88.8	163	—		—	33 20	SSS	—	—		—
Tacubaya	89.2	63	e 13 44		+46	e 23 10	[- 8]	e 29 5	SS		35.7
Toledo	92.3	341	13 12		0	—	—	—	—		49.2
Alicante	92.9	338	13 12		- 3	e 24 10	-10	30 24	SS	e	43.9
Algiers Univ.	93.4	335	e 13 17		0	e 23 50	[- 2]	e 17 2	PP		—
Granada	94.8	340	17 7		PP	24 45	+ 9	19 43	PPP		49.0
Malaga	95.4	341	i 13 27 <sub>a</sub>		0	e 24 52	+10	17 18	PP		49.7
Tamanrasset	105.4	328	e 14 12		0	e 24 53	[+ 1]	e 18 28	PP		—
Tananarive	112.9	266	e 19 32		PP	—	—	—	—		—
Uvira	114.8	292	e 19 44 <sub>k</sub>		[+62]	—	—	—	—		—
Mirny	120.2	203	e 20 20		PP	—	—	—	—		—
Pretoria	131.0	274	e 19 16		[+ 2]	—	—	—	—		—
La Paz	z. 136.1	62	—		—	36 14	SKKS	—	—		—

Aug. 16d. 0h. 38m. 34s. Epicentre 36°·24N. 21°·85E.

A = +0.7503, B = +0.3009, C = +0.5886;  $\delta = -6$ ;  $h = 0$ ;  
D = +0.372, E = -0.928; G = +0.546, H = +0.219, K = -0.808.

	$\Delta$ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.
Athens	2.3	40	e 0 42 <sub>k</sub>		0*	i 1 17	+ 1 <sub>g</sub>	i 0 46	P <sub>g</sub>		—
Reggio Calabria	5.3	292	e 1 22		0	i 2 26	+ 1	i 2 14	?		—
Messina	5.4	293	i 1 22 <sub>k</sub>		- 1	i 2 18	-10	i 1 42	P <sub>g</sub>		—
Taranto	5.6	321	i 1 26		- 1	—	—	—	—		—
Sofia	6.5	10	i 1 41		+ 1	i 3 5	+10	—	—		—
Belgrade	8.6	353	e 2 18 <sub>a</sub>		+ 8	e 4 31	-13 <sub>g</sub>	2 53	P <sub>g</sub>		i 5.0
Bucharest	8.8	20	2 14		+ 2	3 56	+ 3	4 19	S*		—
Rome	9.2	311	e 2 15 <sub>a</sub>		- 2	e 4 23	+20	i 4 53	S <sub>g</sub>		5.5
Timisoara	E. 9.5	357	e 3 26?		+16 <sub>g</sub>	—	—	—	—		5.6
Szeged	10.1	353	3 45		?	4 20	- 5	—	—		e 5.3
Florence	11.1	316	e 2 41		- 1	e 4 56	+ 7	e 3 10	P*		—
Triest	11.2	329	e 2 40		- 4	e 4 35	-17	e 3 18	P*		i 6.1
Prato	11.2	316	e 2 45		0	e 4 38	-14	—	—		—
Budapest	11.4	350	3 46		?	—	—	—	—		7.2
Bologna	11.5	319	2 53		+ 5	4 48	-11	—	—		6.4
Safed	11.7	102	i 2 52		0	i 4 52	-12	—	—		—
Ksara	11.7	98	e 2 51		0	e 5 6	0	—	—		7.4
Hurbanovo	11.9	348	—		—	e 5 6	- 3	e 6 43	Q		7.2
Jerusalem	11.9	108	i 2 51		- 3	i 4 50	-19	—	—		—
Bratislava	12.4	345	i 2 59		- 1	i 5 12	- 9	3 58	P <sub>g</sub>		7.4
Skalnate Pleso	13.0	355	e 4 3		P <sub>g</sub>	—	—	—	—		e 6.6
Pavia	13.1	317	3 12		+ 2	—	—	—	—		e 6.3
Raciborz	14.1	350	e 3 26		+ 3	—	—	—	—		—
Prague	14.8	341	e 3 31		- 1	e 6 14	- 4	e 6 36	SS		—
Algiers Univ.	15.1	278	e 3 29		- 7	e 6 6	-19	e 6 24	SS		—
Ebingen	15.2	325	e 3 38		0	—	—	—	—		—
Cheb	15.4	336	e 3 44		+ 3	i 6 42	+10	e 4 9	PPP		—
Neuchatel	15.5	319	e 3 42		+ 1	e 6 26	- 9	—	—		—
Basle	15.5	321	3 43		+ 1	—	—	e 7 23	SSS		—
Stuttgart	15.6	327	e 3 39		- 3	e 6 36	- 1	e 7 16	SSS		—
Warsaw	16.0	358	e 3 49		+ 1	e 6 45	- 1	e 4 16	PPP		e 8.0
Strasbourg	16.1	324	e 3 56		+ 6	e 6 48	- 1	e 9 22	PcP		9.6
Karlsruhe	16.1	326	e 3 48 <sub>k</sub>		- 1	e 4 0	PP	—	—		e 7.8
Besançon	16.1	318	e 3 38		-11	—	—	5 19	?		—
Jena	16.4	336	e 3 50		- 3	e 7 1	+ 5	e 4 4	PP		e 7.8
Clermont-Ferrand	17.0	310	e 4 0		0	—	—	—	—		—
Alicante	17.9	283	4 22		+10	7 51	SS	4 50	PPP		e 9.3
Paris	18.9	317	i 4 22		- 2	e 7 59	+ 6	e 4 35	PP		e 9.9
Hamburg	19.2	338	i 4 28		0	e 8 3	+ 4	—	—		e 10.7
Tamanrasset	19.5	231	e 4 32		0	e 8 16	+10	e 5 1	PPP		10.3

Continued on next page.



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	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Almeria	19.5	279	i 4 29	- 2	e 8 16	+10	e 5 18	PPP	12.6
Granada	20.4	280	i 4 47 <sub>a</sub>	+ 5	i 8 29	+ 4	5 5	PP	13.4
Copenhagen	20.5	345	e 5 2	PP	e 8 34	+ 7	—	—	11.1
Toledo	20.7	288	e 4 45	0	—	—	—	—	—
Malaga	21.1	279	i 4 48 <sub>k</sub>	0	i 8 34	+ 5	i 5 24	PPP	10.8
Kew	21.9	321	e 5 13	+16	e 8 55	- 1	—	—	e 11.9
Moscow	22.3	24	5 9	+ 8	—	—	—	—	—
Upsala	23.8	355	i 5 15	0	e 9 28	0	i 5 22	PP	—
Durham	24.6	326	e 5 22	0	9 38	- 4	—	—	—
Rathfarnham C.	26.0	320	i 5 48 <sub>a</sub>	+11	e 9 48	-19	i 6 22	PP	—
Aberdeen	26.4	330	—	—	10 26?	+15	—	—	14.7
Skalstugan	28.0	351	i 5 53	- 1	—	—	i 6 1	?	—
Sodankyla	31.3	4	i 6 24	0	—	—	—	—	—
Kiruna	31.6	359	e 6 28	+ 1	e 11 39	+ 4	e 11 20	?	—
Apatity	32.0	8	—	—	e 13 57	SSS	—	—	e 16.7
Quetta	37.9	86	e 7 21	0	—	—	—	—	—
Scoresby Sund	41.4	339	e 7 52	+ 2	e 14 14	+ 9	—	—	20.4
Shawinigan Falls	67.6	312	i 11 4 <sub>k</sub>	+ 3	—	—	—	—	—
Ottawa	70.0	312	e 11 18	+ 2	—	—	—	—	—
Hungry Horse	87.1	332	i 12 51	+ 2	—	—	i 13 28	?	—
Eureka	95.2	328	e 13 35	+ 8	—	—	—	—	—

Aug. 16d. 2h. 9m. 35s. Epicentre 36°·56N. 8°·58W.

A = +0.7961, B = -0.1201, C = +0.5931;  $\delta = -3$ ; h = 0;  
D = -0.149, E = -0.989; G = +0.586, H = -0.088, K = -0.805.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Lisbon	2.2	348	0 38 <sub>k</sub>	0	1 0	- 6	—	—
Malaga	3.4	86	i 0 57	+ 2	i 1 31	- 6	1 6	P <sub>g</sub>
Granada	4.0	80	1 7 <sub>k</sub>	+ 3	1 52	0	i 1 16	P <sub>g</sub>
Almeria	4.9	85	i 1 19	+ 2	i 2 15	0	i 2 31	S*
Toledo	5.0	45	1 15 <sub>a</sub>	- 3	i 2 5	-13	2 29	S*
Alicante	6.7	72	1 35	- 6	2 51	- 9	2 5	P*
Algiers Univ.	9.3	85	e 2 18	0	e 4 0	- 5	e 2 27	PP
Clermont-Ferrand	12.7	40	i 3 2	- 2	i 5 36	+ 8	—	—
Monaco	14.2	55	—	—	i 6 12	+ 8	e 6 27	SSS
Paris	14.7	30	i 3 28	- 2	6 8	- 8	e 3 38	PP
Besançon	15.2	41	—	—	e 6 8	-20	—	—
Neuchatel	15.6	43	e 3 41	0	e 6 21	-16	—	—
Pavia	15.9	52	e 5 4	?	e 7 32	SSS	—	—
Kew	16.0	19	e 3 58	+10	e 6 55	+ 9	—	—
Basle	16.2	42	e 3 55	+ 4	e 7 26	SSS	e 4 7	PP
Florence	16.8	58	e 4 1	+ 3	e 7 19	+14	e 4 16	PP
Rathfarnham C.	16.8	5	i 3 55 <sub>k</sub>	- 2	i 7 6	+ 1	i 4 6	PP
Strasbourg	17.0	40	e 4 0	0	—	—	e 8 53	P <sub>cP</sub>
Rome	17.1	65	e 4 13	+11	e 7 16	+ 3	e 7 39	SS
Ebingen	17.4	43	4 4	0	—	—	—	—
Karlsruhe	17.6	40	e 4 6 <sub>k</sub>	- 1	—	—	e 4 16	PP
Stuttgart	17.8	41	e 4 9	- 1	e 7 35	+ 7	e 7 47	SS
Tamanrasset	18.4	134	e 4 19	+ 1	e 7 57	SS	e 4 35	PP
Triest	19.1	55	e 4 20	- 5	e 8 0	+ 3	—	—
Messina	19.2	78	e 4 26	- 1	e 7 51	- 8	—	—
Witteveen	19.5	29	e 4 30	0	—	—	—	—
Cheb	20.3	42	—	—	e 8 30	+ 7	—	—
Jena	20.4	39	e 4 40	0	—	—	—	—
Aberdeen	21.1	10	—	—	i 8 42	+ 3	—	—
Hamburg	21.4	31	i 4 50	0	—	—	i 5 1	PP
Prague	21.4	44	e 4 50	0	—	—	—	—
Bratislava	22.1	50	4 58	0	e 8 43	-15	i 5 19	PP
M'Bour	23.3	201	e 5 8	- 1	—	—	—	—
Upsala	28.8	28	i 6 6	+ 5	—	—	—	—
Skalstugan	29.9	19	e 6 18	+ 7	—	—	—	—

Continued on next page.

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Kiruna	35.3	19	i 7	5	+ 6	e 14	36	SS	—	—	—
Safed	36.1	82	i 7	8	+ 2	—	—	—	—	—	—
Sodankyla	36.7	22	i 7	14	+ 3	—	—	—	—	—	—
Shawinigan Falls	47.8	303	e 8	39	- 1	—	—	—	—	—	—
Brébeuf	48.7	302	i 8	46 <sub>a</sub>	- 1	—	—	—	—	—	—
Ottawa	50.1	302	i 8	57 <sub>k</sub>	- 1	—	—	—	—	—	—
Rapid City	E. 68.6	309	e 11	5	- 1	—	—	—	—	—	—
Hungry Horse	72.6	318	e 11	28	- 2	—	—	—	—	—	—
Eureka	79.1	311	i 12	7	0	—	—	—	i 15	5	PP
Huancayo	Z. 79.2	246	e 12	11	+ 3	—	—	—	—	—	—
Tucson	80.2	303	e 12	14	0	—	—	—	—	—	—
China Lake	Z. 82.4	309	e 12	26	+ 1	—	—	—	—	—	—
Isabella	Z. 83.1	309	i 12	29	0	—	—	—	—	—	—
Woody	Z. 83.3	310	e 12	30	0	—	—	—	—	—	—
Barratt	Z. 83.8	306	i 12	33	+ 1	—	—	—	e 12	43	PcP

Aug. 17d. 1h. 23m. 8s. Epicentre 54°·18N. 35°·16W.

A = +0.4805, B = -0.3385, C = +0.8090;  $\delta = -6$ ;  $h = -7$ ;  
D = -0.576, E = -0.818; G = +0.661, H = -0.466, K = -0.588.

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Angra do Heroismo	16.4	158	—	—	—	e 7	14	SS	—	—	9.0
Rathfarnham C. Z.	17.1	80	e 4	13	+11	i 7	27	SS	—	—	—
Scoresby Sund	17.4	15	i 4	9	+ 3	e 7	42	SS	e 5	10	PP
Aberdeen	18.8	67	i 5	7	+44	i 8	3	+13	—	—	e 9.9
Durham	E. 19.4	75	3	14	-76	8	26	SS	—	—	—
Halifax	20.7	254	e 4	13	-31	e 8	41	+10	4	43	PP
Kew	21.1	83	e 4	53	+ 4	e 8	54	+15	e 9	10	SS
Seven Falls	23.5	267	e 5	13	0	e 9	30	+ 7	—	—	e 12.0
Paris	23.8	87	e 5	16	0	e 5	48	PP	12	33	PcS
De Bilt	24.1	78	—	—	—	e 9	52?	+18	—	—	—
Shawinigan Falls	24.9	268	e 5	25	-10	—	—	—	—	—	—
Toledo	25.3	112	e 5	29	0	e 10	38	SS	—	—	—
Skalstugan	25.7	50	e 5	27	- 5	—	—	—	i 8	36	?
Clermont-Ferrand	25.7	93	e 5	34	0	—	—	—	e 8	40	?
Hamburg	26.3	72	e 5	36	- 3	—	—	—	—	—	e 13.9
Copenhagen	27.0	67	i 5	50	+ 4	e 10	32	+10	—	—	13.4
Strasbourg	27.0	84	e 5	52	+ 6	e 10	38	+16	—	—	e 12.9
Ottawa	27.3	268	e 5	50	+ 2	e 10	32	+ 5	7	0	PPP
Malaga	27.4	117	i 5	54 <sub>k</sub>	+ 4	i 10	1	-27	9	21	PcP
Granada	27.5	115	i 5	53 <sub>k</sub>	+ 3	10	44	+14	11	44	SS
Stuttgart	27.8	83	e 5	55	+ 2	e 10	46	+11	e 9	10	PcP
Ebingen	27.9	84	e 5	55	+ 1	—	—	—	—	—	e 13.9
Jena	28.2	77	e 5	56	0	—	—	—	e 8	58	PcP
Alicante	28.4	110	e 5	56	- 1	10	31	-14	6	44	PP
Upsala	28.6	57	i 5	59	0	e 11	11	+23	—	—	e 13.7
Palisades	28.9	259	e 6	53	PP	e 10	33	-20	e 12	35	Q
Kiruna	29.0	40	i 6	4	0	e 11	0	+ 6	i 9	10	PcP
Pavia	29.6	89	e 6	27	+18	e 12	6	+62	e 7	54	?
Philadelphia	30.3	258	—	—	—	e 11	18	+ 3	—	—	e 15.9
Resolute	30.8	333	—	—	—	e 11	14	- 9	12	57	SS
Sodankyla	31.4	41	e 6	22	- 2	—	—	—	—	—	—
Algiers Univ.	31.5	108	e 6	21	- 4	11	28	- 6	e 7	22	PP
Florence	31.6	90	e 6	24	- 2	e 12	5	+30	e 7	32	PP
Triest	32.0	85	e 6	22	- 8	i 11	46	+ 4	e 9	32	PcP
Bratislava	32.7	79	i 6	8	-27	—	—	—	i 9	20	PcP
Warsaw	32.9	70	e 6	40	+ 1	—	—	—	—	—	e 17.9
Rome	33.5	92	e 6	46	+ 3	e 12	8	+ 3	e 7	39	PP
Messina	37.7	94	e 7	17	- 1	e 13	9	- 1	e 8	45	PP
Bucharest	39.9	78	7	37	0	—	—	—	—	—	18.4
Tamanrasset	43.7	119	e 8	7	- 1	e 14	44	+ 5	e 9	56	PP

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Hungry Horse		47.3	297	i 8 8	-28	e 11 9	PP	e 9 56	PcP	—
Boulder		47.8	283	e 8 12	-29	e 11 44	PPP	—	—	—
Butte	N.	48.0	294	e 8 44	+ 1	—	—	—	—	e 25.5
Ksara		52.6	82	e 9 23	+ 5	16 55	+11	—	—	—
Eureka		54.2	290	i 9 29	0	—	—	i 12 31	PPP	—
Reno	Z.	56.3	292	e 9 44	- 1	—	—	—	—	—
Tucson		56.4	280	e 9 46	0	—	—	e 12 49	PPP	—
Mineral	Z.	56.7	294	e 9 48	0	—	—	—	—	—
Tinemaha	Z.	57.2	289	e 9 50	0	—	—	—	—	—
China Lake	Z.	57.7	288	e 9 55	0	—	—	e 12 56	PPP	—
Isabella	Z.	58.3	288	e 9 59	0	—	—	e 13 2	PPP	—
Woody	Z.	58.5	288	e 9 58	- 2	—	—	10 26	PcP	—
Lick	Z.	58.8	292	i 13 10	PPP	—	—	—	—	—
Riverside	Z.	58.9	286	e 10 6	+ 2	—	—	e 13 5	PP	—
Dalton	Z.	59.0	286	e 10 3	0	—	—	e 13 10	PP	—
Palomar	Z.	59.1	285	e 10 5	0	—	—	i 13 7	PP	—
Barrett	Z.	59.5	284	e 10 6	0	—	—	e 13 9	PP	—

Aug. 19d. 5h. 17m. 35s. Epicentre 23°·77S. 177°·97W. Depth of focus = 0·006R.

A = -0·9156, B = -0·0325, C = -0·4008;  $\delta$  = +2; h = +4;  
D = -0·036, E = +0·999; G = +0·401, H = +0·014, K = -0·916.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Suva	N.	6.5	328	1 55	+20	3 7	SS	i 2 4	?	3.4
Apia		11.5	32	e 2 37	- 5	e 4 43	- 7	—	—	e 5.4
Onerahi	E.	13.7	207	2 57	-14	—	—	e 3 20	PP	e 6.0
Nouméa		14.4	273	e 3 25	+ 3	i 6 0	+ 1	—	—	i 6.7
Auckland	N.	14.5	204	e 2 55	-26	5 56	- 6	—	—	6.8
Tuai	N.	15.5	194	e 3 37	+ 1	—	—	—	—	—
New Plymouth	E.	16.7	202	e 3 42	- 7	—	—	—	—	7.3
Wellington	N.	18.5	198	e 4 11	- 2	e 8 7	+33	—	—	e 8.9
Cobb River	E.	18.9	204	e 4 15	- 3	—	—	—	—	e 8.7
Kaimata	N.E.	20.7	203	e 4 23	+ 7	—	—	—	—	—
Brisbane		26.4	256	i 5 32	+ 1	i 10 6	+ 8	—	—	—
Riverview		28.8	243	i 5 53 <sub>a</sub>	0	i 10 30	- 7	i 6 22	pP	e 13.5
Melbourne		34.5	237	e 5 29	-73	—	—	e 11 25	?	e 15.0
Matusiro		72.9	324	—	—	e 19 34	-69	—	—	e 30.5
Lembang	Z.	73.0	270	i 11 15 <sub>a</sub>	- 8	—	—	—	—	—
King Ranch	Z.	80.6	45	e 11 58	- 7	—	—	e 12 21	pP	—
Berkeley	Z.	80.6	41	e 12 6	0	—	—	—	—	—
Lick	Z.	80.6	42	e 12 6 <sub>a</sub>	0	—	—	—	—	—
Ukiah		80.8	40	e 12 10	+ 2	—	—	—	—	—
Pasadena		80.9	46	i 12 6	- 1	e 22 19	+ 8	i 12 45	sP	e 35.1
Barrett	Z.	81.0	48	e 12 6	- 1	e 12 47	sP	e 12 29	pP	—
Palomar	Z.	81.3	48	i 12 9	0	—	—	e 12 35	pP	—
Riverside	Z.	81.3	47	e 12 7	- 2	—	—	e 12 36	pP	—
Isabella	Z.	81.6	45	e 12 7	- 3	e 15 48	PP	i 12 34	pP	—
Shasta	Z.	82.3	39	i 12 18	+ 3	—	—	—	—	—
Hayfield	N.	82.3	48	e 12 16	+ 1	—	—	e 12 40	pP	—
Mineral	Z.	82.6	40	e 12 16	0	—	—	—	—	—
Tinemaha	Z.	82.6	44	e 12 19	+ 3	—	—	e 12 52	pP	—
Reno	Z.	83.1	41	e 12 23	+ 4	—	—	—	—	—
Corvallis	Z.	84.4	36	e 12 29	+ 4	—	—	—	—	—
Tucson		84.9	52	i 12 27	0	—	—	e 13 27	?	—
Eureka		85.5	43	i 12 29	- 1	—	—	i 16 1	PP	—
Seattle	Z.	86.9	34	e 12 42	+ 4	—	—	—	—	—
Tacubaya		87.9	68	e 16 16	PP	e 22 46	[-17]	e 13 6	pP	—
Sitka		88.1	22	e 12 48	+ 4	—	—	—	—	—
Salt Lake City		88.8	44	e 12 45	- 2	—	—	—	—	—
Butte	N.	91.2	39	e 12 58	0	—	—	e 16 36	PP	—
College		91.4	12	i 12 55	- 3	e 23 13	[-12]	—	—	e 41.6
Hungry Horse		91.7	37	e 13 3	+ 2	—	—	—	—	—
Bozeman		91.9	40	e 13 0	- 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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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Boulder		92.7	47	e 13 4	- 2	—	—	—	—
Rapid City	E.	96.0	44	e 13 23	+ 3	—	—	e 17 26	PP
Huancayo	Z.	96.5	106	e 13 22	0	—	—	—	—
Resolute		110.9	16	—	—	28 44	PS	—	e 56.3
Palisades		115.5	54	—	—	35 40	SS	—	e 56.8
Quetta		122.5	292	e 18 47	[ 0]	—	—	—	—
Kimberley		123.4	204	e 18 43	[- 6]	—	—	—	—
Kiruna		134.5	350	e 19 0	[- 9]	—	—	—	—
Upsala		142.3	347	i 19 17	[- 6]	—	—	—	—
Astrida		142.4	230	e 19 21	[- 2]	—	—	—	—
Lwiro		143.3	231	e 19 21	[- 6]	—	—	—	—
Ksara		148.8	295	e 19 43	[+ 7]	—	—	e 20 10	PKP <sub>2</sub>
Iasi		149.0	325	19 47	[+12]	—	—	20 45	?
Safed		149.3	295	i 19 38	[+ 2]	—	—	i 20 7	pPKP
Hamburg		149.6	351	i 19 29	[- 6]	—	—	e 19 43	PKP <sub>2</sub>
Rathfarnham C.	Z.	149.8	10	i 19 50k	PKP <sub>2</sub>	—	—	e 21 31	?
Raciborz	Z.	150.9	338	e 19 49	PKP <sub>2</sub>	—	—	—	—
Jena		151.9	347	e 19 41	[+ 1]	e 19 56	pP'	20 8	PKP <sub>2</sub>
Prague		152.0	343	e 10 38	[- 1]	—	—	20 0	pP'
Bratislava		152.9	338	i 19 46	[+ 5]	—	—	i 20 49	?
Stuttgart		154.4	349	e 19 42	[ 0]	—	—	—	—
Paris		155.0	359	e 20 57	pPKP	—	—	—	—
Alicante		165.3	8	19 46	[- 9]	26 28	[-23]	20 40	pPKP <sub>2</sub>
Granada		165.8	19	i 20 59 <sub>a</sub>	PKP <sub>2</sub>	35 38	SKKS	21 23	pP' <sub>2</sub>
Malaga		165.9	22	i 20 57 <sub>a</sub>	PKP <sub>2</sub>	27 47	[- 5]	i 25 5	PP
Algiers Univ.		167.0	356	e 19 57	[ 0]	—	—	e 24 57	PP
Tamanrasset		176.6	254	e 20 2	[+ 1]	e 32 8	SKKS	e 20 36	pP'

Aug. 20d. 5h. 33m. 49s. Epicentre 7°-17N. 79°-85W.

A = +0.1748, B = -0.9768, C = +0.1240;  $\delta$  = +7; h = +7;  
D = -0.984, E = -0.176; G = +0.022, H = -0.122, K = -0.992.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Balboa Heights		1.8	9	i 0 28	- 1	i 0 51	- 5	—	—
Chinchina		4.7	117	i 1 7	- 4	i 2 9	- 1	—	—
Galerazamba		5.8	51	i 1 30	+ 4	i 2 29	- 9	—	—
Bogota		6.3	113	i 1 32	- 1	i 2 45	- 5	—	—
Merida		16.6	326	i 3 54k	+ 1	e 7 30	SSS	—	e 8.1
San Juan		17.4	49	e 3 59	- 3	i 7 21	+ 2	—	8.3
Trinidad		18.4	78	e 4 8	-10	—	—	—	—
St. Vincent		19.2	71	i 4 24	- 4	—	—	—	—
Huancayo		19.6	167	e 4 31	+ 1	e 8 15	+ 7	—	—
Dominica		19.8	64	e 4 31	- 4	—	—	—	—
Fort de France		19.8	66	i 4 29	- 2	i 8 15	+ 2	—	—
Vera Cruz		19.8	309	e 4 41	+ 9	—	—	6 32	?
Barbados		20.8	72	e 4 41	- 4	—	—	—	—
Tacubaya		22.4	305	i 5 1	+ 3	e 8 51	-11	e 9 34	SS
La Paz		26.2	154	i 5 37	+ 2	i 10 11	+ 2	i 6 34	PP
Columbia		26.7	358	e 5 40	0	i 10 19	+ 2	e 6 28	PP
Chapel Hill		28.6	1	i 5 58	+ 1	—	—	—	e 11.5
Washington		31.7	4	e 6 25	+ 1	(e 13 27)	SS	—	e 13.4
Terre Haute		32.9	351	—	—	e 12 6	+10	—	—
Palisades		34.1	8	i 6 47	+ 2	i 12 15	+ 1	e 7 45	PP
Tucson		38.1	315	i 7 19	0	—	—	—	e 19.5
Ottawa		38.2	5	e 7 20k	0	13 17	0	9 34	PcP
Brébeuf		38.6	7	i 7 23k	- 3	—	—	—	—
Shawinigan Falls		39.7	8	e 7 31	0	—	—	—	—
Halifax		39.9	18	—	—	i 13 40	- 3	—	—
Seven Falls		40.5	9	—	—	e 13 52	0	—	18.2
Kirkland Lake	Z.	40.8	60	e 7 42	+ 1	—	—	—	—
Hayfield	N.	42.3	314	e 7 53	0	9 41	PcP	e 8 27	?
Barrett	Z.	42.6	312	e 7 56	0	—	—	e 8 51	?
Palomar	Z.	43.0	312	i 8 1	+ 2	—	—	i 9 28	?

Continued on next page.

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1956

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		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Riverside	z.	43.7	313	i 8	5	0	—	—	—	i 8	34	?
Salt Lake City		44.0	325	e 9	6	+59	—	—	—	—	—	—
Pasadena		44.4	313	i 8	10 <sub>a</sub>	0	i 14	52	+ 3	i 8	34	?
Isabella	z.	45.3	314	i 8	18	0	—	—	—	e 9	55	PcP
Woody	z.	45.6	314	i 8	20	0	—	—	—	i 10	0	PcP
Eureka		45.7	320	i 8	21	0	—	—	—	i 8	42	?
Tinemaha		45.8	316	e 8	22	0	i 15	11	+ 2	—	—	—
La Plata		46.7	155	i 8	32	0	15	23	+ 1	18	29	ScS
Bozeman		46.9	330	i 8	30	0	—	—	—	i 9	21	PcP
Butte	N.	47.9	329	e 8	37	0	—	—	—	—	—	—
Reno	z.	48.2	318	e 8	42	+ 2	—	—	—	—	—	—
Lick	z.	48.3	315	e 8	43	+ 1	—	—	—	—	—	—
Berkeley		49.0	315	e 8	44	- 2	e 16	6	+11	—	—	—
Mineral	z.	49.8	318	e 8	54	+ 1	—	—	—	—	—	—
Hungry Horse		50.2	331	i 8	55	0	e 16	11	0	—	—	—
Shasta	z.	50.5	318	e 8	57	0	—	—	—	—	—	—
Banff		52.9	333	e 9	15	0	—	—	—	—	—	—
Corvallis	z.	53.0	322	e 9	16	0	—	—	—	—	—	—
Seattle		54.1	326	e 9	26	+ 1	i 12	18	PP	10	36	PcP
Victoria		55.2	326	i 9	33 <sub>a</sub>	0	—	—	—	—	—	—
Horseshoe Bay		55.6	327	9	35 <sub>a</sub>	0	—	—	—	—	—	—
M' Bour		62.0	78	i 10	18	- 2	12	20	PP	e 10	41	pP
Resolute		68.0	356	e 10	58 <sub>k</sub>	- 1	e 19	56	- 6	—	—	e 22.3
Reykjavik		70.0	23	i 11	13 <sub>k</sub>	+ 1	—	—	—	—	—	—
Scoresby Sund		72.9	17	e 11	28	0	e 20	52	- 7	—	—	32.2
Malaga		74.1	54	i 11	35 <sub>a</sub>	0	i 20	45	-27	14	17	PP
College		74.3	336	i 11	38	+ 1	e 21	14	- 1	i 11	56	PcP
Rathfarnham C.	z.	74.5	37	i 11	40 <sub>a</sub>	+ 2	—	—	—	i 11	53	PcP
Toledo		74.5	51	i 11	43 <sub>k</sub>	+ 4	e 21	21	+ 4	i 12	7	PcP
Granada		74.7	53	i 11	45 <sub>a</sub>	+ 5	21	21	+ 2	11	48	PcP
Alicante		77.3	52	11	57	+ 3	21	48	0	26	54	SS
Kew		77.9	39	i 11	58	0	e 21	49	- 5	e 22	12	ScS
Paris		79.6	42	e 12	9	+ 2	e 22	7	- 5	e 12	17	PcP
Clermont-Ferrand		80.0	45	e 12	11	+ 2	e 22	18	+ 1	e 15	14	PP
Algiers Univ.		80.1	54	e 12	11	+ 2	e 22	12	- 6	e 15	12	PP
Besançon		82.0	43	i 12	22	+ 3	—	—	—	e 13	25	?
Neuchatel		82.6	44	e 12	24	+ 1	—	—	—	—	—	—
Tamanrasset		83.0	68	e 12	26	+ 1	—	—	—	e 15	39	PP
Basle		83.0	43	e 12	25	0	—	—	—	—	—	—
Strasbourg		83.1	42	e 12	29	+ 4	e 22	38	-10	e 15	39	PP
Monaco		83.1	47	e 12	24	0	—	—	—	—	—	—
Ebingen		83.9	43	e 12	31	- 2	—	—	—	—	—	—
Stuttgart		84.0	42	e 12	30	0	e 22	54	- 3	e 24	5	PS
Hamburg	z.	84.2	37	i 12	34	+ 3	—	—	—	—	—	—
Skalstugan		84.6	27	i 12	33	0	—	—	—	—	—	—
Jena		85.4	39	e 12	35	- 1	e 22	25	[-38]	—	—	—
Copenhagen		85.4	35	—	—	—	e 23	12	+ 1	—	—	45.2
Florence		85.9	47	e 12	11	-27	e 23	34	+18	e 13	41	pP
Rome		87.0	48	i 12	48 <sub>k</sub>	+ 3	e 23	30	+ 3	e 24	36	SP
Kiruna		87.3	22	i 12	46	0	e 23	18	-11	e 23	8	SKS
Prague		87.3	40	e 12	49	+ 3	—	—	—	—	—	—
Triest		87.4	44	e 12	46	0	i 23	33	+ 3	e 23	7	SKS
Upsala		87.6	30	i 12	47	0	e 23	23	- 9	e 23	4	SKS
Bratislava		89.3	42	i 12	58	+ 2	e 23	44	- 4	i 13	18	?
Sodankyla		89.7	22	e 12	58	+ 1	—	—	—	i 13	25	?
Raciborz		89.7	40	e 12	57	0	—	—	—	e 13	7	PcP
Messina		89.8	52	e 13	8	+10	e 23	54	+ 1	e 23	23	SKS
Taranto		90.8	49	e 16	25	PP	—	—	—	e 22	25	?
Warsaw		91.0	37	e 22	11	?	24	6	+ 3	e 25	18	PS
Ksara		106.8	52	e 18	43	PP	—	—	—	—	—	—
Lwiro		108.8	90	16	18	?	—	—	—	18	3	PP
Uvira		109.2	91	e 18	57	PP	—	—	—	—	—	—
Matusiro		123.7	323	—	—	—	27	11?	[-28]	—	—	—
Rabaul	z.	128.2	270	i 24	25	PPP	—	—	—	—	—	—
Quetta		131.1	39	e 19	14	[+ 4]	—	—	—	e 21	23	PP
Baguio City		149.0	319	i 20	43	[+ 61]	i 28	57	?	—	—	—



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1956

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Aug. 21d. 11h. 26m. 0s. Epicentre 49°·6N. 155°·67E.

A = -0.5929, B = +0.2681, C = +0.7593;  $\delta = -6$ ;  $h = -5$ ;  
D = +0.412, E = +0.911; G = -0.692, H = +0.313, K = -0.651.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Matusiro	18.2	231	i 4 15	0	7 40	+ 5	i 7 57	SS	9.6
College	32.9	41	i 6 38	0	—	—	—	—	—
Bagnio City	43.6	233	i 8 9	+ 1	e 14 36	- 2	—	—	—
Rabaul	z. 53.7	184	e 9 25	- 1	—	—	—	—	—
Shillong	z. 54.2	268	e 9 30	+ 1	—	—	—	—	—
Hungry Horse	55.7	54	e 9 40	0	—	—	—	—	—
Shasta	z. 55.8	66	i 9 42	+ 1	—	—	—	—	—
Mineral	z. 56.5	65	i 9 46	0	—	—	—	—	—
Sodankyla	57.2	339	e 9 51	0	—	—	—	—	—
Butte	N. 57.9	55	e 9 58	+ 1	—	—	e 10 49	PcP	—
Reno	z. 58.0	65	e 9 58	+ 1	—	—	—	—	—
Kiruna	58.2	342	i 9 56	- 1	—	—	—	—	—
Lick	z. 58.4	68	e 9 59	0	—	—	—	—	—
Bozeman	59.0	55	i 10 6	+ 2	—	—	—	—	—
Eureka	60.3	63	i 10 14	+ 1	—	—	i 10 44	PcP	—
Tinemaha	z. 60.6	66	e 10 12	- 2	—	—	—	—	—
King Ranch	z. 60.8	69	e 10 15	- 1	—	—	—	—	—
Woody	z. 61.1	68	i 10 18	0	—	—	—	—	—
Isabella	z. 61.4	68	i 10 18	- 1	—	—	—	—	—
China Lake	z. 61.8	67	i 10 24	+ 1	—	—	—	—	—
Salt Lake City	61.8	59	e 10 23	0	—	—	—	—	—
Pasadena	62.6	69	i 10 27	0	—	—	i 11 14	PcP	e 28.5
Riverside	z. 63.2	68	e 10 32	0	—	—	—	—	—
Boulder City	63.3	65	i 10 34	+ 1	—	—	—	—	—
Palomar	z. 63.9	69	i 10 36	0	—	—	i 11 6	PcP	—
Rapid City	E. 64.2	52	i 10 38	0	—	—	—	—	—
Hayfield	N. 64.4	67	e 10 37	- 2	—	—	—	—	—
Barrett	z. 64.5	69	e 10 40	0	—	—	—	—	—
Upsala	65.7	338	e 10 47	- 1	—	—	—	—	—
Boulder	65.9	56	e 10 51	+ 1	—	—	—	—	—
Quetta	66.9	290	e 10 56	0	—	—	—	—	—
Tucson	68.3	65	e 11 5	0	—	—	—	—	—
Jena	z. 75.3	337	e 11 46	0	—	—	—	—	—
Ottawa	75.4	35	e 11 59	+ 12	—	—	—	—	—
Bratislava	76.3	332	i 11 53	+ 1	—	—	—	—	—
Rathfarnham C.	z. 76.3	349	i 11 52k	0	—	—	—	—	—
Stuttgart	77.8	338	e 12 1	0	—	—	—	—	—
Strasbourg	78.4	339	e 12 4	0	—	—	—	—	42.0
Paris	79.3	342	i 12 10	+ 1	e 17 26	PPP	e 15 26	PP	—
Besançon	80.0	340	e 12 13	0	—	—	—	—	—
Neuchatel	80.0	339	e 12 13	0	—	—	—	—	—
Clermont-Ferrand	82.1	341	e 12 25	+ 1	—	—	—	—	—
Safed	82.2	313	i 12 28 <sub>a</sub>	+ 4	—	—	—	—	—
Jerusalem	83.8	312	i 12 31	+ 1	—	—	—	—	—
Tamanrasset	103.2	332	e 14 5	+ 2	—	—	e 17 24	PP	—
Fort-de-France	108.2	38	e 12 29	?	—	—	—	—	—

Aug. 22d. 19h. 40m. 14s. Epicentre 28°·1N. 95°·21E.

A = -0.0802, C = +0.8798, C = +0.4685;  $\delta = -3$ ;  $h = +2$ ;  
D = +0.996, E = +0.091; G = -0.043, H = +0.467, K = -0.883.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Shillong	3.9	231	e 1 2	- 1	e 1 47	- 3	1 16	P <sub>g</sub>	—
Bokaro	9.5	245	e 1 4	- 77	—	—	—	—	5.0
Sining	10.1	31	e 1 25	- 65	—	—	—	—	—
Lanchow	10.8	40	e 2 4	- 35	—	—	—	—	—
Wuwei	11.6	30	e 2 11	- 39	—	—	—	—	—

Continued on next page.

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**1956**

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	$\Delta$ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.
Changyeh	11.7	21	e 2	40	-11	—	—	—	—	—	—
Yumen	12.3	6	e 2	58	-1	—	—	—	—	—	—
Sian	13.2	59	e 2	57	-15	—	—	—	—	—	17.1
Yinchuan	13.9	39	3	34	+13	—	—	—	—	—	—
Shenchow	14.4	59	e 3	38	+11	—	—	—	—	—	—
Dehra Dun	15.1	282	e 2	20	-77	—	—	—	—	—	8.3
New Delhi	15.9	276	e 3	55	+8	—	—	—	—	—	8.1
Linfen	15.9	56	3	51	+4	—	—	—	—	—	—
Paotow	17.4	41	e 4	11	+5	—	—	—	—	—	—
Hong Kong	18.1	104	4	14k	0	—	—	—	—	—	—
Tatung	19.1	47	e 4	29	+2	—	—	—	—	—	—
Madras	E. 20.6	266	e 4	43	0	—	—	—	—	—	—
Nanking	20.8	73	i 4	44a	-1	—	—	—	—	—	—
Peking	21.0	50	4	46a	-1	—	—	—	—	—	—
Poona	Z. 21.8	249	i 4	58	+2	—	—	—	—	—	—
Frunse	22.3	317	4	58	-2	9	8	+6	—	—	—
Bombay	22.4	251	e 5	7	+5	e 9	14	+10	—	—	11.9
Zō-Sè	22.8	76	i 5	5	0	—	—	—	—	—	—
Namangan	23.2	310	5	13	+4	—	—	—	—	—	—
Irkutsk	25.1	13	5	32	+4	—	—	—	—	—	—
Baguio City	26.1	111	i 5	38	+1	—	—	—	—	—	—
Changchun	28.8	49	6	1	-1	—	—	—	—	—	—
Matsiro	37.1	66	i 7	12k	-2	13	6	+5	—	—	e 20.0
Tiksi	47.3	14	8	38	+1	—	—	—	—	—	—
Moscow	49.1	321	8	49	-2	—	—	—	—	—	—
Ksara	50.6	292	i 9	4	+1	e 16	18	+1	e 11	56	PPP
Simferopol	50.7	307	9	3	0	16	17	-1	—	—	—
Safed	51.1	290	i 9	7	+1	—	—	—	—	—	—
Jerusalem	51.5	290	i 9	9	-1	—	—	—	—	—	—
Sodankyla	56.2	334	i 9	41	-1	—	—	—	i 10	48	PcP
Lwow	57.2	313	i 9	52	+1	—	—	—	—	—	—
Kiruna	58.6	335	i 9	58	-3	e 18	4	0	—	—	—
Upsala	60.0	325	i 10	8	-3	e 18	19	-3	—	—	—
Bratislava	62.0	312	i 10	19	-5	—	—	—	—	—	—
Skalstugan	62.1	330	i 10	24	-1	—	—	—	—	—	—
Prague	63.3	315	e 10	34	+1	—	—	—	e 11	16	PcP
Copenhagen	63.3	321	e 10	34	+1	e 19	10	+5	—	—	29.8
Rabaul	63.5	111	e 10	34	0	—	—	—	11	38	PcP
Jena	Z. 64.9	316	10	39	-4	—	—	—	—	—	—
Hamburg	Z. 65.2	319	i 10	47	+2	—	—	—	—	—	—
Tananarive	65.6	230	i 10	46	-2	—	—	—	—	—	—
Stuttgart	66.9	314	e 10	54	-2	e 19	46	-3	—	—	—
Witteveen	67.3	319	e 11	1	+2	—	—	—	—	—	—
Strasbourg	67.9	314	i 11	3	+1	—	—	—	—	—	35.5
Astrida	69.8	256	e 11	12	-2	—	—	—	—	—	—
Lwiro	70.4	256	e 11	19	+1	—	—	—	—	—	—
Paris	71.1	316	i 11	24	+2	e 20	42	+3	11	34	PcP
Kew	71.8	319	e 11	29	+3	—	—	—	—	—	e 34.8
Rathfarnham C.	Z. 74.4	322	i 11	50	+9	—	—	—	—	—	e 35.8
Tamanrasset	Z. 79.3	290	e 12	7	-2	—	—	—	e 15	5	PP
Pretoria	83.8	237	e 12	31	-1	—	—	—	—	—	—
Pietermaritzburg	84.4	232	i 12	35	-1	—	—	—	—	—	—
Kimberley	88.0	236	i 12	54	+1	—	—	—	—	—	—
Grahamstown	89.2	231	e 12	43	-16	—	—	—	—	—	—
Hungry Horse	99.5	19	e 13	47	+1	—	—	—	e 17	49	PP
Eureka	106.7	25	e 18	28	[+ 2]	—	—	—	i 19	25	?
Huancayo	Z. 161.7	329	e 20	52	PKP <sub>2</sub>	—	—	—	—	—	—

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Aug. 23d. 13h. 48m. 26s. Epicentre 15°·27S. 68°·67W.

A = +0·3511, B = -0·8990, C = -0·2618 ;  $\delta = +1$  ;  $h = +6$  ;  
D = -0·932, E = -0·364 ; G = -0·095, H = +0·244, K = -0·965.

	$\Delta$	Az.	P.	O - C.	S.	O - C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
La Paz	1·3	157	0 26 <sup>k</sup>	+ 1	0 46	+ 3 <sub>s</sub>	0 29	—
Huancayo	7·2	295	i 1 52	+ 3	e 3 19	+ 6	e 12 2	—
Antofagasta	N. 8·5	191	e 2 3	- 3	—	—	i 2 40	i 4·4
Copiapo	E. 12·1	187	—	—	e 5 8	- 6	—	e 6·1
Santa Lucia	N. 18·2	185	e 3 9	-64	e 6 41	-56	—	e 8·7
Bogota	20·5	344	i 4 38 <sup>a</sup>	- 2	i 8 12	-15	i 8 32	PcP
Chinchina	21·3	341	i 4 45	- 3	i 8 46	+ 3	—	—
Buenos Aires	21·3	156	4 47	- 2	8 41	- 2	—	10·6
Concepción	N. 21·7	187	e 4 36	-16	e 8 40	-11	e 4 47	?
La Plata	21·8	156	4 50	- 3	i 8 51	- 1	5 34	PPP
Balboa Heights	26·4	335	e 5 40	0	—	—	—	—
Galerazamba	26·7	345	i 5 58	+17	i 10 18	+ 1	i 6 34	PP
Trinidad	26·7	16	e 5 41	0	e 11 29	SS	—	13·6
St. Vincent	29·2	15	e 6 1	- 2	—	—	—	—
Barbados	29·6	18	e 6 35	+28	—	—	—	—
Fort-de-France	30·7	14	e 6 11	- 6	—	—	—	14·3
Dominica	31·2	14	e 6 18	- 3	—	—	—	—
San Juan	33·5	4	6 37	- 4	e 11 49	-16	i 6 56	pP
Merida	41·5	330	e 7 48	0	e 13 37	-30	—	13·8
Tacubaya	45·7	318	e 8 31	+ 9	—	—	e 10 21	PP
Columbia	50·4	347	i 8 56	- 3	i 16 6	- 8	e 10 4	PcP
Chapel Hill	51·8	349	e 9 2	- 8	i 16 25	- 8	—	e 20·8
Washington	54·5	352	e 9 28	- 1	e 17 23	PS	—	e 29·3
Philadelphia	55·3	354	e 9 38	+ 3	i 17 10	-10	e 11 45	PP
City College, N.Y.	56·0	355	e 9 30	-10	—	—	—	e 23·1
Palisades	56·2	355	i 9 45 <sup>k</sup>	+ 3	i 17 25	- 8	e 11 48	PP
Pittsburgh	56·4	350	9 59	+16	17 29	- 7	—	e 25·8
Pennsylvania	56·4	352	i 9 46	+ 3	e 17 33	- 3	e 11 55	PP
St. Louis	57·3	340	9 45	- 5	—	—	10 4	pP
Weston	57·4	358	i 9 48	- 2	—	—	—	—
Florissant	N. 57·5	340	e 9 50	- 1	e 17 41	- 9	e 19 30	ScS
Cleveland	57·7	349	i 9 52	0	i 17 43	-10	—	—
M'Bour	59·0	62	e 9 59	- 2	e 18 9	- 1	e 11 32	?
Halifax	59·8	4	e 10 8	+ 1	i 18 14	- 6	i 19 52	ScS
Ottawa	60·7	354	e 10 10 <sup>a</sup>	- 3	18 20	-12	10 48	PcP
Shawinigan Falls	61·6	357	e 10 15 <sup>a</sup>	- 5	10 57	PcP	14 3	PPP
Seven Falls	62·1	358	—	—	e 18 43	- 6	20 2	ScS
Tucson	62·1	320	e 10 21	- 2	i 11 5	PcP	e 10 39	pP
Kirkland Lake	z. 63·9	351	e 10 31	- 4	e 18 54	-18	—	—
Hayfield	N. 66·1	318	e 10 50	+ 1	—	—	—	—
Barrett	z. 66·2	317	i 10 48	- 1	—	—	i 11 17	pP
Palomar	z. 66·7	317	e 10 51	- 2	—	—	e 11 17	pP
Rapid City	E. 66·9	334	i 10 53	- 1	e 19 48	- 1	e 39 32	P'P'
Boulder City	67·1	321	e 10 53	- 2	—	—	i 11 17	pP
Riverside	67·4	317	e 10 55	- 4	15 30	PcS	i 11 25	pP
Pasadena	68·1	317	i 10 59	- 2	e 19 52	+11	i 11 29	pP
Salt Lake City	68·6	326	e 11 3	- 2	—	—	i 11 33	pP
China Lake	z. 68·7	319	i 11 3	- 2	—	—	—	—
Isabella	z. 69·2	318	i 11 6	- 2	—	—	i 11 35	pP
Woody	z. 69·5	318	i 11 8	- 2	—	—	i 11 29	pP
King Ranch	z. 69·8	317	e 11 13	+ 1	—	—	—	—
Tinemaha	69·9	320	e 11 12	0	e 20 21	- 3	i 21 35	ScS
Eureka	70·1	323	i 11 12	- 1	—	—	i 11 40	pP
Bozeman	71·7	330	e 11 24	0	—	—	i 11 47	pP
Lick	z. 72·2	318	e 11 25	- 1	—	—	—	—
Reno	z. 72·4	321	e 11 28	+ 1	—	—	—	—
Butte	N. 72·7	330	e 11 37	+ 8	e 20 50	- 7	i 11 54	pP
Berkeley	72·9	318	i 11 30	- 1	20 52	- 7	—	e 30·2
Mineral	z. 74·0	321	e 11 35	- 2	—	—	—	—
Ukiah	74·3	319	e 11 46	+ 8	—	—	—	—

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Shasta	z.	74.7	320	e 11 37	- 4	—	—	—	—
Hungry Horse		75.1	331	i 11 40	- 3	e 21 17	- 7	i 11 59	pP
Lisbon		77.3	44	e 12 0	+ 4	—	—	e 12 9	PcP
Corvallis	z.	77.5	323	e 11 53	- 4	—	—	—	—
Seattle		78.8	326	e 12 10	+ 6	21 52	-12	—	—
Malaga		79.6	47	i 12 9k	+ 1	i 22 11	- 1	15 13	PP
Hermanus		79.8	123	—	—	i 22 8	- 6	—	—
Victoria		79.9	326	e 12 8	- 2	—	—	—	—
Granada		80.4	47	i 12 13k	+ 1	i 22 17	- 4	15 11	PP
Horseshoe Bay		80.4	327	e 12 15	+ 4	e 22 14	- 7	—	i 20.2
Almeria		81.0	48	e 12 14	- 2	e 22 20	- 7	e 15 23	PP
Toledo		81.3	45	i 12 19	+ 2	i 22 27	- 3	—	—
Tamanarasset		81.8	64	e 12 18	- 2	e 22 30	- 5	e 15 26	PP
Relizane		82.7	50	e 12 25	0	e 22 39	- 5	e 12 50	pP
Alicante		83.1	47	12 12	-14	22 18	-30	15 26	PP
Algiers Univ.		85.0	50	e 12 34	- 2	e 22 56	[- 5]	e 12 57	pP
Kimberley		85.7	118	i 12 38	- 2	—	—	—	—
Rathfarnham C.	z.	86.6	32	i 12 43k	- 1	e 16 36	PP	i 13 17	pP
Reykjavik		86.9	19	i 12 57k	+12	—	—	—	—
Clermont-Ferrand		88.6	42	e 12 59	+ 5	e 23 41	- 1	e 23 19	SKS
Kew		88.9	36	13 0	+ 5	e 23 39	- 5	e 23 15	SKS
Paris		89.4	39	e 12 58	0	e 23 38	-11	e 13 19	pP
Durham	E.	89.8	33	i 13 2	0	i 23 20	[-12]	i 23 48	S
Aberdeen		90.6	30	e 13 9	+ 6	i 23 59	- 1	i 23 36	SKS
Resolute Bay		91.3	353	i 13 11a	+ 5	i 23 59	- 7	e 22 38	?
Scoresby Sund		91.4	14	i 13 13	+ 6	e 24 1	- 6	i 23 33	SKS
De Bilt		92.3	36	i 13 17a	+ 6	i 23 40	[- 6]	e 16 58	PP
Pavia		92.4	44	25 28	PS	—	—	—	—
Strasbourg		92.6	40	e 13 7	- 5	23 46	[- 2]	e 16 46	PP
Witteveen		93.4	36	e 13 21	+ 5	—	—	—	—
Stuttgart		93.6	40	e 13 14	- 3	e 24 14	-12	e 23 47	SKS
Rome		93.6	48	—	—	23 45	[- 8]	e 25 58	PS
Messina		94.8	52	e 13 7	-16	e 24 27	- 9	i 25 54	PS
Hamburg		95.6	36	i 13 26	0	e 23 56	[- 8]	e 24 50	SKKS
Trieste		95.6	44	e 13 16	-10	i 24 34	- 9	i 23 49	SKS
Jena		95.7	39	e 13 36	0	e 24 21	-23	e 24 1	SKS
Lwiro		96.6	94	e 13 32	- 1	—	—	—	—
Astrida		97.4	95	e 13 36	- 1	—	—	e 17 36	PP
Copenhagen		97.5	34	i 13 41a	+ 6	24 55	- 4	e 24 8	SKS
Bratislava		98.4	42	e 13 36	- 3	i 25 2	- 5	e 24 10	SKS
College		99.2	335	e 13 40	- 2	e 25 1	-13	e 18 24	?
Athens		101.1	54	—	—	e 24 25	[- 7]	—	—
Upsala		101.2	31	e 17 41	PP	i 24 21	[-12]	e 26 53	PS
Warsaw		101.7	39	e 13 59	+ 5	e 25 23	-12	e 24 30	SKS
Kiruna		103.7	23	e 14 8	+ 6	e 25 45	- 6	e 18 2	PKP
Bucharest		103.9	47	18 28	PP	25 49	- 4	24 39	SKS
Ksara		110.3	59	e 18 7	[-24]	i 19 6	PKP <sub>2</sub>	i 21 34	PPP
Rabaul		135.2	248	e 19 21	[+ 2]	e 22 49	PKS	—	—
Quetta		136.7	62	e 19 23	[+ 1]	—	—	—	—
Poona	z.	144.0	79	i 19 38	[+ 3]	—	—	—	—
Dehra Dun		146.0	58	e 19 49	[+11]	—	—	—	—
Guam		147.6	271	e 19 55	[+14]	—	—	—	—
Matusiro		148.0	316	19 42	[ 0]	—	—	41 54	SS
Lembang	z.	157.7	170	e 20 7	[+11]	—	—	e 24 5	PP
Shillong		159.1	58	20 4	[+ 7]	43 53	SS	20 43	PKP <sub>2</sub>
Manila		170.6	267	e 21 32	PKP <sub>2</sub>	—	—	e 25 24	PP
Baguio City		171.0	278	e 20 5	[- 2]	—	—	e 29 4	PPP

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Aug. 24d. 4h. 27m. 34s. Epicentre 52°·74N, 172°·6E.

A = -0.6029, B = +0.0783, C = +0.7940;  $\delta = +6$ ;  $h = -6$ ;  
D = +0.129, E = +0.992; G = -0.787, H = +0.102, K = -0.608.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Klyuchi	7.8	302	i 1 55	0	3 29	+ 1	—	—
Petropavlovsk	8.4	278	e 2 1	- 4	i 3 27	-16	—	—
Magadan	13.9	308	i 3 20	+ 1	—	—	—	—
Kurilsk	17.8	255	i 4 6	- 3	—	—	—	—
Ulegorsk	19.5	271	i 4 28	- 1	i 8 14	+ 8	—	—
Yuzno-Sakhlinsk	20.0	265	e 4 40	+ 5	i 8 27	+10	—	—
Nemuro	20.3	253	e 4 33	- 5	e 8 20	- 3	—	e 9.6
Abashiri	20.6	256	e 4 37	- 4	e 8 36	+ 7	e 5 22	PPP e 10.2
Kusiro	21.2	254	e 4 43	- 4	i 8 42	+ 1	i 8 53	PcP e 10.3
Wakkanai	N. 21.4	262	e 4 53	+ 4	e 8 47	+ 2	—	e 10.5
Asahigawa	21.9	258	e 4 54	- 3	—	—	—	—
Obihiro	21.9	255	e 5 40	PPP	—	—	—	—
Urakawa	22.6	254	e 5 2	+ 1	e 9 10	+ 3	e 10 20	SSS e 11.4
Sapporo	22.9	258	i 5 3	- 1	e 9 11	- 2	e 5 27	PP e 11.6
Tomakomai	23.1	256	e 5 6	0	—	—	—	—
College	23.4	43	e 5 5	- 4	e 9 4	-17	(i 9 37)	S i 9.6
Muroran	23.6	256	e 5 11	0	—	—	—	—
Suttsu	23.7	258	e 5 10	- 2	—	—	—	—
Mori	23.9	256	5 12	- 2	9 28	- 4	e 5 47	PP 12.5
Hatinohe	z. 24.4	252	i 5 18	0	—	—	—	—
Aomori	24.6	254	e 5 24	+ 4	—	—	—	—
Miyako	N. 24.7	250	e 5 17	- 5	i 9 42	- 2	—	—
Morioka	25.1	251	e 5 25	- 1	e 9 42	- 9	e 5 51	PP
Mizusawa	25.5	252	5 32	0	e 9 55	- 2	—	—
Akita	25.7	253	5 31	- 1	e 10 2	+ 1	—	e 11.8
Isinomaki	25.9	249	e 5 28	- 6	—	—	—	—
Sendai	26.2	249	e 5 31	- 5	e 9 59	-10	—	e 11.6
Sakata	26.4	252	e 5 42	+ 4	—	—	—	—
Yamagata	26.6	250	e 5 40	+ 1	e 10 22	+ 6	—	—
Tiksi	26.8	331	i 5 42	0	e 10 23	+ 4	e 6 29	PP
Hokusima	26.9	249	e 5 41	- 1	10 23	+ 3	—	—
Onahama	27.2	247	e 5 46	+ 1	—	—	e 9 38	?
Shirakawa	N. 27.4	248	e 5 55	+ 8	e 11 51	SS	e 6 35	PP
Niigata	27.5	251	e 6 18	PP	e 10 28	- 2	—	12.9
Mito	27.8	247	e 6 3	+12	e 12 20	?	—	—
Aikawa	27.9	252	e 5 34	-18	e 10 26	-11	—	e 12.8
Utunomiya	N. 28.0	248	e 5 58	+ 5	e 10 37	- 1	7 14	PPP 15.4
Kakioka	E. 28.1	247	e 5 52	- 1	e 12 25	SS	—	—
Tukubasan	28.1	247	i 5 51	- 3	10 34	- 6	i 7 0	PP e 12.2
Vladivostok	28.6	267	i 5 56	- 1	10 40	- 8	—	—
Takada	28.6	251	6 2	+ 5	10 48	0	—	—
Maebasi	28.6	249	e 5 58	0	e 11 13	+25	e 7 17	PP e 13.1
Kumagaya	28.6	248	e 6 0	+ 2	e 10 48	0	—	—
Tokyo	28.7	247	e 6 2	+ 3	10 44	- 6	—	e 12.6
Titibu	28.9	248	e 6 2	+ 1	—	—	—	—
Nagano	N. 28.9	250	e 6 7	+ 7	e 10 52	- 1	—	e 11.8
Oiwake	28.9	249	e 5 50	-11	—	—	—	—
Yokohama	29.0	246	e 6 1	0	e 10 55	+ 1	e 6 56	PP
Matusiro	29.0	250	i 5 59 <sup>a</sup>	- 2	10 43	-11	8 50	PcP 13.6
Mera	29.2	246	e 6 8	+ 4	10 58	0	—	e 12.8
Matumoto	N. 29.3	250	e 6 6	+ 2	e 10 50	- 9	—	e 12.9
Hunatu	29.4	248	e 6 4	- 1	—	—	—	12.4
Kohu	29.4	248	e 6 8	+ 3	e 10 54	- 7	—	e 11.5
Misima	N. 29.6	247	e 6 4	- 3	e 10 54	-10	—	e 12.0
Osima	29.6	246	e 6 8	+ 1	—	—	—	e 12.4
Sitka	29.6	61	e 6 7	0	i 11 5	+ 1	e 8 53	PcP e 12.1
Iida	29.9	249	e 6 9	- 1	—	—	—	—
Shizuoka	30.0	247	e 6 25	+15	(e 11 8)	- 2	—	e 11.1
Omaesaki	30.4	247	e 6 46	+32	e 12 42	SS	—	—
Gihu	30.6	250	e 6 24	+ 8	(12 25)	+ 5	—	e 12.4

Continued on next page.



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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Nagoya	E.	30.7	249	e 6 32	+16	—	—	—	—
Kameyama		31.2	250	e 6 46	+26	e 11 6	-23	—	—
Kyoto		31.5	250	6 22	-1	11 33	-1	—	—
Owase	N.	31.9	249	e 6 24	-3	—	—	—	e 14.1
Kobe	E.	32.0	251	—	—	e 11 17	-25	—	—
Changchun		32.2	273	e 6 27	-2	e 11 38	-7	6 52	pP
Yonago		32.6	254	—	—	i 13 53	SS	—	i 16.8
Takamatu		33.0	251	e 6 37	+1	—	—	e 11 55	? e 14.7
Koti		33.8	251	e 6 44	0	e 11 58	-12	(13 46)	SS e 13.8
Kumamoto		36.0	253	e 6 56	-7	—	—	—	17.4
Nagasaki	z.	36.5	254	e 7 10	+3	—	—	—	—
Kagosima		37.0	252	e 6 46	-27	—	—	7 46	? —
Honolulu		38.6	133	i 7 29	+5	e 13 16	-7	—	e 16.6
Peking		39.9	275	i 7 34 <sub>a</sub>	-1	13 42	-1	8 10	sP —
Irkutsk		40.1	298	7 36 <sub>a</sub>	-1	13 47	+1	9 14	PP —
Resolute		40.7	24	i 7 44 <sub>a</sub>	+1	e 13 56	+1	e 9 16	PP —
Seattle		40.7	70	e 7 44	+2	—	—	i 8 6	? —
Hawaii Vol. Obs.		41.5	131	e 7 47	-3	e 14 12	+5	—	—
Banff		42.6	62	e 7 57	0	—	—	—	—
Zô-Sè		42.8	260	i 7 59 <sub>a</sub>	0	14 23	+3	8 37	sP —
Nanking		43.6	264	i 8 3 <sub>a</sub>	-2	14 31	-7	9 51	PP —
Shasta	z.	44.7	78	i 8 14	0	—	—	—	—
Hungry Horse		45.0	65	i 8 16	0	e 14 52	-4	e 10 41	PPP —
Ukiah		45.2	81	e 8 17	-1	e 14 58	-3	i 8 57	sP e 18.3
Mineral	z.	45.4	78	e 8 18	-2	—	—	—	—
Berkeley		46.6	81	e 8 29	0	e 15 16	-5	e 18 20	SS e 22.4
Saskatoon		46.7	57	i 8 28	-2	i 15 18	-4	i 18 18	ScS —
Reno	z.	46.9	78	e 8 34	+2	—	—	—	—
Santa Clara		47.1	82	e 8 36	+3	e 15 28	0	—	— e 21.4
Taipei		47.1	254	8 42	+9	17 28	?	—	—
Butte	N.	47.1	67	e 8 33	0	e 15 22	-6	e 10 32	PP e 19.9
Lick	z.	47.3	82	e 8 33	-2	—	—	—	—
Sian		48.1	274	e 8 41	0	—	—	—	—
Bozeman		48.2	66	e 8 41	-1	e 15 42	-1	8 56	pP e 21.6
Hsinkong		48.7	253	e 8 50	+4	—	—	—	—
Fresno	E.	48.8	78	e 8 48	-1	—	—	—	—
Eureka		49.3	75	i 8 48	-2	—	—	i 10 2	PcP —
Tainan		49.4	254	e 8 44	-7	—	—	—	—
Tinemaha		49.5	79	e 8 52	0	e 15 56	-6	i 9 3	pP —
King Ranch	z.	49.8	82	e 8 57	+3	—	—	—	—
Woody	z.	50.0	81	i 8 54 <sub>a</sub>	-2	—	—	—	—
Isabella	z.	50.3	81	e 8 56	-2	—	—	i 9 6	pP —
China Lake		50.7	80	i 8 59	-2	—	—	i 9 8	pP —
Salt Lake City		50.8	72	e 9 0	-2	e 16 17	-3	i 10 26	PcP e 21.6
Pasadena		51.5	82	i 9 5	-2	e 16 8	-21	i 9 17	pP e 23.6
Riverside	z.	52.1	82	e 9 9	-2	e 16 30	-8	i 9 25	pP —
Boulder City		52.3	78	i 9 10	-3	—	—	—	—
Palomar	z.	52.8	82	e 9 15	-2	—	—	i 9 26	pP —
Hayfield	N.	53.3	81	e 9 20	-1	—	—	—	—
Barrett		53.4	82	e 9 20	-1	i 16 50	-5	e 19 8	ScS —
Rapid City	E.	53.5	63	i 9 23	+1	i 16 55	-2	e 19 20	ScS —
Hong Kong		53.5	259	e 9 21 <sub>a</sub>	-1	e 16 44	-13	—	—
Semipalatinsk		53.5	307	i 9 21	-1	17 0	+3	i 11 25	PP —
Baguio City		54.4	248	i 9 26	-3	e 17 22	+13	—	—
Boulder		55.0	68	i 9 34	-1	—	—	—	—
Manila		55.7	247	i 9 37	-1	i 17 20	-6	—	—
Scoresby Sund		56.6	6	i 9 45	0	i 17 38	0	i 13 22	PPP 27.4
Tucson		57.2	79	i 9 49	0	e 17 47	+1	i 10 8	? e 23.6
Sverdlovsk		57.4	323	i 9 50	-1	17 47	-2	18 11	PPS —
Sodankyla		57.5	345	i 9 51	0	i 17 47	-3	i 10 43	PcP —
Kiruna		58.0	348	i 9 53 <sub>a</sub>	-1	e 17 50	-7	e 39 47	P'P' —
Rabaul	z.	59.3	204	i 10 6	+2	—	—	—	—
Frunse		61.6	304	i 10 18	-1	—	—	i 18 48	PS —
Kirkland Lake		62.1	46	e 10 20 <sub>a</sub>	-2	—	—	—	—
Chihuahua		62.7	78	e 11 37 <sub>k</sub>	+71	e 20 2	[-17]	e 14 56	PPP e 29.7

Continued on next page.

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Reykjavik	62.9	7	i 10	29 <sup>k</sup>	+ 1	—	—	—	—	—	—
Skalstugan	63.0	350	i 10	28 <sup>a</sup>	- 1	—	—	—	i 39	32	P'P'
Chicago	63.3	56	e 10	30	0	i 19	0	- 4	e 23	10	SS
Fayetteville	64.0	64	i 10	33 <sup>a</sup>	- 2	e 19	24	+11	13	18	PP
Florissant	64.1	60	e 10	34	- 2	e 19	10	- 4	—	—	—
St. Louis	64.3	60	e 10	36	- 1	19	13	- 4	e 12	54	PP
Helsinki	64.5	343	e 10	36	- 2	e 19	4	-15	—	—	—
Shillong	64.6	279	i 10	37 <sup>a</sup>	- 2	e 19	3	-18	11	13	PcP
Terre Haute	65.1	57	i 10	46	+ 4	i 19	26	- 1	—	—	—
Tashkent	65.4	306	10	42	- 2	i 19	33	+ 3	e 13	3	PP
Moscow	65.7	334	i 10	46	0	19	37	+ 3	13	11	PP
Upsala	66.0	346	i 10	47 <sup>a</sup>	- 1	i 19	33	- 5	e 39	20	P'P'
Ottawa	66.1	46	e 10	46 <sup>a</sup>	- 3	19	32	- 7	13	10	PP
Shawinigan Falls	66.4	43	e 10	47 <sup>a</sup>	- 4	—	—	—	13	14	PP
Bergen	66.7	353	11	57	+64	21	52	+ 5	14	52	PPP
Seven Falls	66.8	42	e 10	52	- 1	19	43	- 5	13	16	PP
Apia	67.6	164	e 11	22	PcP	e 19	56	- 1	—	—	e 30.4
Stalinabad	67.7	305	i 10	58	- 1	i 19	58	- 0	—	—	—
Pittsburgh	68.0	52	i 11	0	- 1	i 19	59	- 3	—	—	—
Pennsylvania	68.7	50	i 11	5	0	e 20	7	- 3	i 11	30	PcP
Dehra Dun	69.1	293	e 11	3	- 4	i 20	10	- 5	13	42	PP
Aberdeen	70.4	357	i 11	16	+ 1	i 20	28	- 2	i 15	48	PPP
Palisades	70.4	47	i 11	14 <sup>a</sup>	- 1	i 20	24	- 6	11	39	pP
Weston	70.4	45	e 11	15	0	20	48	PS	—	—	e 32.7
City College, N.Y.	70.5	48	i 11	12	- 4	—	—	—	—	—	—
Washington	70.6	51	e 11	15	- 2	e 20	34	+ 1	e 15	39	PPP
Philadelphia	70.7	49	e 11	16	- 1	i 20	29	- 5	e 25	32	SS
Copenhagen	70.7	348	i 11	17 <sup>a</sup>	0	i 20	33	- 1	e 13	55	PP
Suva	N. 70.8	174	e 13	39	PP	i 20	31	- 4	i 21	1	PS
New Delhi	N. 70.9	292	e 11	18	0	e 20	33	- 3	13	51	PP
Halifax	71.7	39	i 11	22 <sup>a</sup>	- 1	i 20	39	0	—	—	—
Chapel Hill	72.0	54	i 11	23	- 2	—	—	—	—	—	—
Columbia	72.6	57	i 11	27	- 1	e 20	50	- 6	e 21	46	ScS
Warsaw	72.7	342	i 11	31	+ 2	20	58	+ 1	i 11	46	PcP
Durham	72.7	356	i 11	37	+ 8	i 21	2	+ 5	i 20	35	?
Hamburg	73.1	349	e 11	33	+ 2	e 21	7	+ 7	i 11	38	PcP
Tacubaya	73.7	79	e 11	39	+ 4	e 20	59	- 9	e 14	17	PP
Witteveen	74.1	351	i 11	40	+ 2	—	—	—	—	—	—
Rathfarnham Castle	74.3	359	i 11	29 <sup>a</sup>	-10	e 21	9	- 6	e 14	8	PP
Lwow	74.4	339	i 11	40	+ 1	i 21	16	0	i 14	32	PP
Nouméa	74.9	186	e 11	42	0	e 21	4	-18	e 11	56	PcP
De Bilt	75.0	352	i 11	44	+ 1	e 21	23	0	i 14	36	PP
Krakow	75.0	342	e 11	43	0	e 21	23	0	e 13	54	PP
Quetta	75.2	300	i 11	43 <sup>a</sup>	- 3	e 21	23	- 2	—	—	—
Raciborz	75.3	343	e 11	41	- 3	e 22	26	PPS	e 12	10	PcP
Jena	75.5	348	e 11	45	0	e 21	30	+ 2	e 152	—	PP
Tiflis	75.7	322	i 11	47	+ 1	e 21	32	+ 2	e 16	20	PP
Vera Cruz	75.7	77	i 11	50	+ 3	i 21	19	-11	—	—	—
Skalnate Pleso	75.8	342	i 11	51	+ 4	e 21	34	+ 3	e 25	56	SS
Prague	75.9	346	e 11	47	- 1	e 21	32	0	e 14	38	PP
Kew	76.0	355	e 11	48	0	e 21	32	- 2	i 14	36	PP
Iasi	76.0	336	11	49	0	21	38	+ 4	—	—	e 35.9
Cheb	76.2	347	e 11	56	+ 7	21	50	+14	e 26	32	SS
Simferopol	76.4	331	i 11	50	0	e 21	42	+ 4	e 14	46	PP
Goris	77.0	320	i 11	54	0	i 21	45	—	i 12	4	PcP
Bratislava	77.3	344	i 11	57	- 1	i 21	52	+ 4	i 14	52	PP
Hurbanovo	77.4	343	e 12	1	+ 5	e 21	53	+ 4	e 14	43	PP
Budapest	77.6	342	12	1	+ 3	21	52	+ 1	14	53	PP
Stuttgart	77.9	349	e 11	59	0	e 21	44	-10	e 22	22	PS
Merida	78.1	71	i 11	59 <sup>k</sup>	- 1	e 21	46	-10	—	—	e 40.4
Strasbourg	78.2	350	e 12	2	+ 1	e 21	59	+ 2	e 15	14	PP
Paris	78.5	353	i 12	3	+ 1	e 22	2	+ 1	i 12	9	PcP
Ebingen	78.5	349	e 12	2	0	—	—	—	—	—	e 38.4
Szeged	78.6	341	12	18	+15	21	56	- 6	17	44	PPP
Hyderabad	78.8	284	e 12	7	+ 3	e 22	6	+ 2	15	13	PP

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	$\Delta$ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.
Timisoara	78.9	340	e 12	9	+ 5	e 22	8	+ 3	—	—	e 35.4
Bucharest	79.0	336	12	5	0	22	7	+ 1	12 22	pP	37.4
Basle	79.3	350	e 12	7	+ 1	e 22	26	+17	—	—	—
Neuchatel	79.9	350	i 12	10	0	e 22	23	+ 7	—	—	—
Belgrade	79.9	340	e 12	10k	0	e 22	18	+ 2	e 15 42	PP	e 45.3
Trieste	80.3	345	e 11	6	-66	i 22	16	- 4	15 16	PP	38.4
Djakarta	80.6	247	e 12	0	-14	—	—	—	—	—	—
Poona	80.6	288	i 12	13	- 1	i 22	13	-10	15 24	PP	38.3
Lembang	80.7	246	e 12	4	-10	—	—	—	—	—	—
Bombay	80.9	289	e 12	15	0	e 22	25	- 1	17 15	PPP	—
Madras	81.2	280	e 12	15	- 2	—	—	—	—	—	—
Pavia	81.4	348	e 12	19 <sub>a</sub>	+ 1	e 23	15	-16	e 15 27	PP	—
Clermont-Ferrand	81.4	353	e 12	19	+ 1	e 22	32	0	e 23 34	PPS	39.4
Brisbane	81.7	197	i 12	20	+ 1	i 22	29	- 5	—	—	—
Bologna	81.8	347	e 12	34	+14	e 22	48	+13	e 23 50	PPS	e 37.5
Prato	82.4	347	i 12	28	+ 5	e 22	50	+ 9	—	—	—
Florence	82.5	347	i 12	26	0	i 22	56	+13	i 15 43	PP	e 42.9
Rome	84.2	345	e 12	32	0	i 23	4	+ 5	i 15 40	PP	e 43.1
Taranto	84.7	341	e 12	8	-27	e 22	8	-56	—	—	e 42.1
Kodaikanal	85.0	280	e 12	37	+ 1	—	—	—	—	—	—
Athens	85.7	336	e 12	39	0	e 23	4	[- 1]	e 16 13	PP	—
Barcelona	85.8	353	e 13	7	+27	e 23	25	+10	—	—	e 45.1
Ksara	85.9	325	i 12	41	0	i 23	21	+ 5	i 24 24	PS	—
Colombo	86.2	276	12	46	+ 4	23	4	[- 5]	—	—	43.8
Safed	86.8	325	e 12	45	0	—	—	—	—	—	—
Messina	87.3	342	e 13	9	+22	e 23	41	+12	29 39	SS	—
Angra do Heroismo	87.4	15	—	—	—	e 23	32	+ 2	—	—	—
Toledo	87.7	357	e 12	47	- 2	e 23	25	[+ 6]	16 5	PP	41.8
Jerusalem	88.0	325	i 12	51	0	i 23	46	+10	—	—	—
Riverview	88.2	198	i 12	54 <sub>a</sub>	+ 2	—	—	—	—	—	—
Alicante	89.1	355	12	54	- 2	23	39	- 7	16 25	PP	e 42.2
Tunis	89.5	346	e 16	36	PP	23	44	[+14]	e 30 8	SS	e 46.4
Granada	90.4	357	i 13	8	+ 6	24	6	+ 8	i 13 30	pP	i 48.3
Algiers Univ.	90.4	352	e 13	1	- 1	e 23	42	[+7]	e 16 13	PP	—
Almeria	90.7	356	e 13	3	0	e 23	46	[+ 9]	e 16 35	PP	43.6
Malaga	90.9	358	i 13	5 <sub>a</sub>	+ 1	i 24	1	- 2	16 41	PP	43.4
Relizane	91.6	353	e 13	17	+ 9	e 24	11	+ 2	e 17 47	?	—
San Juan	92.9	54	i 13	13	- 1	e 24	16	- 4	e 16 44	PP	e 37.8
Melbourne	93.3	202	i 13	16	0	i 24	20	- 5	—	—	e 38.4
Wellington	93.7	178	—	—	—	24	21	- 6	—	—	e 43.9
Christchurch	95.9	180	23	52	SKS	e 24	54	+ 8	26 5	PS	e 43.9
Perth	97.7	226	—	—	—	—	—	—	26 23	PS	e 46.9
Fort-de-France	98.5	52	—	—	—	e 24	27	[+ 7]	—	—	—
Chinchina	99.0	69	i 13	42	+ 1	i 25	22	+10	i 23 27	SKS	47.4
Bogota	100.2	68	i 17	10	PP	i 24	18	[-10]	—	—	48.4
Tamanrasset	104.0	348	e 14	1	- 3	e 24	47	[+ 1]	e 18 19	PP	—
Huancayo	112.8	80	e 18	53	[+17]	—	—	—	—	—	—
La Paz	120.6	76	e 18	55	[+ 4]	25	49	[- 3]	i 30 9	PS	53.7
Astrida	121.3	315	e 18	54 <sub>k</sub>	[+ 1]	—	—	—	—	—	—
Lwiro	121.4	316	e 18	54	[+ 1]	—	—	—	e 21 5	?	—
Tananarive	125.9	287	e 19	3	[+ 1]	—	—	—	—	—	—
La Plata	140.3	84	23	38	PKS	27	14	+34	22 50	PP	67.7
Pretoria	142.1	301	e 19	27	[- 5]	—	—	—	—	—	—
Pietermaritzburg	144.0	295	i 19	35	[ 0]	—	—	—	—	—	—
Kimberley	146.3	303	i 19	40 <sub>a</sub>	[+ 1]	—	—	—	—	—	—
Grahamstown	148.9	295	i 19	46 <sub>k</sub>	[ 0]	—	—	—	—	—	—

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Aug. 29d. 3h. 4m. 32s. Epicentre 54°·24N. 160°·5E.

A = -·5534, B = +·1959, C = +·8095; h = -8; δ = -7;  
D = +·334, E = +·943; G = -·763, H = +·270, K = -·587.

		Δ	Az.	P.		O-C.	S.	O-C.	Supp.	L.
		°	°	m.	s.	s.	m. s.	s.	m. s.	m.
Petropavlovsk		1·6	266	i 0	31	+ 2	i 0 44	- 6	—	—
Klyuchi		2·1	4	i 0	48	+ 6 <sub>g</sub>	e 1 16	+ 7 <sub>g</sub>	—	—
Magadan		7·5	319	e 2	2	+ 8	—	—	—	—
Ulegorsk		12·5	253	3	8	+ 5	e 5 36	+12	i 3 23	PPP
Yuzno-Sakhlinsk		13·4	244	i 3	14	0	e 5 44	- 1	i 3 30	PPP
Tiksi		22·1	334	e 4	59	0	e 9 33	SS	e 5 28	PP
Matusiro		23·4	230	i 5	9 <sub>a</sub>	- 3	i 9 18	- 4	—	—
College		27·4	47	i 5	50	+ 1	—	—	i 6 44	PP
Resolute		42·2	22	—	—	—	e 14 14	- 3	—	—
Hungry Horse		50·6	59	e 9	2	- 1	—	—	i 10 18	PcP
Shasta	z.	51·3	72	e 9	8	0	—	—	—	—
Butte	N.	52·9	61	e 9	8	-12	—	—	—	—
Reno	z.	53·5	71	e 9	24	- 1	—	—	—	—
Sodankyla		53·9	340	i 9	28	+ 1	—	—	—	—
Lick	z.	54·0	74	e 9	27	- 1	—	—	—	—
Kiruna		54·7	343	i 9	32	- 1	—	—	—	—
Fresno		55·5	73	i 10	20	PcP	—	—	—	—
Eureka		55·7	69	i 9	40	0	—	—	i 10 8	PcP
Tinemaha	z.	56·1	72	e 9	47	+ 3	—	—	e 10 15	PcP
King Ranch	z.	56·5	75	e 9	50	+ 3	—	—	e 10 19	PcP
Woody	z.	56·8	74	i 9	46 <sub>a</sub>	- 2	—	—	i 10 30	PcP
Salta Lake City		57·0	65	e 9	54	+ 4	—	—	—	—
China Lake	z.	57·4	73	e 9	51	- 2	—	—	—	—
Pasadena		58·3	74	i 9	57	- 2	e 17 58	- 2	i 10 29	PcP
Boulder City		58·8	71	i 10	5	+ 2	—	—	i 10 27	PcP
Riverside	z.	58·8	74	e 10	1	- 2	—	—	10 32	PcP
Rapid City	E.	59·0	57	i 10	5	+ 1	—	—	—	—
Palomar	z.	59·6	74	i 10	7	- 1	—	—	i 10 38	?
Skalstugan		59·9	344	i 10	9 <sub>a</sub>	- 1	—	—	—	—
Hayfield	N.	60·0	73	e 10	44	PcP	—	—	—	—
Barrett	z.	60·2	75	e 10	11	- 1	—	—	e 10 36	PcP
Stalinabad		60·8	296	e 10	35	+19	—	—	—	—
Moscow		60·8	327	e 10	15	- 1	—	—	—	—
Boulder		60·9	61	i 10	19	+ 2	—	—	—	—
Upsala		62·4	340	i 10	27	0	—	—	—	—
Tucson		63·8	71	e 10	35	- 1	—	—	—	—
Kirkland Lake	z.	65·9	40	e 10	47	- 3	—	—	—	—
Quetta		68·1	291	e 11	1	- 3	—	—	e 11 42	PcP
Fayetteville		69·6	56	i 11	10 <sub>a</sub>	- 3	—	—	—	—
Hamburg	z.	69·8	342	i 11	16 <sub>k</sub>	+ 2	—	—	—	—
Ottawa		69·8	39	e 11	12	- 2	—	—	—	—
Lwow		70·0	332	i 11	16	0	—	—	—	—
Jena	z.	72·0	340	e 11	28	0	—	—	—	—
Rathfarnham C.	z.	72·3	352	i 11	28 <sub>k</sub>	- 1	—	—	i 12 26	?
Stuttgart		74·6	341	e 11	42	- 1	—	—	—	—
Strasbourg		75·0	342	i 11	46 <sub>a</sub>	+ 1	—	—	—	—
Ebingen		75·2	341	e 11	46	0	—	—	—	37·5
Paris		75·7	345	i 11	49	0	—	—	i 12 0	PcP
Besançon		76·6	342	i 11	54	0	—	—	—	e 40·5
Neuchatel		76·7	342	i 12	0	+ 5	—	—	—	—
Florence	z.	78·9	338	e 12	6	- 1	—	—	—	—
Ksara		80·2	316	i 12	13	- 1	—	—	—	—
Rome		80·4	336	e 12	15	0	e 22 35	+14	—	—
Taranto		80·5	332	e 11	58	-17	—	—	—	—
Safed		81·1	316	i 12	20	+ 2	—	—	12 38	PcP
Messina		83·1	332	e 12	27	- 2	e 22 45	- 4	e 12 33	PcP
Malaga		88·5	348	e 12	58	+ 2	e 23 40	- 1	16 34	PP
Tamanrasset		100·3	337	e 13	48	- 2	—	—	—	49·9

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1956

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Aug. 30d. 4h. 24m. 26s. Epicentre 53°·8N. 164°·02W. Focus at Base of Superficial Layers

A = -·5702, B = -·1633, C = +·8051;  $\delta$  = -2;  $h$  = -7;  
D = -·257, E = +·961; G = -·774, H = -·222, K = -·593.

	$\Delta$	Az.	P.	O - C.	S.	O - C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
College	13·8	30	e 3 12	- 3	e 5 44	- 4	—	i 6·9
Sitka	16·5	67	i 3 58	+ 6	i 7 7	+14	—	e 8·6
Petropavlovsk	22·1	283	e 4 55	+ 1	—	—	—	—
Magadan	25·1	301	e 5 24	0	—	—	e 10 41	SS
Horseshoe Bay	25·4	83	e 5 26	0	—	—	—	—
Victoria	25·7	85	e 5 29	0	—	—	e 8 58	PcP
Seattle	26·8	86	e 5 49	+ 9	e 10 28	+18	e 6 28	PP
Corvallis	z. 27·8	93	e 5 58	+ 9	e 11 8	+41	—	—
Banff	z. 29·2	75	i 5 59	- 1	—	—	—	—
Shasta	z. 30·7	98	i 6 19	+ 4	—	—	—	—
Hungry Horse	31·3	79	e 6 19	0	e 11 23	0	e 7 27	PP
Berkeley	32·6	102	e 6 41	+ 9	e 11 47	+ 4	e 13 46	SS
Honolulu	32·8	170	i 6 28	- 4	e 11 38	- 8	—	e 14·6
Reno	z. 32·9	97	e 6 37	+ 3	—	—	—	e 14·4
Tiksi	33·2	328	e 6 35	- 1	e 11 57	+5	e 9 13	PcP
Lick	z. 33·3	102	e 6 35	- 2	—	—	—	—
Butte	N. 33·4	82	e 6 46	+ 8	e 12 1	+ 6	—	e 14·3
Resolute	33·7	27	i 6 39 <sub>a</sub>	- 1	e 12 1	+ 1	e 7 48	PP
Saskatoon	33·8	69	e 5 38	-63	e 12 1	- 1	—	e 13·6
Yuzno-Sakhlinsk	33·9	280	i 6 44	+ 1	—	—	i 7 27	?
Bozeman	34·5	82	e 6 46	- 2	—	—	—	—
Eureka	35·2	94	i 6 52	- 1	e 12 12	-11	i 7 44	?
Tinemaha	35·5	99	e 6 57	0	i 12 35	+ 7	i 8 19	PP
King Ranch	z. 35·8	103	e 7 3	+ 4	e 12 33	+ 1	e 7 46	?
Woody	z. 36·1	101	i 6 59 <sub>a</sub>	- 1	i 12 40	+ 3	i 8 39	PP
China Lake	z. 36·7	100	e 7 6	0	e 12 51	+ 5	—	—
Salt Lake City	36·9	89	e 7 8	0	e 12 51	+ 1	—	e 15·7
Pasadena	37·6	103	e 7 11	- 2	i 13 2	+ 2	i 8 45	PP
Riverside	38·1	102	e 7 17	- 1	e 13 4	- 4	—	19·0
Boulder City	38·2	97	i 7 18	- 1	—	—	i 8 15	?
Palomar	z. 38·9	102	i 7 23	- 1	e 13 22	+ 2	i 7 35	?
Barrett	39·5	103	e 7 28	- 1	i 13 34	+ 5	12 22	?
Rapid City	E. 39·9	78	i 7 34	0	—	—	e 8 58	PP
Boulder	41·2	85	e 7 45	+ 1	—	—	—	—
Vladivostok	42·4	282	i 7 54	0	—	—	e 17 57	ScS
Matusiro	42·9	270	i 7 58 <sub>a</sub>	0	14 18	- 1	18 2	ScS
Tucson	43·2	98	e 7 58	- 2	e 14 26	+ 2	e 9 37	PP
Changechun	45·8	288	e 8 18	- 2	—	—	—	e 21·8
Kirkland Lake	z. 50·2	60	e 8 53 <sub>a</sub>	- 2	—	—	—	e 17·9
Chicago	50·3	71	—	—	e 16 2	- 2	—	—
Chicago								e 23·8
Fayetteville	50·4	81	i 8 53 <sub>k</sub>	- 3	—	—	—	—
Irkutsk	51·3	308	9 3 <sub>k</sub>	- 0	e 11 4	PP	18 52	ScS
Terre Haute	52·0	73	e 8 4	-64	—	—	e 14 44	?
Scoresby Sund	53·1	15	e 9 18	+ 1	e 17 3	PPS	—	—
Peking	53·4	290	9 18 <sub>a</sub>	0	—	—	—	26·6
Ottawa	54·3	60	e 9 24 <sub>k</sub>	- 1	16 58	- 1	19 6	ScS
Seven Falls	55·6	56	—	—	17 17	+ 1	e 10 26	PcP
Pennsylvania	N. 56·3	65	—	—	e 17 23	- 2	—	—
Zô-Sè	56·8	278	9 45 <sub>a</sub>	+ 1	17 55	PS	—	—
Nanking	57·5	281	9 48 <sub>a</sub>	0	—	—	—	—
Washington	58·1	67	e 9 49	- 4	—	—	—	e 30·8
Apatity	58·3	352	e 9 52	- 2	e 18 4	+13	e 13 28	PPP
Palisades	58·3	63	e 9 50 <sub>a</sub>	- 4	i 17 54	+ 2	e 10 0	pP
Philadelphia	58·4	64	e 10 10	+15	e 17 51	- 3	e 21 49	SS
Kiruna	58·6	358	i 9 56 <sub>a</sub>	0	e 18 1	+ 5	e 18 15	PS
Sodankyla	58·9	355	i 9 57	- 1	e 12 10	PP	e 10 40	PcP
Chapel Hill	59·2	70	i 9 57	- 3	—	—	—	—
Columbia	59·4	73	e 9 59	- 3	i 18 3	- 4	e 12 46	PPP
Tacubaya	59·7	98	e 10 7	+ 2	e 18 11	+ 1	e 12 20	PP
Skalstugan	62·9	2	i 10 24 <sub>a</sub>	- 1	—	—	—	—

Continued on next page.



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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Semipalatinsk	63.0	320	e 10	26	0	—	—	—	—	—	—
Sverdlovsk	63.9	334	i 10	33	+ 1	20	25	ScS	10	55	PcP
Upsala	66.7	359	i 10	49 <sub>a</sub>	- 1	e 19	52	PS	—	—	—
Aberdeen	68.4	10	—	—	—	i 10	4	+ 6	—	—	28.6
Moscow	69.4	347	i 11	6	0	—	—	—	—	—	—
Copenhagen	70.8	2	i 11	16 <sub>a</sub>	0	e 20	48	PS	i 21	37	ScS
Rathfarnham Castle	71.7	14	i 11	20 <sub>a</sub>	0	i 14	15	PP	i 11	36	pP
Hamburg	72.9	4	e 11	30	+ 2	e 21	9	+ 19	e 20	58	SP
Witteveen	73.5	6	e 11	32	+ 1	—	—	—	—	—	e 45.1
De Bilt	74.1	7	e 11	34	0	e 21	4	0	e 14	26	PP
Kew	74.2	10	i 11	37 <sub>a</sub>	+ 1	e 21	11	+ 6	e 11	48	pP
Warsaw	74.3	357	i 11	37	+ 1	—	—	—	e 11	53	PcP
Tashkent	74.8	321	i 11	39	0	e 21	29	+ 17	e 14	12	PP
Jena	75.6	3	e 11	44	0	e 21	39	+ 18	e 15	9	PP
Cheb	76.4	2	i 11	49	0	e 22	2	PS	e 15	31	PP
Krakow	N. 76.5	357	e 11	36	- 13	—	—	—	e 11	48	pP
Raciborz	76.5	358	e 11	50	+ 1	—	—	—	—	—	—
Lwow	76.5	355	i 11	49	0	e 21	36	+ 5	i 12	0	PcP
Paris	77.1	9	i 11	53	0	e 21	58	SKS	e 14	53	PP
Karlsruhe	z. 77.4	5	e 11	55 <sub>a</sub>	+ 1	—	—	—	e 11	39	pP
Stalinabad	77.4	320	i 11	56	+ 2	i 21	46	+ 6	—	—	—
Shillong	z. 77.6	296	i 11	53 <sub>a</sub>	- 1	22	34	- 8	—	—	—
Stuttgart	77.6	5	i 11	56 <sub>a</sub>	0	e 22	1	+ 19	14	54	PP
Strasbourg	77.8	6	e 11	56	0	e 22	4	+ 19	e 14	52	PP
Ebingen	78.2	5	e 12	0	+ 1	—	—	—	e 12	20	pP
Basle	78.8	6	e 12	4	+ 2	—	—	—	—	—	—
Iasi	78.9	352	12	4	+ 1	—	—	—	—	—	—
Besançon	79.0	7	e 12	3	0	—	—	—	i 12	15	pP
Neuchatel	79.3	6	i 12	5	0	e 21	21	- 39	—	—	—
San Juan	79.9	73	i 12	5	- 2	—	—	—	—	—	—
Clermont-Ferrand	80.2	9	e 12	11	+ 1	e 22	29	+ 19	—	—	—
Simferopol	80.4	347	e 12	11	0	e 22	18	+ 6	e 15	20	PP
Dehra Dun	80.5	309	e 12	12	+ 1	e 22	17	+ 4	—	—	—
Timisoara	80.7	356	11	34 <sub>?</sub>	- 37	e 21	33	- 42	—	—	—
Trieste	80.9	2	i 12	22	+ 9	i 22	23	+ 6	23	18	PS
Pavia	81.2	5	e 12	21	+ 6	e 22	14	- 6	e 12	55	pP
Ashkabad	81.6	327	e 12	15	- 1	i 22	39	+ 15	—	—	—
Tiflis	81.7	339	i 12	20	+ 3	22	54	ScS	i 12	31	PcP
Bucharest	81.8	353	12	19	+ 1	22	34	+ 8	12	44	pP
Florence	82.7	3	e 12	24 <sub>k</sub>	+ 1	i 22	42	+ 6	e 15	48	PP
Goris	83.5	337	i 12	27	+ 1	i 22	51	ScS	12	33	PcP
Rome	84.6	3	i 12	33 <sub>a</sub>	+ 1	e 22	52	- 3	e 23	11	ScS
Chinchina	85.1	88	i 12	33	- 1	i 23	0	+ 1	—	—	—
Toledo	85.1	15	e 12	35	0	e 22	55	- 4	e 24	49	SKS
Lisbon	z. 85.3	19	e 12	38 <sub>k</sub>	+ 2	—	—	—	e 12	48	pP
Quetta	85.5	318	i 12	37 <sub>a</sub>	+ 1	e 23	3	0	—	—	—
Taranto	86.1	359	e 15	44	PP	23	14	+ 5	19	54	?
St. Vincent	86.9	72	e 12	39	- 3	—	—	—	—	—	49.9
Alicante	87.1	13	12	44	0	23	22	+ 3	16	8	PP
Granada	87.8	15	i 12	51 <sub>a</sub>	+ 3	i 23	43	+ 17	16	32	PP
Malaga	88.1	16	i 12	31 <sub>a</sub>	- 17	i 23	1	[- 11]	i 16	15	PP
Messina	88.4	0	e 12	52	+ 1	e 23	36	+ 5	e 23	20	SKS
Trinidad	88.7	74	e 12	49	- 2	—	—	—	—	—	—
Brisbane	89.1	217	i 12	53	0	—	—	—	—	—	—
Algiers Univ.	89.1	10	e 12	54	0	e 23	46	+ 9	e 16	22	PP
Ksara	91.5	343	i 13	4	+ 1	e 23	57	+ 2	e 16	42	PP
Hyderabad	E. 91.3	302	—	—	—	e 23	58	+ 1	—	—	—
Safed	91.9	344	i 13	8	+ 1	—	—	—	—	—	—
Bombay	92.7	307	e 13	24	+ 13	e 23	59	[+ 20]	—	—	—
Riverview	95.5	216	i 13	31 <sub>a</sub>	+ 7	e 24	43	9	—	—	—
Huancayo	z. 98.8	98	e 13	53	+ 14	—	—	—	—	—	—
Tamanrasset	103.2	10	e 14	8	+ 10	e 24	41	[+ 8]	e 25	51	sS
Lwiro	127.5	344	e 19	5	[+ 2]	—	—	—	e 19	17	pPKP
Astrida	127.7	342	e 19	6	[+ 3]	—	—	—	—	—	—
Uvira	128.7	343	e 19	6	[+ 1]	—	—	—	—	—	—
Pretoria	150.5	337	i 19	51 <sub>k</sub>	[+ 7]	—	—	—	—	—	—
Kimberley	154.1	342	i 19	57	[+ 8]	—	—	—	—	—	—

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1956

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Aug. 30d. 5h. 24m. 52s. Epicentre 40°·95N. 126°·42W.

A = -·4497, B = -·6095, C = +·6529;  $\delta = 0$ ;  $h = -2$ ;  
D = -·805, E = +·594; G = -·388, H = -·525, K = -·757.

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Ferndale		1·7	102	i 0	30	0	i 0	52	- 2	—	—	—	
Arcata		1·8	92	i 0	31	0	i 0	52	- 4	—	—	—	
Ukiah		3·1	125	i 0	50	0	i 1	18	-11	—	—	i 1·4	
Shasta	z.	3·1	93	i 0	50	0	—	—	—	—	—	—	
San Francisco	N.	4·4	135	e 1	9	0	—	—	—	—	—	—	
Berkeley		4·5	132	e 1	8	- 1	i 1	58	- 7	i 1	19	PP	3·3
Branner		4·8	136	i 1	14	0	i 2	9	- 3	—	—	—	—
Lick		5·2	133	i 1	19 <sub>a</sub>	0	e 2	15	- 7	i 1	24	PP	—
Reno	z.	5·2	103	e 1	20	0	i 2	30	+ 8	—	—	—	—
Seattle		7·3	22	i 1	52	+ 2	3	14	- 1	—	—	—	e 3·4
Tinemaha		7·5	119	e 1	55	+ 3	i 3	28	+ 8	—	—	—	—
King Ranch	z.	7·7	135	e 1	57	+ 1	e 3	26	+ 1	—	—	—	—
Victoria		7·9	15	e 1	57 <sub>a</sub>	0	—	—	—	—	—	—	—
Woody		7·9	129	i 1	58	0	i 3	26	- 4	—	—	—	4·1
Eureka		8·1	97	i 2	0	- 1	—	—	—	—	—	—	—
Isabella	N.	8·1	128	e 2	4	+ 2	e 3	34	- 4	—	—	—	—
China Lake	z.	8·6	124	i 2	9	0	—	—	—	—	—	—	—
Horseshoe Bay		8·7	14	e 2	10	0	e 3	49	- 1	—	—	—	—
Pasadena		9·4	133	i 2	18	- 1	i 4	2	- 5	—	—	—	e 4·3
Riverside	z.	10·0	131	i 2	26	0	i 4	17	- 5	—	—	—	—
Boulder City		10·3	115	i 2	38	+ 6	—	—	—	i 3	57?	—	e 6·1
Palomar	z.	10·7	132	i 2	39	+ 1	i 4	38	- 1	—	—	—	—
Salt Lake City		11·0	86	i 2	42	0	e 4	43	- 4	i 3	41?	—	e 5·2
Butte	N.	11·3	59	i 2	45	0	i 4	54	0	(5 15)	SSS	—	5·2
Barrett	z.	11·4	133	i 2	45	0	i 4	49	- 7	—	—	—	—
Hungry Horse		11·5	46	e 2	46	- 1	e 4	58	- 1	(5 22)	SSS	—	5·4
Bozeman		12·1	62	i 2	56	0	e 5	23	+ 9	(5 45)	SSS	—	5·8
Tucson		15·2	120	i 3	40	+ 3	e 6	10	-18	i 4	14	PPP	i 6·7
Boulder		16·1	86	i 3	49	0	—	—	—	—	—	—	—
Sitka		17·1	343	i 4	3	+ 1	—	—	—	—	—	—	e 8·2
Rapid City	E.	17·4	72	e 4	4	0	—	—	—	(7 51)	SSS	—	e 7·8
Saskatoon		17·5	44	i 4	11	+ 4	i 7	37	+16	—	—	—	e 9·3
Chihuahua		20·7	120	e 4	40 <sub>a</sub>	- 3	e 8	43	+12	—	—	—	e 10·4
Fayetteville		25·6	90	i 5	33	- 1	e 10	14	+15	e 6	34	PPP	15·1
College		26·9	340	i 5	43	0	i 6	19	PP	e 9	5	PcP	—
Chicago		29·0	75	e 6	3	0	e 10	43	-11	(12 46)	SSS	—	12·8
Terre Haute		29·7	80	i 7	38	PPP	—	—	—	—	—	—	—
Tacubaya		31·6	125	e 6	26	0	e 11	32	- 3	e 7	38	PPP	e 15·6
Kirkland Lake	z.	33·4	62	6	32 <sub>k</sub>	- 9	—	—	—	—	—	—	—
Columbia		36·4	86	i 7	8	+ 1	e 12	21	-29	e 8	22	PP	e 17·6
Ottawa		36·7	66	e 7	11 <sub>k</sub>	+ 1	13	3	+ 9	8	36	PP	—
Resolute Bay		36·8	13	—	—	—	e 12	56	0	—	—	—	14·7
Merida		37·0	111	e 7	14	+ 2	e 13	16	+17	e 15	23	SS	—
Chapel Hill		37·1	82	i 7	14	+ 1	—	—	—	—	—	—	e 19·7
Washington		37·5	76	i 7	18	+ 1	—	—	—	—	—	—	e 17·0
Philadelphia		38·5	74	e 7	26	0	e 13	23	+ 1	e 10	35	?	e 18·6
Palisades		39·1	72	e 7	33 <sub>a</sub>	+ 3	e 13	22	- 9	e 7	58	pP	e 18·5
Seven Falls		39·7	62	e 7	35	0	13	43	+ 3	9	9	PP	e 21·1
Halifax		45·2	63	e 8	23	+ 3	—	—	—	—	—	—	—
San Juan		55·9	95	e 9	41	0	—	—	—	—	—	—	—
Scoresby Sund		56·5	23	—	—	—	e 17	38	+ 1	—	—	—	27·1
Chinchina		57·8	114	i 9	57	+ 2	i 18	5	+11	—	—	—	29·1
Bogota		59·1	113	e 10	8	+ 4	i 18	17	+ 6	—	—	—	28·1
Kiruna		68·7	13	i 11	5	- 1	i 20	10	0	e 20	39	PS	—
Sodankyla		70·1	11	i 11	14	0	—	—	—	i 11	36	PcP	—
Matusiro		70·7	302	11	18	0	—	—	—	(28 10)	SSS	—	28·2
Huancayo	z.	70·7	126	i 11	22	+ 3	—	—	—	—	—	—	—
Skalstugan		70·8	18	i 11	19	0	—	—	—	—	—	—	—
Upsala		75·3	18	i 11	45	0	e 21	23	- 3	—	—	—	—
La Paz	N.	78·6	124	12	8	+ 3	22	14	+12	22	48	PS	—

Continued on next page.

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Hamburg	78.6	25	i 11	58	- 6	—	—	—	—	—	e 41.1
Jena	81.4	25	e 12	28	+ 8	—	—	—	e 12	55	?
Strasbourg	82.1	29	e 12	26	+ 5	—	—	—	—	—	39.1
Stuttgart	82.4	28	e 12	26	+ 1	e 22	46	+ 5	e 23	44	PPS
Ebingen	82.9	28	e 12	28	+ 1	—	—	—	—	—	—
Bratislava	85.6	23	i 11	36	-64	—	—	—	i 22	0	?
Granada	86.3	42	—	—	—	e 23	7	- 2	—	—	42.8
Rome	89.5	29	—	—	—	e 22	26	[-64]	e 24	11	S
Taranto	92.5	27	—	—	—	23	8?	[-39]	—	—	e 47.5
Ksara	103.8	15	e 28	24	PPS	—	—	—	—	—	e 43.1

Sept. 6d. 11h. 46m. 35s. Epicentre 35°·63N. 25°·88E.

A = +.7329, B = +.3556, C = +.5800;  $\delta = -1$ ;  $h = 0$ ;  
D = +.437, E = -.900; G = +.522, H = +.253, K = -.815.

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Athens	2.9	324	e 0	45 <sub>a</sub>	- 3	e 1	25	+ 1	e 0	51	P*
Sofia	7.3	345	1	51	0	i 3	9	- 6	—	—	—
Taranto	8.4	308	1	57	- 8	3	2	-39	—	—	4.4
Ksara	8.4	99	i 2	5	- 1	i 3	39	- 4	—	—	i 4.6
Reggio Calabria	8.6	290	e 2	38	+31	—	—	—	—	—	—
Messina	8.7	290	e 2	7	- 3	i 3	44	- 5	i 2	45	?
Jerusalem	8.7	114	i 2	7 <sub>a</sub>	- 3	i 3	47	- 2	—	—	—
Bucharest	8.8	1	e 2	14	+ 3	e 3	39	-13	i 4	57	S <sub>s</sub>
Belgrade	10.1	337	e 2	30 <sub>k</sub>	+ 1	e 4	22	- 2	e 3	51	?
Timisoara	10.7	342	e 2	57	+19	—	—	—	—	—	e 5.8
Yalta	10.9	33	e 2	40	0	e 4	38	- 6	—	—	—
Simferopol	11.2	31	e 2	40	- 5	e 4	44	- 8	i 2	47	PP
Szeged	11.5	339	2	55	+ 7	5	2	+ 4	3	17	PPP
Iasi	11.6	6	e 2	56	+ 6	—	—	—	—	—	—
Kalossa	12.1	337	e 2	56	0	5	25?	SS	8	48	PcP
Rome	12.2	305	i 3	25	+27	i 5	53	+37	—	—	i 6.5
Budapest	12.9	339	e 3	13	+ 6	—	—	—	5	32	SS
Hurbanovo	13.5	337	—	—	—	e 5	47	0	—	—	e 6.2
Trieste	13.6	321	e 3	20?	+ 3	i 5	37	-12	e 4	18?	?
Florence	13.9	310	e 3	36	PP	e 5	47	- 9	—	—	i 7.5
Prato	14.0	310	e 3	39	PP	—	—	—	—	—	e 7.6
Bratislava	14.1	335	i 3	24	0	e 6	3	+ 1	i 3	43	PPP
Skalnate Pleso	14.2	345	e 3	25	+ 1	e 5	41	-21	—	—	—
Bologna	14.2	313	e 3	39	PP	—	—	—	—	—	—
Lwow	14.3	355	e 3	29	+ 4	i 6	17	+11	i 4	13	?
Pavia	15.9	312	e 4	15	PPP	e 7	0	SS	—	—	—
Tiflis	16.0	62	e 3	48	0	—	—	—	—	—	—
Monaco	16.3	305	e 3	50	- 2	—	—	—	e 4	8	PP
Goris	16.7	70	i 3	56	0	6	56	- 6	—	—	—
Prague	16.7	333	i 3	58	+ 1	i 7	3	+ 1	i 4	9	PP
Oropa	16.8	312	e 4	28	+30	e 7	17	SSS	—	—	—
Warsaw	16.9	350	e 4	6	+ 6	e 7	15	+ 7	e 4	16	PP
Ebingen	17.7	320	e 4	6	- 4	—	—	—	—	—	e 9.4
Stuttgart	18.0	322	e 4	13	0	e 7	32	0	—	—	e 8.4
Basle	18.1	317	e 4	9	- 5	e 7	33	- 1	—	—	—
Neuchatel	18.1	314	i 4	12	- 3	e 7	34	- 2	—	—	—
Jena	18.4	330	e 4	17	- 2	e 7	48	+ 5	e 4	29	PP
Algiers Univ.	18.5	280	e 4	19	0	e 7	49	+ 6	e 4	32	PP
Karlsruhe	18.5	321	e 4	22 <sub>a</sub>	+ 2	—	—	—	—	—	—
Strasbourg	18.6	320	e 4	23	+ 2	e 7	46	0	e 4	33	PP
Besançon	18.8	314	e 4	24	+ 1	—	—	—	—	—	—
Clermont-Ferrand	19.9	307	e 4	31	- 5	e 8	9	- 7	—	—	10.4
Relizane	20.6	278	e 4	46	+ 3	—	—	—	—	—	—
Hamburg	21.1	333	i 4	47	- 2	e 8	42	+ 2	e 8	34	S
Alicante	21.2	285	4	45	- 5	8	30	-11	5	6	PP

Continued on next page.

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		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L. m.	
				m.	s.		m.	s.		m.	s.		
Moscow		21.6	18	e 4	54	0	e 8	48	- 2	5	18	PP	—
Paris		21.6	315	e 4	45	- 9	e 8	46	- 4	e 5	12	PP	e 10.4
Tamanrasset	z.	21.8	240	e 4	56	0	e 8	55	+ 1	e 5	18	PP	—
Copenhagen		22.1	339	e 5	10	+12	e 9	1	+ 4	—	—	—	—
De Bilt		22.1	325	e 5	37	PPP	e 9	0	+ 2	—	—	—	e 10.4
Granada		23.7	282	i 5	46k	PP	i 9	34	+ 7	i 10	28	SS	13.7
Toledo		24.0	289	e 5	14	- 3	e 9	38	+ 6	10	40	SSS	14.8
Jersey	E.	24.5	312	e 5	48	PP	e 9	42	+ 1	—	—	—	—
Kew		24.5	318	—	—	—	e 9	45	+ 5	—	—	—	e 11.9
Helsinki		24.6	359	e 5	40	+17	e 9	48	+ 6	—	—	—	—
Upsala		24.8	350	i 5	25	0	i 9	46	0	—	—	—	—
Ashkabad		26.0	75	e 5	34	- 3	—	—	—	6	29	PPP	—
Durham		26.9	324	e 5	59	+14	i 10	27	+ 6	—	—	—	—
Aberdeen		28.6	328	—	—	—	e 10	21	-26	e 11	11	?	—
Rathfarnham C.	z.	28.6	318	i 6	12	+12	—	—	—	i 6	32	PP	—
Skalstugan		29.2	347	i 6	2	- 3	—	—	—	i 6	29	?	—
Sverdlovsk		31.5	37	6	22	- 4	—	—	—	—	—	—	—
Sodankyla		31.8	0	i 6	26	- 2	—	—	—	—	—	—	—
Kiruna		32.4	356	i 6	24	-10	—	—	—	i 6	41	P	—
Stalinabad		34.1	72	—	—	—	e 12	10	- 4	—	—	—	—
Quetta		34.7	87	e 6	53	- 1	e 12	23	- 1	—	—	—	—
Lwiro		37.8	175	e 7	22	+ 2	—	—	—	—	—	—	—
Frunse		38.0	64	e 7	20	- 1	e 13	11	- 3	—	—	—	—
Astrida		38.2	174	e 7	27 <sub>a</sub>	+ 4	—	—	—	—	—	—	—
Uvira		39.0	175	e 7	32	+ 2	—	—	—	—	—	—	—
Semipalatinsk		41.5	52	e 7	49	- 1	—	—	—	—	—	—	—
M'Bour		43.8	252	e 10	47	PPP	e 13	27	PcS	—	—	—	—
Chatra	z.	52.4	81	e 9	15	- 1	—	—	—	i 9	33	?	—
Shillong	z.	56.7	81	e 9	46	- 2	—	—	—	—	—	—	—
Tiksi		60.5	21	e 10	54	PcP	—	—	—	e 13	50	PPP	—
Pretoria	z.	61.1	178	e 10	26	+ 8	—	—	—	—	—	—	—
Resolute		63.4	345	—	—	—	e 18	40	-25	e 24	44	SSS	—
Kimberley	z.	64.0	181	i 10	39k	+ 1	—	—	—	—	—	—	—
Ottawa		72.8	314	e 11	32	0	—	—	—	—	—	—	—
Kirkland Lake	z.	73.7	318	i 11	41	+ 4	—	—	—	—	—	—	—
Palisades		74.1	309	—	—	—	e 21	19	+ 7	—	—	—	e 36.7
College		79.7	357	e 12	10	- 1	—	—	—	—	—	—	—
San Juan		81.1	286	e 12	20	+ 1	—	—	—	i 12	40	PcP	—
Baguio		84.3	74	i 12	39	+ 4	—	—	—	i 12	53	PcP	—
Banff		87.2	337	e 12	44	- 5	—	—	—	—	—	—	—
Rapid City	E.	88.2	326	e 12	52	- 2	—	—	—	—	—	—	—
Hungry Horse		89.1	335	e 12	56	- 2	—	—	—	—	—	—	—
Fayetteville		89.5	316	e 12	59	- 1	—	—	—	—	—	—	—
Bozeman		90.2	331	e 13	7	+ 3	—	—	—	—	—	—	—
Butte	N.	90.5	332	e 13	5	0	—	—	—	—	—	—	—
Boulder		92.3	325	e 13	15	+ 2	—	—	—	—	—	—	—
Eureka		97.4	331	e 13	34	- 3	—	—	—	—	—	—	—

Sept. 7d. 3h. 54m. 22s. Epicentre 18°-84S, 175°-73W. Depth of focus = 0.040R.

A = -0.9444, B = -0.0706, C = -0.3211;  $\delta = -2$ ;  $h = +5$ ;  
D = -0.074, E = +0.997; G = +0.320, H = +0.024, K = -0.947.

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		
				m.	s.		m.	s.		m.	s.	
Suva	N.	5.6	276	1	25	0	e 2	21	-10	—	—	
Apia		6.3	38	e 1	24	- 9	2	31	-15	—	—	
Onerahi	E.	19.0	205	e 4	3	0	—	—	—	—	—	
Karapiro	N.	20.5	200	e 4	17	0	—	—	—	—	—	
Wellington	N.	23.8	198	e 4	38	-11	—	—	—	—	—	
Cobb River	E.	24.3	202	e 4	57	+ 4	—	—	—	—	—	
Kaimata	N.E.	26.0	202	e 5	7	- 2	—	—	—	—	—	
Brisbane		29.9	247	i 5	44	0	—	—	—	—	—	
Riverview		33.0	236	i 6	10	- 1	—	—	—	10	47	?
Melbourne	z.	39.1	233	i 7	1	- 1	—	—	—	—	—	

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	
Matusiro	z.	70.2	322	i 10 44k	0	—	—	—	—
Baguio		71.8	295	i 10 55	+ 2	—	—	—	—
Berkeley	z.	75.5	41	i 11 15	0	—	—	—	—
Lick	z.	75.6	42	i 11 15	0	—	—	—	—
King Ranch	z.	75.6	44	e 11 20	+ 4	—	—	e 12 20	pP
Pasadena		76.0	46	i 11 16k	- 2	—	—	e 12 21	pP
Barrett	z.	76.2	48	e 11 18	- 1	—	—	—	—
Woody	z.	76.4	44	i 11 20k	0	—	—	i 12 19	pP
Riverside	z.	76.4	47	i 11 19k	- 1	—	—	e 12 21	pP
Palomar	z.	76.5	47	i 11 20	0	—	—	i 12 21	pP
Shasta	z.	77.2	39	i 11 25	+ 1	—	—	—	—
Hayfield	N.	77.5	48	i 11 26	0	—	—	—	—
Tinemaha	z.	77.6	44	e 11 27k	0	—	—	e 12 28	pP
Reno	z.	78.1	41	e 11 29	0	—	—	—	—
Boulder City		79.3	46	i 11 35	- 1	i 11 50	PcP	i 12 35	pP
Tucson		80.2	51	i 11 41	+ 1	—	—	e 12 40	pP
Eureka		80.4	43	i 11 41	- 1	—	—	i 12 38	pP
Victoria		81.6	32	i 11 48	0	—	—	—	—
Horseshoe Bay		82.3	31	i 11 51	0	—	—	—	—
Salt Lake City		83.8	43	i 11 59	0	—	—	e 12 58	pP
Tacubaya		84.1	67	—	—	—	—	e 13 28	sP
Butte	N.	86.1	38	e 12 11	+ 1	—	—	e 13 12	pP
College		86.1	12	i 12 9	- 1	e 12 25	PcP	i 13 12	pP
Hungry Horse		86.5	36	i 12 11	- 1	—	—	e 15 35	PP
Bozeman		86.8	39	e 12 14	0	—	—	—	—
Banff		87.3	33	12 16	0	—	—	—	—
Boulder		87.8	46	i 12 19	+ 1	—	—	—	—
Rapid City		91.0	43	e 12 34	+ 1	—	—	—	—
Fayetteville		94.3	53	i 12 48k	- 1	—	—	—	—
Quetta		122.5	294	e 18 24k	[+ 2]	—	—	—	—
Kiruna		130.0	352	i 18 36	[ 0]	—	—	—	—
Skalstugan		135.0	353	i 18 46	[ 0]	—	—	—	—
Rathfarnham C.	z.	144.6	11	i 19 4	[+ 1]	—	—	—	—
Hamburg	z.	145.1	354	i 19 6 <sub>a</sub>	[+ 1]	—	—	—	—
Witteveen	z.	146.0	357	i 19 9	[+ 3]	—	—	i 20 14	pP'
De Bilt		146.8	359	e 19 11	[+ 4]	—	—	—	—
Uvira		147.0	230	e 19 13k	[+ 6]	—	—	e 20 18	pP'
Astrida		147.1	232	e 19 13k	[+ 6]	—	—	20 24	pP'
Kew	z.	147.2	5	e 19 10	[+ 3]	—	—	e 20 15	pP'
Jena		147.5	351	e 19 9	[+ 1]	—	—	e 20 14	pP'
Prague		147.8	348	e 19 12	[+ 4]	—	—	i 20 16	pP'
Lwiro		148.0	232	e 19 16k	[+ 8]	—	—	e 20 31	pP'
Jerusalem		149.3	301	i 19 18	[+ 8]	—	—	i 20 21	pP'
Stuttgart		149.9	353	e 19 12	[+ 1]	e 19 18	PKP <sub>2</sub>	e 20 20	pP'
Paris		150.1	2	i 19 18	[+ 6]	—	—	i 20 24	pP'
Strasbourg		150.2	355	i 19 19k	[+ 7]	e 19 26	PKP <sub>2</sub>	—	—
Ebingen		150.5	354	e 19 19	[+ 7]	—	—	—	—
Clermont-Ferrand		153.1	2	e 19 27	[+11]	—	—	—	—
Granada		160.5	19	i 24 7 <sub>a</sub>	PP	—	—	—	—
Tamanrasset	z.	175.9	344	e 19 39	[+ 3]	—	—	25 11	PP

Sept. 8d. 18h. 8m. 9s. Epicentre 76°-85N. 7°-63E.

A = +.2269, B = +.0304, C = +.9734;  $\delta = -8$ ;  $h = -13$ ;  
D = +.133, E = -.991; G = +.965, H = +.129, K = -.229.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Kiruna	9.8	150	i 2 21	- 4	—	—	i 2 27	PP
Scoresby Sund	10.3	247	e 2 33	+ 1	e 4 30	0	—	5.0
Sodankyla	11.1	139	i 2 38	- 4	—	—	i 2 44	PP
Skalstugan	13.4	171	i 3 14	0	—	—	i 3 21	PP
Upsala	17.4	163	e 3 44	-22	—	—	i 4 4	PP

Continued on next page.



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	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Aberdeen	20.1	196	i 4 35	- 2	i 8 16	- 3	i 4 48	PP
Copenhagen	21.3	172	e 4 51	+ 1	e 8 51	+ 8	—	11.0
Resolute	22.3	317	i 5 2k	+ 2	e 8 46	-16	e 9 36	SS
Hamburg	23.4	176	i 5 15k	+ 4	e 9 14	SS	—	e 11.5
Rathfarnham C. z.	24.2	201	e 5 20	+ 1	—	—	e 6 8	PP
De Bilt	24.9	184	e 5 28	+ 3	e 10 1	+14	—	—
Warsaw	25.2	160	e 5 31	+ 2	e 10 8	+16	e 5 48	PP
Kew	25.7	191	e 5 32	- 1	e 10 9	+ 8	—	—
Jena	26.1	174	e 5 37	+ 1	—	—	—	—
Stuttgart	28.2	178	e 5 56	0	e 10 59	+18	—	—
Paris	28.2	187	e 5 55	- 1	e 11 0	+19	e 7 2	PPP
Strasbourg	28.4	180	—	—	11 51	+ 6	—	—
Bratislava	29.0	167	e 6 2	- 1	—	—	—	—
Florence	33.2	175	e 7 8	+28	e 12 34	+34	—	—
Rome	35.1	174	—	—	e 12 32	+ 2	—	e 16.8
College	37.7	343	i 7 19	+ 1	—	—	—	—
Messina E.	38.9	170	—	—	e 13 23	- 5	e 16 17	SS
Granada	40.1	194	e 7 23a	-15	—	—	(17 3)	SSS
Algiers Univ. z.	40.2	186	e 7 41	+ 1	—	—	e 9 20	PP
Seven Falls	42.1	273	—	—	14 22	+ 6	—	—
Kirkland Lake z.	43.2	282	e 8 4	0	—	—	—	—
Ottawa	44.8	277	e 8 17k	0	—	—	—	—
Ksara	45.0	146	e 8 19	+ 1	—	—	i 10 3	PP
Hungry Horse	49.8	312	i 8 56	0	—	—	i 10 17	PcP
Victoria	51.2	320	e 9 6	0	—	—	—	—
Butte	51.8	310	e 9 12	0	—	—	—	—
Quetta	54.0	113	e 9 28a	+ 1	e 17 8	+ 6	—	—
Tamanrasset z.	54.1	182	e 9 29	0	—	—	—	—
Boulder	56.3	301	i 9 44	0	—	—	—	—
Fayetteville	57.8	290	i 9 54k	- 1	—	—	—	—
Shasta z.	58.6	317	e 10 30	+29	—	—	—	—
Eureka	58.8	311	i 10 2	0	—	—	i 10 52	PcP
Reno z.	59.4	314	e 10 7	+ 1	—	—	—	—
Ukiah	60.3	317	i 10 14	+ 2	—	—	—	—
Berkeley z.	61.4	316	e 10 21	+ 1	—	—	—	—
Tinemaha z.	61.5	312	e 10 22	+ 1	—	—	—	—
Lick z.	61.8	316	e 10 23	0	—	—	—	—
Boulder City	62.0	309	i 10 25	+ 1	—	—	—	—
Matusiro	62.8	43	e 10 30	+ 1	—	—	—	—
Isabella z.	62.9	312	e 10 30	0	—	—	—	—
Woody z.	63.0	313	e 10 30	0	—	—	—	—
King Ranch z.	63.5	313	e 10 33	- 1	—	—	—	—
Shillong z.	64.0	89	i 10 36	- 1	—	—	—	—
Pasadena	64.3	312	i 10 39	0	—	—	—	e 31.0
Riverside z.	64.4	311	e 10 39	- 1	—	—	—	—
Tucson	64.9	305	i 10 43	0	—	—	—	—
Palomar z.	64.9	310	e 10 43	0	—	—	—	—
Barrett z.	65.5	310	e 10 47	0	—	—	—	—

Sept. 11d. 2h. 32m. 31s. Epicentre 16°-22S. 178°-33E.

A = -0.9603, B = +0.0280, C = -0.2776;  $\delta = +2$ ;  $h = +5$ ;  
D = +0.029, E = +1.000; G = +0.277, H = -0.008, K = -0.961.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	°	°	m. s.	s.	m. s.	s.	m. s.	m.
Suva	1.9	177	i 0 34	0	—	—	—	—
Apia	9.9	77	e 2 23	- 2	—	—	—	—
Onerahi E.	19.8	190	e 4 34	0	—	—	—	8.5
Karapiro N.	21.8	186	e 4 55	0	e 9 1	+ 9	—	—
Tuai N.	22.5	182	e 5 11	+ 8	—	—	—	—

Continued on next page.

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		$\Delta$ °	Az. °	P. m. s.		O-C. s.	S. m. s.		O-C. s.	Supp. m. s.		L. m.
Wellington		25.2	186	i 5	25	- 3	e 9	45	- 7	—	—	—
Cobb River	E.	25.2	190	e 5	27	- 2	—	—	—	—	—	—
Brisbane		26.0	240	i 5	34	- 2	i 10	3	- 2	—	—	—
Kaimata	N.E.	26.9	191	e 5	49	+ 5	—	—	—	—	—	—
Rabaul		28.3	292	e 6	0	+ 3	—	—	—	e 7	31	?
Riverview		30.1	229	i 6	12	- 1	i 11	16	+ 4	i 7	28	PPP
Melbourne		36.4	227	i 7	6	- 2	i 13	3	+13	i 8	40	PP
Perth	z.	58.4	242	9	58	- 2	i 18	11	+ 9	e 24	46	SSS
Matusiro		64.7	325	e 10	39	- 3	e 19	17	- 5	e 15	1	PcS
Baguio		65.5	297	i 10	55	+ 8	e 18	37	+ 5	—	—	—
Bandung		69.6	269	e 11	13	0	e 20	24	+ 3	—	—	—
Djakarta		70.6	269	i 11	15 <sub>a</sub>	- 4	e 20	33	+ 1	e 13	51	PP
Zô-Sè		72.3	311	e 11	32	+ 3	e 20	52	0	14	19	PP
Hong Kong		73.6	300	e 11	37?	0	e 20	29?	-37	—	—	—
Nanking		74.5	311	e 11	44	+ 2	—	—	—	—	—	—
Changchun		76.9	324	e 11	53	- 3	—	—	—	—	—	—
Berkeley		77.4	44	i 11	58	- 1	e 21	58	+ 9	e 24	57	?
Ukiah		77.5	43	i 11	59	0	—	—	—	—	—	e 35.3
Lick	z.	77.6	45	i 12	0	+ 1	—	—	—	—	—	—
King Ranch	z.	77.9	48	i 12	2	+ 1	—	—	—	e 15	0	PP
Pasadena		78.4	49	i 12	3	- 1	i 22	10	+10	i 15	10	PP
Fresno	F.	78.6	46	e 12	6	+ 1	—	—	—	—	—	e 34.8
Woody	z.	78.7	48	i 12	4	- 2	—	—	—	i 15	7	PP
Barrett	z.	78.9	51	e 12	7	+ 1	—	—	—	—	—	—
Shasta	z.	78.9	42	i 12	5	- 2	—	—	—	—	—	—
Riverside	z.	78.9	50	i 12	6	- 1	—	—	—	e 14	52	PP
Isabella	z.	78.9	48	i 12	6	- 1	—	—	—	—	—	—
Palomar	z.	79.0	50	i 12	7	0	—	—	—	i 12	29	PcP
Mineral	z.	79.2	42	e 12	7	- 1	—	—	—	—	—	—
Tinemaha	z.	79.8	47	e 12	12	0	—	—	—	—	—	—
Hayfield	N.	80.1	51	e 12	13	0	—	—	—	—	—	—
Peking		80.4	316	12	13 <sub>a</sub>	- 2	e 22	24	+ 3	—	—	—
Corvallis	z.	80.4	38	i 12	22	+ 7	—	—	—	—	—	—
Boulder City		81.7	49	i 12	21	- 1	—	—	—	i 12	53	PcP
Eureka		82.5	45	i 12	25	- 1	—	—	—	i 15	34	PP
Victoria		82.6	35	i 12	26	0	e 22	47	+ 4	—	—	e 37.5
Seattle	z.	82.7	36	i 12	29	+ 2	—	—	—	—	—	—
Tucson		83.1	54	e 12	30	+ 1	—	—	—	—	—	—
Horseshoe Bay		83.2	34	e 12	27	- 2	—	—	—	—	—	—
College		84.8	14	e 12	35	- 3	i 23	3	- 3	e 24	28	PS
Salt Lake City		85.9	46	i 12	42	- 1	e 23	14	- 2	e 16	2	PP
Butte	N.	87.7	41	e 12	52	0	—	—	—	—	—	—
Hungry Horse		87.9	38	e 12	52	- 1	—	—	—	—	—	—
Tacubaya		88.4	69	e 12	55	0	—	—	—	e 16	28	PP
Bozeman		88.5	41	e 12	56	0	—	—	—	—	—	—
Rapid City		93.1	45	e 13	17	0	—	—	—	i 17	7	PP
Shillong		93.8	295	e 13	18	- 2	e 24	8	{- 1}	e 19	13	PPP
Fayetteville		97.4	55	i 13	36 <sub>a</sub>	0	—	—	—	—	—	—
Resolute		104.7	16	—	—	—	e 24	23	[-26]	e 31	52	?
Palisades		113.8	52	—	—	—	—	—	—	e 35	26	SSS
Quetta		116.2	296	e 18	52	[+ 7]	—	—	—	—	—	—
Kiruna		126.5	350	i 19	9	[+ 4]	—	—	—	e 21	1	PP
Kimberley	z.	128.5	210	i 19	13	[+ 4]	—	—	—	—	—	—
Skalstugan		131.7	352	e 19	15	[0]	—	—	—	—	—	—
Upsala		134.2	346	e 19	23	[+ 3]	—	—	—	i 22	49	PKS
Copenhagen		139.1	348	e 19	29	[0]	—	—	—	e 23	15	PKS
Warsaw		139.8	338	e 19	32	[+ 2]	e 26	56	[+17]	e 23	17	PKS
Hamburg		141.6	349	e 19	36	[+ 3]	—	—	—	e 23	17	PKS
Ksara		142.0	304	i 19	36	[+ 2]	e 26	47	[+ 9]	i 23	7	PKS
Witteveen	z.	142.9	352	i 19	38	[+ 3]	—	—	—	—	—	76.5

Continued on next page.

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	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Bucharest	143.4	326	e 20 22	?	—	—	e 23 5	PP	72.2
Astrida	143.8	242	e 19 36k	[- 1]	—	—	e 20 33	?	—
Jena	z. 143.8	346	e 19 35	[- 2]	—	—	e 26 4	PPP	—
De Bilt	143.8	353	e 19 37	[ 0]	e 41 35	SS	e 22 53	PP	e 72.5
Uvira	143.8	240	e 19 41a	[+ 4]	—	—	—	—	—
Prague	E. 143.8	342	e 19 46	[+ 9]	—	—	e 22 45	PP	—
Bratislava	144.6	338	i 19 38	[ 0]	—	—	e 22 44	PP	—
Lwiro	144.7	241	c 19 39a	[ 0]	—	—	e 21 0	?	—
Kew	144.8	358	e 19 38	[- 1]	—	—	—	—	e 71.5
Belgrade	145.9	331	e 19 46a	[+ 5]	—	—	e 22 9	?	—
Sofia	z. 146.0	326	i 19 41	[ 0]	—	—	—	—	—
Karlsruhe	z. 146.3	348	e 19 43k	[+ 2]	—	—	e 20 59	PKP <sub>2</sub>	—
Stuttgart	146.3	347	e 19 41	[ 0]	—	—	e 20 45	?	e 74.5
Strasbourg	146.8	348	e 19 42	[ 0]	—	—	e 23 3	PP	e 71.5
Ebingen	146.9	347	e 19 43	[+ 1]	—	—	—	—	—
Paris	147.3	355	i 19 47	[+ 4]	—	—	e 23 8	PP	c 71.5
Basle	147.9	348	e 19 49	[+ 5]	—	—	—	—	—
Trieste	147.9	339	i 19 45	[+ 1]	e 26 58	[+ 7]	e 23 19	PP	—
Besançon	148.4	350	i 19 49	[+ 4]	—	—	—	—	—
Oropa	149.6	347	e 19 55	[+ 8]	—	—	43 29	SS	—
Pavia	149.7	345	e 19 53a	[+ 6]	—	—	e 23 9	SKP	—
Bologna	149.7	341	e 19 59	[+ 12]	—	—	e 43 29	SS	—
Clermont-Ferrand	150.3	353	e 19 54	[+ 6]	—	—	—	—	76.5
Florence	150.4	341	e 19 44	[- 4]	i 23 23	SKP	—	—	—
Monaco	151.5	346	e 19 56	[+ 6]	—	—	e 20 37	?	—
Rome	151.7	337	i 20 0	[+ 10]	e 43 23	SS	e 23 27	PP	—
Messina	153.4	329	e 19 52	[ 0]	—	—	e 43 25	SS	—
Toledo	z. 156.3	5	i 20 26	PKP <sub>2</sub>	—	—	22 4	?	—
Alicante	157.9	357	19 55	[- 3]	27 0	[- 3]	24 10	PP	—
Granada	159.0	4	20 42k	PKP <sub>2</sub>	27 33	[+ 29]	24 24	PP	76.1
Tamanrasset	z. 170.6	315	e 20 11	[+ 2]	—	—	e 25 23	PP	—

Sept. 11d. 9h. 54m. 37s. Epicentre 13°·54N. 91°·19W. Depth of Focus = 0·005R.

A = -·0202, B = -·9724, C = +·2326;  $\delta$  = +7;  $h$  = +6;  
D = -1·000, E = +·021; G = -·005, H = -·233, H = -·973.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
San Salvador	1.9	84	c 0 31	0	—	—	—	—
Comitan	2.8	342	e 0 45	+ 1	i 1 18	0	i 2 2	?
Oaxaca	6.4	304	e 1 35	+ 1	e 2 51	+ 5	—	—
Vera Cruz	7.4	321	i 1 38	- 9	i 3 8	- 2	—	—
Merida	7.5	11	i 1 49k	- 1	i 3 21	+ 7	i 3 35	SS
Puebla	8.7	310	e 2 15	+ 10	e 3 45	+ 3	—	—
Tacubaya	9.6	308	i 2 17k	- 2	i 4 9	+ 3	i 2 36	PP
Guadalajara	13.6	303	e 3 9	- 2	—	—	i 8 25	PcP
Galerazamba	15.8	98	i 5 8	+ 88	i 5 32	- 61	i 7 12	?
Mobile	17.3	9	e 4 2k	+ 3	i 7 8	+ 1	—	—
Mazatlan	17.3	306	—	—	e 7 41	SSS	—	—
Chinchina	17.6	118	i 4 2a	0	i 7 34	SS	—	—
Bogota	19.1	116	i 4 21k	+ 1	i 8 3	+ 16	—	—
Chihuahua	20.4	320	e 4 31	- 3	e 8 15	0	—	—
Columbia	22.4	23	e 4 53	- 1	i 9 8	+ 17	i 5 8	pP
Fayetteville	22.6	354	i 4 56k	0	—	—	e 6 27	?
Chapel Hill	24.8	24	e 6 16	PPP	—	—	—	—
St. Louis	25.0	2	e 5 18a	- 2	e 6 7	PPP	i 5 34	pP
Florissant	25.1	2	e 5 18a	- 1	10 44	SS	—	—
Chicago	28.3	6	e 5 46	- 4	e 10 38	+ 8	—	—
Cleveland	29.1	15	i 5 59k	+ 2	e 10 54	+ 11	e 6 10	pP
Fort-de-France	29.1	84	—	—	e 10 51	+ 8	—	—
Huancayo	z. 29.9	148	e 6 0	- 4	—	—	e 6 36	sP
Hayfield	N. 29.9	316	e 6 13	+ 9	—	—	—	—
Barrett	z. 30.1	314	e 6 9	+ 4	e 11 6	+ 8	—	—

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Palomar	z.	30.6	314	e 6 10	0	—	—	—	—
Boulder City		30.8	321	e 6 11	- 1	i 11 27	+17	i 6 43	sP
Palisades		31.3	26	e 6 12	- 4	e 11 24	+ 7	e 12 24	ScP
Riverside	z.	31.3	315	e 6 16 <sub>a</sub>	0	—	—	e 9 10	PcP
Pasadena		31.9	315	e 9 21	- 1	i 11 35	+ 8	e 7 33	PP
Rapid City	e.	32.1	344	e 6 36	+12	—	—	e 7 39	PP
Salt Lake City		32.6	330	e 6 27	- 1	e 11 53	+15	i 6 50	pP
Isabella	z.	33.0	317	e 6 29 <sub>a</sub>	- 2	—	—	e 9 12	PcP
Woody	z.	33.3	316	e 6 33	0	—	—	e 7 35	PP
Tinemaha	z.	33.6	319	e 6 38	+ 1	i 12 4	+10	e 9 19	PcP
King Ranch	z.	33.6	315	e 6 35	- 2	—	—	e 7 2	sP
Eureka		33.8	324	i 6 39	+ 1	—	—	i 7 20	sP
Ottawa		34.4	19	i 6 41 <sub>a</sub>	- 2	12 15	+10	7 13	pP
Kirkland Lake	z.	35.7	13	e 6 52	- 3	—	—	—	—
Lick	z.	36.0	317	e 6 54	- 3	—	—	—	—
Bozeman		36.2	336	e 6 58	0	e 12 48	+15	—	—
Santa Clara		36.2	316	e 7 1	+ 2	e 12 49	+15	—	—
Berkeley		36.7	317	e 7 3	0	e 12 53	+12	e 17 23	ScS
Butte	n.	37.1	335	e 7 6	0	e 12 49	+ 2	i 7 35	pP
Seven Falls		37.6	23	e 7 8	- 2	12 53	- 1	17 27	ScS
Mineral	z.	37.7	321	e 7 10	- 1	—	—	—	—
Shasta		38.4	321	e 7 3	-14	—	—	—	—
Halifax		38.9	32	i 8 28	?	—	—	—	—
Hungry Horse		39.5	336	e 7 27	+ 1	—	—	e 9 35	PcP
Saskatoon		40.4	345	—	—	e 17 23	ScS	—	—
Corvallis	z.	41.3	325	e 7 40	- 1	—	—	—	—
Seattle	z.	42.7	329	e 7 58	+ 5	e 14 41	PPS	e 8 58	?
Victoria		43.9	329	i 8 1	- 1	—	—	—	—
Horseshoe Bay		44.4	330	i 8 5	- 1	e 14 53	PS	—	—
Resolute		61.2	359	e 10 10	0	e 18 11	-12	e 13 42	PPP
College		64.0	337	i 10 27	- 2	—	—	e 20 22	ScS
Jersey	e.	79.3	42	e 17 43	?	—	—	—	—
Kew		80.1	39	e 12 5	0	e 22 24	+21	—	—
Paris		82.3	42	e 12 12	- 4	e 23 16	PS	—	—
De Bilt		83.3	38	e 12 23	+ 2	e 22 46	+10	—	—
Clermont-Ferrand		83.4	45	—	—	e 22 48	+12	—	—
Skalstugan		83.9	26	i 12 24	0	—	—	—	—
Algiers Univ.	z.	85.4	53	e 12 30	- 2	e 22 58	+ 2	—	—
Kiruna		85.5	21	e 12 34	+ 2	i 22 59	+ 2	e 24 2	PS
Strasbourg		85.8	41	e 12 33	- 1	e 23 6	+ 6	e 24 8	PS
Stuttgart		86.6	41	e 12 37	- 1	23 5?	- 3	—	—
Oropa		86.7	44	e 13 3	+25	e 23 55	PS	—	—
Jena	z.	87.5	38	e 12 44	+ 2	e 23 39?	+23	—	—
Upsala		87.6	29	i 12 43	+ 1	e 23 6	-11	—	—
Florence		89.5	45	e 12 35	-17	e 23 30	- 5	—	—
Trieste		90.6	43	e 13 23	+26	i 23 34	SKKS	e 16 50	PP
Tamanrasset	z.	90.9	66	e 13 3	+ 5	—	—	—	—
Rome		91.0	46	i 13 1 <sub>k</sub>	+ 3	e 23 35	-13	e 13 21	pP
Warsaw		92.4	35	13 8	+ 3	e 23 44	-17	e 16 56	PP
Messina	e.	94.4	49	e 13 14	0	e 24 23	+ 5	e 23 50	SKS
Taranto		94.8	47	e 17 23	PP	—	—	—	—
Bucharest	n.	99.0	40	—	—	24 17	[+ 9]	—	—
Ksara		111.0	45	e 19 33	PP	—	—	—	—
Matusiro		111.8	319	e 17 36	[-51]	26 12	SKKS	e 19 25	PP
Quetta		131.7	26	e 19 7	[+ 1]	—	—	—	—
Poona		144.9	25	i 19 40	[+10]	—	—	—	—

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Sept. 11d. 21h. 4m. 5s. Epicentre 49°·55N, 155°·4E. Depth of focus 0.005R.

A = -·5922, B = +·2711, C = +·7588;  $\delta$  = -3;  $h$  = -5;  
D = +·416, E = +·909; G = -·690, H = +·316, K = -·651.

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Petropavlovsk	4·1	28	i 1	1	- 1	i 1	48	- 2	i 1	23	sP	—
Klyuchi	7·5	23	e 1	50	+ 1	e 3	22	+ 8	—	—	—	—
Uglegorsk	8·7	272	i 2	10	+ 4	i 3	57	+13	e 2	32	sP	—
Yuzno-Sakhlinsk	8·8	258	i 2	10	+ 2	i 3	58	+11	i 2	34	sP	—
Nemuro	9·2	231	e 2	9	- 3	e 3	48	- 7	e 4	11	SS	—
Abashiri	9·4	238	e 2	18	+ 3	—	—	—	—	—	—	—
Kusiro	10·0	233	e 2	21	- 3	e 4	12	- 4	e 4	39	SSS	—
Magadan	10·4	347	i 2	30	+ 2	i 4	36	+12	—	—	—	—
Asahigawa	10·6	242	e 3	19	?	—	—	—	—	—	—	—
Obihiro	10·7	236	e 2	31	- 2	—	—	—	—	—	—	—
Urakawa	11·5	235	e 2	44	+ 1	e 4	55	+ 4	—	—	—	e 5·5
Sapporo	11·7	242	e 2	48	+ 2	e 5	5	+10	e 3	8	PPP	—
Tomakomai	11·9	239	e 2	50	+ 1	e 5	7	+ 6	—	—	—	—
Muroran	12·4	240	e 2	58	+ 3	e 5	13	+ 1	—	—	—	—
Mori	N. 12·7	240	e 3	0	0	e 5	30	+ 9	e 3	52	?	—
Aomori	13·5	235	e 3	11	+ 1	e 5	36	- 3	—	—	—	—
Morioka	14·1	231	e 3	14	- 4	e 5	38	-15	—	—	—	e 7·2
Mizusawa	14·6	230	3	22	- 2	5	56	- 8	—	—	—	—
Akita	14·6	234	e 3	27	+ 3	e 6	3	- 1	—	—	—	e 7·3
Sendai	15·3	228	e 3	39	+ 5	e 6	16	- 6	e 4	41	?	—
Hokusima	16·0	228	e 3	45	+ 3	e 6	29	- 7	—	—	—	—
Onahama	16·4	225	—	—	—	e 6	38	- 9	—	—	—	—
Niigata	16·5	231	e 4	30	PPP	—	—	—	—	—	—	—
Shirakawa	16·6	227	e 3	47	- 3	e 6	55	+ 4	—	—	—	—
Utunomiya	17·2	227	e 3	57	0	e 7	8	+ 3	—	—	—	—
Kakioka	17·3	225	e 3	58	- 1	7	3	- 4	—	—	—	—
Vladivostok	17·4	257	e 4	2	+ 2	—	—	—	—	—	—	—
Maebasi	17·7	228	e 4	2	- 2	e 7	18	+ 2	e 4	21	PP	—
Kumagaya	Z. 17·8	227	e 4	5	+ 1	—	—	—	—	—	—	—
Nagano	N. 17·9	231	e 4	9	+ 3	e 7	37	+16	—	—	—	e 10·6
Tokyo	18·0	225	e 4	8	+ 1	e 7	12	-10	e 4	51	PPP	—
Matusiro	18·0	230	4	5 <sub>a</sub>	- 2	i 7	28	+ 5	i 8	5	SSS	9·3
Oiwake	18·0	229	e 4	0	- 7	—	—	—	—	—	—	—
Titibu	18·0	227	e 4	8	- 1	—	—	—	—	—	—	—
Wazima	18·1	235	e 4	12	+ 4	—	—	—	—	—	—	—
Yokohama	N. 18·2	225	e 4	15	+ 5	e 7	47	+19	e 5	24	?	—
Matumoto	18·4	230	e 4	12	0	e 7	42	+11	—	—	—	—
Mera	18·6	224	e 4	15	+ 1	e 7	54	+19	—	—	—	—
Kohu	18·6	228	e 4	12	- 2	e 7	39	+ 4	e 4	31	PP	—
Hunatu	18·6	227	e 4	20	+ 6	—	—	—	—	—	—	—
Misima	18·8	226	e 4	18	+ 1	e 7	49	+ 9	—	—	—	—
Omaesaki	19·6	227	e 4	32	+ 7	e 8	13	+16	—	—	—	—
Gihu	19·6	231	e 4	26	0	8	7	+ 9	—	—	—	—
Nagoya	19·7	230	e 4	26	- 1	—	—	—	—	—	—	—
Hikone	20·0	232	e 4	30	0	e 8	18	+12	—	—	—	—
Kameyama	20·2	230	e 4	37	+ 5	e 8	12	+ 2	—	—	—	e 11·7
Kyoto	20·5	232	4	35	0	8	21	+ 6	—	—	—	—
Nara	20·7	231	e 4	27	-10	—	—	—	—	—	—	—
Osaka	20·9	232	e 6	1	?	e 9	53	?	—	—	—	—
Owase	21·0	230	e 4	41	+ 1	—	—	—	—	—	—	—
Kobe	21·0	233	e 4	37	- 3	e 8	32	+ 7	—	—	—	e 11·0
Changchun	21·3	266	4	40 <sub>a</sub>	- 3	—	—	—	—	—	—	—
Sumoto	21·4	233	e 4	48	+ 4	—	—	—	—	—	—	11·8
Siomisaki	21·7	229	e 5	8	+21	e 9	54	SSS	—	—	—	—
Tokusima	21·8	232	4	50	+ 2	e 6	2	?	—	—	—	—
Takamatu	21·9	234	e 4	48	- 1	e 8	47	+ 6	—	—	—	—
Matuyama	N. 22·9	235	e 4	59	0	e 9	7	+ 7	—	—	—	—
Ooita	N. 24·0	236	e 5	15	+ 5	—	—	—	—	—	—	—
Hukuoka	24·4	238	e 5	16	+ 3	e 6	25	?	—	—	—	—
Miyazaki	25·1	234	e 5	22	+ 2	—	—	—	—	—	—	—

Continued on next page.



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

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
			m.	s.		m.	s.		m.	s.	
Tiksi	25.3	341	e 5	19	- 2	—	—	i 5	38	sP	—
Nagasaki	25.3	238	e 5	22	0	—	—	—	—	—	—
Kagosima	25.9	235	e 5	29	+ 1	e 9	30	-21	—	—	—
Peking	29.1	266	e 5	56	- 1	e 10	40	- 3	—	—	—
Tatung	31.0	268	e 6	17	+ 4	—	—	—	—	—	—
Zô-Sé	31.6	247	i 6	19 <sub>a</sub>	+ 1	e 11	23	+ 2	—	—	—
Irkutsk	31.8	295	6	20 <sub>a</sub>	0	e 11	25?	+ 1	7	36	PP
Nanking	32.4	251	i 6	26 <sub>a</sub>	+ 1	e 11	35	+ 2	—	—	—
College	33.0	41	i 6	30	- 1	e 11	44	0	i 7	44	PP
Sitka	40.4	52	i 7	34	+ 1	i 13	37	+ 1	e 9	22	PcP
Hong Kong	42.3	245	7	50	+ 1	e 14	9	+ 5	—	—	—
Semipalatinsk	46.4	301	e 8	20	- 2	—	—	—	—	—	—
Resolute	47.7	20	i 8	31 <sub>a</sub>	- 1	e 15	29	+ 7	e 10	22	PP
Horseshoe Bay	50.3	57	e 8	52	0	16	2	+ 4	—	—	e 19.3
Victoria	50.7	58	e 8	55	0	—	—	—	—	—	—
Seattle	51.8	58	9	5	+ 2	e 16	25	+ 6	e 11	31	PP
Sverdlovsk	52.8	317	9	10	- 1	16	35	+ 2	9	35	sP
Corvallis	z. 53.0	62	e 9	13	0	—	—	—	—	—	—
Rabaul	53.6	184	e 9	16	- 1	—	—	—	e 9	55	?
Frunse	53.8	296	i 9	17 <sub>a</sub>	- 1	i 16	49	+ 3	i 19	2	ScS
Shillong	54.0	268	e 9	18	- 2	e 16	47	- 2	10	24	PcP
Hungry Horse	55.9	54	i 9	33	0	—	—	—	e 12	12	PP
Shasta	z. 55.9	65	e 8	34	-60	—	—	—	—	—	—
Chatra	z. 56.2	273	i 9	34	- 1	—	—	—	i 10	32	PcP
Ukiah	56.4	67	e 9	37	0	—	—	—	e 10	4	sP
Sodankyla	57.2	339	i 9	41	- 2	—	—	—	i 10	30	PcP
Saskatoon	57.2	47	—	—	—	e 17	38	+ 7	—	—	—
Berkeley	57.8	68	e 9	45	- 2	e 17	44	+ 5	e 10	2	pP
Tashkent	57.8	297	e 9	46	- 1	e 17	38	- 2	e 13	26	PPP
Butte	N. 58.1	55	e 9	49	0	e 17	48	+ 5	e 21	58	SS
Kiruna	58.2	342	i 9	48	- 1	e 17	45	+ 1	e 13	24	PPP
Santa Clara	58.3	68	—	—	—	e 17	54	+ 8	—	—	—
Lick	z. 58.5	68	e 9	51	- 1	—	—	—	—	—	—
Bozeman	59.1	55	e 9	56	0	—	—	—	—	—	—
Dehra Dun	59.7	282	9	0	-60	—	—	—	e 13	0	PPP
Stalinabad	59.9	295	e 10	0	- 2	—	—	—	—	—	—
Scoresby Sund	60.3	359	—	—	—	e 18	15	+ 4	—	—	29.9
Eureka	60.5	63	i 10	5	0	—	—	—	—	—	—
Tinemaha	60.8	66	i 10	9	+ 2	e 18	28	+10	—	—	—
King Ranch	z. 61.0	69	i 10	9	0	—	—	—	—	—	—
Isabella	z. 61.6	67	e 10	10	- 3	—	—	—	e 39	51	P'P'
Salt Lake City	62.0	59	i 10	16	+ 1	i 18	41	+ 8	—	—	e 39.5
Pasadena	62.8	69	e 10	18	- 3	e 18	44	+ 1	i 22	46	SS
Moscow	63.0	326	10	20	- 2	e 18	47	+ 1	e 10	38	pP
Riverside	63.3	68	e 10	24	- 1	i 18	54	+ 4	—	—	—
Boulder City	63.5	65	i 10	25	- 1	—	—	—	—	—	—
Helsinki	63.5	335	—	—	—	e 18	59	+ 7	—	—	—
Skalstugan	63.5	343	i 10	25	- 1	—	—	—	—	—	—
Palomar	z. 64.1	68	i 10	29	0	—	—	—	—	—	—
Rapid City	64.3	52	i 10	31	0	—	—	—	—	—	—
Barrett	64.7	69	i 10	33	0	i 19	11	+ 4	—	—	—
Upsala	65.7	338	i 10	38	- 2	e 19	10	- 9	i 11	11	PcP
Boulder	66.1	56	e 10	44	+ 2	—	—	—	—	—	—
Ashkabad	66.3	301	10	44	0	—	—	—	13	8	PP
Quetta	66.7	290	e 10	47 <sub>k</sub>	+ 1	—	—	—	—	—	—
Tucson	68.5	65	e 10	58	+ 1	—	—	—	—	—	—
Hyderabad	z. 68.5	272	e 10	59	+ 2	e 19	54	+ 1	11	26	PcP
Lembang	69.8	232	i 10	57 <sub>a</sub>	- 8	—	—	—	—	—	—
Tiflis	70.6	312	i 11	11	+ 1	e 20	24	+ 6	e 15	28	PPP
Copenhagen	70.7	339	i 11	12	+ 1	e 20	24	+ 6	e 21	12	ScS
Poona	70.7	276	i 11	13	+ 2	e 20	28	+ 9	15	32	PcS
Bombay	71.1	277	e 11	15	+ 2	e 20	30	+ 7	21	17	PS
Warsaw	z. 71.4	332	—	—	—	e 20	40	+13	e 16	16	pPPP
Kirkland Lake	z. 71.6	36	11	15	- 1	—	—	—	—	—	—
Goris	71.6	310	i 11	17	+ 1	i 20	34	+ 5	21	18	PS

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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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Lwow	72.6	329	i 11	22	0	e 20	44	+ 4	e 11	48	sP	—
Simferopol	72.9	321	e 11	22	- 2	c 20	45	+ 1	e 14	16	PP	—
Florissant	74.6	48	—	—	—	e 21	3	0	e 21	31	ScS	—
St. Louis	74.8	48	e 11	37k	+ 2	e 21	6	+ 1	i 21	37	ScS	—
Fayetteville	74.9	52	i 11	35k	0	—	—	—	—	—	—	—
Jena	z. 75.2	337	e 11	38	+ 1	e 21	15?	+ 5	e 12	5	sP	—
Prague	75.3	335	e 11	41	+ 3	e 21	16	+ 6	e 12	8	sP	37.9
Colombo	75.4	263	11	44	+ 6	21	14	+ 2	—	—	—	46.1
Ottawa	75.5	34	i 11	38 <sub>a</sub>	- 1	21	11	- 2	29	19	SSS	—
De Bilt	75.6	342	e 11	39	- 1	e 21	20	+ 6	e 14	35	PP	e 38.9
Seven Falls	75.7	31	—	—	—	21	26	+11	—	—	—	30.2
Hurbanovo	76.2	332	e 12	35	+52	e 21	35	+15	c 22	19	PS	—
Bratislava	76.2	333	i 11	43	0	e 21	28	+ 7	i 12	16	sP	—
Budapest	76.2	331	e 11	48	+ 5	21	30	+ 9	11	59	PcP	—
Rathfarnham Castle	76.4	349	i 11	44k	0	c 21	36	+14	e 14	43	PP	—
Cleveland	76.5	40	i 11	43k	- 1	e 21	26	+ 3	e 21	48	ScS	—
Bucharest	76.5	325	e 11	36	- 8	e 21	29	+ 5	e 21	11	?	—
Brisbane	76.7	182	i 11	46	0	—	—	—	i 12	25	sP	—
Kew	77.2	345	e 11	47	- 2	e 21	35	+ 3	e 22	26	PS	e 30.9
Stuttgart	77.8	338	i 11	52 <sub>a</sub>	0	e 21	28	-10	22	15	PS	—
Belgrade	78.1	329	i 11	54 <sub>a</sub>	0	e 21	47	+ 6	e 12	23	PcP	—
Strasbourg	78.3	339	i 11	55 <sub>a</sub>	0	c 21	51	+ 7	c 15	0	PP	e 38.9
Ebingen	78.4	338	e 11	56	+ 1	—	—	—	c 12	25	sP	—
Paris	79.3	342	i 12	2	+ 2	e 21	58	+ 5	e 15	0	PP	e 38.9
Basle	79.4	338	e 12	2 <sub>a</sub>	+ 2	—	—	—	—	—	—	—
Trieste	79.5	334	12	0	- 1	i 21	46	-10	i 15	3	PP	—
Jersey	79.8	345	—	—	—	e 22	8	+10	—	—	—	41.9
Palisades	79.9	36	i 12	4	+ 1	i 22	2	+ 2	e 26	48	SS	39.9
Besançon	80.0	339	i 12	4	0	—	—	—	—	—	—	—
Neuchatel	80.0	339	i 12	5	+ 1	—	—	—	e 16	45	PPP	—
Halifax	80.2	27	i 12	5 <sub>a</sub>	0	—	—	—	—	—	—	e 40.9
Oropa	81.1	337	e 12	21	PcP	—	—	—	—	—	—	—
Pavia	81.2	337	e 12	11	+ 1	e 22	45	+32	e 23	35	PS	—
Ksara	81.2	313	i 12	12	+ 2	e 22	25	+12	e 23	11	PS	—
Prato	81.9	335	e 12	16	+ 2	e 22	23	+ 3	—	—	—	—
Florence	81.9	335	i 12	13	- 1	i 22	26	+ 5	e 15	27	PP	e 39.9
Clermont-Ferrand	82.0	341	i 12	16	+ 1	e 22	33	+11	—	—	—	40.9
Chapel Hill	82.2	42	e 11	50	-25	i 22	29	+ 5	—	—	—	—
Columbia	82.9	44	e 12	19	0	e 22	32	+ 1	e 23	0	ScS	—
Athens	83.0	323	e 12	19	0	—	—	—	—	—	—	—
Monaco	83.0	337	e 12	20 <sub>a</sub>	+ 1	—	—	—	e 13	0	?	—
Taranto	83.1	329	e 13	15	+55	e 22	15	-18	—	—	—	—
Riverview	83.1	184	i 12	22	+ 2	e 22	40	+ 7	i 12	30	PcP	—
Rome	83.3	333	i 12	22	+ 1	e 22	44	+ 9	e 17	26	PPP	—
Messina	85.7	329	e 12	31	- 2	e 22	37	[-13]	e 12	59	pP	—
Melbourne	87.5	188	i 12	43	+ 1	e 23	22	+ 7	i 12	57	PcP	—
Tunis	88.7	333	—	—	—	e 23	27	0	e 23	55	sS	—
Toledo	89.1	344	i 12	50 <sub>a</sub>	+ 1	e 23	22	- 9	—	—	—	45.2
Alicante	89.9	341	12	54	+ 1	23	46	+ 8	—	—	—	—
Algiers Univ.	z. 90.6	338	e 12	54	- 2	c 23	48	+ 4	e 16	34	PP	—
Granada	91.7	343	e 13	1 <sub>a</sub>	0	23	58	+ 5	—	—	—	45.9
Tamanrasset	z. 103.2	332	e 13	55	+ 1	e 24	38	[+12]	e 18	5	PP	—
Huancayo	z. 124.1	66	e 18	55	[+ 4]	—	—	—	28	41	PKKP	—
La Paz	131.8	62	19	13	[+ 7]	—	—	—	i 33	3	PPS	61.9
Pretoria	z. 133.1	280	19	7	[- 1]	—	—	—	—	—	—	—
Kimberley	z. 137.3	280	i 19	7	[- 9]	—	—	—	—	—	—	—

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Sept. 14d. 6h. 16m. 54s. Epicentre 15°·03N. 94°·27W.

A = -·0720, B = -·9635, C = +·2577;  $\delta$  = -7;  $h$  = +6;  
D = -·997, E = +·075; G = -·019, H = -·257, K = -·966.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Comitan	2·4	59	i 0 42	+ 1	i 1 19	0 <sub>g</sub>	i 1 15	S*	—
Oaxaca	3·1	310	i 0 46	- 5	1 27	- 3	i 1 16	?	—
Vera Cruz	4·5	337	e 1 14	+ 3	i 2 12	+ 6	i 2 26	S <sub>g</sub>	—
San Salvador	5·0	104	e 1 20	+ 1	—	—	e 1 35	P <sub>g</sub>	—
Tacubaya	6·4	313	i 2 1	+23	—	—	—	—	i 3·3
Merida	7·4	36	e 1 51k	- 1	e 3 18	+ 1	e 3 36	S	—
Chihuahua	17·4	323	—	—	e 6 24	?	—	—	—
Chinchina	20·9	117	i 4 44	- 2	i 8 50	+15	i 5 2	PP	11·1
Fayetteville	21·0	0	i 4 46k	- 1	—	—	e 5 27	PPP	—
Columbia	22·4	30	e 5 13	+12	e 9 12	+ 9	—	—	e 10·6
Bogota	22·4	115	e 5 2	0	i 9 15	+11	i 5 12	?	—
Tucson	22·8	321	i 5 8	+ 2	e 9 41	+29	—	—	e 12·5
Boulder	26·7	341	e 5 44	+ 1	—	—	—	—	—
Hayfield	N. 26·8	318	e 5 55	+11	—	—	—	—	—
Barrett	Z. 26·9	315	e 5 56	+11	—	—	—	—	—
San Juan	27·2	79	e 5 45	- 2	—	—	—	—	—
Palomar	Z. 27·4	316	i 5 51	+ 2	—	—	—	—	—
Boulder City	27·8	322	i 5 54	+ 1	—	—	—	—	—
Riverside	Z. 28·1	316	e 5 57	+ 1	—	—	—	—	—
Pasadena	28·8	316	e 6 2	0	e 11 8	+17	—	—	e 13·7
Isabella	Z. 29·8	318	e 6 12	+ 1	—	—	—	—	—
Salt Lake City	29·9	333	e 6 13	+ 2	—	—	—	—	—
Rapid City	E. 29·9	347	e 6 12	0	—	—	—	—	—
Woody	Z. 30·1	318	e 6 13	- 1	—	—	—	—	—
King Ranch	Z. 30·5	316	e 6 28	+11	—	—	—	—	—
Tinemaha	Z. 30·6	320	e 6 20	+ 2	—	—	—	—	—
Eureka	30·9	326	i 6 22	+ 1	—	—	i 7 10	PP	—
Huancayo	Z. 32·8	144	e 6 40	+ 3	—	—	—	—	—
Lick	Z. 32·9	318	e 6 39	+ 1	—	—	—	—	—
Berkeley	Z. 33·6	318	e 6 43	- 1	—	—	—	—	—
Butte	N. 34·5	337	e 6 53	+ 1	—	—	—	—	—
Mineral	Z. 34·7	322	e 6 51	- 3	—	—	—	—	—
Shasta	Z. 35·4	322	e 6 58	- 2	—	—	—	—	—
Hungry Horse	37·0	338	e 7 14	+ 1	—	—	—	—	—
College	61·4	337	i 10 19	- 2	—	—	—	—	—
Granada	81·6	54	12 25k	+ 4	—	—	—	—	44·2
Skalstugan	83·8	26	i 12 32	- 1	—	—	—	—	—
Clermont-Ferrand	84·4	44	e 12 35	- 1	—	—	—	—	—
Kiruna	85·1	20	i 12 41	+ 2	—	—	—	—	—
Besançon	85·9	42	i 12 42	- 1	—	—	—	—	—
Strasbourg	86·6	41	12 44	- 3	—	—	—	—	—
Stuttgart	87·5	40	e 12 50	- 1	—	—	—	—	—
Jena	Z. 88·1	37	e 12 53	- 1	—	—	—	—	—
Florence	Z. 90·5	44	i 13 12	+ 7	—	—	—	—	—
Tamanrasset	Z. 93·0	66	e 13 16	- 1	—	—	—	—	—

Sept. 15d. 7h. 39m. 7s. Epicentre 20°·57S. 69°·39W. Depth of focus 0·009.

A = +·3299, B = -·8771, C = -·3492;  $\delta$  = +8;  $h$  = +5;  
D = -·936, E = -·352; G = -·123, H = +·327, K = -·937.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Antofagasta	3·2	197	e 0 50	+ 1	i 1 16	-11	—	—	
La Paz	4·2	17	i 1 6	+ 3	1 58	+ 7	i 1 17	PP	2·6
Copiapo	E. 6·8	187	e 1 37	- 2	i 2 53	- 2	i 1 57	?	—
Huancayo	10·2	325	e 2 23	- 2	e 4 8	-10	e 15 19	ScS	—
Santa Lucia	12·9	185	i 3 1	+ 1	—	—	e 4 15	?	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	<sup>o</sup>	<sup>c</sup>	m. s.	s.	m. s.	s.	m. s.	m.
Concepción	16.4	188	e 3 51	+11	e 7 2	+19	—	—
Buenos Aires	17.0	148	e 3 50	-3	e 7 11	+14	—	—
La Plata	17.5	147	i 3 57	-2	i 7 7	-2	—	9.0
Bogota	25.4	349	i 5 22 <sup>a</sup>	+1	i 9 42	+3	i 5 50	11.9
Chinchina	26.1	346	i 5 27	0	i 10 25	+35	i 6 6	PP
Balboa Heights	31.0	340	e 5 58	-13	—	—	—	—
Galerazamba	31.7	349	e 6 28	+11	i 11 22	+3	—	—
Trinidad	32.0	15	e 6 17	-3	—	—	—	—
St. Vincent	34.5	14	e 6 37	-4	—	—	—	—
Barbados	34.8	17	e 6 44	0	—	—	—	—
Fort-de-France	36.0	14	i 6 49	-5	i 12 19	-6	i 7 13	pP
Dominica	36.5	13	e 6 54	-4	—	—	—	—
San Juan	38.8	5	i 7 13 <sup>k</sup>	-4	e 12 59	ScP	i 7 38	pP
Merida	45.8	333	e 8 14	0	e 14 53	+3	—	—
Vera Cruz	47.4	325	e 8 32	+5	e 15 19	+6	—	—
Tacubaya	49.3	322	i 8 45 <sup>a</sup>	+4	e 15 45	+5	i 9 8	pP
Guadalajara	52.7	319	e 9 5	-3	—	—	—	—
Columbia	55.4	348	i 9 25 <sup>k</sup>	-2	i 17 0	-3	i 9 49	pP
Washington	59.6	353	i 9 56	0	e 17 44	-14	i 10 22	pP
Chihuahua	60.4	323	e 11 6	PcP	—	—	—	e 29.2
Philadelphia	60.4	355	i 10 33	+31	e 18 3	-6	i 18 47	PPS
Fayetteville	61.0	337	i 10 5 <sup>k</sup>	-1	—	—	e 10 43	sP
Palisades	61.4	356	i 10 7	-2	i 18 17	-4	e 10 30	pP
St. Louis	62.0	342	e 10 12	-1	e 18 30	+1	10 43	pP
M'Bour	62.1	60	i 10 10	-3	i 10 47	sP	i 10 35	pP
Florissant	62.2	342	i 10 12 <sup>k</sup>	-2	i 18 27	-4	e 10 41	pP <sub>2</sub>
Cleveland	62.7	350	i 10 15 <sup>k</sup>	-3	i 18 35	-3	i 10 40	pP
Halifax	65.1	5	i 10 31 <sup>a</sup>	-2	i 19 3	-4	i 19 45	PS
Tucson	65.8	322	i 10 38 <sup>k</sup>	0	i 19 17	+1	e 11 7	PcP
Ottawa	65.9	355	i 10 36 <sup>k</sup>	-2	19 15	-2	11 22	pP
Seven Falls	67.4	359	e 10 52 <sup>?</sup>	+5	19 33 <sup>?</sup>	-2	21 2 <sup>?</sup>	ScS
Kirkland Lake	69.1	352	i 10 55 <sup>k</sup>	-3	—	—	i 11 41	sP
Barrett	69.6	319	i 11 1 <sup>k</sup>	0	i 20 6	+5	i 11 27	pP
Hayfield	69.7	320	i 11 1	-1	—	—	i 11 31	pP
Palomar	70.2	319	i 11 6 <sup>k</sup>	+1	i 11 41	sP	i 11 31	pP
Boulder City	70.8	322	i 11 9 <sup>k</sup>	+1	e 20 20	+5	i 11 34	pP
Riverside	70.9	319	i 11 10 <sup>k</sup>	+1	i 20 22	+6	i 11 35	pP
Rapid City	71.4	335	i 11 10 <sup>a</sup>	-2	i 20 21	-1	i 11 41	pP
Pasadena	71.5	319	i 11 13 <sup>k</sup>	0	i 20 29	+6	i 11 38	pP
Isabella	72.7	320	i 11 20 <sup>k</sup>	0	i 11 56	sP	i 11 47	pP
Salt Lake City	72.7	328	e 11 20 <sup>a</sup>	0	e 20 38	+3	i 11 43	pP
Woody	73.0	320	i 11 22 <sup>k</sup>	+1	i 11 57	sP	i 11 46	pP
King Ranch	73.3	319	i 11 26 <sup>k</sup>	+3	i 12 2	sP	i 11 50	pP
Tinemaha	73.5	321	i 11 26 <sup>k</sup>	+2	i 20 52	+7	i 11 52	pP
Eureka	73.9	324	i 11 26 <sup>k</sup>	-1	—	—	i 11 58	pP
Fresno	74.3	320	e 11 29	0	—	—	—	—
Lick	75.7	319	i 11 39	+2	e 21 19	+9	i 12 5	pP
Santa Clara	75.9	319	e 11 39 <sup>a</sup>	+1	e 21 57	PS	i 12 17	pP
Bozeman	76.0	331	i 11 37 <sup>a</sup>	-2	e 21 14	+1	i 12 4	pP
Reno	76.1	322	i 11 41	+2	e 21 20	+6	i 12 32	?
Berkeley	76.5	319	i 11 42 <sup>k</sup>	+1	i 21 23	+5	e 12 7	pP
Butte	77.0	331	11 44 <sup>k</sup>	0	e 21 28	+4	i 12 9	pP
Hermanus	77.6	122	—	—	e 21 35	+5	—	—
Mineral	77.7	322	i 11 47 <sup>k</sup>	-1	—	—	—	—
Ukiah	77.8	320	i 11 50 <sup>k</sup>	+1	—	—	e 12 22	sP
Shasta	78.3	322	i 11 51	-1	e 12 27	sP	i 12 17	pP
Hungry Horse	79.4	332	i 11 57	0	e 21 40	-8	i 12 27	pP
Corvallis	81.4	324	i 12 9	+1	e 22 13	+3	i 12 35	pP
Lisbon	81.6	43	e 12 17 <sup>a</sup>	+8	—	—	i 12 36	pP
Banff	82.1	333	i 12 9	-3	—	—	i 12 36	pP
Seattle	82.8	327	i 12 16	+1	i 22 31	+6	i 23 12	sS
Grahamstown	83.7	123	i 12 23	+3	—	—	—	—
Kimberley	83.8	118	i 12 20 <sup>k</sup>	-1	—	—	—	—
Victoria	84.0	327	i 12 21	0	—	—	—	—
Granada	84.4	47	i 12 19 <sup>k</sup>	-5	i 22 34	-7	12 51	pP

Continued on next page.

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Horseshoe Bay	84.5	328	i 12	23	- 1	i 22	41	0	12	49	pP	—
Tamanrasset	84.8	63	e 12	25	0	e 22	46	+ 2	e 12	52	pP	—
Almeria	85.1	48	e 12	52	+25	23	23	+36	22	53	SKS	—
Toledo	85.5	44	i 12	29 <sub>a</sub>	0	i 22	46	- 6	i 12	55	pP	—
Relizane	86.6	50	e 12	33	- 1	e 23	6	+ 4	e 13	1	pP	—
Alicante	87.2	47	12	25	-12	22	53	-14	15	52	PP	—
Pretoria	87.7	116	e 12	41	+ 1	—	—	—	i 13	8	pP	—
Algiers Univ.	88.9	50	12	44	- 1	e 23	2	[ 0]	e 13	10	pP	—
Reykjavik	92.1	19	e 13	36	+36	—	—	—	—	—	—	—
Clermont-Ferrand	93.0	42	e 13	19	pP	—	—	—	e 16	45	PP	—
Kew	93.6	36	—	—	—	i 23	31	[ 0]	e 24	17	S	e 45.9
Resolute Bay	96.4	353	—	—	—	e 24	28	- 1	e 23	46	SKS	—
Pavia	96.6	44	—	—	—	25	49	SP	—	—	—	—
Scoresby Sund	96.6	14	—	—	—	e 23	47	[ 0]	i 31	5	SS	—
Uvira	96.7	96	e 13	21	0	—	—	—	e 17	13	PP	—
Lwiro	96.9	95	—	—	—	—	—	—	e 17	15	PP	—
Florence	97.5	46	e 13	33	+ 8	i 17	17	PP	14	9	sP	—
Astrida	97.6	96	e 13	24?	- 1	—	—	—	e 17	16	PP	—
Stuttgart	98.0	41	e 13	28	+ 1	—	—	—	e 14	15	sP	—
Messina	98.6	52	e 14	48	+78	e 23	52	[- 6]	e 17	26	PP	—
Trieste	99.8	45	e 13	38	+ 3	i 24	4	[+ 1]	e 13	59	pP	—
College	103.6	334	i 13	50 <sub>a</sub>	- 2	—	—	—	i 17	59	PP	—
Tananarive	106.8	118	—	—	—	—	—	—	e 18	34	PP	—
Safed	113.0	62	i 18	56	[+30]	—	—	—	—	—	—	—
Ksara	113.5	61	i 19	13	[+46]	—	—	—	i 19	45	pP'	—
Melbourne	113.5	209	—	—	—	25	17	[+13]	—	—	—	—
Rabaul	132.4	244	i 19	5	[+ 1]	e 22	40	PKS	—	—	—	—
Quetta	139.6	67	e 19	13	[- 4]	—	—	—	—	—	—	—
Bombay	144.4	86	e 19	31	[+ 6]	e 29	26	SKKS	e 22	42	PP	—
Poona	145.3	87	i 19	29	[+ 3]	—	—	—	—	—	—	—
Guam	146.6	263	i 19	31	[+ 2]	—	—	—	—	—	—	—
Dehra Dun	149.1	65	e 19	38	[+ 5]	—	—	—	i 23	57	PP	—
Hyderabad	149.5	90	e 20	28	[+54]	e 29	55	SKKS	—	—	—	—
Madras	149.9	100	e 20	16	[+42]	—	—	—	—	—	—	—
Matusiro	151.1	309	19	37 <sub>k</sub>	[+ 1]	42	41	SS	—	—	—	—
Lembang	152.6	173	i 19	41 <sub>k</sub>	[+ 3]	e 23	30	PKS	—	—	—	—
Changchun	153.8	335	19	41 <sub>k</sub>	[+ 1]	—	—	—	23	35	PP	—
Peking	160.0	347	i 19	50 <sub>k</sub>	[+ 2]	—	—	—	—	—	—	—
Shillong	162.1	71	—	—	—	e 30	59	SKKS	—	—	—	—
Zô-Sè	165.8	320	i 19	55 <sub>k</sub>	[+ 1]	—	—	—	24	41	PP	—
Nanking	166.4	329	i 19	55 <sub>k</sub>	[+ 1]	—	—	—	24	45	PP	—
Baguio	169.7	248	i 20	2	[+ 6]	—	—	—	e 25	15	PP	—
Canton	176.5	316	20	3 <sub>k</sub>	[+ 4]	—	—	—	e 25	34	PP	—

Sept. 16d. 8h. 37m. 23s. Epicentre 33°·96N. 69°·51E.

A = +·2909, B = +·7786, C = +·5560;  $\delta = -2$ ;  $h = 0$ ;  
D = +·937, E = -·350; G = +·195, H = +·521, K = -·831.

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Khorog	3.9	25	i 1	4	+ 3	2	1	+ 1*	—	—	—	
Kulyab	3.9	3	i 1	3	+ 1	—	—	—	—	—	—	
Quetta	4.3	211	i 1	8	0	—	—	—	—	—	—	
Gissar	4.6	351	1	11	0	—	—	—	—	—	—	
Stalinabad	4.6	353	i 1	13	+ 2	e 2	16	+10	—	—	—	
Obi-garm	4.7	2	i 1	14	+ 1	—	—	—	—	—	—	
Garm	5.1	7	i 1	19	+ 1	e 2	16	- 1	e 2	56	S <sub>e</sub>	—
Dzhergetal	5.4	14	i 1	25	+ 2	—	—	—	—	—	—	
Murgab	5.7	38	i 1	27	+ 1	—	—	—	i 1	46	P*	—
Samarkand	6.0	341	i 1	29	- 3	—	—	—	—	—	—	

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Fergana	6.7	15	e 1	41	+ 1	e 2	59	+ 2	i 3	34	S <sub>g</sub>	—
Bairam-Ali	7.0	303	i 1	43	- 2	i 3	7	- 1	i 2	18	P <sub>g</sub>	—
Andijan	7.1	18	i 1	47	0	3	12	+ 3	—	—	—	—
Namangan	7.2	13	i 1	49	+ 1	—	—	—	—	—	—	—
Tashkent	7.3	359	e 1	49	- 1	e 3	13	- 1	i 3	49	S*	—
Dehra Dun	8.1	114	e 2	2	+ 2	i 3	30	- 3	2	9	PP	—
Tchimkent	8.3	4	i 2	3	- 1	—	—	—	—	—	—	—
New Delhi	8.5	127	i 2	6	0	i 3	36	- 6	2	14	PP	—
Naryn	9.1	33	i 2	11	- 3	—	—	—	i 2	46	?	—
Frunse	9.7	22	i 2	20 <sub>a</sub>	- 3	i 4	10	- 4	—	—	—	—
Ashkabad	9.9	297	i 2	22 <sub>k</sub>	- 3	i 4	27	- 7	3	3	P <sub>g</sub>	—
Przhevalsk	11.0	37	i 2	37	- 3	—	—	—	—	—	—	—
Almata II	11.1	31	i 2	40	- 2	e 4	47	- 1	—	—	—	e 7.9
Kizyl-Arvat	11.8	299	2	48	- 3	—	—	—	e 3	59	?	—
Bombay	15.3	168	i 3	41	+ 4	i 6	42	+15	i 8	52	PcP	—
Poona	15.8	165	i 3	43 <sub>k</sub>	- 1	e 6	49	+ 9	4	5	PPP	7.7
Chatra	16.8	110	i 3	50	- 7	i 6	50	- 3	—	—	—	—
Bokaro	17.4	121	e 4	6	+ 1	i 7	14	- 3	4	23	PP	8.0
Semipalatinsk	18.2	22	i 4	11	- 3	i 7	32	- 3	—	—	—	—
Hyderabad	18.3	152	i 4	10 <sub>k</sub>	- 5	i 7	20	-17	4	33	PP	8.0
Goris	19.4	293	i 4	27	- 1	—	—	—	8	37	SSS	—
Tiflis	20.9	299	e 4	44	- 1	—	—	—	i 8	47	PcP	—
Shillong	21.1	107	i 4	44	- 3	i 8	22	-14	5	2	PP	9.3
Yumen	22.8	66	e 5	4	+ 1	—	—	—	—	—	—	—
Madras	23.0	152	i 5	6 <sub>k</sub>	0	i 9	2	- 9	5	25	PP	10.6
Sverdlovsk	23.7	348	i 5	13	+ 1	—	—	—	6	2	PPP	—
Kodaikanal	24.7	161	i 5	32 <sub>a</sub>	+10	i 9	53	+12	6	11	PPP	12.0
Changyeh	25.4	70	5	31	+ 2	—	—	—	—	—	—	—
Sining	26.4	75	e 5	39	+ 1	—	—	—	—	—	—	—
Wuwei	27.0	72	5	46	+ 2	—	—	—	—	—	—	—
Ksara	27.8	279	i 5	56	+ 5	i 10	38	+ 6	i 6	40	PP	—
Lanchow	28.1	76	5	53	- 1	—	—	—	—	—	—	—
Safed	28.3	278	i 6	4	+ 8	—	—	—	—	—	—	—
Colombo	28.6	158	5	57	- 1	10	47	+ 3	—	—	—	15.6
Jerusalem	28.8	275	i 6	4	+ 4	i 11	27	+39	—	—	—	—
Simferopol	29.2	303	e 6	3	- 1	i 12	29	SS	—	—	—	—
Yinchuan	29.9	71	e 6	12	+ 3	—	—	—	—	—	—	—
Irkutsk	30.9	43	6	16 <sub>a</sub>	- 3	13	17	SS	—	—	—	—
Moscow	30.9	324	e 6	20	+ 1	11	25	+ 3	9	17	PcP	—
Sian	32.5	78	e 6	34	+ 1	i 11	49	+ 3	—	—	—	—
Paotow	32.7	66	e 6	34	0	—	—	—	—	—	—	—
Shenchow	33.4	77	e 6	49	+ 9	—	—	—	—	—	—	—
Yumenkow	33.6	75	e 6	41	- 1	—	—	—	—	—	—	—
Iasi	34.1	306	e 6	45	- 1	e 12	13	+ 3	e 8	9	PP	—
Focsani	34.2	303	e 7	19	+33	e 12	43	+27	—	—	—	—
Bucharest	34.9	300	6	54	+ 1	i 12	31	+ 8	e 8	13	PP	—
Taiyuan	34.9	71	e 6	53	0	—	—	—	—	—	—	—
Tatung	35.2	67	7	0	+ 4	—	—	—	—	—	—	—
Campulung	35.7	302	e 7	0	0	e 12	45	+10	—	—	—	—
Sofia	36.9	298	e 7	14	+ 4	e 13	4	+10	e 8	44	PP	—
Kwanting	37.0	66	e 7	11	0	—	—	—	—	—	—	—
Athens	37.0	290	e 7	13	+ 2	e 12	58	+ 3	e 9	32	PcP	—
Peking	37.4	67	i 7	15 <sub>a</sub>	0	13	3	+ 1	8	43	PP	—
Timisoara	38.4	303	e 7	28	+ 6	e 16	35	SSS	e 9	1	PP	—
Belgrade	38.9	301	e 7	28	+ 1	e 13	32	+ 7	e 9	38	PcP	—
Warsaw	39.0	313	e 7	29	+ 1	i 13	33	+ 7	e 8	59	PP	e 19.6
Szeged	39.1	303	7	38	+ 9	—	—	—	9	0	PP	—
Skalnate Pleso	39.1	308	e 7	31	+ 2	e 13	37	+ 9	e 16	23	SS	e 21.6
Futzeling	39.2	80	e 7	31	+ 1	—	—	—	—	—	—	—
Canton	39.7	94	i 7	34 <sub>a</sub>	0	13	36	0	9	11	PP	—
Budapest	39.9	305	e 7	37	+ 2	e 13	46	+ 7	9	10	PP	22.4
Kalossa	39.9	304	7	37	+ 2	13	17	-23	8	49	PP	—
Hurbanovo	40.5	306	e 7	49	+ 9	i 13	59	+11	i 9	25	PP	—
Hong Kong	40.8	95	7	43	+ 1	13	53	+ 1	e 13	21	PcS	—
Nanking	41.1	78	7	44 <sub>a</sub>	- 1	13	59	+ 2	9	21	PP	—

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	$\Delta$ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.	
			m.	s.		m.	s.		m.	s.		
Sodankyla	41.5	337	i 7	49	0	i 14	14	+10	i 9	23	PP	—
Taranto	41.6	295	7	51	+ 2	14	17	+12	9	15	PP	—
Dairen	41.8	68	e 7	52	+ 1	—	—	—	—	—	—	—
Upsala	42.4	324	i 7	56 <sub>a</sub>	0	i 14	10	- 6	i 9	34	PP	—
Prague	43.0	309	i 8	3	+ 3	e 14	35	+10	i 9	39	PP	—
Reggio Calabria	43.2	292	e 8	1	- 2	i 14	37	+ 8	—	—	—	—
Zò-Sè	43.3	79	i 8	2 <sub>a</sub>	- 1	i 14	30	+ 1	9	49	PP	—
Messina	43.3	292	i 8	3	0	i 14	32	+ 2	i 9	46	PP	—
Trieste	43.6	303	e 8	5 <sub>a</sub>	- 1	i 14	35 <sup>?</sup>	+ 1	e 9	51	PP	—
Changchun	43.8	60	8	6 <sub>a</sub>	- 1	14	39	+ 2	9	51	PP	—
Kiruna	43.9	336	i 8	7	- 1	i 14	39	+ 1	i 9	48	PP	—
Copenhagen	44.4	317	i 8	13	+ 1	i 14	52	+ 6	e 9	55	PP	—
Jena	44.8	310	e 8	14	- 1	e 14	53	+ 2	e 10	9	PP	e 23.6
Rome	45.0	298	i 8	17 <sub>a</sub>	0	i 14	59	+ 5	i 10	29	PPP	—
Bologna	45.4	301	e 8	39	+19	—	—	—	—	—	—	—
Tainan	45.5	90	—	—	—	e 18	31	SS	—	—	—	—
Florence	45.6	300	i 8	18	- 3	i 15	8	+ 5	e 10	1	PP	—
Prato	45.7	300	8	21	- 1	e 15	26	+ 2	—	—	—	—
Skalstugan	45.7	328	i 8	11	-11	—	—	—	i 10	1	PP	—
Taipei	45.7	87	e 13	50	PcS	18	27	SS	—	—	—	—
Hamburg	45.8	314	i 8	25	+ 2	i 15	13	+ 8	e 10	18	PP	22.6
Hengchun	46.4	91	e 15	14	PS	—	—	—	—	—	—	—
Stuttgart	46.4	307	i 8	27 <sub>a</sub>	- 1	i 15	22	+ 7	e 9	49	PcP	—
Ebingen	46.6	307	e 8	30	0	—	—	—	—	—	—	—
Pavia	46.8	303	e 8	31 <sub>k</sub>	- 1	e 15	28	+ 7	e 11	14	PPP	—
Karlsruhe	46.9	308	e 8	30 <sub>k</sub>	- 2	i 15	31	+ 9	e 10	5	PcP	—
Zürich	47.0	306	e 8	33	0	—	—	—	—	—	—	—
Strasbourg	47.4	307	e 8	34	- 2	e 15	27	- 1	e 10	7	PcP	e 23.0
Oropa	47.6	303	e 8	37	- 1	e 15	25	- 7	—	—	—	27.6
Basle	47.6	306	e 8	39 <sub>k</sub>	+ 1	e 15	31	- 1	—	—	—	—
Witteveen	z.	47.8	e 8	40	+ 1	—	—	—	—	—	—	—
Tunis	47.8	291	e 8	38	- 1	e 15	34	- 1	e 19	19	SS	e 23.1
Neuchatel	48.1	305	e 8	41	- 1	e 15	43	+ 4	—	—	—	—
Monaco	48.3	301	e 8	43 <sub>a</sub>	0	—	—	—	e 10	15	PcP	—
Tiksi	48.6	21	i 8	41	- 4	i 15	42	- 3	e 10	2	PcP	—
Vladivostok	48.6	60	i 8	43	- 1	—	—	—	i 10	39	PP	—
De Bilt	48.7	312	i 8	45	- 1	i 15	55	+ 8	e 18	37	ScS	e 22.6
Besançon	48.7	306	e 8	44	- 2	—	—	—	e 10	16	PcP	—
Bagnio	48.9	98	i 8	49	+ 2	i 15	53	+ 3	—	—	—	—
Manila	50.2	100	e 9	0	+ 3	i 16	10	+ 3	—	—	—	—
Kagosima	50.7	75	e 9	1	0	—	—	—	e 15	9	?	—
Paris	50.8	308	e 9	1	- 1	e 16	21	+ 5	e 10	9	PcP	e 24.6
Clermont-Ferrand	50.9	304	e 9	4	+ 1	e 16	24	+ 6	e 18	55	ScS	23.6
Hirosima	51.3	71	e 8	51	-15	e 16	19	- 4	—	—	—	—
Matuyama	N.	51.7	e 9	10	+ 1	e 16	27	- 2	—	—	—	—
Astrida	52.2	234	i 9	12	- 1	e 14	21	?	—	—	—	—
Kew	52.2	312	i 9	12 <sub>a</sub>	- 1	i 16	40	+ 5	e 11	11	PP	—
Koti	52.4	71	e 9	15	+ 1	e 16	37	- 1	—	—	—	20.6
Durham	52.5	316	i 9	19	+ 4	i 16	42	+ 3	i 19	9	ScS	—
Aberdeen	52.5	319	—	—	—	i 16	44	+ 5	i 18	58	ScS	24.0
Lwiro	52.6	235	e 9	14	- 1	14	24	?	—	—	—	—
Takamatu	52.6	70	e 9	16	+ 1	e 16	43	+ 3	—	—	—	29.5
Barcelona	52.6	299	—	—	—	e 17	7	PPS	—	—	—	—
Toyooka	52.8	68	e 9	17	0	e 16	44	+ 1	—	—	—	30.4
Tokusima	53.1	70	e 9	19	0	e 16	50	+ 3	—	—	—	30.0
Sumoto	53.2	70	—	—	—	e 16	53	+ 2	e 21	0	?	—
Uvira	53.2	234	i 9	19	- 1	e 14	26	?	—	—	—	—
Algiers Univ.	z.	53.3	e 9	19	- 2	e 16	44	- 6	e 9	54	?	—
Djakarta	53.3	131	—	—	—	e 16	42	- 8	—	—	—	—
Kobe	53.3	69	—	—	—	e 16	53	+ 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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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Kyoto		53.6	69	9 21	- 2	16 54	- 1	—	—
Jersey	E.	53.7	309	e 9 24	0	e 17 2	+ 3	c 12 1	PPP 24.6
Hikone		54.0	68	e 9 27	+ 1	e 17 9	+10	—	—
Siomisaki		54.2	71	—	—	e 17 3	+ 1	—	—
Toyama		54.2	66	e 9 24	- 4	e 17 8	+ 5	—	e 31.2
Kameyama		54.3	69	e 9 35	+ 7	e 17 1	- 3	—	32.2
Lembang		54.3	131	e 9 27	- 1	e 16 53	-11	e 11 31	PP —
Gihu		54.3	68	e 9 29	+ 1	17 4	0	—	e 28.2
Uglegorsk		54.4	50	i 9 27	- 2	i 17 6	0	—	—
Nagoya		54.6	68	e 9 31	+ 1	—	—	—	31.2
Nagano	N.	55.0	66	e 9 35	+ 2	e 17 12	- 1	—	e 31.8
Matusiro		55.1	66	9 31 <sup>a</sup>	- 3	i 17 16	+ 2	i 11 49	PP 30.2
Mori		55.1	59	e 9 35	+ 1	e 17 13	- 2	e 10 47	PcP e 30.2
Iida		55.1	68	e 9 34	0	—	—	—	e 29.7
Niigata		55.2	64	e 9 2	-33	—	—	—	—
Yuzno-Sakhlinsk		55.3	53	i 9 33	- 2	i 17 17	- 1	—	—
Muroran		55.3	59	e 9 45	+ 9	—	—	—	—
Sapporo		55.4	58	e 9 35	- 1	e 17 13	- 5	i 19 23	ScS e 31.0
Oiwake		55.4	66	e 9 41	+ 5	e 17 20	+ 2	—	—
Alicante		55.4	296	i 9 35	- 2	i 17 22	+ 3	11 43	PP e 26.6
Rathfarnham Castle		55.4	315	i 9 28 <sup>a</sup>	- 9	e 17 12	- 7	e 11 30	PP e 28.2
Akita		55.5	62	i 9 37	0	i 17 23	+ 4	e 10 42	PcP —
Sakata		55.5	63	e 9 44	+ 7	—	—	—	—
Relizane		55.5	293	e 9 36	- 1	—	—	e 11 40	PP —
Aomori		55.6	61	e 9 42	+ 4	e 17 20	- 2	—	—
Kohu		55.6	67	e 9 40	+ 2	e 17 24	+ 2	—	—
Tomakomai		55.7	58	e 9 45	+ 7	—	—	—	—
Omaesaki		55.7	68	—	—	i 17 30	+ 8	—	—
Maebasi		55.8	66	e 9 37	- 2	e 17 26	+ 3	e 10 40	PcP —
Hunatu		55.8	67	e 9 44	+ 5	—	—	—	—
Titibu		55.9	67	e 9 40	0	e 17 37	+12	—	—
Kumagaya		56.1	66	e 9 46	+ 5	—	—	—	—
Misima		56.1	68	e 9 35	- 6	e 17 30	+ 2	—	—
Yamagata		56.1	64	e 9 41	0	i 17 29	+ 1	—	—
Morioka		56.2	62	e 9 39	- 3	e 17 29	- 1	—	—
Utunomiya		56.3	66	e 9 43	0	e 17 33	+ 2	e 19 28	ScS —
Hokusima		56.4	64	9 43	0	17 33	+ 2	—	—
Shirakawa		56.4	65	e 9 42	- 1	17 34	+ 2	e 10 15	? —
Mizusawa		56.4	62	9 44	+ 1	e 17 31	- 1	—	—
Sendai		56.5	63	e 9 45	+ 1	e 17 36	+ 3	e 10 43	PcP —
Tokyo		56.5	67	9 41	- 3	17 35	+ 2	e 18 12	PPS —
Yokohama	N.	56.5	67	e 9 35	- 9	e 17 30	- 4	—	—
Osima	N.	56.5	68	—	—	e 17 31	- 3	—	—
Tananarive		56.6	205	e 9 44 <sup>a</sup>	- 1	e 17 41	+ 7	e 10 57	PcP 28.6
Tamanrasset	Z.	56.6	276	e 9 43	- 2	e 17 30	- 5	i 9 59	? —
Urakawa		56.7	58	e 9 44	- 1	e 17 35	0	e 19 35	ScS —
Kakioka	E.	56.7	66	e 9 45	0	—	—	—	—
Mito	E.	56.8	66	—	—	e 17 39	+ 1	—	—
Mera		56.8	67	9 45	- 2	e 17 38	0	—	—
Miyako		56.8	61	e 9 46	- 1	e 17 35	- 3	—	—
Onahama		57.0	65	e 9 46	- 1	—	—	—	—
Magadan		57.1	37	i 9 45	- 4	i 17 41	- 2	—	—
Abashiri		57.1	56	e 9 50	+ 1	—	—	—	—
Almeria		57.4	295	e 9 48	- 3	e 17 50	+ 4	10 42	PcP —
Kusiro		57.5	57	e 9 54	+ 2	e 17 53	+ 6	e 19 36	ScS —
Toledo		57.6	299	i 9 51 <sup>a</sup>	- 1	i 17 52	+ 5	i 13 15	PPP 31.0
Granada		58.2	296	i 9 53 <sup>a</sup>	- 3	i 18 3	+ 8	12 47	? i 30.9
Nemuro		58.2	56	e 9 52	- 5	e 17 53	- 3	—	—
Scoresby Sund		58.9	337	e 10 1	0	i 18 13	+ 8	i 19 55	ScS —
Lisbon		61.7	299	e 10 15 <sup>k</sup>	- 5	—	—	i 10 26	pP 35.1

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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		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Petropavlovsk		63.2	42	e 10	24	- 6	—	—	—	20	14	ScS
Resolute		71.1	356	e 11	13	- 7	e 21	27	PPS	e 13	53	PP
Pretoria	z.	71.2	219	i 10	51 <sub>a</sub>	-29	—	—	—	—	—	—
Pietermaritzburg	z.	73.2	215	i 11	2 <sub>k</sub>	-31	—	—	—	—	—	—
Kimberley	z.	75.4	220	i 11	44	- 1	—	—	—	—	—	—
College		77.3	15	i 11	52	- 4	i 21	40	- 8	i 22	40	PPS
Grahamstown	z.	78.1	216	i 12	0	0	—	—	—	—	—	e 31.0
Perth	z.	78.7	141	12	18	+14	—	—	—	i 28	59	?
M'Bour		79.2	280	e 11	54	-14	—	—	—	i 12	10	PcP
Rabaul		86.2	98	e 12	40	- 3	e 23	7	- 8	e 13	43	?
Sitka		86.9	13	e 16	9	PP	e 23	12	[+ 3]	e 28	58	SS
Halifax		91.0	329	—	—	—	e 23	40	[+ 6]	—	—	e 35.7
Seven Falls		91.8	334	—	—	—	23	43?	[+ 4]	—	—	e 40.6
Kirkland Lake	z.	93.8	340	e 13	17	- 1	—	—	—	—	—	—
Saskatoon		94.2	358	—	—	—	i 23	58	[+ 5]	—	—	—
Ottawa		95.0	336	e 13	27 <sub>k</sub>	+ 4	23	59	[+ 2]	17	18	PP
Horseshoe Bay		96.3	8	i 13	29	0	i 24	6	[+ 2]	—	—	—
Victoria		97.1	9	e 13	33	0	—	—	—	—	—	—
Hungry Horse		98.0	2	e 13	36	- 1	e 24	15	[+ 2]	i 17	35	PP
Seattle		98.1	8	13	40	+ 3	24	20	[+ 6]	17	31	PP
Palisades		98.1	333	e 13	39	+ 1	i 24	17	[+ 3]	e 26	31	PS
Philadelphia		99.5	333	—	—	—	e 24	19	[- 2]	e 32	5	SS
Brisbane		99.9	116	—	—	—	e 24	33	[+10]	—	—	—
Melbourne		100.0	129	e 13	44	- 2	e 25	15	- 2	e 17	56	PP
Cleveland		100.3	338	—	—	—	i 24	26	[+ 2]	e 17	56	PP
Butte	N.	100.4	1	e 13	53	+ 5	e 24	33	[+ 8]	e 17	4	PKP
Bozeman		100.7	0	e 17	18	PKP	e 24	33	[+ 7]	e 26	57	PS
Corvallis	z.	101.0	9	e 16	26	?	—	—	—	—	—	—
Riverview		102.0	123	e 13	52	- 3	i 25	35	+ 2	e 18	11	PP
Rapid City		102.0	355	e 13	55	0	—	—	—	e 18	7	PP
Shasta	z.	104.9	9	e 14	17	+ 9	—	—	—	—	—	—
Florissant		105.2	344	e 18	30	PP	24	47	[ 0]	e 20	44	PPP
Mineral	z.	105.4	9	14	15	P	—	—	—	e 17	33	?
St. Louis		105.4	344	—	—	—	e 24	48	[ 0]	27	46	PS
Salt Lake City		105.6	1	e 14	16	P	e 24	47	[- 2]	e 18	33	PP
Reno		106.4	7	—	—	—	—	—	—	e 18	31	PP
Eureka		106.8	4	e 14	23	P	—	—	—	i 18	50	PP
Columbia		107.0	335	—	—	—	e 24	57	[- 2]	e 27	51	PS
Berkeley		107.7	10	e 18	39	PP	e 25	6	[+ 8]	—	—	e 46.8
Lick	z.	108.3	9	e 18	30	[+ 2]	—	—	—	—	—	—
Tinemaha		109.0	6	—	—	—	i 25	13	[+ 9]	e 18	53	PP
Woody	z.	110.3	7	e 19	0	PP	—	—	—	—	—	—
Boulder City		110.3	4	e 18	37	[+ 5]	—	—	—	e 23	34	?
Isabella	z.	110.4	7	e 14	43	P	—	—	—	19	11	PP
King Ranch	z.	110.5	8	—	—	—	—	—	—	e 19	2	PP
Pasadena		111.9	7	e 18	39	[+ 4]	e 25	21	[+ 5]	i 28	49	PS
Riverside	z.	112.1	6	e 18	47	[+12]	e 28	51	SP	—	—	—
Hayfield	N.	112.5	5	e 19	21	PP	—	—	—	—	—	—
Palomar	z.	112.8	6	e 19	29	PP	—	—	—	—	—	—
Barrett		113.5	6	e 18	34	[- 4]	e 25	32	[+10]	e 19	35	PP
Tucson		114.1	0	e 18	47	[+ 8]	e 29	25	PS	—	—	58.8
Bogota		128.5	311	i 19	25	[+18]	—	—	—	—	—	60.6
Chinchina		129.2	313	i 19	11	[+ 3]	i 38	42	SS	i 21	21	PP
La Paz		138.3	284	19	27	[+ 2]	—	—	—	22	15?	PP
Huancayo	z.	141.3	296	e 19	33	[+ 2]	—	—	—	—	—	e 70.2
Santa Lucia		147.0	260	i 19	43	[+ 3]	—	—	—	—	—	—

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1956

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Sept. 16d. 18h. 7m. 37s. Epicentre 35°·99N. 26°·08E.

A = +·7284, B = +·3565, C = +·5851;  $\delta=0$ ;  $h=0$ ;  
D = +·440, E = -·898; G = +·526, H = +·257, K = -·811.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
Athens		2·7	317	e 0 47 <sup>k</sup>	+ 2	e 1 13	- 7	e 1 25	S <sub>g</sub>	—
Sofia		7·0	343	e 1 48	+ 1	e 3 56	+ 5 <sub>g</sub>	—	—	—
Taranto		8·3	305	2 2	- 2	—	—	—	—	—
Ksara		8·3	102	e 2 6	+ 1	e 3 42	+ 1	—	—	—
Safed		8·3	108	i 2 3	- 2	i 3 30	-11	—	—	—
Bucharest		8·4	0	e 2 32	+ 5*	e 3 39	- 4	e 4 16	S*	—
Reggio Calabria		8·6	287	—	—	3 32	-16	—	—	—
Jerusalem		8·7	116	i 2 7	- 3	i 3 41	- 8	—	—	—
Messina		8·7	288	e 2 6	- 4	e 3 43	- 7	4 51	S <sub>g</sub>	—
Focsani		9·7	5	—	—	e 5 7	+15 <sub>g</sub>	5 22	S <sub>g</sub>	—
Belgrade		9·8	336	e 2 27 <sup>a</sup>	+ 2	e 4 22	+ 5	e 3 33	P <sub>g</sub>	—
Timisoara	E.	10·4	341	e 3 23 <sup>?</sup>	+49	—	—	—	—	—
Szeged	N.	11·2	338	2 49	+ 5	4 55	+ 4	—	—	—
Iasi	N.	11·3	5	e 3 26	+40	—	—	—	—	—
Rome		12·1	303	i 3 3	+ 6	e 5 27	+13	—	—	—
Budapest		12·6	338	e 3 7	+ 4	—	—	e 3 23	PPP	7·3
Trieste		13·4	320	e 3 9	- 5	e 5 43	- 2	e 4 19	?	7·8
Florence		13·8	309	e 3 38	+19	e 6 37	SSS	e 8 55	PcP	—
Pavia		15·8	311	e 3 45	+60	—	—	—	—	—
Monaco		16·2	304	e 3 49	- 2	—	—	e 4 2	PP	—
Prague		16·4	333	i 3 55	+ 2	e 7 0	+ 4	i 4 32	PPP	—
Warsaw	z.	16·6	349	e 4 0	+ 4	—	—	—	—	—
Zürich		17·3	318	e 4 4	0	e 7 23	+ 7	—	—	—
Ebingen		17·6	319	e 4 6	- 2	—	—	—	—	—
Stuttgart		17·8	321	e 4 9	- 2	e 7 32	+ 4	e 4 13	PP	—
Basle		17·9	316	e 4 19	+ 7	e 7 31	0	—	—	—
Neuchatel		18·0	313	e 4 12	- 1	—	—	—	—	11·1
Jena		18·2	329	e 4 15	- 1	e 7 51	+14	e 4 24	PP	—
Karlsruhe		18·3	321	e 4 18 <sup>a</sup>	+ 1	e 7 48	+ 8	—	—	—
Strasbourg		18·4	319	e 4 18	0	e 7 48	+ 6	e 4 36	PP	e 10·0
Algiers Univ.	z.	18·6	279	e 4 17	- 3	e 7 28	-17	—	—	—
Besançon		18·7	313	i 4 20	- 2	—	—	i 4 33	PP	—
Clermont-Ferrand		19·9	306	e 4 33	- 3	e 8 15	+ 1	—	—	—
Relizane		20·7	277	e 4 47	+ 3	e 8 17	-14	e 5 13	PPP	—
Hamburg		20·9	332	i 4 43	- 3	—	—	—	—	e 13·4
Alicante		21·3	284	4 46	- 4	8 32	-10	5 11	PP	—
Paris		21·5	314	e 4 51	- 2	e 8 51	+ 4	e 5 7	PP	e 12·4
De Bilt		21·9	324	—	—	e 8 53	- 1	—	—	e 11·4
Tamanrasset	z.	22·2	239	e 5 0	+ 1	e 9 8	+ 9	e 5 24	PP	—
Granada		23·8	282	i 5 24	+ 9	9 25	- 4	11 7	?	—
Toledo		24·0	288	i 5 15	- 2	e 9 19	-13	—	—	—
Kew		24·4	318	e 5 21	0	e 9 43	+ 5	—	—	e 13·4
Jersey	E.	24·4	311	e 5 17	- 4	e 9 26	-13	—	—	12·4
Upsala		24·5	350	i 5 21	- 1	e 9 56	+16	—	—	—
Rathfarnham C.	z.	28·5	318	i 6 4	+ 5	—	—	i 7 6	PPP	—
Skalstugan		28·9	347	i 6 1	- 1	—	—	—	—	—
Sodankyla		31·4	0	i 6 22	- 3	—	—	—	—	—
Kiruna		32·0	356	i 6 28	- 2	—	—	—	—	—
Quetta		34·5	88	e 6 53	+ 1	—	—	—	—	—
Lwiro		38·1	176	e 7 25	+ 3	—	—	—	—	—
Astrida		38·5	174	e 7 27	+ 1	—	—	—	—	—
Uvira		39·4	175	e 7 33	0	—	—	—	—	—
Shillong	z.	56·5	81	i 9 44 <sup>k</sup>	- 2	—	—	—	—	—
Ottawa		72·6	314	e 11 33	+ 2	—	—	—	—	—
San Juan		81·1	286	e 12 19	0	—	—	—	—	—
Matusiro		84·2	49	12 35	0	e 22 58	- 1	—	—	—
Banff		86·9	337	i 12 47	- 1	—	—	—	—	—
Rapid City	E.	88·0	326	e 12 52	- 1	—	—	—	—	—
Hungry Horse		88·8	335	e 12 56	- 1	—	—	—	—	—
Butte	N.	90·3	333	e 13 10	+ 6	—	—	—	—	—
Eureka		97·1	331	e 13 40	+ 5	—	—	—	—	—



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1956

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Sept. 17d. 20h. 18m. 52s. Epicentre 4°·12N. 95°·19E. Depth of focus 0·004R.

A = -·0902, B = +·9934, C = +·0714;  $\delta = +8$ ;  $h = +7$ ;  
D = +·996, E = +·090; G = -·007, H = +·071, K = -·997.

		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Medan		3·5	99	e 0	55	+ 1	e 1	31	- 4	—	—	—
Colombo	E.	15·5	281	3	32	- 4	7	32	+65	—	—	13·7
Lembang		16·5	131	e 3	38	-11	e 6	22	-28	e 15	30	ScS
Madras	E.	17·2	302	e 3	59	0	—	—	—	—	—	—
Shillong	Z.	21·6	352	e 4	43	- 4	—	—	—	—	—	—
Poona	Z.	25·3	306	i 5	27	+ 4	—	—	—	—	—	—
Hong Kong	Z.	25·8	44	i 5	28	+ 1	—	—	—	—	—	—
Bombay		26·3	306	e 5	34	+ 2	—	—	—	e 8	55	PcP
Baguio		27·8	62	i 5	45	- 1	—	—	—	—	—	—
Dehra Dun		30·7	330	e 6	11	- 1	—	—	—	e 10	59	?
Sian		32·6	21	e 6	29	+ 1	—	—	—	—	—	—
Quetta		37·2	317	i 7	9	+ 1	12	50	0	—	—	—
Tatung		39·4	22	e 7	31	+ 5	—	—	—	—	—	—
Peking		40·5	25	i 7	36 <sub>a</sub>	+ 1	—	—	—	17	44	ScS
Namangan		42·3	333	i 7	52	+ 2	—	—	—	—	—	—
Frunse		42·7	338	7	54	+ 1	—	—	—	—	—	—
Changchun		47·6	29	8	31 <sub>a</sub>	- 2	—	—	—	—	—	—
Matusiro		51·0	45	e 8	59	+ 1	e 16	15	+ 5	—	—	—
Tananarive		52·2	242	e 9	7 <sub>a</sub>	0	—	—	—	e 9	21	pP
Rabaul	Z.	57·5	98	i 9	47	+ 1	—	—	—	i 12	29	PP
Sverdlovsk		59·3	339	9	58	0	—	—	—	—	—	—
Melbourne		62·2	137	10	17	- 1	—	—	—	e 10	35	pP
Jerusalem		62·4	304	i 10	20	0	—	—	—	i 10	46	sP
Brisbane		64·0	123	e 10	44	+14	—	—	—	—	—	—
Astrida		65·7	265	e 10	42	+ 1	—	—	—	e 10	55	pP
Uvira		66·4	264	e 10	47	+ 1	—	—	—	e 11	1	pP
Lwiro		66·6	266	e 10	47	0	—	—	—	—	—	—
Moscow		68·8	329	11	0	0	—	—	—	—	—	—
Tiksi		70·7	11	11	8	- 4	—	—	—	—	—	—
Pretoria	Z.	71·3	241	i 11	15 <sub>a</sub>	- 1	—	—	—	—	—	—
Kimberley	Z.	75·0	239	i 11	36 <sub>a</sub>	- 1	—	—	—	—	—	—
Sodankyla		78·1	338	i 11	54	0	—	—	—	i 12	9	PcP
Bratislava		79·0	318	i 12	0	0	i 12	42	?	i 12	15	pP
Upsala		80·2	330	i 12	7	+ 1	—	—	—	—	—	—
Kiruna		80·5	338	i 12	7	0	—	—	—	12	24	pP
Jena	Z.	82·8	321	e 12	20	0	—	—	—	e 12	37	pP
Skalstugan		83·2	333	i 12	20	- 1	—	—	—	—	—	—
Stuttgart		84·3	318	e 12	26	- 1	—	—	—	e 12	40	pP
Tamanrasset	Z.	88·1	293	e 12	47 <sub>k</sub>	+ 1	—	—	—	e 13	25	sP
Hungry Horse		121·8	22	e 18	49	[+ 1]	—	—	—	e 20	19	PP
Shasta	Z.	123·7	34	e 19	54	[+62]	—	—	—	—	—	—
Butte	N.	124·3	23	e 20	15	PP	—	—	—	—	—	—
Eureka		128·0	30	i 19	2	[+ 2]	—	—	—	21	4	PP
Salt Lake City		128·9	26	e 21	11	PP	—	—	—	—	—	—
Woody	Z.	129·1	36	i 22	20 <sub>a</sub>	SKP	—	—	—	—	—	—
Isabella	Z.	129·4	36	e 22	21	SKP	—	—	—	—	—	—
Ottawa		130·0	352	22	25	SKP	—	—	—	—	—	—
Pasadena	Z.	130·6	37	i 22	26 <sub>a</sub>	SKP	—	—	—	—	—	—
Riverside	Z.	131·2	36	22	29	SKP	—	—	—	—	—	—
Boulder City		131·2	37	i 22	29	SKP	—	—	—	—	—	—
Palomar	Z.	132·0	37	i 22	33 <sub>a</sub>	SKP	—	—	—	—	—	—
Boulder		132·2	21	e 21	30	PP	i 22	34	SKP	—	—	—
Hayfield	N.	132·4	35	e 22	24	SKP	—	—	—	—	—	—
Barrett	Z.	132·5	37	i 22	34	SKP	—	—	—	—	—	—
Tucson		136·2	32	i 22	46	SKP	—	—	—	—	—	—
San Juan		151·0	321	e 19	49	[+ 8]	—	—	—	—	—	—
La Paz	N.	159·5	232	e 20	26	PKP <sub>1</sub>	—	—	—	—	—	—

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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Sept. 19d. 23h. 47m. 48s. Epicentre 23°·88N. 94°·79E. Depth of focus 0·011R.

A = -·0765, B = +·9122, C = +·4026;  $\delta$  = +5;  $h$  = +4;  
D = +·997, E = +·084; G = -·034, H = +·401, K = -·915.

		$\Delta$ °	Az. °	P.		O-C. s.	S.		O-C. s.	Supp.		L. m.
				m.	s.		m.	s.		m.	s.	
Shillong		3·1	303	i 0	49 <sub>a</sub>	0	i 1	23	- 3	—	—	—
Chatra		7·5	295	i 1	47 <sub>a</sub>	- 2	i 3	5	- 8	—	—	—
Bokaro		8·2	271	i 1	55	- 4	i 3	24	- 7	2	5	PP
Sining		14·0	24	e 3	19	+ 3	—	—	—	—	—	—
Wuwei		15·5	24	e 3	30	- 5	—	—	—	—	—	—
Changyeh		15·8	17	e 3	42	+ 4	—	—	—	—	—	—
Sian		16·1	47	e 3	48	+ 7	—	—	—	—	—	—
Dehra Dun		16·2	297	e 3	45	+ 2	i 6	45	+ 5	3	58	PP
New Delhi	N.	16·5	290	e 3	48	+ 2	i 6	54	+ 9	4	4	PPP
Yumen		16·5	6	e 3	47	0	—	—	—	—	—	—
Hyderabad	E.	16·6	250	i 3	48	0	i 6	54	+ 7	4	3	PP
Canton		17·0	90	i 3	59	+ 7	—	—	—	—	—	8·4
Madras	E.	17·6	235	i 3	57	- 3	i 7	1	- 9	7	11	S
Hong Kong		17·9	91	i 4	5 <sub>a</sub>	+ 1	7	27	+10	—	—	7·7
Poona		20·2	259	i 4	29 <sub>k</sub>	0	i 7	59	- 6	4	56	PPP
Bombay		21·0	261	e 4	42	+ 4	e 8	19	- 2	4	59	PP
Kodaikanal	E.	21·4	233	i 4	45	+ 4	i 8	30	+ 3	5	27	PPP
Colombo	E.	22·1	223	—	—	—	8	42	+ 1	—	—	10·2
Tatung		22·4	40	e 4	56	+ 6	—	—	—	—	—	13·5
Nanking		22·7	64	i 4	54 <sub>a</sub>	+ 1	—	—	—	—	—	—
Peking		24·2	43	5	9	+ 2	9	21	+ 5	5	34	pP
Frunse		25·3	323	e 5	21	+ 3	i 9	38	+ 4	—	—	—
Baguio		25·3	102	e 5	22	+ 3	e 10	36	SS	—	—	—
Quetta		25·5	290	e 5	14	- 7	—	—	—	—	—	—
Stalinabad		26·5	310	e 5	31	+ 1	i 9	54	- 1	i 5	54	pP
Tashkent		27·5	315	—	—	—	i 10	11	0	e 11	45	SS
Semipalatinsk		28·8	340	e 5	51	0	—	—	—	—	—	—
Irkutsk		29·3	12	i 5	56 <sub>a</sub>	+ 1	i 10	45	+ 6	6	22	pP
Lembang	z.	33·0	156	e 6	6	-22	—	—	—	—	—	—
Ashkabad		34·0	303	6	36	- 1	11	56	+ 3	i 13	18	PcS
Vladivostok		26·0	49	e 6	52	- 1	i 12	22	- 2	e 8	18	PP
Matusiro		39·3	61	i 7	20 <sub>a</sub>	- 1	13	4	- 9	7	43	pP
Sverdlovsk		41·2	332	7	38	+ 2	13	42	0	i 8	16	pP
Goris		43·6	303	e 7	56	0	—	—	—	—	—	—
Yuzno-Sakhlinsk		44·5	46	e 8	2	- 1	e 14	29	- 1	e 17	41	SS
Tiflis		45·0	306	i 8	9	+ 2	i 14	38	+ 1	i 10	19	PP
Tiksi		51·5	13	e 8	54	- 4	e 16	5	- 3	e 9	24	pP
Ksara		51·9	295	i 9	5	+ 4	i 16	19	+ 5	—	—	—
Moscow		52·2	323	9	2	- 1	16	16	- 2	9	36	pP
Safed		52·3	294	i 9	9	+ 5	—	—	—	—	—	—
Magadan		52·6	32	—	—	—	e 16	20	- 3	—	—	—
Jerusalem		52·7	293	i 9	8 <sub>k</sub>	+ 1	—	—	—	i 9	35	sP
Simferopol		53·0	309	9	8	- 1	i 16	28	- 1	e 17	22	sS
Bucharest		58·7	309	11	0	?	e 17	49	+ 4	—	—	—
Sodankyla		59·8	335	i 9	56	- 1	i 14	31	ScP	i 10	24	pP
Lwow		59·9	315	i 9	57	- 1	i 17	56	- 3	i 10	46	PcP
Kiruna		62·2	336	i 10	13 <sub>a</sub>	0	e 18	30	+ 1	i 10	40	pP
Belgrade		62·7	309	i 10	17 <sub>a</sub>	0	e 18	39	+ 4	e 11	6	PcP
Tananarive		62·7	231	i 10	16 <sub>a</sub>	- 1	—	—	—	e 10	36	pP
Upsala		63·2	327	i 10	19 <sub>a</sub>	- 1	i 18	40	- 2	i 19	34	PPS
Bratislava		64·6	314	i 10	28	- 1	—	—	—	i 10	58	pP
Skalstugan		65·6	331	i 10	35 <sub>a</sub>	0	e 19	10	- 1	i 11	1	pP
Prague		66·0	316	i 10	38	0	e 19	15	- 1	e 20	20	ScS
Copenhagen		66·4	322	i 10	20 <sub>a</sub>	-20	e 23	39	SS	e 20	14	PPS
Trieste		67·1	311	e 10	53	+ 9	i 19	21	- 8	e 11	36	sP
Messina		67·5	303	e 10	44	- 3	e 19	32	- 2	e 11	10	pP
Jena		67·7	317	e 10	48	0	e 19	35	- 1	e 11	14	pP
Hamburg	z.	68·1	320	i 10	53 <sub>k</sub>	+ 2	—	—	—	—	—	—
Astrida		68·4	257	e 10	54	+ 1	—	—	—	—	—	—
Rome		68·9	308	e 10	56	0	e 19	51	0	i 21	6	PPS

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Lwiro	69.1	258	e 10 58	+ 1	—	—	e 13 23	PP	—
Uvira	69.4	256	e 10 58	- 1	—	—	—	—	—
Florence	69.4	310	i 10 58	- 1	e 19 53	- 3	e 13 19	PP	—
Stuttgart	69.6	315	i 11 0 <sub>a</sub>	0	e 19 58	- 1	e 11 29	pP	—
Karlsruhe	z. 70.1	316	e 11 3 <sub>a</sub>	0	—	—	—	—	—
Witteveen	z. 70.2	320	i 11 4	0	—	—	—	—	—
Strasbourg	70.6	315	i 11 6 <sub>a</sub>	0	21 6	PPS	e 25 30	sSS	—
Basle	71.0	314	e 11 9	0	—	—	—	—	—
De Bilt	71.3	319	i 11 12	+ 1	e 20 17	- 1	—	—	e 37.2
Neuchatel	71.5	314	e 11 11	- 1	—	—	—	—	—
Monaco	72.1	310	e 11 14	- 1	e 11 41	sP	e 11 33	pP	—
Besançon	72.1	314	i 11 15	0	—	—	e 12 19	?	—
Paris	73.9	317	e 11 26	0	e 20 46	- 2	e 11 50	pP	e 34.2
Clermont-Ferrand	74.4	313	e 11 29	0	—	—	—	—	—
Kew	74.6	320	i 11 31	+ 2	e 20 56	+ 1	e 21 52	sS	—
Scoresby Sund	76.1	342	i 11 38	0	i 21 15	+ 3	i 22 8	PS	—
Algiers Univ.	z. 77.4	305	i 11 46 <sub>a</sub>	0	e 21 25	- 2	e 12 14	pP	—
Rathfarnham C.	z. 77.5	323	i 11 46	0	—	—	—	—	—
Riverview	78.5	135	i 11 51	- 1	—	—	i 12 47	?	—
College	79.4	23	11 55	- 2	—	—	i 12 25	pP	—
Alicante	79.5	307	11 42	-15	21 45	- 3	16 41	PPP	e 38.5
Relizane	79.7	304	i 11 58 <sub>a</sub>	0	—	—	i 12 25	pP	—
Tamanrasset	z. 80.5	291	i 12 3 <sub>a</sub>	+ 1	e 21 57	- 2	e 12 34	pP	—
Pretoria	z. 81.2	237	i 11 39	-27	—	—	—	—	—
Toledo	81.4	310	i 12 7 <sub>a</sub>	0	22 21	+12	—	—	—
Resolute	81.5	3	i 12 6 <sub>k</sub>	- 2	e 21 54	-15	e 27 20	SS	—
Almeria	81.5	306	i 12 8	0	—	—	—	—	—
Granada	82.1	307	e 12 39 <sub>k</sub>	+29	22 15	0	28 9	SS	40.4
Hungry Horse	103.6	19	e 17 56	PP	e 24 15	[- 5]	e 18 30	pPP	—
Kirkland Lake	108.2	356	e 18 41	PP	—	—	—	—	—
Shawinigan Falls	109.0	351	e 18 51	PP	—	—	—	—	—
Rapid City	E. 110.4	14	e 19 8	PP	—	—	—	—	—
Ottawa	110.5	353	e 18 59	PP	—	—	—	—	—
Eureka	110.7	25	e 18 18	[- 3]	—	—	e 19 1	PP	—
Woody	z. 112.7	29	e 13 14	?	—	—	—	—	—
Tucson	119.0	25	18 41	[+ 4]	—	—	e 20 40	?	—
San Juan	134.0	334	i 22 26	SKP	—	—	—	—	—
Huancayo	z. 165.0	320	i 19 56	[+ 3]	—	—	i 20 53	PKP <sub>2</sub>	—

Sept. 20d. 20h. 6m. 8s. Epicentre 51°·44N. 159°·5E.

$$A = -.5862, B = +.2192, C = +.7799; \quad \delta = -8; \quad h = -6;$$

$$D = +.350, E = +.937; \quad G = -.731, H = +.273, K = -.626.$$

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Petropavlovsk	1.8	343	i 0 32	0	i 0 56	0	i 0 42	sP	—
Klyuchi	4.9	8	i 1 19	+ 2	e 2 23	+ 7	e 1 29	PP	—
Magadan	9.5	332	e 2 24	+ 3	—	—	i 2 36	sP	—
Kurilsk	9.9	236	e 2 27	0	—	—	—	—	—
Ulegorsk	11.4	265	e 2 50	+ 3	—	—	e 3 2	PP	—
Vladivostok	20.4	257	e 4 37	- 4	—	—	i 4 59	PP	—
Matusiro	21.2	234	i 4 50 <sub>a</sub>	0	8 48	+ 6	—	—	10.8
Tiksi	24.4	337	e 5 19	- 2	e 10 35	SS	e 5 51	PP	—
College	29.9	43	i 6 9	- 2	—	—	—	—	—
Irkutsk	33.4	294	e 6 41	- 1	—	—	e 7 59	PP	—
Resolute	z. 45.0	21	—	—	(e 18 1)	SS	—	—	e 18.0
Hong Kong	45.4	248	e 8 22?	0	—	—	—	—	—
Hungry Horse	52.6	57	e 9 18	0	—	—	—	—	—
Shasta	52.8	69	e 9 20	+ 1	—	—	—	—	—
Sverdlovsk	53.2	317	9 20	- 2	e 20 44	SS	—	—	—

Continued on next page.

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		$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Reno	z.	55.1	69	e 9 36	0	—	—	—	—
Frunse		55.3	297	e 9 35	- 2	—	—	—	—
Lick	z.	55.4	72	e 9 42	+ 4	—	—	—	—
Rabaul	z.	55.8	189	e 9 41	0	—	—	—	—
Shillong	z.	56.6	270	i 9 47	0	—	—	—	—
Fresno	z.	56.9	71	e 9 48	- 1	—	—	—	—
Kiruna		57.2	343	i 9 49 <sup>a</sup>	- 2	—	—	—	—
Eureka		57.3	66	i 9 53	+ 1	—	—	i 10 36	PcP
Boulder City		60.4	68	e 10 14	+ 1	—	—	i 11 1	PcP
Rapid City	E.	61.1	55	e 10 20	+ 2	—	—	—	—
Skalstugan		62.5	344	i 10 25 <sup>a</sup>	- 2	—	—	—	—
Moscow		62.9	327	e 10 27	- 3	—	—	—	—
Upsala		64.9	340	10 41 <sup>a</sup>	- 2	—	—	—	—
Tucson		65.3	69	e 11 11	+25	—	—	—	—
Ashkabad		67.5	303	e 11 1	+ 1	—	—	—	—
Quetta		68.5	292	e 11 5	- 1	—	—	—	—
Copenhagen		69.8	341	e 11 13	- 1	—	—	(38 52)	P'P'
Tiflis		71.3	314	e 11 23	0	e 21 15	PS	—	—
Fayetteville		71.6	55	i 11 25 <sup>k</sup>	0	—	—	—	—
Lwow		72.2	331	i 11 28	- 1	—	—	—	—
Hamburg	z.	72.3	341	i 11 31 <sup>k</sup>	+ 2	—	—	—	—
Goris		72.3	312	e 11 28	- 1	—	—	—	—
Shawinigan Falls		72.5	35	e 11 28	- 3	—	—	—	—
Simferopol		73.0	323	11 34	+ 1	—	—	—	—
Poona	z.	73.1	278	i 11 33	- 1	—	—	—	—
Brébeuf		73.1	36	i 11 33 <sup>a</sup>	- 1	—	—	—	—
Witteveen	z.	73.7	343	i 11 37	- 1	—	—	—	—
Jena	z.	74.4	340	e 11 41	- 1	—	—	e 12 31	?
De Bilt		74.6	344	i 11 43	+ 1	e 21 22	+ 4	—	e 38.9
Rathfarnham C.	z.	74.9	351	i 11 45	0	—	—	—	—
Morgantown		75.5	43	i 12 2	PcP	—	—	—	—
Bratislava		75.7	335	i 11 48	- 1	—	—	i 12 0	PcP
Stuttgart		77.0	340	e 11 56	0	—	—	e 12 3	PcP
Strasbourg		77.5	341	e 11 58	- 1	e 21 52	+ 3	e 12 11	PcP
Paris		78.2	345	e 12 4	+ 1	e 21 46	-11	e 12 36	? e 42.4 e 45.9
Besançon		79.1	342	e 12 8	0	—	—	—	—
Clermont-Ferrand		81.0	343	e 12 19	+ 1	—	—	—	47.9
Florence		81.2	337	e 12 28	+ 9	—	—	—	—
Ksara		81.7	315	i 12 22	0	—	—	e 15 30	PP
Monaco		82.2	340	e 12 26 <sup>k</sup>	+ 2	—	—	—	—
Safed		82.6	315	i 12 27	+ 1	—	—	—	—
Rome		82.7	336	—	—	e 22 59	+15	—	—
Tairanrasset	z.	102.6	335	e 18 0	PP	—	—	—	—

Sept. 20d. 21h. 52m. 1s. Epicentre 51°·58N. 159°·5E.

A = -·5844, B = +·2185, C = +·7815;  $\delta = +1$ ;  $h = -6$ ;  
D = +·350, E = +·937; G = -·732, H = +·274, K = -·624.

		$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Petropavlovsk		1.6	342	i 0 30	+ 2	i 0 54	+ 5	0 42	PP
Klyuchi		4.8	8	i 1 16	+ 3	e 2 20	+11	i 1 27	P*
Magadan		9.4	332	i 2 20	+ 3	e 4 16	+13	e 2 31	PP
Kurilsk		10.0	235	i 2 23	- 3	—	—	i 2 43	PPP
Ulegorsk		11.4	264	i 2 47	+ 2	—	—	i 2 58	PP
Yuzno-Sakhlinsk		11.9	254	i 2 46	- 6	—	—	—	—
Nemuro		12.5	234	e 2 55	- 5	—	—	—	e 6.3
Abashiri		12.7	239	e 3 0	- 3	—	—	—	—
Wakkanai	N.	13.3	249	e 3 49	+38	—	—	—	6.8
Kusiro		13.4	236	e 3 12	+ 1	e 5 51	+11	—	—

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Obihiro	Z.	14.0	238	e 3 16	- 4	—	—	—	—
Urakawa		14.8	237	e 3 29	- 1	e 6 23	+ 9	—	—
Sapporo		14.9	242	e 3 28	- 4	e 6 38	SS	i 4 35	?
Tomakomai		15.2	240	e 3 23	-12	—	—	—	—
Mori	E.	16.0	241	e 3 47	+ 1	—	—	—	—
Hatinohe		16.6	235	e 3 53	0	—	—	—	—
Aomori		16.8	237	e 3 46	-10	—	—	—	—
Miyako		17.1	232	e 3 56	- 3	e 7 1	- 6	—	—
Morioka		17.4	234	e 4 4	0	e 7 19	4	—	—
Mizusawa		17.9	233	4 11	+ 2	7 37	+11	—	—
Akita		17.9	236	e 4 13	+ 3	—	—	—	—
Sendai		18.6	232	e 4 16	- 3	e 8 0	+17	—	—
Sakata		18.7	235	e 4 19	0	—	—	—	—
Yamagata		18.9	233	e 4 15	- 7	—	—	—	—
Hokusima		19.3	231	4 25	- 1	7 57	0	—	—
Onahama		19.7	229	e 4 33	+ 2	e 7 59	- 8	—	—
Niigata		19.8	234	4 31	- 2	—	—	—	—
Shirakawa		19.9	231	e 4 32	- 1	e 8 20	+ 9	—	—
Aikawa		20.2	236	4 35	- 1	e 8 13	- 4	—	—
Mito	E.	20.4	229	e 4 47	+ 9	—	—	—	—
Vladivostok		20.4	256	i 4 33	- 6	e 8 55	SS	—	—
Utunomiya	N.	20.5	230	e 4 38	- 2	e 8 36	+13	—	—
Kakioka	E.	20.6	229	e 4 39	- 2	8 43	+18	—	—
Takada		20.9	234	e 4 43	0	—	—	—	—
Maebasi		21.0	232	e 4 43 <sub>a</sub>	- 2	e 8 22	-11	—	—
Kumagaya		21.1	231	e 4 47	+ 2	e 8 45	+11	—	—
Nagano	N.	21.2	234	e 4 48	+ 1	e 8 48	+11	—	—
Tokyo		21.3	229	e 4 47	0	8 33	- 5	—	—
Matusiro		21.3	233	i 4 46 <sub>a</sub>	- 2	8 38	- 1	9 11	SS
Oiwake		21.3	232	e 4 48	0	e 8 45	+ 6	—	11.0
Titibu		21.3	231	e 4 47	- 1	—	—	—	—
Matumoto	N.	21.7	233	i 4 52	0	—	—	—	—
Toyama		21.7	235	e 4 52	0	e 9 0	+13	e 5 11	PP
Mera		21.8	228	4 53	0	e 9 13	SS	e 5 36	PPP
Kohu		21.9	231	e 4 52	- 1	e 8 50	+ 1	—	—
Hunatu		21.9	231	4 56	+ 2	e 8 58	+ 9	—	—
Misima		22.1	230	e 4 54	- 2	e 9 25	SS	e 5 20	PP
Kanazawa		22.1	236	e 4 58	+ 2	—	—	—	—
Osima	N.	22.2	229	e 5 0	+ 3	e 9 11	+16	—	—
Iida		22.3	232	e 5 1	+ 3	—	—	—	—
Shizuoka		22.5	231	5 0	0	9 11	+10	—	—
Hukui		22.7	236	e 5 3	+ 1	—	—	—	—
Omaesaki		22.9	230	e 5 3	0	e 9 33	+25	e 5 23	PP
Gihu		22.9	234	i 5 4	0	9 52	SS	—	e 13.2
Nagoya	E.	23.0	233	e 5 6	+ 1	—	—	—	e 12.9
Ibukisan	N.	23.2	235	e 5 15	+ 9	—	—	—	—
Hikone		23.3	235	5 9	+ 1	9 27	+12	—	11.9
Kameyama	E.	23.5	234	5 10	0	e 9 34	+15	—	e 12.2
Kyoto		23.8	235	5 14	+ 2	9 34	+10	—	—
Toyooka		23.9	237	e 5 13	0	—	—	e 6 4	PPP
Nara		24.0	234	e 5 15	+ 1	—	—	—	—
Changchun		24.1	265	e 5 7	- 8	11 32	L	—	(11.5)
Osaka		24.2	235	e 5 18	+ 2	—	—	e 5 32	?
Owase	N.	24.3	233	e 5 18	+ 1	e 9 43	+11	—	—
Tiksi		24.3	337	i 5 16	- 1	e 10 26	SS	e 6 0	PP
Kobe		24.3	235	e 5 20	+ 3	e 9 37	+ 4	—	—
Yonago		24.7	239	5 22	+ 1	i 9 57	+18	—	—
Sumoto		24.7	235	e 5 21	0	—	—	—	e 13.0
Tokusima		25.1	235	e 5 25	0	e 9 54	+ 8	—	14.0
Takamatu		25.2	237	e 5 27	+ 1	e 9 53	+ 6	—	e 13.4
Hamada		25.8	240	e 5 37	+ 5	—	—	—	—
Koti		26.1	236	e 5 34	0	e 10 3	+ 1	—	—
Simidu		26.9	236	e 5 43	+ 1	—	—	—	—
Ooita	E.	27.3	239	e 5 45	0	—	—	e 7 25?	—
Hukuoka		27.7	241	e 5 49	0	e 10 43	+15	—	—

Continued on next page.



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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Miyazaki		28.4	237	e 5 56	0	e 10 51	+11	—	—
Kagosima		29.2	238	e 6 1	- 1	—	—	e 6 40	PP
College		29.8	43	i 6 7	0	—	—	i 7 41	?
Peking		31.9	266	6 21 <sub>a</sub>	- 5	11 32	- 3	—	—
Kwanting		32.1	267	e 6 29	+ 1	—	—	—	—
Kyakhta		32.8	289	i 6 33 <sub>a</sub>	- 1	—	—	7 40	PP
Tatung		33.6	268	e 6 46	+ 4	—	—	—	—
Zô-Sè		34.8	249	i 6 50 <sub>a</sub>	- 1	12 25	+ 5	8 32	PPP
Nanking		35.5	253	i 6 55 <sub>a</sub>	- 2	e 12 33	+ 2	—	—
Linfen		37.2	264	e 7 9	- 3	—	—	—	—
Sian		40.0	264	e 7 50	+15	—	—	—	—
Resolute		44.9	21	i 8 15 <sub>k</sub>	0	e 14 58	+ 7	e 10 15	PP
Canton		45.4	249	i 8 19 <sub>a</sub>	0	e 17 2	?	e 10 2	PP
Hong Kong		45.5	247	8 19 <sub>a</sub>	- 1	e 15 2?	+ 2	—	—
Semipalatinsk		47.5	302	e 8 35	- 1	—	—	—	—
Corvallis	z.	49.8	66	e 9 5	+11	—	—	—	—
Hungry Horse		52.6	57	e 9 13	- 1	—	—	e 19 6	ScS
Shasta	z.	52.7	69	e 9 16	0	—	—	—	—
Sverdlovsk		53.1	317	9 16	- 3	—	—	19 4	ScS
Ukiah		53.3	71	e 9 27	+ 7	—	—	—	—
Mineral	z.	53.4	69	e 9 20	- 1	—	—	—	—
Berkeley		54.7	72	e 9 32	+ 2	e 16 12	-55	e 11 43	PP
Butte	N.	54.8	58	i 10 5	+34	—	—	—	i 26.4
Reno	z.	55.0	69	e 9 33	+ 1	—	—	—	—
Frunse		55.2	297	i 11 56	PP	e 17 12	- 3	—	—
Lick	z.	55.4	72	e 9 36	+ 1	—	—	—	—
Bozeman		55.8	58	e 9 39	0	—	—	—	—
Rabaul	z.	55.9	189	e 9 38	- 1	—	—	i 11 5	?
Shillong	z.	56.6	270	i 9 42	- 2	—	—	—	—
Fresno	z.	56.9	71	e 9 46	0	—	—	—	—
Kiruna		57.0	343	i 9 45 <sub>a</sub>	- 2	e 17 42	+ 3	—	—
Eureka		57.3	66	i 9 49	0	—	—	—	—
Tinemaha		57.6	70	e 9 50	- 1	i 17 50	+ 4	—	—
King Ranch	z.	57.9	72	e 9 54	+ 1	—	—	—	—
Woody	z.	58.1	71	i 9 54	- 1	—	—	e 12 4	PP
Scoresby Sund		58.2	1	i 9 55	0	e 17 52	- 3	—	29.0
Isabella	z.	58.4	71	e 9 57	0	—	—	e 10 27	?
Chatra	z.	58.7	275	e 9 57	- 1	—	—	—	—
Salt Lake City		58.7	63	e 10 1	+ 2	—	—	—	—
China Lake	z.	58.8	70	e 9 59	0	—	—	—	—
Tashkent		59.2	299	i 9 58	- 4	e 18 5	- 2	e 21 55	SS
Pasadena		59.6	72	e 10 4	- 1	i 18 14	+ 1	i 10 17	?
Riverside		60.2	72	e 10 7	- 2	e 18 23	+ 3	e 13 2	PP
Boulder City		60.3	69	i 10 10	0	i 18 41	+19	10 28	?
Palomar		61.0	72	e 10 13	- 1	—	—	i 10 42	PcP
Rapid City	E.	61.0	55	i 10 15	0	—	—	e 39 33	P'P'
Hayfield	N.	61.4	71	e 10 22	+ 5	—	—	—	—
Stalinabad		61.4	297	i 10 15	- 2	—	—	—	—
Barrett		61.5	72	e 10 18	0	i 18 40	+ 3	—	—
Dehra Dun		61.8	284	e 10 16	- 4	i 18 41	+ 1	—	—
Skalstugan		62.3	344	i 10 21 <sub>a</sub>	- 2	—	—	i 11 46	?
Moscow		62.7	327	i 10 25	- 1	e 18 54	+ 2	e 12 43	PP
Upsala		64.7	340	i 10 38 <sub>a</sub>	- 1	i 19 16	- 1	—	—
Tucson		65.3	69	e 10 43	0	—	—	e 15 3	PPP
Ashkabad		67.5	303	i 10 57 <sub>a</sub>	0	—	—	—	—
Kirkland Lake	z.	68.4	38	e 11 0 <sub>a</sub>	- 2	—	—	e 11 11	?
Quetta		68.5	292	11 1	- 2	—	—	—	—
Copenhagen		69.7	341	i 11 10	- 4	e 20 20	- 2	e 20 33	PS
Warsaw		70.8	334	e 11 16	- 1	e 20 25	- 5	i 11 34	PcP
Tiflis		71.2	314	i 11 19	0	e 20 40	+ 6	i 21 23	ScS
Florissant		71.3	51	e 11 19	- 1	20 37	+ 1	i 12 16	?
St. Louis		71.5	51	11 20 <sub>k</sub>	- 1	e 20 34	- 3	i 11 36	PcP
Fayetteville		71.6	55	i 11 21 <sub>k</sub>	- 1	—	—	e 12 11	?
Lwow		72.1	331	i 11 24	- 1	i 20 48	+ 3	i 11 46	PcP
Hamburg	z.	72.1	341	i 11 27 <sub>a</sub>	+ 2	—	—	i 11 41	PcP

Continued on next page.

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		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.
Goris		72.2	312	i 11	26	0	i 20	51	+ 5	—	—	—
Ottawa		72.3	37	e 11	25 <sub>a</sub>	- 1	—	—	—	i 14	7	PP
Shawinigan Falls		72.4	35	i 11	18 <sub>k</sub>	- 9	—	—	—	—	—	—
Seven Falls		72.6	33	e 11	26 <sub>?</sub>	- 2	20	51 <sub>?</sub>	0	—	—	—
Durham	N.	72.8	349	11	35	+ 6	21	3	+10	e 21	33	PS e 32.5
Simferopol		72.9	323	11	30	0	e 20	58	+ 4	—	—	—
Brébeuf		73.0	36	i 11	29 <sub>a</sub>	- 1	—	—	—	—	—	—
Poona		73.0	278	i 11	31 <sub>a</sub>	+ 1	e 20	53	- 2	21	21	PS
Lembang	Z.	73.1	235	i 11	27	- 4	—	—	—	—	—	—
Iasi		73.3	328	e 11	31	- 1	—	—	—	e 12	13	PcP
Bombay		73.4	279	11	35	+ 2	e 21	0	+ 1	—	—	—
Witteveen	Z.	73.5	343	i 11	34	+ 1	—	—	—	—	—	—
Skalnate Pleso		73.8	333	i 11	33	- 2	e 21	9	+ 5	i 12	38	?
Jena		74.3	340	e 11	37	- 1	e 21	15	+ 5	e 14	19	PP
De Bilt		74.4	344	i 11	38 <sub>a</sub>	- 1	e 21	19	+ 8	i 11	39	pP e 38.0
Prague		74.5	337	e 11	39	0	e 21	23 <sub>?</sub>	+12	e 13	37	?
Focsani	E.	74.7	327	e 11	44	+ 4	—	—	—	—	—	—
Rathfarnham C.	Z.	74.8	351	i 11	43	+ 2	—	—	—	e 18	12	?
Morgantown		75.4	43	i 11	46 <sub>k</sub>	+ 2	—	—	—	—	—	—
Hurbanovo		75.5	334	i 11	46	+ 1	—	—	—	e 14	29	PP
Bratislava		75.5	335	i 11	44	- 1	e 21	27	+ 4	i 14	18	PP
Budapest	N.	75.6	333	11	45	- 1	—	—	—	11	56	PcP
Campulung	N.	75.8	329	e 11	49	+ 2	—	—	—	—	—	—
Kew		75.9	347	e 11	47	- 3	e 21	29	+ 2	e 14	39	PP e 38.0
Bucharest		76.2	328	e 11	51	+ 2	e 21	34	+ 3	18	5	?
Kalossa		76.5	333	11	53	+ 2	—	—	—	—	—	—
Timisoara	E.	76.6	331	e 11	55	+ 4	—	—	—	—	—	e 44.0
Palisades		76.7	39	i 11	53	+ 1	e 21	37	+ 1	e 26	28	SS e 35.6
Karlsruhe	Z.	76.8	341	e 11	51 <sub>k</sub>	- 1	—	—	—	e 14	45	PP
Stuttgart		76.8	340	i 11	52 <sub>a</sub>	0	e 21	41	+ 3	e 12	56	ScS
Kodaikanal	E.	77.1	270	—	—	—	—	—	—	e 21	44	ScS
Strasbourg		77.3	341	i 11	55 <sub>a</sub>	0	e 21	49	+ 6	i 14	55	PP e 42.0
Ebingen		77.5	340	e 11	56	0	—	—	—	—	—	—
Belgrade		77.7	331	i 11	57 <sub>a</sub>	0	e 22	5	+18	—	—	—
Paris		78.1	345	e 12	1	+ 2	e 21	55	+ 4	e 12	11	PcP e 43.0
Colombo	E.	78.2	266	e 12	24	PcP	21	51	- 1	—	—	42.9
Basle		78.4	341	e 12	0	- 1	—	—	—	—	—	—
Sofia		78.7	329	e 12	3	0	—	—	—	—	—	—
Triest		78.7	336	i 12	1	- 2	i 21	55	- 3	i 22	16	ScS 39.0
Besançon		79.0	342	e 12	4	0	—	—	—	i 12	23	PcP
Columbia		79.6	47	e 12	8	0	—	—	—	—	—	e 42.3
Oropa		80.1	340	e 12	16	+ 6	—	—	—	—	—	—
Pavia		80.3	339	e 12	10	- 1	—	—	—	e 22	58	PS
Bologna		80.4	337	e 12	23	+11	—	—	—	e 22	38	ScS
Clermont-Ferrand		80.9	343	i 12	15 <sub>a</sub>	+ 1	e 22	39	+18	—	—	43.0
Florence		81.1	337	i 12	13 <sub>a</sub>	- 3	i 22	29	+ 6	12	42	PcP
Ksara		81.6	315	i 12	19	+ 1	—	—	—	e 15	29	PP
Tacubaya		81.8	69	e 12	41	PcP	—	—	—	e 15	9	PP
Monaco		82.0	340	e 12	20 <sub>a</sub>	0	—	—	—	e 12	31	PcP
Rome		82.6	336	i 12	23	0	i 22	39	+ 1	e 31	57	SSS
Taranto		82.6	332	e 21	51	?	—	—	—	—	—	—
Messina		85.2	332	i 12	34 <sub>k</sub>	- 2	e 23	7	+ 3	e 24	3	PS
Merida		86.0	61	e 22	44	?	e 23	17	+ 5	—	—	—
Toledo	Z.	87.8	347	e 12	49	0	23	19	-10	—	—	—
Alicante		88.7	344	12	55	+ 1	23	40	+ 2	16	26	PP e 42.2
Algiers Univ.	Z.	89.6	341	e 12	56	- 2	—	—	—	e 16	31	PP
Melbourne	Z.	89.9	191	i 12	45	-14	e 23	25	[- 2]	i 23	8	?
Granada		90.4	340	13	19 <sub>k</sub>	+15	23	32	[- 3]	i 24	2	S i 45.3
Almeria		90.5	346	e 16	36	PP	—	—	—	—	—	—
Relizane		91.1	343	e 13	5	0	—	—	—	e 16	43	PP
Tamanrasset	Z.	102.5	335	13	53	- 3	—	—	—	e 18	6	PP
Tananarive		118.2	275	e 19	58	PP	—	—	—	—	—	—
Pretoria	Z.	135.2	286	e 19	20	[+ 2]	—	—	—	—	—	—
Kimberley	Z.	139.4	286	e 19	26 <sub>k</sub>	[ 0]	—	—	—	—	—	—

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Sept. 20d. 23h. 3m. 8s. Epicentre 1°17S. 23°93W.

A = +0.9139, B = -0.4055, C = -0.0202;  $\delta = +5$ ;  $h = +7$ ;  
D = -0.406, E = -0.914; G = -0.018, H = +0.008, K = -1.000.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		°	°	m. s.	s.	m. s.	s.	m. s.	m.	
M'Bour		16.9	24	e 3 57	- 3	e 7 24	+16	i 4 19	PP	8.9
Tamanrasset	z.	37.3	48	e 7 10	- 6	e 12 49	-15	e 8 33	PP	—
Angra do Heroismo		39.7	356	e 9 39	PcP	e 16 39	SS	—	—	—
Lisbon	z.	42.0	17	e 8 13	+18	—	—	—	—	—
Granada		42.5	24	i 8 4k	+ 5	i 14 55	+32	9 45	PP	i 22.1
Almeria		42.7	26	i 8 0	- 1	e 14 23	- 3	e 9 39	PP	e 21.7
Relizane		43.2	29	e 8 1	- 4	—	—	e 9 34	PP	—
Toledo		44.7	22	i 8 20	+ 3	e 14 39	-15	10 26	PPP	21.5
Alicante		44.9	26	i 8 44	+26	15 1	+ 5	—	—	e 21.0
Algiers Univ.	z.	45.3	31	e 8 20	- 2	—	—	e 10 4	PP	—
Tunis		49.2	36	—	—	e 15 58	0	e 18 47	ScS	—
Huancayo		52.1	256	e 9 15	+ 1	—	—	e 19 2	ScS	i 22.9
Hermanus		52.1	134	e 9 28	+14	—	—	e 16 36	PS	—
Clermont-Ferrand		52.5	24	e 9 17	0	i 16 53	+10	e 20 32	SS	—
Lwiro		52.7	92	e 9 18k	- 1	—	—	—	—	e 26.8
Monaco		52.8	28	e 9 22	+ 3	—	—	e 10 12	PcP	—
Uvira		53.0	93	e 9 15	- 6	—	—	—	—	—
Messina		53.4	39	e 9 26	+ 2	i 17 2	+ 6	e 12 36	PPP	26.3
Astrida		53.6	92	e 9 19	- 6	—	—	—	—	—
Rome		54.0	33	e 9 28	- 1	i 17 13	+ 9	e 11 32	PP	—
Santa Lucia		54.3	229	8 35	-55	—	—	—	—	—
Oropa		54.5	27	e 9 43	+11	—	—	—	—	—
Pavia		54.7	28	e 9 34	+ 1	e 17 13	0	e 11 36	PP	—
Florence		54.7	31	e 9 30	- 3	i 17 17	+ 4	e 11 38	PP	—
Paris		54.8	21	e 9 32	- 2	e 17 2	-12	i 9 52	?	—
Besançon		54.9	24	e 9 38	+ 3	—	—	—	—	—
Bologna		55.2	30	e 9 37	- 1	—	—	—	—	—
Basle		55.8	25	e 9 58	+17	—	—	—	—	—
Taranto		55.9	37	—	—	16 44	-45	—	—	28.9
Kew		56.1	18	e 9 59	+15	e 17 30	- 2	e 23 22	SSS	—
Rathfarnham C.	z.	56.2	13	e 9 47	+ 2	—	—	e 11 21	PP	—
Strasbourg		56.6	24	e 9 50	+ 3	e 17 40	+ 2	e 12 4	PP	e 23.9
Grahamstown	z.	57.1	130	e 9 50	- 1	—	—	—	—	—
Triest		57.3	31	i 9 50?	- 2	i 17 50?	+ 3	i 19 44	ScS	28.9
Stuttgart		57.4	25	e 9 50	- 3	e 17 54	+ 5	e 10 9	?	—
De Bilt		58.5	21	e 10 28	+28	e 17 58	- 2	—	—	e 24.9
Witteveen	z.	59.6	21	e 10 24	+16	—	—	—	—	—
Jena	z.	60.0	25	e 10 8	- 3	—	—	e 12 36	PP	—
Belgrade		60.4	35	e 10 19 <sub>a</sub>	+ 5	—	—	e 20 23	ScS	—
Bratislava		60.7	30	i 10 11	- 5	—	—	i 11 9	PcP	30.9
Aberdeen		60.7	13	e 11 52	?	e 18 32	PS	—	—	—
Timisoara	E.	61.4	34	e 11 52?	?	—	—	—	—	e 33.9
Hamburg		61.4	22	i 10 39k	+18	—	—	—	—	e 26.9
Palisades		61.7	319	i 11 37	?	—	—	—	—	e 28.1
Bucharest		63.5	38	e 9 54	-41	e 20 0	ScS	—	—	29.9
Copenhagen		63.9	22	e 10 51?	+14	e 19 12?	- 1	—	—	28.4
Safed		65.4	53	i 10 52	+ 5	—	—	i 14 48	PPP	—
Ksara		66.0	52	e 10 54	+ 4	e 19 52	+14	e 13 26	PP	—
Upsala		68.9	21	i 11 21	+12	—	—	—	—	—
Kirkland Lake	z.	69.0	323	e 11 13	+ 3	—	—	—	—	—
Skalstugan		69.9	16	i 11 15	0	—	—	i 11 29	PcP	—
Tananarive		72.1	109	e 11 26	- 3	e 20 52	+ 2	—	—	—
Fayetteville		74.8	308	e 11 39	- 5	—	—	—	—	—
Kiruna		75.4	16	e 11 44	- 3	—	—	—	—	—
Tucson		88.0	302	e 13 15	+22	—	—	—	—	—
Hungry Horse		90.9	318	e 13 13	+ 6	—	—	—	—	—
Quetta		91.3	60	e 13 8	- 1	—	—	—	—	—
Eureka		92.3	309	e 13 56	+23	—	—	—	—	—

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Sept. 21d. 19h. 11m. 57s. Epicentre 27°·24S. 63°·01W. Depth of focus = 0·081R.

A = +0·4040, B = -0·7934, C = -0·4553;  $\delta=0$ ;  $h=+3$ ;  
D = -0·891, E = -0·454; G = -0·207, H = +0·406, K = -0·890.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		°	°	m. s.	s.	m. s.	s.	m. s.	m.
Copiapo	E.	6·5	267	e 1 44	0	i 3 7	0	1 59	?
Antofagasta	N.	7·6	296	e 1 55	+ 1	i 3 30	+ 5	—	—
Buenos Aires		8·3	153	i 2 2	+ 1	i 3 40	+ 2	—	—
La Plata		8·8	151	i 2 7 <sub>a</sub>	+ 1	i 3 46	- 1	13 39	S <sub>c</sub> S
Santa Lucia	N.	9·0	225	2 7	- 2	3 47	- 5	3 26	sP
La Paz		11·7	335	i 2 31	- 4	i 4 37	- 4	i 5 9	SS
Concepción		12·2	216	e 4 17	sP	i 4 33	-18	—	—
Huancayo		19·0	320	i 3 50	+ 2	i 6 53	+ 2	e 10 26	S <sub>c</sub> P
Bogota		33·4	340	i 5 55	+ 1	i 10 36	- 3	i 15 10	S <sub>c</sub> S
Chinchina		34·3	337	i 6 1	0	i 10 47	- 4	i 15 11	S <sub>c</sub> S
Trinidad		37·7	2	e 6 32	+ 2	—	—	—	—
Fort de France		41·8	3	e 7 3	+ 1	—	—	—	—
Dominica		42·3	2	e 7 7	0	—	—	—	—
San Juan		45·4	356	i 7 30	- 1	—	—	i 8 57	P <sub>c</sub> P
M'Bour		60·9	53	i 9 23	+ 2	e 11 32	PP	i 11 21	pP
Columbia		63·3	343	e 9 36	0	i 17 23	- 3	i 11 33	pP
Chapel Hill		64·6	346	e 9 43	- 1	—	—	i 11 43	pP
Palisades		68·6	351	i 10 10	0	i 18 30	+ 1	e 21 55	SS
Fayetteville		69·5	333	i 10 13 <sub>k</sub>	- 2	—	—	—	—
Halifax		71·5	0	i 10 26 <sub>k</sub>	- 1	—	—	—	—
Brébeuf		73·0	352	i 10 35 <sub>k</sub>	0	—	—	—	—
Ottawa		73·2	351	e 10 26 <sub>a</sub>	-10	19 5	-16	12 39	pP
Shawinigan Falls		74·0	353	i 10 41 <sub>a</sub>	0	—	—	12 42	pP
Seven Falls		74·3	354	i 10 47 <sub>a</sub>	+ 4	19 38 <sub>?</sub>	+ 5	12 50 <sub>?</sub>	pP
Tucson		74·6	319	e 10 44	0	i 19 35	- 1	i 12 47	pP
Grahamstown	Z.	75·3	120	i 10 49 <sub>a</sub>	+ 1	—	—	—	—
Kimberley	Z.	75·6	115	i 10 47 <sub>a</sub>	- 3	—	—	—	—
Kirkland Lake	Z.	76·6	348	e 10 54 <sub>k</sub>	- 1	—	—	e 12 57	pP
Boulder		77·6	328	e 10 30	-31	—	—	—	—
Barrett		78·4	316	i 11 4	- 1	i 20 17	+ 1	i 13 11	pP
Hayfield	N.	78·5	317	e 11 12	+ 7	—	—	e 13 10	pP
Palomar	Z.	79·0	316	i 11 8	0	i 11 16	P <sub>c</sub> P	i 13 13	pP
Boulder City		79·6	320	i 11 12	+ 1	e 20 33	+ 5	i 13 16	pP
Pretoria	Z.	79·6	114	i 11 10 <sub>a</sub>	- 1	—	—	—	—
Riverside		79·8	317	i 11 11	- 1	e 20 26	+ 5	i 13 16	pP
Rapid City	E.	79·9	332	i 11 13	0	—	—	i 13 17	pP
Pasadena		80·4	316	i 11 14	- 1	e 20 34	- 2	i 13 19	pP
China Lake	Z.	81·1	318	i 11 19	0	e 20 41	- 3	i 13 23	pP
Salt Lake City		81·4	325	e 11 21	0	—	—	i 13 27	pP
Isabella	Z.	81·5	317	e 11 21	0	e 20 47	- 1	i 13 26	pP
Woody	Z.	81·8	317	i 11 23	+ 1	e 21 1	+11	i 13 28	pP
King Ranch	Z.	82·1	316	e 11 25	+ 1	—	—	e 13 29	pP
Tinemaha		82·3	318	i 11 25	0	i 20 58	+ 2	i 13 31	pP
Lisbon	Z.	82·7	39	e 11 27	0	—	—	—	—
Eureka		82·7	321	i 11 27	0	e 20 57	- 2	i 13 33	pP
Tamanrasset	Z.	82·7	60	i 11 28 <sub>k</sub>	+ 1	e 21 2	+ 2	e 13 35	pP
Fresno	Z.	83·1	317	e 11 29	0	—	—	—	—
Lick	Z.	84·5	316	e 11 36	0	—	—	—	—
Reno	Z.	84·9	319	e 11 39	+ 1	—	—	—	—
Granada		84·9	43	i 11 38 <sub>a</sub>	0	21 51	+30	15 37	PP
Almeria		85·4	44	i 11 40	0	—	—	—	—
Butte	N.	85·6	327	i 11 47	+ 6	—	—	i 13 55	pP
Toledo	Z.	86·4	41	e 11 43 <sub>a</sub>	- 2	—	—	i 13 53	pP
Mineral	Z.	86·5	319	e 11 45	0	—	—	—	—
Relizane		86·7	46	e 11 48	+ 2	—	—	—	—
Shasta	Z.	87·1	319	i 11 47	- 2	—	—	—	—
Alicante		87·6	44	11 46	- 5	21 34	[+ 9]	15 22	PP e 41·8
Hungry Horse		88·0	328	i 11 51	- 2	e 21 23	[- 5]	i 14 0	pP
Algiers Univ.	Z.	88·9	47	i 11 56 <sub>k</sub>	- 1	e 15 50	PP	e 14 6	pP
Corvallis	Z.	90·1	321	i 12 2	- 1	—	—	—	—

Continued on next page.

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	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Uvira	90.3	94	e 12 4	+ 1	—	—	e 15 46	PP
Lwiro	90.6	92	e 12 5	+ 1	—	—	e 13 28	pP
Astrida	91.2	93	e 12 8	0	—	—	i 15 55	sP
Rathfarnham C. z.	94.0	30	i 12 19	- 1	—	—	i 14 42	pP
Clermont-Ferrand	94.1	39	i 12 22 <sub>a</sub>	+ 1	—	—	—	—
Monaco	95.6	43	i 12 28 <sub>a</sub>	+ 1	—	—	—	—
Paris	95.6	37	e 12 27	0	—	—	—	—
Kew z.	95.7	34	e 12 24	- 4	—	—	—	—
De Bilt	98.8	35	—	—	—	—	e 16 51	PP
Stuttgart	99.2	39	i 12 45 <sub>a</sub>	+ 1	e 16 55	PP	e 14 55	pP
Witteveen z.	100.0	35	i 12 48	+ 1	—	—	i 17 2	PP
Jena z.	101.7	38	e 12 56	+ 1	—	—	e 15 6	pP
Hamburg z.	102.1	35	e 17 13	[- 2]	—	—	—	—
Ksara	111.5	62	e 17 20	[- 14]	—	—	e 33 14	SS
College	112.1	332	i 17 32	[- 4]	—	—	e 18 33	PP
Kiruna	112.5	24	i 17 33	[- 3]	—	—	—	—
Sodankyla	114.6	25	i 17 35	[- 3]	—	—	—	—
Rabaul z.	133.8	232	e 18 13	[- 1]	—	—	i 20 29	pP'
Quetta	136.3	73	e 18 7	[- 12]	—	—	—	—
Poona	139.4	93	e 18 26	[+ 1]	—	—	—	—
Madras E.	142.8	105	e 13 50	?	—	—	—	—
Lembang z.	144.9	163	i 18 32 <sub>k</sub>	[- 3]	i 21 17	?	i 20 46	pP'
Dehra Dun	145.8	75	e 18 38	[+ 2]	—	—	—	—
Chatra	153.4	84	i 18 45	[- 2]	—	—	i 21 10	pP'
Shillong z.	157.4	88	i 18 55	[+ 2]	—	—	—	—
Matusiro	159.7	302	i 18 55 <sub>a</sub>	[ 0]	e 36 9	SPP	e 21 11	pP'

Sept. 22d. 15h. 54m. 23s. Epicentre 38°·41N. 69°·22E.

A = +0.2787, B = +0.7345, C = +0.6187;  $\delta = -5$ ;  $h = -1$ ;  
D = +0.935, E = -0.355; G = +0.220, H = +0.578, K = -0.786.

	$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
	$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Stalinabad	0.4	292	i 0 8	0 <sub>g</sub>	i 0 14	+ 1 <sub>g</sub>	—	—
Khorongon	0.4	307	i 0 9	0 <sub>g</sub>	—	—	—	—
Obi-garm	0.5	52	i 0 10	0 <sub>g</sub>	—	—	—	—
Gissar	0.5	277	i 0 11	0*	—	—	—	—
Kulyab	0.7	139	i 0 15	0*	—	—	—	—
Garm	1.0	55	i 0 20	0 <sub>g</sub>	i 0 34	0	—	—
Dzhergetal	1.8	62	i 0 33	+ 1	1 2	+ 2 <sub>g</sub>	—	—
Khorog	2.1	115	i 0 39	+ 2	1 8	- 1 <sub>g</sub>	—	—
Samarkand	2.1	298	i 0 40	+ 1	—	—	—	—
Fergana	2.8	44	e 0 48	+ 1	—	—	—	—
Tashkent	2.9	1	i 0 50	+ 1	e 1 23	- 2	e 1 1	P <sub>g</sub>
Namangan	3.2	36	e 0 54	+ 1	i 1 37	- 2*	—	—
Andijan	3.4	45	0 56	+ 1	—	—	i 1 4	P*
Murgab	3.7	89	i 1 4	+ 4	e 2 9	+ 7 <sub>g</sub>	—	—
Tchimkent	3.9	4	i 1 5	+ 2	i 2 11	+ 2 <sub>g</sub>	—	—
Bairam-Ali	5.7	264	i 1 26	- 2	2 35	0	e 1 56	P <sub>g</sub>
Naryn	6.0	57	i 1 33	0	—	—	—	—
Frunse	6.0	41	i 1 34	+ 1	—	—	i 3 24	S <sub>g</sub>
Almata II	7.8	49	i 1 58	- 1	—	—	—	—
Kurmenty	8.3	53	e 2 3	- 2	—	—	—	—
Quetta	8.4	194	i 2 6	0	—	—	—	—
Ashkabad	8.6	270	e 2 5	- 4	4 10	- 6*	—	—
Chilisk	8.7	50	i 2 10	0	i 4 38	- 9 <sub>g</sub>	—	—
Dehra Dun	10.9	135	e 2 38	- 2	i 4 35	- 9	4 57	SS
New Delhi N.	11.8	143	e 3 35	?	e 5 3	- 3	—	—
Semipalatinsk	14.3	30	e 3 22	- 4	e 6 19	SS	—	—
Makhach-Kala	17.0	292	—	—	e 7 24	SS	—	—
Goris	17.8	281	e 4 10	- 1	e 7 34	+ 6	—	—
Tiflis	19.0	288	i 4 26	+ 1	e 8 5	+ 10	—	—
Chatra	19.0	122	e 4 19	- 7	i 7 48	- 7	—	—

Continued on next page.



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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Sverdlovsk		19.3	346	e 4 29	0	i 8 6	+ 4	e 5 5	PPP	—
Leninakan		19.7	285	e 4 43	+ 9	—	—	—	—	—
Bombay		19.7	170	e 4 18	-16	e 8 20	+ 9	—	—	—
Poona		20.2	167	i 4 41	+ 1	e 8 28	+ 6	—	—	10.6
Bokaro		20.3	131	—	—	e 8 28	+ 5	—	—	—
Hyderabad	E.	22.4	156	e 5 6	+ 4	i 9 4	0	—	—	10.5
Sotchi		22.8	292	e 5 7	+ 1	e 9 23	+12	—	—	—
Shillong		23.0	117	i 5 6	- 2	i 9 16	+ 1	—	—	—
Theodosia		26.0	296	e 5 41	+ 5	e 16 27	ScS	—	—	—
Yalta		26.8	294	e 5 45	+ 1	—	—	—	—	—
Simferopol		26.9	295	5 46	+ 2	—	—	6 41	PPP	—
Madras	E.	27.1	156	—	—	e 12 12	SSS	—	—	—
Ksara		27.2	271	e 6 15	+27	e 11 2	SS	—	—	—
Moscow		27.3	320	e 5 48	0	e 10 30	+ 3	e 6 40	PP	—
Kodaikanal	E.	29.0	163	—	—	e 12 23	SS	—	—	—
Bucharest	N.	32.6	295	—	—	e 13 17	PcS	—	—	—
Colombo	E.	32.8	160	—	—	12 38	+44	—	—	e 15.9
Warsaw		35.9	309	—	—	e 17 10	ScS	—	—	—
Sodankyla		37.4	334	i 7 16	- 1	—	—	i 8 36	PP	—
Bratislava		38.5	302	i 7 27	+ 1	—	—	i 8 59	PP	—
Upsala		38.7	321	i 7 26	- 2	—	—	e 8 46	PP	—
Kiruna		39.7	333	i 7 35	- 1	—	—	e 9 11	PP	—
Prague		40.1	305	i 7 43	+ 4	—	—	e 9 43?	PPP	—
Hong Kong	Z.	41.5	99	e 7 54?	+ 3	—	—	—	—	—
Jena	Z.	41.8	307	e 7 53	0	—	—	e 9 28	PP	—
Skalstugan		41.8	326	i 7 53	0	—	—	i 9 45	PP	—
Stuttgart		43.6	304	e 8 8	0	e 18 1?	ScS	e 8 30	pP	—
Tiksi		44.5	23	e 8 13	- 3	e 14 48	- 4	e 10 5	PP	—
Strasbourg		44.6	304	i 8 17	+ 1	—	—	—	—	e 19.9
Witteveen	Z.	44.6	310	e 8 17	+ 1	—	—	—	—	—
Paris		48.0	305	e 8 41	- 2	—	—	e 14 58	?	—
Matusiro		53.6	69	e 9 24	- 1	e 19 4	ScS	—	—	e 28.3
Astrida		54.7	231	e 9 34 <sub>a</sub>	+ 1	—	—	—	—	—
Lwiro		55.0	232	e 9 36 <sub>k</sub>	0	—	—	—	—	—
College		73.0	16	i 11 32	- 2	—	—	—	—	—
Eureka		102.3	4	e 14 53	+54	—	—	e 18 1	PP	—

Sept. 22d. 18h. 18m. 22s. Epicentre 45°·58N. 151°·50E.

A = -0.6172, B = +0.3352, C = +0.7118;  $\delta = -5$ ;  $h = -4$ ;  
D = +0.477, E = +0.879; G = -0.626, H = +0.340, K = -0.702.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Kusiro		5.7	245	e 1 26	- 1	e 2 32	- 1	—	—	—
Yuzno-Sakhlinsk		6.2	286	e 1 41	+ 7	—	—	—	—	—
Urakawa		7.2	245	e 1 48	+ 1	e 3 10	0	—	—	—
Sapporo		7.7	255	e 1 50	- 5	—	—	—	—	—
Muroran		8.3	251	e 2 50	- 2	—	—	—	—	—
Petropavlovsk		8.9	29	—	—	e 3 59	+ 7	—	—	14.4
Morioka		9.6	236	e 2 26	+ 5	—	—	—	—	—
Mizusawa		10.0	54	e 2 33	+ 6	4 15	- 7	—	—	—
Matusiro		13.5	233	e 3 11	- 2	e 5 47	+ 3	i 3 22	PP	e 6.4
Vladivostok		14.2	267	e 3 23	0	—	—	i 6 25	SSS	—
Tiksi		28.3	345	e 5 51	- 4	—	—	—	—	—
Irkutsk		31.2	300	e 6 20?	- 2	—	—	—	—	—
College		37.8	37	i 7 17	0	—	—	e 7 29	pP	—
Shillong		51.2	268	9 6	+ 1	—	—	—	—	—
Frunse		53.2	297	i 9 20 <sub>a</sub>	0	—	—	—	—	—
Namangan		56.0	296	i 9 41	0	e 17 28	+ 1	—	—	—
Dehra Dun		58.0	282	e 9 42	-12	—	—	—	—	—
Sodankyla		59.9	338	i 10 6	- 2	—	—	i 10 19	pP	—
Shasta	Z.	60.1	61	e 10 10	+ 1	—	—	—	—	—
Hungry Horse		60.4	50	e 10 12	+ 1	—	—	—	—	—

Continued on next page.

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		$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Kiruna		61.1	341	i 10 14	- 2	—	—	i 10 27	pP	—
Butte	N.	62.6	51	e 10 45	+19	—	—	—	—	—
Eureka		64.7	59	i 10 40	0	—	—	—	—	—
Woody	Z.	65.3	64	e 10 41	- 3	—	—	i 10 54	pP	—
Quetta		65.5	289	e 10 45	0	—	—	e 10 58	pP	—
Isabella	Z.	65.6	63	e 10 35	-11	—	—	e 10 59	pP	—
China Lake	Z.	66.1	63	e 10 46	- 3	—	—	e 11 1	pP	—
Ashkabad		66.1	300	e 10 50	+ 1	—	—	—	—	—
Skalstugan		66.5	341	i 10 50 <sup>k</sup>	- 1	—	—	i 11 3	pP	—
Riverside	Z.	67.4	64	e 11 2	+ 5	—	—	e 11 16	pP	—
Boulder City		67.7	61	e 10 58	- 1	—	—	i 11 12	pP	—
Upsala		68.4	337	i 11 2	- 1	—	—	i 11 14	pP	—
Barratt		68.7	65	e 11 4	- 1	—	—	e 11 21	pP	—
Rapid City	E.	68.9	48	e 11 18	+11	—	—	—	—	—
Tiflis		71.3	311	i 11 23	+ 2	—	—	i 11 35	PcP	—
Tucson		72.6	62	e 11 44	PcP	—	—	—	—	—
Simferopol		74.2	319	e 11 46	+ 8	—	—	—	—	—
Hamburg	Z.	75.9	337	i 11 50	+ 2	—	—	i 12 2	pP	—
Jena	Z.	77.8	335	e 11 58	- 1	e 12 16	PcP	e 12 10	pP	—
Bratislava		78.5	331	i 12 3	+ 1	—	—	i 12 16	pP	—
Rathfarnham C.	Z.	79.7	347	i 18 15	?	—	—	—	—	—
Stuttgart		80.4	336	e 12 13	0	e 12 35	sP	e 12 26	pP	—
Strasbourg		81.0	337	e 12 15	- 1	e 25 32	?	i 12 29	pP	—
Ksara		81.9	311	e 12 23	+ 3	—	—	—	—	—
Paris		82.2	340	e 12 23	+ 1	e 22 25	-13	i 12 36	pP	—
Safed		82.7	310	i 12 26	+ 1	—	—	i 12 39	pP	—
Besançon		82.7	337	e 12 26	+ 1	—	—	e 12 38	pP	—
Jerusalem		83.8	310	i 12 32	0	—	—	i 12 44	pP	—

Sept. 24d. 6h. 4m. 40s. Epicentre 14°·98S. 173°·32W.

A = -0.9599, B = -0.1124, C = -0.2568;  $\delta = -1$ ;  $h = +6$ ;  
D = -0.116, E = +0.993; G = +0.255, H = +0.030, K = -0.967.

		$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Apia		1.9	52	i 0 31	- 3	0 49	-10	—	—
Suva	N.	8.5	247	e 2 10	+ 3	e 3 55	+10	—	—
Onerahi	E.	23.5	206	e 5 13	+ 1	—	—	—	—
Brisbane		33.6	243	e 6 38	- 6	—	—	—	e 14.7
Riverview		37.1	233	i 7 19	+ 5	e 13 18	+17	i 8 47	PP
Melbourne		43.3	230	i 8 1	- 4	e 14 50	+18	i 8 34	?
Perth	Z.	66.1	241	—	—	—	—	i 25 1	?
Matusiro		68.7	320	e 11 8	+ 1	e 20 13	+ 4	24 56	SS
Berkeley	Z.	71.1	41	e 11 22	0	—	—	—	—
Lick	Z.	71.2	41	e 11 23	+ 1	—	—	—	—
King Ranch	Z.	71.3	44	e 11 24	+ 1	—	—	—	—
Pasadena		71.7	46	i 11 24	- 1	e 20 50	+ 5	e 30 2	Q
Barratt	Z.	71.9	48	e 11 29	+ 2	—	—	—	—
Fresno	Z.	72.0	43	e 11 27	0	—	—	—	—
Riverside	Z.	72.1	46	e 11 26	- 2	—	—	—	—
Palomar	Z.	72.2	47	i 11 29	+ 1	—	—	—	—
Isabella	Z.	72.3	44	e 11 29	0	—	—	—	—
Shasta	Z.	72.8	38	e 11 33	+ 1	—	—	—	—
China Lake	Z.	73.0	45	e 11 31	- 2	—	—	—	—
Mineral	Z.	73.0	39	e 11 33	0	—	—	—	—
Hayfield	N.	73.2	47	e 11 36	+ 2	—	—	—	—
Tinemaha	Z.	73.2	43	e 11 34	- 1	—	—	—	—
Reno	Z.	73.6	40	e 11 39	+ 2	—	—	—	—
Corvallis	Z.	74.7	35	e 11 45	+ 2	—	—	—	—
Boulder City		75.0	46	i 11 45	0	—	—	i 12 38	?

Continued on next page.

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Tucson		76.0	51	i 11 51	+ 1	—	—	—	—
Eureka		76.1	42	i 11 51	0	—	—	—	—
Victoria		77.2	31	i 11 57	0	—	—	—	—
Seattle		77.2	33	e 12 0	+ 3	—	—	—	—
Lembang	z.	77.7	266	e 11 56	- 4	—	—	—	—
Horseshoe Bay		77.8	31	i 12 0	0	—	—	—	—
Salt Lake City		79.4	43	e 12 10	+ 1	—	—	—	—
Butte	N.	81.7	38	i 12 22	+ 1	—	—	—	—
College		81.9	11	i 12 22	- 1	—	—	—	—
Hungry Horse		82.1	35	i 12 23	0	—	—	—	—
Boulder		83.5	46	e 12 31	0	—	—	—	—
Rapid City	E.	86.6	43	e 12 46	0	—	—	—	—
Fayetteville		90.2	53	i 12 58 <sup>a</sup>	- 5	—	—	—	—
Resolute		101.3	15	—	—	e 23 34	[- 59]	e 26 57	PS
Palisades		106.7	51	—	—	e 24 59	[+ 1]	e 28 3	PS
Quetta		122.9	296	e 19 1	[+ 3]	—	—	—	—
Jena	z.	143.9	355	e 19 36 <sup>?</sup>	[- 1]	—	—	e 19 57	?
Prague	E.	144.4	351	i 19 47	[+ 9]	—	—	e 20 40	?
Karlsruhe	z.	146.0	358	i 19 45 <sup>k</sup>	[+ 4]	—	—	e 20 29	?
Paris		146.1	5	e 19 44	[+ 3]	e 23 33	PKS	e 20 15	pP'
Stuttgart		146.2	357	e 19 45	[+ 4]	—	—	e 20 17	pP'
Strasbourg		146.5	359	e 19 46 <sup>a</sup>	[+ 5]	—	—	e 19 54	PKP <sub>2</sub>
Ebingen		146.8	357	e 19 46	[+ 4]	—	—	—	e 68.3
Ksara		147.6	311	i 19 43	[0]	—	—	i 24 25	?
Besançon		147.8	1	e 19 49	[+ 5]	—	—	e 20 31	?
Safed		148.3	309	i 19 55	[+ 11]	—	—	—	—
Jerusalem		149.0	308	i 19 49	[+ 3]	—	—	—	—
Clermont-Ferrand		149.2	5	e 19 53	[+ 7]	—	—	—	—
Astrida		151.3	234	e 19 57	[+ 8]	—	—	—	—
Lwiro		152.2	234	e 20 0	[+ 10]	—	—	—	—
Toledo	z.	153.5	19	e 20 15	PKP <sub>2</sub>	—	—	—	—
Alicante		155.9	14	19 52	[- 3]	26 57	[- 3]	43 43	SS
Tamanrasset	z.	172.2	8	e 20 14	[+ 4]	—	—	e 25 27	PP

Sept. 24d. 10h. 20m. 37s. Epicentre 33°-98N. 69°-58E.

A = +0.2900, B = +0.7788, C = +0.5563;  $\delta$  = +10;  $h$  = 0;  
D = +0.937, E = -0.349; G = +0.194, H = +0.521, K = -0.831.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Khorog		3.9	25	i 1 5	+ 3	i 1 55	+ 6	—	—
Quetta		4.4	211	i 1 11	+ 2	—	—	—	—
Gissar		4.6	350	1 13	+ 2	—	—	e 1 26	P*
Stalinabad		4.6	352	i 1 13	+ 1	e 2 8	0	—	—
Obi-garm		4.7	1	i 1 17	+ 3	e 2 27	+ 3*	—	—
Khorongon		4.7	352	e 1 15	+ 1	i 2 23	- 1*	—	—
Garm		5.0	6	i 1 21	+ 3	e 2 33	+ 1*	i 1 24	P*
Dzhergetal		5.4	14	i 1 41	?	e 2 31	+ 3	—	—
Murgab		5.6	37	i 1 29	+ 3	—	—	i 1 47	P <sub>2</sub>
Samarkand		6.0	341	i 1 32	- 1	2 42	- 1	—	—
Bairam-Ali		7.0	303	i 1 45 <sup>a</sup>	- 1	3 5	- 3	2 18	P <sub>2</sub>
Andijan		7.1	17	1 47	- 1	—	—	2 31	P <sub>2</sub>
Namangan		7.2	13	i 1 49	0	i 3 15	+ 3	—	—
Tashkent		7.3	358	1 51	0	—	—	—	—
Debra Dun		8.1	115	e 2 1	0	i 3 32	- 2	2 11	PP
Tchimkent		8.3	0	i 2 4	0	—	—	2 30	P*
New Delhi	N.	8.4	127	i 2 5 <sup>k</sup>	- 1	i 3 42	- 1	2 15	PP
Naryn		9.0	32	i 2 12	+ 1	i 3 58	0	i 4 30	S*
Frunse		9.7	22	i 2 21	- 3	i 4 17	+ 2	i 5 11	S <sub>2</sub>
Ashkabad		9.9	297	2 25	- 2	—	—	—	—

Continued on next page.

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		$\Delta$	Az.	P.		O-C.		S.		O-C.		Supp.		L. m.
				m.	s.	s.	m.	s.	m.	s.	m.	s.		
Almata		10.9	30	2	40	0	—	—	—	—	—	—	—	
Almata II		11.1	31	2	40	-3	—	—	—	—	—	—	i 6.1	
Kurmenty		11.3	34	e 2	43	-3	—	—	—	—	—	—	—	
Chilisk		11.8	33	i 2	50	-2	—	—	—	—	—	—	i 6.0	
Kizyl-Arvat		11.8	299	2	50	-3	—	—	—	—	i 4	8	?	—
Bombay		15.3	168	i 3	41	+3	e 6	33	+4	—	—	—	—	—
Poona		15.8	165	e 3	45	-1	e 7	6	SS	e 4	2	PP	—	—
Chatra		16.7	110	i 3	54	-3	i 6	49	-14	—	—	—	—	—
Bokaro		17.4	121	e 4	2	-4	i 7	1	-18	4	15	PP	—	8.1
Sempalatinsk		18.2	22	i 4	10	-5	—	—	—	i 4	36	PPP	—	—
Hyderabad	E.	18.3	152	e 7	3	?	i 8	2	SS	—	—	—	—	—
Goris		19.4	293	i 4	29	-1	i 8	10	+6	—	—	—	—	—
Tiflis		21.0	299	e 4	47	0	e 8	45	+8	—	—	—	—	—
Shillong		21.1	107	i 4	48	0	i 8	29	-9	9	22	SSS	—	—
Yumen		22.7	66	e 5	5	+1	—	—	—	—	—	—	—	—
Madras	E.	23.0	153	i 5	8	+1	i 9	20	+6	5	52	PPP	—	—
Sverdlovsk		23.7	348	5	20	+7	9	31	+5	10	29	SSS	—	—
Kodaikanal	E.	24.7	161	e 5	32	+8	i 9	54	+10	—	—	—	—	—
Ksara		27.9	279	i 5	58	+5	i 10	51	+15	i 9	12	PcP	—	—
Safed		28.4	278	i 5	58	+1	i 12	57	PcS	—	—	—	—	—
Colombo	E.	28.6	158	e 6	48	PP	10	53	+6	—	—	—	—	—
Jerusalem		28.9	275	i 6	1	-1	i 11	20	+28	—	—	—	—	—
Irkutsk		30.8	43	e 6	16	-4	e 11	22	-1	13	30	SSS	—	—
Moscow		30.9	324	6	21	0	11	27	+2	7	13	PP	—	—
Iasi		34.1	305	e 6	49	+1	—	—	—	e 7	48	PP	—	—
Bucharest		34.9	300	e 11	48	?	12	28	+2	e 14	33	SS	—	—
Peking		37.4	67	e 7	16	0	e 13	8	+4	—	—	—	—	—
Warsaw		39.0	313	e 7	30	0	e 13	34	+5	e 13	40	ScP	e 19.4	—
Canton		39.6	94	e 7	37	+2	e 13	39	0	—	—	—	—	—
Budapest		39.9	305	e 9	13	PP	13	36	-7	13	53	PS	—	—
Hurbanovo		40.5	306	e 10	20	?	—	—	—	—	—	—	—	—
Hong Kong		40.7	95	7	47 <sup>a</sup>	+3	13	53 <sup>?</sup>	-2	e 17	5 <sup>?</sup>	SS	—	—
Nanking		41.0	78	e 7	52	+6	e 14	12	+13	—	—	—	—	—
Bratislava		41.2	306	i 7	49	+1	e 16	47	SS	i 9	25	PP	e 23.4	—
Sodankyla		41.5	337	i 7	51	+1	—	—	—	i 9	26	PP	—	—
Taranto		41.7	295	e 8	4	+12	—	—	—	—	—	—	—	—
Upsala		42.4	324	i 7	56	-1	i 14	18	-1	i 9	33	PP	—	—
Prague		43.0	309	i 8	3	+1	e 14	32	+4	e 9	41	PP	—	—
Zô-Sê		43.2	79	e 8	8	+4	e 14	33	+1	—	—	—	—	—
Messina		43.3	292	i 8	6	+1	e 14	29	-5	e 9	47	PP	—	—
Triest		43.6	303	e 8	5	-2	i 14	37	-1	i 9	52	PP	—	—
Kiruna		43.9	335	i 8	9	0	i 17	49	SS	i 9	51	PP	e 23.4	—
Copenhagen		44.4	317	i 8	15	+1	i 14	53	+3	e 9	57	PP	—	—
Jena		44.8	310	e 8	16	-1	e 14	33	-22	e 10	12	PP	e 22.4	—
Rome		45.0	298	8	18	-1	i 15	0	+2	e 18	2	SS	—	—
Florence		45.6	300	e 8	10	-13	i 15	9	+3	—	—	—	—	—
Skalstugan		45.7	328	i 8	24	0	—	—	—	i 10	19	PP	—	—
Hamburg		45.8	314	i 8	27	+2	—	—	—	e 10	14	PP	e 22.4	—
Stuttgart		46.5	307	e 8	29	-1	e 15	22	+4	e 10	23	PP	—	—
Karlsruhe		47.0	308	e 8	35 <sup>k</sup>	+1	—	—	—	e 10	41	PP	—	—
Strasbourg		47.4	307	e 8	36	-2	e 15	37	+5	e 19	30	SS	e 24.0	—
Witteveen	z.	47.8	313	e 8	42	+1	—	—	—	—	—	—	—	—
Tiksi		48.5	21	i 8	45	-1	e 15	43	-5	10	39	PP	—	—
Vladivostok		48.6	60	e 8	49	+2	i 15	48	0	e 18	34	ScS	—	—
De Bilt		48.7	312	i 8	50	+2	e 15	57	+6	e 19	35	SS	e 24.4	—
Besançon		48.8	306	e 8	46	-2	—	—	—	e 11	8	PP	—	—
Bagnio City		48.8	98	i 9	3	+14	—	—	—	—	—	—	—	—
Paris		50.9	308	e 9	37	?	e 16	23	+3	e 20	23	SS	e 26.4	—
Clermont-Ferrand		51.0	304	e 9	5	0	e 16	29	+7	e 21	34	SSS	—	—
Kew		52.2	312	e 9	14	0	e 16	42	+3	e 16	53	PS	e 24.4	—
Astrida		52.2	234	e 9	15	0	—	—	—	e 11	11	PP	—	—
Lwiro		52.6	235	e 9	18	0	—	—	—	—	—	—	—	—
Matusiro		55.0	66	i 9	33	-2	e 17	14	-2	e 21	7	SS	e 30.0	—
Rathfarnham C.	z.	55.5	315	i 9	32	-6	—	—	—	e 11	4	?	—	—
Alicante		55.5	296	9	30	-9	17	3	-20	11	35	PP	e 26.1	—

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		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.	
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.	
Relizane		55.6	293	e 9 39	0	—	—	e 10 32	PcP	—
Tananarive		56.6	205	e 9 46k	- 1	—	—	—	—	—
Tamanrasset	z.	56.7	277	e 9 45	- 2	e 17 37	- 2	e 19 21	ScS	—
Magadan		57.1	37	e 9 47	- 3	e 17 44?	0	—	—	—
Toledo	z.	57.6	299	e 9 51	- 3	—	—	—	—	—
Scoresby Sund		58.9	337	e 10 2	- 1	e 18 11	+ 3	—	—	31.4
Resolute Bay		71.1	356	—	—	(e 28 24)	SSS	—	—	e 28.4
Pretoria	z.	71.2	219	i 11 22k	- 1	—	—	—	—	—
Pietermaritzburg	z.	73.3	215	i 11 35k	0	—	—	—	—	—
Kimberley	z.	75.4	220	i 11 45k	- 2	—	—	—	—	—
College		66.2	15	i 11 54	- 3	—	—	i 12 16	PcP	—
Kirkland Lake		93.8	340	e 13 25	+ 5	—	—	—	—	—
Hungry Horse		98.0	2	e 13 40	+ 1	—	—	e 16 46	?	—
Palisades		98.1	333	—	—	i 24 20	[+ 2]	—	—	e 55.8
Butte	n.	100.3	1	e 13 52	+ 2	—	—	—	—	—
Riverview		101.9	123	i 14 1	+ 4	—	—	—	—	—
Rapid City	E.	102.0	355	e 14 52	+55	—	—	e 18 9	PP	—
Mineral	z.	105.3	9	e 17 25	?	—	—	—	—	—
Salt Lake City		105.6	1	e 18 9	[+ 7]	—	—	—	—	—
Eureka		106.7	4	e 14 24	+ 6	—	—	e 17 7	?	—
Lick	z.	108.3	9	e 18 35	[+ 5]	—	—	—	—	—
China Lake	z.	110.2	6	e 19 17	PP	—	—	—	—	—
Boulder City		110.3	4	e 18 48	?	—	—	i 19 26	PP	—
Isabella		110.3	7	e 19 8	PP	—	—	—	—	—
Dalton		111.1	7	e 19 20	PPL	—	—	—	—	—
Riverside	z.	112.1	6	e 19 10	PP	—	—	—	—	—
Tucson		114.1	0	e 18 46	[+ 5]	—	—	e 19 39	PP	—
La Paz		138.3	284	e 19 29	[+ 2]	—	—	—	—	—
Huancayo	z.	141.3	296	e 19 34	[+ 2]	—	—	—	—	—

Sept. 26d. 5h. 4m. 5s. Epicentre 30°·32N. 142°·08E. Focus at Base of Superficial Layers.

A = -0.6821, B = +0.5314, C = +0.5023;  $\delta$  = -5;  $h$  = +2;  
D = +0.615, E = +0.789; G = -0.396, H = +0.309, K = -0.865.

		$\Delta$	Az.	P.	O-C.	S.	O-C.	Supp.	L.
		$^{\circ}$	$^{\circ}$	m. s.	s.	m. s.	s.	m. s.	m.
Mera	n.	5.0	338	e 1 15	+ 1	—	—	—	—
Omaesaki		5.4	324	—	—	e 2 5	-17	—	—
Misima	n.	5.5	332	e 1 21	0	e 2 21	- 3	—	—
Shizuoka		5.6	327	—	—	e 2 21	- 6	—	—
Tokyo		5.7	340	e 1 33	+ 8	i 2 23	- 7	—	—
Hunatu		5.9	333	e 1 32	+ 5	—	—	—	—
Kohu		6.1	332	e 1 25	- 5	e 2 33	- 6	—	—
Kumagaya		6.2	339	e 1 29	- 3	e 2 35	- 8	—	—
Nagoya		6.5	320	e 2 2	+26	—	—	—	—
Utunomiya	n.	6.5	344	e 1 45	+ 9	e 2 41	- 8	—	—
Maebasi		6.6	338	e 1 40	+ 3	e 2 42	- 9	—	—
Oiwake		6.7	335	e 1 40	+ 2	e 2 53	- 1	—	—
Gihu		6.7	320	e 1 53	+14	—	—	—	—
Matumoto	E.	6.8	331	e 1 36	- 5	—	—	—	—
Shirakawa		7.0	348	e 1 37	- 5	e 2 51	-10	—	—
Matusiro	z.	7.0	334	e 1 39 <sup>a</sup>	- 4	3 0	- 2	—	—
Nagano		7.1	334	e 1 55	PP	—	—	—	—
Hukusima		7.5	350	e 1 45	- 5	e 3 5	-10	—	—
Toyama		7.5	329	e 2 7	+16	e 3 24	+ 8	—	—
Niigata		8.0	342	—	—	e 3 5	-22	—	—
Sendai		8.0	353	e 1 51	- 6	e 3 13	-14	—	—
Baguio City		24.0	240	e 5 15	+ 2	e 9 39	+14	—	—
Hong Kong		26.2	259	—	—	e 9 55	- 6	—	—
Irkutsk		35.3	319	6 52	- 2	12 28	+ 4	—	—
Lembang	z.	49.6	228	e 8 45	- 5	—	—	—	—

Continued on next page.



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		$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Frunse		54.3	303	9 24	- 1	—	—	—	—
College		54.6	29	i 9 25	- 2	—	—	—	—
Namangan		56.8	301	e 9 44	+ 1	—	—	—	—
Kiruna		73.0	340	e 11 28	0	—	—	—	—
Shasta	z.	74.8	52	e 11 39	+ 1	—	—	—	—
Mineral	z.	75.4	52	e 11 42	0	—	—	—	—
Berkeley	z.	76.1	54	e 11 46	0	—	—	—	—
Hungry Horse		76.4	42	i 11 48	+ 1	—	—	—	—
Lick	z.	76.8	54	e 11 50	0	—	—	—	—
Skalstugan		78.4	339	i 12 0	+ 1	—	—	—	—
Butte	n.	78.4	43	e 11 58	- 1	—	—	—	—
Upsala		79.2	335	i 12 4	+ 1	—	—	—	—
Eureka		79.7	50	i 12 6	0	—	—	—	—
Isabella	z.	79.9	55	e 12 6	- 1	—	—	—	—
China Lake	z.	80.4	54	e 12 10	0	—	—	—	—
Pasadena	z.	80.8	56	e 12 11	- 1	—	—	—	e 42.4
Riverside	z.	81.5	56	e 12 14	- 1	—	—	—	—
Salt Lake City		81.7	47	e 12 17	+ 1	—	—	—	—
Palomar	z.	82.2	56	e 12 19	0	—	—	—	—
Boulder City		82.2	53	i 12 20	+ 1	—	—	—	—
Hayfield	n.	82.9	55	e 12 24	+ 2	—	—	—	—
Rapid City	e.	85.0	41	e 12 33	0	—	—	e 13 20	?
Ksara		85.6	307	e 12 21	-15	—	—	—	—
Boulder		86.2	45	e 12 41	+ 2	—	—	—	—
Tucson		87.0	54	e 12 45	+ 2	—	—	—	—
Jena	z.	88.1	331	e 12 48	0	—	—	e 13 12	?
Stuttgart		90.7	331	e 13 1	0	e 23 52	0	—	—
Fayetteville		95.4	43	e 13 23	+ 1	—	—	—	—
Huancayo	z.	140.9	70	e 19 24	[- 3]	—	—	—	—
La Paz	n.	149.2	70	e 19 47	[+ 6]	—	—	—	—

Sept. 29d. 9h. 3m. 39S. Epicentre 7°·07N. 94°·41E.

A = -0.0761, B = +0.9896, C = +0.1222;  $\delta$  = +3;  $h$  = +7;  
D = +0.997, E = +0.077; G = -0.009, H = +0.122, K = -0.992.

		$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Medan		5.5	129	e 1 21?	- 4	e 3 5	+36	—	—
Colombo		14.4	270	e 3 27	0	e 5 24?	?	—	—
Madras	E.	15.2	294	e 3 34	- 3	i 6 43	+16	3 49	PP
Kodaikanal	E.	17.1	282	i 4 1 <sub>a</sub>	0	—	—	i 8 55	PcP
Djakarta		18.1	136	e 4 1	-13	e 8 5	+31	—	e 10.0
Shillong		18.6	353	i 4 16 <sub>k</sub>	- 4	i 7 45	- 1	4 36	PP
Bokaro		18.6	334	i 4 18 <sub>a</sub>	- 2	i 7 57	+11	4 47	PPP
Hyderabad	E.	18.7	305	i 4 17	- 4	i 8 12	SS	e 4 46	PPP
Bandung		19.2	136	e 4 14	-13	e 8 24	+26	—	—
Chatra	z.	20.8	342	e 4 42	- 3	—	—	i 5 12	PPP
Poona		23.0	302	i 5 8 <sub>k</sub>	+ 1	i 9 21	+ 7	5 46	PPP
Bombay		24.1	301	e 5 21	+ 4	e 9 39	+ 6	6 9	PPP
Canton		24.1	47	e 5 20	+ 2	9 41	+ 7	—	—
Hong Kong		24.3	50	—	—	e 9 39?	+ 2	—	—
New Delhi		26.9	325	e 5 45	+ 1	i 10 20	0	6 42	PPP
Manila		27.1	72	i 5 48	+ 2	i 11 1	+37	—	—
Baguio		27.2	68	i 5 51 <sub>a</sub>	+ 4	i 10 23	- 2	—	—
Dehra Dun		27.8	328	e 5 55	+ 3	i 10 30	- 4	11 57	SS
Sian		30.2	24	e 6 16	+ 2	e 11 10	- 3	—	—
Lahore		30.7	325	6 14	- 5	—	—	—	—
Nanking		33.7	39	e 6 43	- 1	e 12 7	0	—	—
Quetta		34.5	315	e 6 51	- 1	—	—	—	—
Zó-Sè		34.6	43	6 53 <sub>k</sub>	+ 1	12 23	+ 1	8 11	PP
Tatung		37.0	24	e 7 18	+ 5	—	—	—	—
Peking		38.2	27	e 7 22	- 1	13 17	0	8 57	PP

Continued on next page.

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	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Namangan	39.4	332	e 7 32	- 1	—	—	—	—
Frunse	39.7	337	7 38	+ 3	—	—	—	—
Perth	z. 43.9	153	—	—	i 18 17	SSS	—	i 20.8
Changchun	45.5	31	8 24k	+ 1	e 15 5	0	—	—
Irkutsk	45.8	8	8 26	+ 1	—	—	—	—
Matusiro	49.5	47	i 8 51k	- 3	e 15 59	- 3	e 10 58	PP 23.2
Tananarive	52.9	240	e 9 21a	+ 1	—	—	—	—
Sverdlovsk	56.2	338	9 42	- 2	17 37	+ 4	—	—
Rabaul	z. 58.7	99	e 10 9	+ 7	—	—	—	—
Sotchi	59.9	317	10 6	- 4	18 21	0	—	—
Ksara	60.1	305	i 11 13	+62	e 25 4	SSS	e 12 28	PP —
Jerusalem	60.2	302	i 9 39	-33	—	—	i 10 17	P —
Simferopol	64.2	317	e 10 43	+ 5	—	—	—	—
Melbourne	64.9	138	i 10 38	- 5	—	—	i 11 15	PcP e 32.8
Astrida	65.3	264	e 10 48	+ 3	—	—	—	—
Moscow	65.9	329	e 10 46	- 3	—	—	—	—
Uvira	66.0	263	e 10 52	+ 2	—	—	—	—
Lwiro	66.1	264	e 10 52	+ 1	—	—	—	—
Brisbane	66.2	124	i 10 53	+ 1	—	—	e 20 32	ScS —
Riverview	67.3	131	i 11 0	+ 1	—	—	i 20 57	ScS —
Tiksi	68.0	11	10 56	- 6	—	—	—	—
Sodankyla	z. 75.0	338	i 11 41	- 4	—	—	—	—
Kimberley	75.8	238	—	—	—	—	i 21 47	ScS —
Bratislava	76.3	318	i 11 50	- 2	—	—	i 12 4	PcP —
Messina	76.9	307	e 12 0	+ 4	i 21 42	- 1	e 14 54	PP —
Upsala	77.3	330	i 11 55	- 3	—	—	i 12 3	PcP —
Kiruna	77.5	338	i 11 55	- 4	i 21 51	+ 2	i 12 3	PcP —
Trieste	78.4	315	i 12 3	- 1	e 22 13	+13	e 16 59	PPP —
Jena	z. 80.0	320	e 12 9	- 4	—	—	e 12 18	PcP —
Skalstugan	80.2	333	e 12 8	- 5	—	—	i 12 18	PcP —
Florence	80.2	313	e 12 22	+ 8	e 22 59	+41	—	—
Macquarie Is.	z. 81.4	148	i 12 23	+ 3	—	—	—	—
Stuttgart	81.6	318	e 12 21	0	e 22 27?	- 5	e 12 31	PcP —
Strasbourg	82.5	318	e 12 31	+ 5	e 22 45	+ 3	e 31 21	SSS e 45.0
Monaco	83.0	313	e 12 29	+ 1	—	—	e 12 38	PcP —
Witteveen	z. 83.0	322	e 12 31	+ 3	—	—	—	—
Besançon	83.8	317	e 12 37	+ 5	—	—	e 13 2	? —
Paris	86.0	318	e 12 45	+ 2	—	—	e 16 9	PP e 45.4
Tamanrasset	z. 86.3	292	e 12 44	- 1	e 23 17	- 2	e 16 6	PP —
Algiers Univ.	z. 86.9	306	e 12 49	+ 1	—	—	—	—
Wellington	87.4	132	12 49	- 1	—	—	—	e 38.4
Kew	87.5	321	—	—	e 23 21? [+ 4]	—	—	e 42.4
Relizane	89.0	306	e 13 31	+33	—	—	—	—
College	95.0	22	e 13 28	+ 3	—	—	i 17 11	PP e 44.2
Hungry Horse	119.4	21	e 18 51	[ 0]	—	—	e 20 12	PP —
Shasta	z. 121.6	32	e 18 57	[+ 1]	—	—	—	—
Mineral	z. 122.3	32	e 18 55	[- 2]	—	—	—	—
Lick	z. 124.4	35	e 19 7	[+ 6]	—	—	—	—
Seven Falls	124.5	348	e 18 53?	[- 8]	—	—	—	—
Eureka	125.8	29	i 19 4	[ 0]	e 32 26	PPS	i 20 58	PP —
Tinemaha	z. 126.5	32	e 19 7	[+ 2]	—	—	—	—
Rapid City	E. 126.6	16	e 19 8	[+ 3]	—	—	—	—
King Ranch	z. 127.0	35	e 19 13	[+ 7]	—	—	—	—
Ottawa	127.0	351	e 19 7a	[+ 1]	—	—	—	—
Woody	z. 127.2	34	e 19 4	[- 2]	—	—	e 21 42	PP —
Isabella	z. 127.4	34	e 19 8	[+ 1]	—	—	—	—
China Lake	z. 127.8	33	e 19 8	[+ 1]	—	—	—	—
Pasadena	128.7	35	e 19 5	[- 4]	e 38 51	SSP	—	e 54.4
Boulder City	129.1	31	e 19 9	[- 1]	—	—	e 21 12	PP —
Riverside	z. 129.3	34	e 19 10	[ 0]	—	—	—	—
Boulder	129.7	20	e 19 15	[+ 4]	—	—	—	—
Palomar	z. 130.0	35	e 19 14	[+ 2]	—	—	—	—
Barratt	z. 130.6	35	e 19 17	[+ 4]	—	—	—	—
Palisades	131.0	348	—	—	e 28 9 (+17)	—	e 39 4	SS e 60.5
Morgantown	133.2	354	e 21 37	PP	—	—	e 22 48	PKS —

Continued on next page.

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	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.	
Tucson	134.1	30	e 19 24	[+ 5]	—	—	e 22 44	PKS	—
San Juan	148.2	323	e 19 46	[+ 2]	—	—	—	—	—
St. Vincent	148.6	310	e 19 48	[+ 3]	—	—	—	—	—
Trinidad	150.2	306	e 19 52	[+ 5]	—	—	—	—	—
Santa Lucia	z. 150.4	206	—	—	—	—	34 51	PS	—
Tacubaya	150.5	27	e 20 10	[+ 22]	—	—	—	—	—
La Paz	z. 160.5	240	e 19 55	[- 6]	—	—	24 41	PP	82.4
Chinchina	164.4	320	i 20 13	[+ 8]	—	—	i 21 8	PKP <sub>s</sub>	—
Huancayo	z. 168.7	243	e 20 12	[+ 4]	—	—	—	—	—

Sept. 29d. 21h. 20m. 55s. Epicentre 37°·97N. 140°·52E. Depth of focus = 0·002R.

A = -0·6100, B = +0·5026, C = +0·6126;  $\delta = -1$ ; h = -1;  
D = +0·636, E = +0·772; G = -0·473, H = +0·390, K = -0·790.

	$\Delta$ °	Az. °	P. m. s.	O-C. s.	S. m. s.	O-C. s.	Supp. m. s.	L. m.
Hukusima	0.2	190	i 0 2k	- 8	0 6	-11	—	—
Yamagata	0.3	335	i 0 3	- 8	e 0 9	- 9	—	—
Sendai	0.4	45	i 0 5k	- 7	e 0 10	-11	—	—
Isinomaki	0.8	54	i 0 10k	- 6	0 19	- 9	—	—
Shirakawa	0.9	196	i 0 14k	- 3	i 0 25	- 5	—	—
Onahama	1.1	163	0 26	+ 7	0 39	+ 5	—	—
Sakata	1.1	330	0 18	- 1	0 34	0	—	—
Niigata	1.2	268	i 0 20k	- 1	0 37	+ 1	—	—
Mizusawa	1.3	22	0 21	- 1	0 41	+ 3	—	—
Utunomiya	1.5	200	i 0 23k	- 2	e 0 44	0	—	—
Mito	1.6	181	i 0 25	- 2	e 0 48	+ 2	—	—
Kakioka	E. 1.8	189	i 0 27k	- 2	0 51	0	—	—
Akita	1.8	350	i 0 28	- 1	0 54	+ 3	—	—
Aikawa	1.8	272	i 0 29	0	0 54	+ 3	—	—
Maebasi	1.9	217	i 0 32k	0	e 1 1	+ 6	—	—
Takada	2.0	245	i 0 33k	+ 1	1 1	+ 5	—	—
Miyako	2.0	34	i 0 32k	- 1	i 0 55	- 2	—	—
Kumagaya	2.0	207	i 0 34k	+ 1	i 1 3	+ 6	—	—
Kashiwa	2.2	192	i 0 33	- 2	i 1 6	+ 5	—	—
Tyosi	2.3	173	0 33	- 3	1 1	- 2	0 40	PP
Titibu	2.3	210	i 0 37	0	i 1 9	+ 5	—	—
Oiwake	2.3	224	i 0 35	- 1	e 1 9	+ 5	—	—
Matusiro	2.3	233	i 0 37	0	e 1 9	+ 5	—	—
Nagano	2.3	235	i 0 35	- 1	e 1 16	+10	—	—
Tokyo	2.4	195	i 0 37	- 1	1 9	+ 3	—	—
Yokohama	2.6	196	e 0 40	- 1	i 1 10	- 2	—	—
Matumoto	2.7	231	i 0 41	- 1	1 23	+10	—	—
Hatinohe	2.7	17	i 0 41 <sub>a</sub>	- 1	i 1 11	- 3	—	—
Kohu	2.8	214	i 0 44k	0	i 1 25	+ 8	—	—
Hunatu	2.8	210	i 0 45k	+ 1	1 26	+ 8	—	—
Aomori	2.9	4	i 0 44	- 1	e 1 21	+ 3	—	—
Wazima	2.9	259	0 44	- 2	1 23	+ 3	e 0 56	PP
Toyama	2.9	245	i 0 46k	0	i 1 37	+17	—	—
Mera	N. 3.1	190	i 0 49	+ 1	i 1 23	- 1	—	—
Misima	3.1	204	i 0 48k	0	e 1 34	+ 9	—	—
Ajiro	3.1	202	0 50	+ 2	1 42	+17	—	—
Takayama	E. 3.2	236	0 49	0	1 47	+20	—	—
Iida	3.3	222	i 0 52	+ 2	i 1 40	+12	—	—
Osima	z. 3.3	196	i 0 49	- 2	i 1 33	+ 3	—	—
Kanazawa	3.4	246	e 0 53	+ 1	—	—	—	—
Shizuoka	3.4	210	i 0 54k	+ 1	i 1 40	+ 7	—	—
Hakodate	3.8	2	i 0 59	+ 1	e 1 49	+ 7	—	—
Omaesaki	3.8	210	i 0 59 <sub>a</sub>	+ 1	i 2 0	+17	—	—
Hukui	3.9	242	i 1 1k	+ 2	1 54	+10	—	—
Gihu	3.9	231	i 1 0k	0	1 57	+11	—	—

Continued on next page.

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		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
				m.	s.		m.	s.		m.	s.	
Nagoya		4.0	227	i 1	2k	+ 1	1	55	+ 8	—	—	—
Mori		4.1	1	1	5	+ 3	1	55	+ 5	—	—	—
Ibukisan	N.	4.2	233	e 1	5	+ 1	e 2	13	+21	—	—	—
Tsuruga		4.2	238	1	9	+ 5	i 2	6	+13	—	—	—
Hikone		4.4	233	1	8k	+ 2	2	7	+11	—	—	—
Muroran		4.4	4	e 1	7k	+ 1	e 2	1	+ 5	—	—	—
Urakawa		4.5	22	e 1	11	+ 3	e 2	3	+ 3	1	55	S
Tu		4.6	226	i 1	9	0	i 2	25	+24	—	—	—
Tomakomai		4.6	10	e 1	15	+ 6	i 2	3	0	—	—	—
Maizuru		4.8	240	1	14	+ 3	e 2	21	+15	—	—	—
Suttsu		4.8	357	e 1	13	+ 1	—	—	—	—	—	—
Kyoto		4.8	234	1	15	+ 2	2	40	+32	—	—	—
Hatidyozima		4.9	187	e 1	14	+ 1	2	8	- 1	—	—	—
Nara		5.0	230	e 1	14	- 1	i 2	39	+27	—	—	—
Sapporo		5.1	7	i 1	15a	- 2	e 2	17	+ 2	—	—	—
Toyooka		5.2	244	1	17	0	e 2	15	- 2	2	28	SS
Osaka		5.2	232	e 1	19k	+ 1	e 2	29	+12	—	—	2.8
Obwase		5.2	223	e 1	17	- 1	2	42	+24	e 1	31	PP
Obhiro	Z.	5.3	22	i 1	18	- 2	—	—	—	—	—	—
Kobe		5.4	234	e 1	24	+ 3	e 2	35	+13	—	—	—
Tottori	N.	5.6	246	e 1	24	+ 1	e 2	38	+10	—	—	—
Sumoto		5.8	233	i 1	26k	0	3	1	+29	—	—	—
Kusiro		5.8	29	e 2	21	+55	e 2	25	- 7	—	—	3.2
Siomisaki		5.9	222	e 1	31	+ 3	e 2	29	- 6	—	—	—
Asahigawa		6.0	13	e 1	29	+ 1	e 2	40	+ 4	—	—	—
Saigo		6.0	255	1	21	- 8	2	56	+19	—	—	—
Himeji		6.0	237	e 1	25	- 4	e 2	58	+20	—	—	—
Tokusima		6.2	233	e 1	32k	+ 1	e 2	40	- 2	3	8	SS
Yonago		6.3	248	1	36	+ 3	—	—	—	—	—	—
Takamatu		6.4	237	e 1	34	0	—	—	—	—	—	e 3.4
Matsue		6.5	249	1	34	- 2	e 3	0	+11	—	—	—
Nemuro		6.6	34	e 1	33	- 4	e 2	44	- 8	—	—	—
Abashiri		6.7	24	e 1	38	0	e 3	2	+ 8	—	—	—
Muroto		7.0	229	e 1	41	- 2	3	8	+ 7	—	—	i 3.7
Koti		7.2	234	e 1	45	0	e 2	58	- 9	—	—	—
Hirosima		7.5	244	e 1	49k	0	e 3	19	+ 6	—	—	—
Hamada		7.5	248	1	52k	+ 3	e 3	20	+ 7	—	—	—
Wakkanai	N.	7.5	6	e 1	59	+ 9	e 3	20	+ 6	—	—	—
Matuyama		7.5	239	e 1	50	0	e 3	51	SSS	e 2	12	PPP
Simidu		8.0	232	1	56k	- 1	e 3	53	+25	—	—	—
Ooita		8.6	239	i 2	0	- 6	i 3	48	+ 5	—	—	—
Simonoseki		8.7	246	e 2	11	+ 4	—	—	—	—	—	—
Asosan		9.2	240	e 2	13	+ 3	—	—	—	—	—	e 4.7
Hukuoka	N.	9.3	245	e 2	18	+ 4	e 4	19	+20	—	—	—
Kumamoto		9.5	240	2	17	0	e 3	24	-40	—	—	—
Saga		9.6	244	e 2	23	+ 5	—	—	—	—	—	1 5.3
Miyazaki		9.6	234	e 2	20	+ 1	e 4	22	+16	—	—	—
Unzendake		9.9	241	e 2	22	0	e 3	59	-14	—	—	—
Nagasaki	N.	10.1	242	2	27	+ 1	—	—	—	—	—	e 5.4
Kagosima		10.4	235	e 2	31	+ 2	—	—	—	—	—	e 5.5
Changchun		12.9	302	e 3	4	+ 1	5	41	+15	—	—	—
Zó-Sè		17.3	252	i 3	59a	- 1	e 7	26	+16	—	—	—
Nanking		18.7	258	4	16	- 1	e 8	1	+20	—	—	—
Peking		19.0	284	i 4	17a	- 4	8	1	+13	—	—	—
Taipei		20.7	237	5	15	PPP	8	39	SS	—	—	—
Tatung		21.2	284	e 4	47	+ 3	—	—	—	—	—	—
Hong Kong		27.5	243	5	44a	0	e 10	5	-15	—	—	—
Canton		27.6	245	5	45a	0	e 10	31	+ 9	e 6	37	PP
Baguio		27.7	225	i 5	45	- 1	e 10	23	- 1	—	—	—
Manila		29.0	222	i 5	57	- 1	e 10	15	-30	—	—	—
Shillong	Z.	42.7	268	i 7	52a	- 2	—	—	—	—	—	—
Rabaul	Z.	43.3	163	e 7	58	- 1	—	—	—	—	—	—
Chatra		45.8	272	e 8	19	0	—	—	—	—	—	—
College		48.7	33	i 8	42	0	—	—	—	—	—	—
Dehra Dun		51.4	281	e 9	2	- 1	—	—	—	—	—	—

Continued on next page.

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1956		472										
		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
		$^{\circ}$	$^{\circ}$	m. s.		s.	m. s.		s.	m. s.		m.
		56.1	41	i 9	37	0						
	F.	58.8	262	e 9	51	- 5						
		60.0	286	i 10	3	- 1						
	Z.	60.6	271	i 10	9	+ 1						
		61.2	272	e 10	13	0	e 18	39	+11			
	E.	62.8	257	e 9	3	-81	e 19	3	+16			
		63.8	337	i 10	28	- 2						
		65.4	339	i 10	38	- 2						
		66.1	168	i 10	45	0						
		66.3	46	e 10	52	+ 6						
	Z.	68.4	50	e 10	56	- 3						
		70.8	338	i 11	12	- 2						
	Z.	71.1	53	i 11	17	+ 1						
		71.1	354	e 11	14	- 2						
		71.6	43	i 11	18	0						
	Z.	71.8	53	e 11	19 <sub>a</sub>	- 1						
		71.8	333	i 11	19	- 1						
		72.1	171				20	49	+10			
		72.8	55	e 11	26 <sub>k</sub>	0	e 20	53	+ 6	e 31	17	PKKP
	Z.	73.4	53	e 11	30 <sub>a</sub>	+ 1						
	Z.	73.5	55	i 11	31 <sub>k</sub>	+ 1						
	N.	73.8	44	e 11	32	+ 1				e 12	19	?
	Z.	75.0	55	e 11	38	- 1						
		75.5	176	i 11	42	0						
		75.8	51	i 11	43	0						
	Z.	75.9	54	i 11	34 <sub>a</sub>	- 9				e 14	33	PP
	Z.	75.9	56	i 11	46 <sub>a</sub>	+ 2				e 12	16	PcP
	N.	76.2	320	e 11	45	0						
		76.3	55	i 11	45 <sub>a</sub>	0				i 14	38	PP
	Z.	76.6	55	i 11	47 <sub>a</sub>	0				e 14	40	PP
	Z.	77.0	55	i 11	51 <sub>a</sub>	+ 1				i 14	42	PP
		77.5	48	e 11	53	0						
		77.7	56	i 11	53 <sub>a</sub>	0				e 14	50	PP
	Z.	78.3	56	e 11	57	0						35.6
		78.7	53	i 12	0	+ 1				i 12	33	?
	Z.	79.0	56	i 12	0	- 1				i 14	58	PP
	Z.	79.3	332	12	5	+ 2						
	Z.	79.5	57	i 12	5 <sub>a</sub>	+ 1						
	N.	79.6	55	i 12	4	0						
		80.0	305	i 12	5	- 1				e 15	4	PP
	E.	80.1	41	i 12	7	0	e 22	7	+ 1			
		80.2	324	12	5	- 2				17	20	PPP
		80.3	328	i 12	10	+ 2						44.1
		80.6	325	i 12	11	+ 2				i 15	9	PP
		80.8	330	e 12	10	0	e 22	16	+ 2	e 15	21	PP
	Z.	80.8	305	i 12	10	- 1						
		81.1	334	e 12	12	0						
	Z.	81.5	321	i 12	14 <sub>a</sub>	0	e 22	39	ScS	e 15	23	PP
	Z.	81.5	318	i 12	14	0	i 22	37	ScS			
		81.7	45	i 12	17	+ 2						
		81.7	304	i 12	14	- 1				i 15	21	PP
		83.4	330	i 12	23 <sub>a</sub>	- 1	e 22	46	+ 6	i 12	27	PcP
	Z.	83.6	331	e 12	25 <sub>a</sub>	0						
		83.6	54	i 12	26	+ 1				i 13	25	?
		84.0	326	e 12	26 <sub>a</sub>	- 1	e 22	46	0	e 15	43	PP
		84.0	330	e 12	28?	+ 1						
		84.2	330	e 12	28	+ 4	e 22	47	+ 7	e 13	20	?
		84.6	337	e 12	29	- 1	e 22	57	+ 4			e 43.1
	Z.	84.7	341	i 12	30 <sub>k</sub>	0						e 42.1
		85.1	330	e 12	32 <sub>a</sub>	0						
		85.9	334	i 12	37	+ 1	e 23	10	+ 5	e 15	23	PP
		85.9	331	i 12	35	- 2				e 13	22	?
		86.2	320	e 12	21	-17	23	3	- 5			38.1
	Z.	86.6	326	i 12	38 <sub>a</sub>	- 2	i 23	25	+14	i 16	13	PP
		87.5	324	i 12	42 <sub>a</sub>	- 2	e 23	26	+ 6			e 43.1

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	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Lubbock	88.2	48	e 12	49	+ 1	e 23	35	+ 8	—	—	—
Monaco	88.2	328	e 12	46	- 2	—	—	—	e 16	16	PP
Clermont-Ferrand	88.3	332	e 12	48	0	—	—	—	—	—	50.1
Messina	88.8	320	e 12	49	- 2	e 23	37	+ 5	16	23	PP
Fayetteville	90.6	41	i 12	59 <sub>a</sub>	0	—	—	—	—	—	—
Shawinigan Falls	90.7	22	e 13	1	+ 2	—	—	—	—	—	—
Ottawa	90.8	25	i 13	0 <sub>a</sub>	0	—	—	—	13	29	pP
Palisades	95.3	25	—	—	—	e 23	56	[+ 5]	e 24	36	S
Tamanrasset	z. 106.2	317	e 17	18	?	—	—	—	e 18	30	PP
Astrida	107.9	281	e 18	47	PP	—	—	—	—	—	—
Lwiro	108.4	282	e 18	50	PP	—	—	—	—	—	—
Kimberley	z. 126.5	260	i 18	51 <sub>a</sub>	[- 8]	—	—	—	—	—	—
Huancayo	z. 138.9	61	i 19	26	[+ 4]	—	—	—	e 24	20	?
La Paz	z. 147.0	57	i 19	41	[+ 5]	—	—	—	e 22	23	?

Sept. 29d. 23h. 20m. 55s. Epicentre 35°·60N. 140°·12E. Depth of focus = 0.006R.

A = -0.6254, B = +0.5226, C = +0.5795;  $\delta$  = +6; h = 0;  
D = +0.641, E = +0.767; G = -0.445, H = +0.372, K = -0.815.

	$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.
	$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	s.	m.	s.	m.
Tokyo	0.3	286	i 0	12 <sub>k</sub>	- 1	i 0	20	- 3	—	—	—
Yokohama	0.4	247	e 0	13 <sub>k</sub>	- 1	i 0	21	- 3	—	—	—
Tyosi	0.6	78	i 0	14 <sub>a</sub>	- 2	i 0	24	- 3	—	—	—
Kumagaya	0.8	313	i 0	18	+ 1	i 0	30	- 1	—	—	—
Mito	0.8	20	i 0	16 <sub>a</sub>	- 2	0	28	- 3	—	—	—
Titibu	0.9	295	i 0	18	0	i 0	33	+ 1	—	—	—
Utunomiya	1.0	348	i 0	18	- 1	e 0	31	- 2	—	—	—
Osima	z. 1.0	216	i 0	18 <sub>k</sub>	- 1	—	—	—	—	—	—
Misima	1.1	244	i 0	19 <sub>a</sub>	- 1	e 0	33	- 2	—	—	—
Hunatu	1.1	265	i 0	20	0	e 0	35	- 1	—	—	—
Maebasi	1.2	314	i 0	21	0	e 0	34	- 3	—	—	—
Kohu	1.3	272	i 0	23	+ 1	i 0	44	+ 4	—	—	—
Oiwake	1.5	300	i 0	26	+ 1	e 0	44	0	—	—	—
Onahama	1.5	25	i 0	26 <sub>k</sub>	0	i 0	39	- 6	—	—	—
Shirakawa	1.5	3	i 0	27 <sub>k</sub>	+ 1	0	45	- 1	—	—	—
Shizuoka	1.5	246	i 0	26 <sub>a</sub>	0	i 0	45	- 1	—	—	—
Matusiro	1.8	302	i 0	30 <sub>k</sub>	0	—	—	—	—	—	—
Omaesaki	1.8	238	i 0	30 <sub>a</sub>	0	i 0	57	+ 4	—	—	—
Matumoto	E. 1.9	291	i 0	33	+ 3	0	57	+ 4	—	—	—
Iida	1.9	268	i 0	33	+ 3	e 0	58	+ 5	—	—	—
Hamamatu	2.1	247	i 0	35 <sub>a</sub>	+ 1	i 1	5	+ 5	—	—	—
Hokusima	2.1	7	0	35 <sub>a</sub>	0	0	58	- 3	—	—	—
Takayama	N. 2.4	284	0	38	0	—	—	—	—	—	3.3
Gihu	2.7	267	i 0	43 <sub>a</sub>	0	1	30	+15	—	—	—
Aikawa	2.8	329	i 0	44	0	1	21	+ 4	—	—	—
Kanazawa	3.0	289	i 0	48	+ 2	e 1	37	+17	—	—	—
Isinomaki	3.0	18	0	45 <sub>k</sub>	- 1	e 1	18	- 3	—	—	—
Ibukisan	3.1	267	e 0	45	- 2	e 1	26	+ 3	—	—	—
Tu	3.1	255	i 0	46	- 1	i 1	29	+ 6	—	—	—
Wazima	3.1	305	i 0	48	0	e 1	23	- 2	—	—	—
Hukui	3.2	279	i 0	51	+ 3	i 1	45	+20	—	—	—
Hikone	3.2	265	i 0	50	+ 1	1	28	+ 2	—	—	—
Tsuruga	3.3	272	i 0	59	+ 9	—	—	—	—	—	—
Sakata	3.3	356	0	54	+ 4	1	32	+ 3	—	—	—
Owase	3.6	246	i 0	53 <sub>a</sub>	- 1	e 1	44	+ 9	—	—	—
Mizusawa	3.6	13	i 0	55	0	1	37	0	—	—	—
Nara	3.6	257	e 0	55	0	e 1	43	+ 6	—	—	—
Kyoto	3.6	262	0	53	- 2	1	44	+ 7	—	—	—
Osaka	3.9	257	i 0	59	+ 1	e 1	48	+ 5	—	—	—
Akita	4.1	0	i 1	3	+ 1	1	53	+ 4	—	—	3.2

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1956

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		$\Delta$	Az.	P.		O-C.	S.		O-C.	Supp.		L.	
		°	°	m.	s.	s.	m.	s.	s.	m.	s.	m.	
Kobe		4.1	259	1	6	+ 4	e 2	0	+10	1	14	PP	—
Siomisaki		4.2	240	i 1	2 <sub>a</sub>	- 1	e 2	0	+ 9	i 1	23	PP	—
Morioka		4.2	11	i 1	3 <sub>k</sub>	0	i 1	49	- 2	—	—	—	—
Wakayama		4.3	253	e 1	5	+ 1	e 2	9	+16	—	—	—	—
Miyak <sub>o</sub>		4.3	19	i 1	3 <sub>k</sub>	- 1	i 1	50	- 4	—	—	—	—
Toyooka		4.3	271	i 1	4	- 1	e 2	3	+ 9	—	—	—	—
Sumoto		4.5	255	i 1	6 <sub>a</sub>	- 1	2	7	+ 9	—	—	—	—
Tottori		4.8	271	1	12	+ 1	e 2	11	+ 5	2	27	SS	—
Tokusima		4.8	253	e 1	11	0	i 2	4	- 3	—	—	—	—
Himeji		4.8	258	e 1	7	- 4	i 2	18	+11	—	—	—	—
Hatinohe		5.0	12	i 1	14 <sub>k</sub>	- 1	i 2	8	- 4	—	—	—	—
Torisima		5.1	178	e 1	13	- 2	e 2	12	- 3	—	—	—	—
Takamatu		5.1	257	i 1	15 <sub>a</sub>	- 1	i 2	25	+10	—	—	—	—
Aomori		5.2	5	e 1	17	0	e 2	15	- 2	—	—	—	—
Muroto		5.4	246	i 1	19	- 1	e 2	27	+ 5	—	—	—	—
Yonago		5.5	270	1	25	+ 4	2	31	+ 7	—	—	—	—
Saigo		5.5	278	i 1	21	0	e 2	56	SS	—	—	—	—
Matsue		5.7	271	1	25	+ 1	e 2	51	SS	—	—	—	—
Koti		5.8	251	i 1	25 <sub>a</sub>	0	i 2	40	+ 9	i 2	9	?	—
Hakodate	N.	6.2	4	e 1	32	+ 2	e 2	36	- 5	—	—	—	—
Matuyama	N.	6.3	256	e 1	31	- 1	e 3	0	+16	—	—	—	—
Hirosima		6.4	261	1	33 <sub>a</sub>	- 1	2	47	+ 1	—	—	—	—
Mori	E.	6.5	3	1	39	+ 4	3	5	SS	—	—	—	—
Hamada	E.	6.6	266	e 1	38	+ 2	3	6	SS	—	—	—	—
Uwazima		6.7	251	1	37	0	—	—	—	—	—	—	3.6
Muroran		6.8	5	e 1	36	- 2	e 2	50	- 5	1	51	PP	—
Urakawa		6.9	17	e 1	39	- 1	i 2	52	- 5	—	—	—	—
Tomakomai		7.0	9	e 1	43	+ 1	i 2	57	- 4	—	—	—	—
Suttsu		7.2	1	e 1	51	+ 7	—	—	—	—	—	—	—
Ooita		7.4	254	e 1	47	0	e 3	12	+ 1	—	—	—	—
Sapporo		7.5	7	e 1	46	- 3	e 3	7	- 6	—	—	—	—
Obihiro		7.7	17	e 1	52	+ 1	e 3	9	- 9	—	—	—	—
Simonoseki		7.7	260	e 1	53	+ 1	e 3	30	+11	—	—	—	—
Kusiro		8.1	23	e 1	53	- 4	i 3	17	-10	—	—	—	i 4.3
Miyazaki		8.1	246	1	58 <sub>a</sub>	+ 1	3	47	SS	—	—	—	—
Hukuoka		8.2	259	e 1	59	0	e 3	41	+10	—	—	—	—
Kumamoto		8.3	253	1	59	0	3	36	+ 4	—	—	—	—
Asahigawa		8.4	11	e 1	55	- 5	e 3	29	- 5	—	—	—	—
Saga		8.4	257	i 2	3 <sub>a</sub>	+ 2	e 3	59	SSS	—	—	—	4.7
Nemuro		8.8	27	e 2	1	- 5	e 3	32	-13	—	—	—	—
Kagosima		8.9	246	2	9 <sub>a</sub>	+ 1	—	—	—	—	—	—	e 5.1
Nagasaki	N.	8.9	254	2	10	+ 2	—	—	—	—	—	—	4.4
Abashiri		9.0	20	e 2	7	- 2	i 3	40	-10	—	—	—	—
Vladivostok		9.8	322	i 2	20	0	e 4	9	- 1	—	—	—	—
Tomie		9.9	256	e 2	20	- 1	e 4	29	SS	—	—	—	—
Wakkanai		9.9	6	e 2	41	+20	e 4	5	- 6	—	—	—	—
Kurilsk		11.3	29	i 2	36	- 4	i 4	35	-11	—	—	—	—
Yuzno-Sakhlinsk		11.5	9	i 2	41	- 2	i 4	47	- 4	—	—	—	—
Ulegorsk		13.5	5	e 3	11	+ 1	—	—	—	—	—	—	—
Changchun		14.0	310	e 3	13	- 3	e 5	56	+ 5	—	—	—	—
Dairen		15.1	288	e 3	34	+ 4	—	—	—	—	—	—	—
Zô-Sê		16.4	260	i 3	48 <sub>a</sub>	+ 1	6	59	+13	7	19	SS	—
Nanking		18.1	265	4	8	+ 1	7	34	+11	4	26	PP	—
Ilan		19.2	241	e 4	30	+10	—	—	—	—	—	—	—
Taipei		19.2	242	e 4	34	+14	8	10	SS	—	—	—	—
Peking		19.4	290	i 4	18 <sub>a</sub>	- 4	e 7	51	- 1	4	37	PP	—
Kwanting		19.9	291	e 4	25	- 2	—	—	—	—	—	—	—
Futzeling		20.3	265	e 4	30	- 2	—	—	—	—	—	—	—
Hsinkong		20.5	238	e 4	31	- 3	—	—	—	—	—	—	—
Hengchun		21.7	236	e 4	47	+ 1	—	—	—	—	—	—	—
Petropavlovsk		21.9	31	i 4	48	0	18	45	+ 6	e 5	2	pP	—
Guam		22.4	168	i 4	52	- 1	—	—	—	—	—	—	—
Magadan		25.0	13	5	17	- 1	9	37	+ 4	—	—	—	—
Sian		25.6	276	e 5	31	+ 8	—	—	—	—	—	—	—
Baguio		25.8	227	i 5	22	- 4	e 11	13	SS	—	—	—	—

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1956

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		$\Delta$	Az.	P.		O-C.	S.	O-C.	Supp.		L.		
		$^{\circ}$	$^{\circ}$	m.	s.	s.	m.	s.	m.	s.	m.		
Hong Kong		26.2	247	5	29 <sub>k</sub>	0	—	—	e 9	5	PcP	—	
Canton		26.4	249	5	29 <sub>a</sub>	-2	10	2	—	—	—	—	
Manila		27.1	224	e 5	14	-23	9	26	—	—	—	—	
Irkutsk		30.3	315	6	4 <sub>a</sub>	-2	11	1	—	—	—	—	
Tiksi		36.6	354	i 6	58	-2	e 12	36	-1	e 15	14	SS	—
Rabaul	Z.	41.2	162	i 7	38	0	—	—	—	i 8	12	sP	—
Shillong	Z.	42.4	270	i 7	46	-2	—	—	—	—	—	—	—
Semipalatinsk		45.0	308	i 8	9	0	—	—	—	—	—	—	—
Chatra		45.7	274	8	13	-2	—	—	—	i 9	52	PcP	—
Frunse		50.1	299	i 8	49 <sub>a</sub>	-1	i 15	51	-3	i 10	8	PcP	—
College		50.9	32	i 8	55 <sub>k</sub>	0	—	—	—	—	—	—	—
Dehra Dun		51.6	283	e 9	0	0	i 16	16	+1	—	—	—	—
Tashkent		54.4	299	i 9	19	-2	e 16	49	-3	i 16	57	PS	—
Sverdlovsk		55.5	319	i 9	29	-1	—	—	—	17	30	PS	—
Stalinabad		55.7	296	i 9	31	0	—	—	—	i 16	11	?	—
Sitka		58.2	40	i 9	49	+1	i 17	48	+6	e 19	33	ScS	—
Madras	E.	58.2	263	e 9	45	-3	—	—	—	—	—	—	—
Poona		60.4	272	i 10	2	-2	e 18	16	+5	18	28	PS	—
Quetta		60.4	288	i 10	2	-2	—	—	—	—	—	—	—
Bombay		61.0	273	e 10	7	-1	e 18	21	+2	—	—	—	—
Colombo	E.	61.9	258	—	—	—	e 18	28	-3	—	—	—	—
Brisbane		63.9	167	i 10	26	-1	—	—	—	i 14	29	PPP	—
Sodankyla		65.9	337	i 10	38	-2	—	—	—	i 11	13	PcP	—
Apia		67.0	128	e 10	58	+11	—	—	—	—	—	—	—
Kiruna		67.5	339	i 10	49 <sub>a</sub>	-1	—	—	—	i 13	14	PP	—
Moscow		67.8	323	10	51	-1	19	43	+1	11	16	PcP	—
Horseshoe Bay		67.8	44	e 10	53	+1	—	—	—	—	—	—	—
Victoria		68.2	45	e 11	1	+7	—	—	—	—	—	—	—
Pulkovo		68.9	329	e 10	56	-3	e 19	54	-2	e 13	28	PP	—
Riverview		69.8	170	i 11	4	0	i 20	6	-1	i 11	23	pP	—
Corvallis		70.2	49	i 11	4	-3	e 20	12	+1	i 11	24	pP	—
Tiflis		70.9	308	i 11	11	0	—	—	—	e 20	54	PS	—
Shasta	Z.	72.8	52	i 11	23	+1	—	—	—	—	—	—	—
Skalstugan		72.9	338	i 11	22 <sub>a</sub>	0	—	—	—	i 11	31	pP	—
Ukiah		73.1	54	i 11	25 <sub>a</sub>	+1	—	—	—	—	—	—	—
Scoresby Sund		73.4	354	i 11	26	0	—	—	—	—	—	—	—
Mineral		73.5	52	e 11	26 <sub>a</sub>	0	—	—	—	i 11	10	pP	—
Hungry Horse		73.5	42	i 11	27 <sub>a</sub>	+1	e 20	50	0	e 14	8	PP	—
Upsala		73.8	334	i 11	27 <sub>a</sub>	-1	—	—	—	i 14	11	PP	—
Berkeley		74.4	54	i 11	32 <sub>a</sub>	+1	e 21	3	+4	e 21	47	PS	—
Saskatoon		75.0	36	i 11	36	+1	i 21	10	+4	—	—	—	—
Reno	Z.	75.1	52	e 11	37 <sub>a</sub>	+2	—	—	—	—	—	—	—
Lick	Z.	75.1	55	i 11	37 <sub>a</sub>	+1	—	—	—	i 12	3	PcP	—
Simferopol		75.6	315	i 11	38	0	e 21	12	0	i 12	0	PcP	—
Butte	N.	75.7	43	i 11	40 <sub>a</sub>	+1	—	—	—	i 13	11	?	—
Fresno	Z.	76.7	54	e 11	45 <sub>a</sub>	+1	—	—	—	—	—	—	—
King Ranch	Z.	77.5	55	i 11	50 <sub>a</sub>	+1	—	—	—	i 12	7	sP	—
Tinemaha		77.5	53	i 11	50 <sub>a</sub>	+1	e 21	47	+14	i 11	55	PcP	—
Eureka		77.6	50	i 11	50 <sub>a</sub>	+1	i 21	31	-2	i 12	27	?	—
Iasi		77.8	320	e 11	52	-1	e 21	38	-1	—	—	—	—
Woody	Z.	77.9	55	i 11	51 <sub>a</sub>	0	—	—	—	i 12	9	sP	—
Isabella	Z.	78.2	55	i 11	53 <sub>a</sub>	0	—	—	—	i 12	3	PcP	—
China Lake	Z.	78.6	54	i 11	57 <sub>a</sub>	+2	—	—	—	i 12	13	sP	—
Copenhagen	Z.	78.7	333	i 11	56	0	—	—	—	—	—	—	—
Pasadena		79.2	56	i 11	58 <sub>a</sub>	-1	i 22	3	+12	i 12	6	PcP	e 36.4
Salt Lake City		79.3	47	i 12	0 <sub>k</sub>	+1	—	—	—	—	—	—	e 38.8
Reykjavik		79.6	352	i 12	2 <sub>k</sub>	+2	—	—	—	—	—	—	—
Riverside		79.9	55	i 12	3 <sub>a</sub>	+1	i 22	1	+3	i 12	12	PcP	—
Boulder City		80.4	53	i 12	6 <sub>a</sub>	+1	e 22	22	+19	i 12	31	pP	—
Palomar		80.6	56	i 12	6 <sub>a</sub>	0	—	—	—	i 12	13	PcP	—
Barrett		81.1	56	i 12	10 <sub>a</sub>	+1	i 22	15	+4	i 12	27	sP	—
Ksara		81.1	305	i 12	8	-1	e 22	15	+4	i 12	33	pP	—
Hayfield	N.	81.2	55	i 12	11	+2	—	—	—	—	—	—	—
Hamburg	Z.	81.3	332	i 12	11	+2	—	—	—	i 15	17	PP	—
Safed		81.9	305	i 12	11	-2	—	—	—	—	—	—	—

Continued on next page.

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		$\Delta$	Az.	P.		O-C.	S.	O-C.	Supp.		L.	
		°	°	m.	s.	s.	m.	s.	m.	s.	m.	
Budapest		81.9	324	12	15	+ 2	—	—	e 15	23	PP	—
Cobb River	E.	82.0	156	e 12	14	+ 1	—	—	—	—	—	—
Hurbanovo		82.0	325	i 12	15	+ 2	—	—	e 14	20	?	—
Rapid City	E.	82.1	41	i 12	15k	+ 2	i 22	22	+ 1	e 30	43	PKKP
Prague		82.1	328	i 12	13	- 1	e 15	22	PP	12	46	sP
Bratislava		82.3	325	i 12	17	+ 2	e 22	16	- 7	i 15	21	PP
Kalossa	E.	82.6	323	e 12	17	+ 1	—	—	—	e 15	27	PP
Jena		82.7	330	e 12	16	- 1	e 22	17	-10	e 15	27	PP
Jerusalem		82.8	304	i 12	16	- 1	—	—	—	i 15	19	PP
Kaimata	N.E.	82.8	157	e 12	29	+12	—	—	—	—	—	—
Wellington		82.8	154	i 12	17k	0	—	—	—	e 16	15	?
Cheb		83.0	329	i 12	17	- 1	i 15	27	PP	i 13	15	?
Sofia	Z.	83.1	318	i 12	20	+ 2	22	43	+12	i 15	31	PP
Belgrade		83.1	321	i 12	19k	0	e 23	0	+29	e 23	17	sP
Witteveen	Z.	83.1	334	i 12	20a	+ 1	—	—	—	—	—	—
Boulder		83.6	45	i 12	24	+ 2	—	—	—	—	—	—
Durham	Z.	84.2	339	i 12	25	+ 1	—	—	—	—	—	—
Tucson		85.3	53	i 12	31a	+ 1	i 22	55	+ 2	e 12	48	pP
Stuttgart		85.3	330	i 12	30a	0	e 23	13	+20	e 12	45	pP
Karlsruhe	Z.	85.5	330	i 12	31	+ 1	—	—	—	12	37	PcP
Triest		85.7	325	i 12	31a	- 1	22	50?	- 7	i 12	39	pP
Ebingen		85.9	330	e 12	33	0	—	—	—	—	—	—
Strasbourg		86.1	330	i 12	34a	+ 1	e 23	5	+ 5	i 12	50	pP
Kew		86.6	336	i 12	37a	+ 1	e 23	6	0	e 15	59	PP
Rathfarnham Castle		86.8	341	i 12	36a	- 1	e 23	5	- 2	i 12	53	pP
Basle		87.0	330	e 12	38a	0	—	—	—	—	—	—
Neuchatel		87.7	330	i 12	41	0	—	—	—	—	—	—
Besançon		87.8	331	i 12	42	0	—	—	—	e 16	23	PP
Taranto		87.9	320	13	3	+21	23	8	- 9	—	—	—
Paris		87.9	333	e 12	42	0	e 23	9	- 8	e 16	10	PP
Florence		88.3	326	i 12	45	+ 1	e 23	30	+ 9	i 16	11	PP
Rome		89.2	324	i 12	46	- 2	e 23	42	+13	i 16	21	PP
Kirkland Lake	Z.	89.2	26	e 12	48	- 1	—	—	—	—	—	—
Lubbock		90.0	47	e 12	54	+ 2	e 23	45	+ 8	—	—	—
Monaco		90.0	328	e 12	51a	- 2	e 16	26	PP	e 13	13	pP
Clermont-Ferrand		90.2	331	e 12	55a	+25	—	—	—	—	—	45.1
Messina		90.4	319	12	53k	- 1	e 23	39	- 2	e 13	7	pP
Macquarie Is.	Z.	91.2	169	i 13	0	+ 2	—	—	—	i 13	20	pP
Florissant		92.5	37	e 13	8	+ 4	24	7	+ 8	e 23	34	SKS
Fayetteville		92.6	41	i 13	5a	+ 1	—	—	—	—	—	—
St. Louis		92.7	37	i 13	4k	- 1	24	0	- 1	13	24	pP
Shawinigan Falls		93.0	22	e 13	7	+ 1	—	—	—	—	—	—
Seven Falls		93.1	21	i 12	58k	- 9	—	—	—	—	—	—
Ottawa		93.1	24	e 13	5	- 2	—	—	—	—	—	—
Brébeuf		93.7	23	i 13	10a	+ 1	—	—	—	—	—	—
Morgantown		96.5	30	i 13	24k	+ 2	—	—	—	i 13	47	pP
Palisades		97.6	25	—	—	—	e 23	50	[- 8]	e 24	32	S
Algiers Univ.	Z.	97.7	326	e 13	26	- 1	—	—	—	e 17	28	PP
Alicante		97.9	330	13	21	- 7	24	37	- 8	17	23	PP
Guadalajara		97.9	58	—	—	—	—	—	—	e 30	42	SS
Toledo	Z.	97.9	333	i 13	29k	0	—	—	—	e 17	24	PP
Relizane		99.6	328	e 13	33	- 3	—	—	—	e 17	57	PP
Almeria		100.0	330	i 13	36	- 3	23	40	[- 36]	17	43	PP
Granada		100.1	331	14	1k	+22	—	—	—	17	51	PP
Columbia		100.8	34	e 13	43k	+ 1	e 24	49	-20	e 17	48	PP
Tacubaya		101.6	56	—	—	—	—	—	—	e 33	22	SSP
Tananarive		102.8	256	e 13	51a	+ 1	—	—	—	e 18	9	PP
Tamanrasset	Z.	107.8	316	e 14	13	P	e 28	40	SPP	e 14	35	pP
Astrida		108.0	280	e 14	15	P	—	—	—	e 18	32	PP
Lwiro		108.6	281	e 14	17	P	—	—	—	e 18	26	PKP
Uvira		109.0	280	—	—	—	—	—	—	e 18	48	pP'
San Juan		120.8	29	e 18	43	[- 11]	—	—	—	e 20	14	PP
Pietermaritzburg	Z.	121.6	254	i 18	47k	[+ 2]	—	—	—	—	—	—
Pretoria	Z.	121.7	259	i 18	45a	[ 0]	—	—	—	—	—	—
Kimberley	Z.	125.7	258	i 18	55a	[+ 2]	—	—	—	—	—	—
M'Bour		125.8	332	e 19	52	[- 11]	—	—	—	—	—	—
Huancayo	Z.	140.3	63	i 19	15	[- 5]	e 22	54	PKS	—	—	—
La Paz		148.5	60	i 19	38a	[+ 4]	—	—	—	i 20	11	?
Santa Lucia		154.6	94	i 19	45	[+ 2]	—	—	—	—	—	—

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## Further reported epicentres for July, August, September.

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

July 2d. 17h. 24m. Epicentre  $33^{\circ}5S$ .  $179^{\circ}0W$ . Magnitude 6.

July 4d. 0h. 40m. Epicentre  $18^{\circ}0S$ .  $178^{\circ}5W$ . Depth of focus 450km.

July 4d. 16h. 10m. Epicentre  $23^{\circ}5S$ .  $180^{\circ}$ . Depth of focus 450km.

July 9d. 3h. 28m. Epicentre  $46^{\circ}5S$ .  $167^{\circ}5E$ . Magnitude 5.1.  
Felt at Southland and in Foveau Strait.

July 18d. 5h. 18m. Epicentre  $21^{\circ}5S$ .  $170^{\circ}0E$ .

July 21d. 15h. 21m. Epicentre  $22^{\circ}5S$ .  $172^{\circ}5E$ .

July 23d. 14h. 25m. Epicentre  $4^{\circ}5S$ .  $154^{\circ}0E$ .

July 26d. 17h. 39m. Epicentre  $27^{\circ}0S$ .  $178^{\circ}0E$ . Depth of focus 650km.

July 28d. 2h. 2m. Epicentre  $6^{\circ}0S$ .  $154^{\circ}0E$ . Depth of focus 150km.

July 31d. 10h. 34m. Epicentre  $31^{\circ}5S$ .  $179^{\circ}5E$ . Depth of focus 400km.  
Magnitude 5.75.

July 31d. 20h. 36m. Epicentre  $37^{\circ}6S$ .  $176^{\circ}5E$ . Depth of focus 200km.  
Magnitude 5.25.

Aug. 1d. 17h. 33m. Epicentre  $14^{\circ}5S$ .  $173^{\circ}5W$ .

Aug. 9d. 3h. 4m. Epicentre  $18^{\circ}5S$ .  $179^{\circ}0E$ . Depth of focus 500km. Magnitude 5.1.

Aug. 9d. 21h. 45m. Epicentre  $32^{\circ}0S$ .  $178^{\circ}0W$ . Magnitude 5.6.

Aug. 13d. 9h. 7m. Epicentre  $28^{\circ}5S$ .  $176^{\circ}0W$ . Magnitude 5.8.

Aug. 14d. 11h. 48m. Epicentre  $32^{\circ}4S$ .  $179^{\circ}2W$ . Magnitude 5.4.

Aug. 14d. 23h. 34m. Epicentre  $19^{\circ}5S$ .  $179^{\circ}0W$ . Depth of focus 550km. Magnitude 5.

Aug. 19d. 8h. 49m. Epicentre  $20^{\circ}0S$ .  $176^{\circ}0W$ . Depth of focus 100km.  
Magnitude 5.9.

Aug. 24d. 8h. 27m. Epicentre  $21^{\circ}0S$ .  $169^{\circ}0E$ .

Aug. 25d. 7h. 31m. Epicentre  $37^{\circ}4S$ .  $177^{\circ}0E$ . Depth of focus 225km. Magnitude 5.

Aug. 26d. 9h. 49m. Epicentre  $23^{\circ}5S$ .  $180^{\circ}$ . Depth of focus 600km. Magnitude 6.



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Sept. 2d. 14h. 24m. Epicentre  $22^{\circ}5S$ ,  $178^{\circ}5W$ . Depth of focus 300km.

Sept. 3d. 18h. 5m. Epicentre  $17^{\circ}5S$ ,  $163^{\circ}5E$ .

Sept. 9d. 1h. 33m. Epicentre  $33^{\circ}75S$ ,  $178^{\circ}0W$ . Magnitude 5.5.

Sept. 10d. 23h. 51m. Epicentre  $25^{\circ}5S$ ,  $175^{\circ}5W$ .

Sept. 11d. 15h. 44m. Epicentre  $17^{\circ}0S$ ,  $169^{\circ}0E$ .

Sept. 15d. 10h. 33m. Epicentre  $4^{\circ}0S$ ,  $151^{\circ}0E$ . Depth of focus 400km.

Sept. 16d. 13h. 26m. Epicentre  $19^{\circ}0S$ ,  $174^{\circ}5W$ . Depth of focus 200km.

Sept. 22d. 6h. 53m. Epicentre  $22^{\circ}5S$ ,  $179^{\circ}5W$ . Depth of focus 650km.

Sept. 24d. 7h. 2m. Epicentre  $22^{\circ}0S$ ,  $175^{\circ}0E$ .

Sept. 25d. 2h. 1m. Epicentre  $34^{\circ}0S$ ,  $178^{\circ}75W$ . Magnitude 5.25.

Sept. 30d. 14h. 41m. Epicentre  $14^{\circ}0N$ ,  $144^{\circ}0E$ . Depth of focus 100km.

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### Seismo. Bull. Japan Met. Agency for July, August, and September, 1956, Tokyo, 1957.

July 1d. 1h. 48m. 26s. Epicentre  $32^{\circ}5N$ ,  $132^{\circ}4E$ .  
Intensity IV at Simidu and Sukumo ; II-III at Uwazima and Ooita.

July 5d. 8h. 16m. 42s. Epicentre  $43^{\circ}25N$ ,  $139^{\circ}75E$ .  
Intensity II-III at Otaru.

July 7d. 7h. 37m. 44s. Epicentre  $35^{\circ}4N$ ,  $139^{\circ}05E$ .  
Intensity IV at Hunatu and Misima ; II-III at Ajiro, Kohu, Tokyo, and Utunomiya.

July 9d. 2h. 21m. 15s. Epicentre  $42^{\circ}7N$ ,  $145^{\circ}6E$ .  
Intensity II-III at Nemuro and Kuro.

July 10d. 18h. 24m. 17s. Epicentre  $38^{\circ}3N$ ,  $142^{\circ}0E$ . Depth of focus 40km.  
Intensity II-III at Miyako, Isinomaki, Sendai, and Morioka.

July 12d. 14h. 26m. 17s. Epicentre  $36^{\circ}3N$ ,  $141^{\circ}3E$ . Depth of focus 40km.  
Intensity II-III at Mito, Kakioka, and Utunomiya.

July 13d. 16h. 19m. 18s. Epicentre  $33^{\circ}3N$ ,  $134^{\circ}7E$ . Depth of focus 40km.  
Intensity IV at Muroto ; II-III at Sumoto.

July 15d. 18h. 39m. 31s. Epicentre  $42^{\circ}2N$ ,  $142^{\circ}2E$ . Depth of focus 80km.  
Intensity V at Urakawa ; IV at Tomakomai and Muroran ; II-III at Obihiro, Sapporo,  
Hakodate, Hatinohe, Kuro, Otaru, and Iwamizawa.

July 16d. 6h. 27m. 50s. Epicentre  $38^{\circ}5N$ ,  $137^{\circ}75E$ . Depth of focus 30km.  
Intensity V at Aikawa ; IV at Niigata ; II-III at Wazima and Sakata.

July 17d. 15h. 42m. 37s. Epicentre  $33^{\circ}75N$ ,  $134^{\circ}25E$ .  
Intensity II-III at Tokushima and Takamatu.

July 21d. 22h. 12m. 18s. Epicentre  $37^{\circ}5N$ ,  $141^{\circ}2E$ . Depth of focus 100km.  
Intensity IV at Shirakawa ; II-III at Isinomaki, Onahama, Hukushima, and Sendai.

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- July 22d. 13h. 14m. 49s. Epicentre  $37^{\circ}9'N$ .  $141^{\circ}9'E$ . Depth of focus 40km.  
Intensity II-III at Sendai, Isinomaki, and Hukusima.
- July 24d. 6h. 0m. 49s. Epicentre  $37^{\circ}7'N$ .  $141^{\circ}3'E$ . Depth of focus 80km.  
Intensity IV at Isinomaki ; II-III at Sendai, Shirakawa, Miyako, and Wakamatu.
- July 26d. 6h. 13m. 18s. Epicentre  $40^{\circ}1'N$ .  $142^{\circ}5'E$ . Depth of focus 30-40km.  
Intensity IV at Miyako and Morioka ; II-III at Aomori, Mizusawa, Isinomaki, and Urakawa
- Aug. 5d. 1h. 57m. 45s. Epicentre  $35^{\circ}9'N$ .  $139^{\circ}5'E$ . Depth of focus 90km.  
Intensity II-III at Ajiro.
- Aug. 6d. 14h. 45m. 32s. Epicentre  $38^{\circ}25'N$ .  $142^{\circ}25'E$ . Depth of focus 40-60km.  
Intensity IV at Isinomaki ; II-III at Sendai, Miyako, Hukusima, and Morioka.
- Aug. 6d. 17h. 43m. Epicentre  $26^{\circ}5'N$ .  $127^{\circ}5'E$ .  
Intensity 4 at Naha.
- Aug. 9d. 13h. 45m. 24s. Epicentre  $42^{\circ}75'N$ .  $143^{\circ}5'E$ . Depth of focus 100-140km.  
Intensity IV at Obihiro and Kusiro ; II-III at Hatinohe.
- Aug. 9d. 15h. 14m. 6s. Epicentre  $35^{\circ}9'N$ .  $140^{\circ}6'E$ . Depth of focus 40km.  
Intensity IV at Tyosi, Kashiwa, Kakioka, Mito, Utunomiya, and Tukubasan ; II-III at Tokyo and Maebasi.
- Aug. 9d. 20h. 34m. 57s. Epicentre  $32^{\circ}6'N$ .  $132^{\circ}3'E$ .  
Intensity V at Sukumo and Simidu ; II-III at Uwazima, Miyazaki, and Ooita.
- Aug. 14d. 17h. 56m. 39s. Epicentre  $36^{\circ}5'N$ .  $141^{\circ}0'E$ . Depth of focus 40km.  
Intensity IV at Tukubasan ; II-III at Onahama, Mito, Kakioka, Shirakawa, Kashiwa, and Hukusima.
- Aug. 16d. 0h. 16m. 3s. Epicentre  $35^{\circ}6'N$ .  $140^{\circ}1'E$ . Depth of focus 70km.  
Intensity IV at Tokyo, Yokohama, and Tukubasan ; II-III at Kashiwa, Tyosi, Kakioka, Mera, Utunomiya, Ajiro, Osima, Hunatu, Kohu, and Shirakawa.
- Aug. 20d. 7h. 37m. 59s. Epicentre  $36^{\circ}1'N$ .  $141^{\circ}4'E$ . Depth of focus 20-30km.  
Intensity II-III at Mito.
- Aug. 22d. 14h. 20m. 55s. Epicentre  $42^{\circ}4'N$ .  $145^{\circ}1'E$ . Depth of focus 60km.  
Intensity II-III at Kusiro and Nemuro.
- Aug. 23d. 22h. 5m. 11s. Epicentre  $35^{\circ}8'N$ .  $141^{\circ}6'E$ . Depth of focus 60km.  
Intensity IV at Tyosi, Mito, and Shirakawa ; II-III at Kakioka, Onahama, Utunomiya, and Hukusima.
- Aug. 29d. 4h. 47m. 21s. Epicentre  $31^{\circ}0'N$ .  $130^{\circ}5'E$ . Depth of focus 140km.  
Unfelt.
- Aug. 31d. 14h. 48m. 18s. Epicentre  $36^{\circ}0'N$ .  $139^{\circ}3'E$ . Depth of focus 120km.  
Intensity II-III at Tokyo, Kohu, Utunomiya, Hunatu, and Kakioka.
- Sept. 6d. 22h. 45m. 28s. Epicentre  $31^{\circ}0'N$ .  $132^{\circ}0'E$ . Depth of focus 40km.  
Intensity II-III at Miyazaki.
- Sept. 9d. 8h. 59m. 55s. Epicentre  $43^{\circ}1'N$ .  $143^{\circ}6'E$ . Depth of focus 100km.  
Intensity IV at Kusiro ; II-III at Obihiro.
- Sept. 14d. 14h. 58m. 36s. Epicentre  $35^{\circ}35'N$ .  $135^{\circ}85'E$ .  
Intensity IV at Tsuruga and Maizuru ; II-III at Kyoto, Hikone, Ibukiyama, Kameyama, Toyooka, Nagoya, and Nara.

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Sept. 21d. 17h. 8m. 40s. Epicentre  $42^{\circ}5'N$ ,  $144^{\circ}5'E$ . Depth of focus 60km.  
Intensity IV at Kusiro ; II-III at Nemuro.

Sept. 24d. 12h. 1m. 27s. Epicentre  $36^{\circ}1'N$ ,  $139^{\circ}9'E$ . Depth of focus 70km.  
Intensity IV at Tukubasan ; II-III at Tokyo, Utunomiya, Kumagaya, Kashiwa, Ajiro, and Kakioka.

Sept. 27d. 19h. 49m. 18s. Epicentre  $39^{\circ}1'N$ ,  $142^{\circ}3'E$ . Depth of focus 40km.  
Intensity II-III at Miyako and Morioka.

Sept. 29d. 6h. 10m. 19s. Epicentre  $41^{\circ}0'N$ ,  $143^{\circ}0'E$ . Depth of focus 80km.  
Intensity II-III at Hatinohe and Morioka.

Sept. 30d. 0h. 3m. 29s. Epicentre  $35^{\circ}5'N$ ,  $140^{\circ}25'E$ . Depth of focus 60km.  
Intensity IV at Tokyo ; II-III at Yokohama, Tyosi, Kakioka, Ajiro, Osima, Hunatu, and Kohu.

Sept. 30d. 0h. 11m. 12s. Epicentre  $35^{\circ}5'N$ ,  $140^{\circ}25'E$ . Depth of focus 60km.  
Intensity II-III at Ajiro.

Sept. 30d. 0h. 15m. 47s. Epicentre  $35^{\circ}7'N$ ,  $140^{\circ}1'E$ . Depth of focus 60km.

Sept. 30d. 10h. 10m. 17s. Epicentre  $42^{\circ}0'N$ ,  $142^{\circ}2'E$ . Depth of focus 60km.  
Intensity V at Tomakomai ; IV at Urakawa and Kusiro ; II-III at Muroran, Hakodate, Obihiro, and Hatinohe.

Sept. 30d. 12h. 23m. 55s. Epicentre  $36^{\circ}1'N$ ,  $139^{\circ}9'E$ . Depth of focus 60km.  
Intensity IV at Kakioka, Utunomiya, Tokyo, and Tukubasan ; II-III at Kashiwa, Kumagaya, Yokohama, and Maebasi.

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### Seismological Bull. of China for 1956. Peking.

July 3d. 10h. 18m. Epicentre  $28^{\circ}25'N$ ,  $85^{\circ}0'E$ . Magnitude 5.2.

July 14d. 22h. 5m. Epicentre  $19^{\circ}0'N$ ,  $122^{\circ}0'E$ .

July 16d. 21h. 34m. Epicentre  $51^{\circ}0'N$ ,  $178^{\circ}0'W$ .

July 23d. 14h. 25m. Epicentre  $4^{\circ}5'S$ ,  $154^{\circ}0'E$ .

July 23d. 21h. 57m. Epicentre  $5^{\circ}0'S$ ,  $148^{\circ}5'E$ .

July 26d. 17h. 49m. Epicentre  $27^{\circ}0'S$ ,  $178^{\circ}0'E$ . Depth of focus 650km.

July 28d. 2h. 1m. Epicentre  $5^{\circ}0'S$ ,  $156^{\circ}0'E$ .

July 29d. 23h. 15m. Epicentre  $37^{\circ}0'N$ ,  $102^{\circ}0'E$ .

July 30d. 11h. 23m. Epicentre  $27^{\circ}5'N$ ,  $130^{\circ}0'E$ . Magnitude 4.75.

Aug. 6d. 17h. 23m. Epicentre  $27^{\circ}0'N$ ,  $128^{\circ}0'E$ .

Aug. 13d. 12h. 40m. Epicentre  $32^{\circ}5'N$ ,  $104^{\circ}5'E$ . Magnitude 4.

Aug. 19d. 0h. 44m. Epicentre  $37^{\circ}8'N$ ,  $114^{\circ}0'E$ . Magnitude 4.5.

Aug. 21d. 16h. 2m. Epicentre  $38^{\circ}0'N$ ,  $114^{\circ}0'E$ .

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Aug. 23d. 23h. 20m. Epicentre  $27^{\circ}0N$ .  $101^{\circ}5E$ . Magnitude 4.75.

Sept. 3d. 8h. 15m. Epicentre  $37^{\circ}75N$ .  $114^{\circ}0E$ . Magnitude 4.75.

Sept. 11d. 15h. 44m. Epicentre  $17^{\circ}0S$ .  $169^{\circ}0E$ . Magnitude 6.

Sept. 24d. 17h. 39m. Epicentre  $37^{\circ}0N$ .  $111^{\circ}5E$ . Magnitude 3.5.

Sept. 27d. 20h. 16m. Epicentre  $38^{\circ}5N$ .  $104^{\circ}5E$ . Magnitude 3.75.

Sept. 29d. 22h. 22m. Epicentre  $3^{\circ}0N$ .  $128^{\circ}0E$ . Depth of focus 60km.

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### Seismological Bulletin of Taiwan Weather Bureau for July - September, 1956, Vol. 3, No. 3. Taiwan, China.

July 14d. 22h. 6m. Epicentre  $20^{\circ}5N$ .  $121^{\circ}5E$ .

July 30d. 14h. 44m. Epicentre  $21^{\circ}7N$ .  $125^{\circ}0E$ .

Aug. 15d. 5h. 10m. Epicentre  $24^{\circ}1N$ .  $121^{\circ}9E$ . Depth of focus 20km.  
Intensity V at Hwalien.

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### Seismological Bulletin Government of India Meteorological Department.

July 3d. 10h. 18m. Epicentre  $28^{\circ}25N$ .  $85^{\circ}0E$ .

July 10d. 22h. 8m. Epicentre  $36^{\circ}5N$ .  $71^{\circ}5E$ . Depth of focus 100km. Magnitude 5.5.

July 14d. 0h. 14m. Epicentre  $36^{\circ}0N$ .  $71^{\circ}0E$ .

July 16d. 20h. 40m. Epicentre  $22^{\circ}5N$ .  $96^{\circ}5E$ . Depth of focus 100km.

July 24d. 2h. 14m. Epicentre  $31^{\circ}0N$ .  $92^{\circ}5E$ .

Aug. 8d. 23h. 2m. Epicentre  $31^{\circ}5N$ .  $67^{\circ}0E$ .

Sept. 9d. 17h. 35m. Epicentre  $3^{\circ}0N$ .  $129^{\circ}0E$ . Depth of focus 150km.

Sept. 11d. 15h. 44m. Epicentre  $17^{\circ}0S$ .  $169^{\circ}0E$ .

Sept. 16d. 13h. 26m. Epicentre  $19^{\circ}0S$ .  $174^{\circ}5W$ .

Sept. 16d. 14h. 23m. Epicentre  $34^{\circ}7N$ .  $72^{\circ}0E$ .

Sept. 22d. 14h. 2m. Epicentre  $39^{\circ}0N$ .  $71^{\circ}0E$ .

Sept. 25d. 16h. 25m. Epicentre  $34^{\circ}7N$ .  $72^{\circ}0E$ .

Sept. 29d. 22h. 23m. Epicentre  $3^{\circ}0N$ .  $128^{\circ}0E$ . Depth of focus 60km.

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**Bulletin of the Seismo. Stations of the U.S.S.R. July-September, 1956.  
Moscow, 1958.**

- July 5d. 8h. 17m. Epicentre  $43^{\circ}0N$ .  $140^{\circ}0E$ . Magnitude 5.
- July 7d. 10h. 30m. Epicentre  $37^{\circ}3N$ .  $56^{\circ}1E$ . Magnitude 4.5.
- July 10d. 17h. 20m. Epicentre  $52^{\circ}9N$ .  $107^{\circ}9E$ .
- July 10d. 22h. 8m. Epicentre  $36^{\circ}6N$ .  $71^{\circ}1E$ . Magnitude 4.
- July 14d. 0h. 14m. Epicentre  $36^{\circ}6N$ .  $70^{\circ}6E$ . Depth of focus 140km.
- July 14d. 12h. 29m. Epicentre  $38^{\circ}9N$ .  $53^{\circ}7E$ .
- July 16d. 23h. 50m. Epicentre  $36^{\circ}3N$ .  $69^{\circ}2E$ . Magnitude 4.25.
- July 17d. 6h. 37m. Epicentre  $36^{\circ}1N$ .  $70^{\circ}7E$ . Magnitude 4.25.
- July 17d. 10h. 49m. Epicentre  $54^{\circ}3N$ .  $110^{\circ}7E$ .
- July 22d. 16h. 44m. Epicentre  $51^{\circ}3N$ .  $105^{\circ}3E$ .
- July 24d. 22h. 4m. Epicentre  $51^{\circ}7N$ .  $106^{\circ}6E$ .
- July 26d. 3h. 53m. Epicentre  $51^{\circ}6N$ .  $106^{\circ}7E$ .
- July 29d. 1h. 38m. Epicentre  $39^{\circ}2N$ .  $71^{\circ}2E$ .
- Aug. 1d. 9h. 35m. Epicentre  $37^{\circ}7N$ .  $71^{\circ}9E$ . Depth of focus 100km.
- Aug. 2d. 4h. 43m. Epicentre  $39^{\circ}4N$ .  $71^{\circ}0E$ .
- Aug. 9d. 3h. 51m. Epicentre  $39^{\circ}4N$ .  $68^{\circ}0E$ . Magnitude 4.
- Aug. 16d. 7h. 27m. Epicentre  $52^{\circ}8N$ .  $106^{\circ}6E$ .
- Aug. 17d. 3h. 40m. Epicentre  $52^{\circ}6N$ .  $106^{\circ}5E$ .
- Aug. 18d. 6h. 3m. Epicentre  $41^{\circ}1N$ .  $42^{\circ}5E$ . Magnitude 4.
- Aug. 23d. 9h. 23m. Epicentre  $36^{\circ}7N$ .  $69^{\circ}2E$ . Depth of focus 140km.
- Aug. 26d. 12h. 57m. Epicentre  $36^{\circ}7N$ .  $70^{\circ}6E$ . Depth of focus 210km.
- Aug. 27d. 15h. 37m. Epicentre  $42^{\circ}9N$ .  $47^{\circ}1E$ . Magnitude 4.
- Aug. 27d. 18h. 45m. Epicentre  $39^{\circ}3N$ .  $71^{\circ}0E$ .
- Sept. 3d. 9h. 24m. Epicentre  $36^{\circ}8N$ .  $71^{\circ}4E$ .
- Sept. 6d. 22h. 40m. Epicentre  $41^{\circ}8N$ .  $73^{\circ}0E$ . Magnitude 4.
- Sept. 8d. 15h. 39m. Epicentre  $36^{\circ}7N$ .  $70^{\circ}1E$ . Depth of focus 180km.
- Sept. 10d. 2h. 13m. Epicentre  $37^{\circ}2N$ .  $67^{\circ}7E$ . Magnitude 4.
- Sept. 10d. 14h. 15m. Epicentre  $36^{\circ}9N$ .  $71^{\circ}4E$ . Depth of focus 160km.



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- Sept. 11d. 7h. 6m. Epicentre  $37^{\circ}7N$ .  $72^{\circ}0E$ . Depth of focus 120km.  
Sept. 12d. 16h. 31m. Epicentre  $51^{\circ}3N$ .  $98^{\circ}8E$ .  
Sept. 16d. 14h. 23m. Epicentre  $34^{\circ}0N$ .  $69^{\circ}5E$ . Magnitude 5.5.  
Sept. 17d. 6h. 27m. Epicentre  $52^{\circ}1N$ .  $106^{\circ}2E$ .  
Sept. 20d. 15h. 40m. Epicentre  $51^{\circ}1N$ .  $98^{\circ}6E$ .  
Sept. 22d. 7h. 11m. Epicentre  $52^{\circ}8N$ .  $106^{\circ}9E$ .  
Sept. 22d. 14h. 2m. Epicentre  $38^{\circ}9N$ .  $70^{\circ}6E$ . Magnitude 4.  
Sept. 27d. 15h. 30m. Epicentre  $54^{\circ}8N$ .  $110^{\circ}2E$ .  
Sept. 28d. 5h. 43m. Epicentre  $48^{\circ}5N$ .  $22^{\circ}9E$ .  
Sept. 28d. 15h. 1m. Epicentre  $78^{\circ}5N$ .  $7^{\circ}0E$ .  
Sept. 29d. 15h. 23m. Epicentre  $8^{\circ}5N$ .  $97^{\circ}5E$ . Magnitude 5.5.

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

- July 8d. 13h. 5m. Epicentre  $36^{\circ}9N$ .  $26^{\circ}0E$ . Magnitude 5.25.  
July 9d. 7h. 36m. Epicentre  $36^{\circ}9N$ .  $26^{\circ}0E$ .  
Intensity V at Pholegandros.  
July 9d. 11h. 30m. Epicentre  $36^{\circ}7N$ .  $26^{\circ}3E$ . Magnitude 5.  
July 9d. 20h. 10m. Epicentre  $36^{\circ}9N$ .  $26^{\circ}0E$ . Magnitude 5.  
July 14d. 19h. 1m. Epicentre  $40^{\circ}25N$ .  $31^{\circ}0E$ .  
July 17d. 3h. 19m. Epicentre  $38^{\circ}0N$ .  $20^{\circ}0E$ .  
July 19d. 19h. 57m. Epicentre  $38^{\circ}0N$ .  $20^{\circ}8E$ .  
Intensity IV at Agrinion.  
July 28d. 15h. 19m. Epicentre  $36^{\circ}0N$ .  $25^{\circ}5E$ .  
Aug. 9d. 3h. 37m. Epicentre  $35^{\circ}75N$ .  $25^{\circ}75E$ .  
Intensity IV at Phourni and Neapolis ; III at Vrachasi.  
Aug. 15d. 14h. 38m. Epicentre  $36^{\circ}0N$ .  $21^{\circ}75E$ .  
Aug. 25d. 11h. 8m. Epicentre  $36^{\circ}25N$ .  $23^{\circ}75E$ .  
Intensity III at Kythera and Crete.  
Aug. 28d. 1h. 29m. Epicentre  $41^{\circ}0N$ .  $30^{\circ}25E$ .  
Sept. 3d. 18h. 41m. Epicentre  $36^{\circ}4N$ .  $22^{\circ}4E$ .  
Intensity IV at Gythion in Laconia.  
Sept. 6d. 12h. 59m. Epicentre  $35^{\circ}5N$ .  $25^{\circ}25E$ .  
Intensity IV at Thera, Phourni, and Neapolis ; III at Rethymnon.

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**1956**

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**Seismological Bulletin of National University of Mexico for July, August, and September, 1956. Tacubaya.**

- July 14d. 3h. 38m. Epicentre  $17^{\circ}1'N$ .  $101^{\circ}11'W$ . Magnitude 5.6.
- July 16d. 10h. 46m. Epicentre  $14^{\circ}43'N$ .  $93^{\circ}20'W$ .
- July 17d. 22h. 33m. Epicentre  $17^{\circ}1'N$ .  $101^{\circ}11'W$ .
- July 19d. 23h. 38m. Epicentre  $9^{\circ}2'N$ .  $85^{\circ}0'W$ .
- July 20d. 23h. 6m. Epicentre  $13^{\circ}0'N$ .  $92^{\circ}10'W$ .
- July 26d. 9h. 53m. Epicentre  $39^{\circ}5'N$ .  $118^{\circ}5'W$ . Magnitude 5.
- July 27d. 23h. 53m. Epicentre  $14^{\circ}26'N$ .  $94^{\circ}29'W$ .
- July 28d. 1h. 16m. Epicentre  $14^{\circ}26'N$ .  $94^{\circ}29'W$ .
- July 28d. 11h. 21m. Epicentre  $0^{\circ}0'$   $80^{\circ}5'W$ .
- July 29d. 8h. 12m. Epicentre  $18^{\circ}17'N$ .  $103^{\circ}19'W$ .
- July 29d. 13h. 29m. Epicentre  $14^{\circ}0'N$ .  $89^{\circ}50'W$ . Depth of focus 100km.
- Aug. 5d. 17h. 12m. Epicentre  $15^{\circ}54'N$ .  $98^{\circ}27'W$ .
- Aug. 5d. 20h. 30m. Epicentre  $16^{\circ}8'N$ .  $98^{\circ}19'W$ .
- Aug. 10d. 2h. 17m. Epicentre  $10^{\circ}0'N$ .  $84^{\circ}5'W$ .
- Aug. 15d. 22h. 52m. Epicentre  $20^{\circ}7'N$ .  $99^{\circ}7'W$ .
- Aug. 20d. 7h. 6m. Epicentre  $7^{\circ}5'N$ .  $80^{\circ}0'W$ .
- Aug. 20d. 7h. 20m. Epicentre  $7^{\circ}5'N$ .  $80^{\circ}0'W$ .
- Aug. 20d. 9h. 44m. Epicentre  $14^{\circ}20'N$ .  $91^{\circ}34'W$ .
- Sept. 4d. 7h. 31m. Epicentre  $14^{\circ}27'N$ .  $89^{\circ}20'W$ . Depth of focus 100km.
- Sept. 6d. 9h. 12m. Epicentre  $15^{\circ}6'N$ .  $96^{\circ}32'W$ .
- Sept. 7d. 22h. 56m. Epicentre  $16^{\circ}46'N$ .  $92^{\circ}9'W$ .
- Sept. 7d. 22h. 59m. Epicentre  $16^{\circ}46'N$ .  $92^{\circ}9'W$ .
- Sept. 10d. 11h. 25m. Epicentre  $14^{\circ}2'N$ .  $89^{\circ}2'W$ .
- Sept. 10d. 12h. 12m. Epicentre  $16^{\circ}35'N$ .  $90^{\circ}53'W$ .
- Sept. 10d. 14h. 5m. Epicentre  $11^{\circ}5'N$ .  $103^{\circ}2'W$ .
- Sept. 10d. 23h. 59m. Epicentre  $8^{\circ}2'N$ .  $83^{\circ}0'W$ .
- Sept. 21d. 9h. 16m. Epicentre  $16^{\circ}40'N$ .  $101^{\circ}31'W$ . Magnitude 5.6.
- Sept. 21d. 19h. 0m. Epicentre  $19^{\circ}22'N$ .  $99^{\circ}13'W$ . With several local repetitions.
- Sept. 29d. 10h. 50m. Epicentre  $17^{\circ}43'N$ .  $96^{\circ}0'W$ .

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/>

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

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