

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

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*The Director of the I.S.S. wishes to express his thanks to H.M. Treasury, to U.N.E.S.C.O. and I.C.S.U. acting through the agency of F.A.G.S., to the National Science Foundation of the United States, and to the International Association of Seismology which have covered the cost of preparation and printing of this volume.*

*He also thanks the Director-General of the Meteorological Office and the Superintendent of Kew Observatory for the hospitality extended to his staff, and the Director of the Atlas Computer Laboratory at the National Institute for Research in Nuclear Science for the services of the electronic computer.*

*U.N.E.S.C.O. Subvention 1965 ABS/41/19*

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PAGE 1

JANUARY 1 23.H 12.M 31.S EPICENTRE 56.09 163.02 DEPTH= 0.KM

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G=-0.7921 H= 0.2419 K=-0.5605 HT= -7.6

SE= 2.48

	DELTA DEG.	AZ. DEG.	P			S			O-C		*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S		
KLYUCHI	1.22	281.7	0	30	5							0	49	
PETROPAVLOVK	3.99	221.4	1	6	2	1	52	0				1	20 *SP	
SEVERO-KUR.	6.82	220.2	1	45	1	3	4	0						
MAGADAN	7.39	303.0	1	57	5	3	30	12				4	4	
OKHA	11.86	266.0	2	57	3	5	23	15						
UGLEGORSK	14.50	249.8	3	35	6	6	19	8						
Y.-SAKHLINSK	15.50	242.7	3	47	5							4	3 *SP	
YAKUTSK	17.97	302.9	4	15	2									
TIKSI	21.17	330.5	4	51	2									
COLLEGE	25.13	49.5	5	28	0									
MATUSIRO	25.76	231.0	5	33K	-1	10	7	5						
RESOLUTE	39.90	23.9	7	38A	0	13	45	2				9	42	
HORSESHOE B.	43.15	66.5	7	51	-13									
VICTORIA	43.61	67.6	8	4	-4									
THULE	43.79	15.5	8	8	-1									
KIPAPA	45.03	124.1	8	18	-1									
HONOLULU	45.10	124.3	8	18	-2									
HUNGRY HORSE	48.48	62.2	8	45	-2							10	12	
SHASTA	49.37	75.0	8	53	0									
MINERAL	50.04	74.7	8	57A	-2									
BUTTE	50.80	63.5	9	3	-1									
APATITY	51.14	337.7	9	7	0									
SVERDLOVSK	51.27	316.5	9	7	-1									
RENO	51.59	74.2	9	14	4									
LICK	52.18	77.5	9	20	5									
SODANKYLA	52.66	340.4	9	18	0									
KIRUNA	53.33	343.3	9	23	0									
ALMATA-2	53.37	294.8	9	22	-2									
FRESNO	53.60	76.6	9	26	1									
EUREKA	53.69	71.6	9	26	0									
PASADENA	56.43	77.5	9	46	0									
PULKOVO	58.53	334.2	10	1	0									
SHILLONG	58.73	269.9	10	0	-2									
NURMIJARVI	59.17	337.5	10	5	0									
MOSCOW	60.05	327.8	10	11	0									
STALINABAD	61.21	296.9	10	19	0									
CHITTAGONG	61.28	267.7	10	19	-1							12	32 PP	
TUCSON TELE.	61.85	73.3	10	24	0							11	1	
TUCSON	61.86	73.5	10	23	-1									
LAWRENCE	64.54	57.7	10	40	-1									
PORT MORESBY	66.57	197.1	10	52	-2									
ST. LOUIS I	67.14	54.5	10	57	-1									
OTTAWA	67.49	40.7	10	58A	-2									
QUETTA	68.72	292.5	11	6	-2									
LWOW	69.08	332.9	11	12	2									
COLLMBERG	70.13	340.5	11	17K	0							11	40	
HALLE	70.13	341.2	11	17	0									
RACIBORZ	70.23	336.8	11	19	2									
JENA	70.75	341.3	11	20	0							11	44	
PRUHONICE	71.09	339.1	11	23A	1							11	38 PCP	
PALISADES	71.95	41.8	11	26	-2	20	44	-5				25	56 SS	
STUTTGART	73.23	342.2	11	35	0							11	50 PCP	
PARIS	74.21	346.8	11	41	0									
CHAPEL HILL	74.30	48.2	11	42	1									
BASLE	74.72	343.0	11	31	-13									
CHARTERS TS.	77.20	196.1	11	56	-2									
ISOLA	80.03	336.7	12	4	-9									
TAMANRASSET	99.15	339.0										17	17 PP	
BYRD STATION	142.58	163.7	19	29	-6									
SOUTH POLE	145.91	180.0										20	19	

JANUARY 2 3.H 21.M 48.S EPICENTRE -17.68 -69.21 DEPTH= 154.KM

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G=-0.1072 H= 0.2823 K=-0.9533 HT= 5.2

DEPTH OF FOCUS= 0.019R

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PAGE 2

SE= 2.68

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
LA PAZ	1.57	41.5	0	33K	2	0	58	3				
HUANCAYO	8.14	312.6	1	54A	-2	3	12	-15				
CHINCHINA	23.38	343.7	4	56	1	8	50	-3				
FUQUENE	23.43	348.6								5	38 *SP	
CARACAS	28.09	4.8	5	21K	-18	9	34	-37		5	38 *SP	
GRENADA	30.45	14.6	5	58	-2							
PORT STANLEY	35.11	167.7	6	38	-2	12	0	-1				
SAN JUAN	35.97	5.0	6	44	-3				7	21		
TACUBAYA	47.18	320.0	8	24	6	15	2	4				
COLUMBIA	52.61	347.6	9	59	59				10	37		
FAYETTEVILLE	58.47	336.3	9	30K	-12				10	33		
ST. LOUIS I	59.39	341.0	9	47	-1	17	41	-2	10	24		
MBOUR	60.58	61.6	9	56K	0							
LAWRENCE	61.40	337.1	10	0	-2							
OTTAWA	63.06	354.9	10	11	-2							
TUCSON TELE.	63.67	321.2	10	17	0				10	51	11 10 *SP	
TUCSON	63.67	321.1	10	17	0							
BYRD STATION	66.20	188.4	10	33	0							
LARAMIE	67.68	331.1	10	42	0							
BOULDER CITY	68.64	321.5	10	49	1				11	25		
RAPID CITY	68.88	334.4	10	48	-2				11	24	11 41 *SP	
PASADENA	69.49	318.1	10	54K	1	19	48	1	11	30	11 45 *SP	
SALT LAKE C.	70.35	326.9	10	59	0							
EUREKA	71.68	323.6	11	7	0				11	44	12 1 *SP	
FRESNO	72.18	319.3	11	9	0							
SOUTH POLE	72.43	180.0	11	9	-2				11	47	11 24 PCP	
BOZEMAN	73.57	330.8	11	18	0				12	12		
LICK	73.68	318.8	11	19K	1							
RENO	73.95	321.6	11	21K	1							
BERKELEY	74.40	319.0	11	23K	1				11	54		
SAN FRANCISCO	74.45	318.8	11	23K	0							
BUTTE	74.55	330.2	11	24	1				12	1	12 16	
MINERAL	75.52	321.3	11	28K	-1							
SHASTA	76.21	321.2	11	32	-1							
HUNGRY HORSE	76.93	331.1	11	37	0				12	14		
ARCATA	77.34	320.5	11	40A	1							
CORVALLIS	79.14	323.9	11	50K	1							
SCOTT BASE	79.51	190.3	11	51A	0							
SERRA PILAR	81.05	41.8	11	50A	-9							
VICTORIA	81.65	327.0	12	1	-1						12 39	
CAPE HALLETT	82.00	195.4	12	4K	0							
HORSESHOE B.	82.12	327.7	11	50	-14							
GRANADA	82.37	47.2	12	10A	4							
TAMANRASSET	83.37	63.7	12	12A	1	22	23	6	12	49	15 29 PP	
RELIZANE	84.68	50.0	12	20	3				12	56	15 37 PP	
KIMBERLEY	85.06	118.5	11	49K	-30							
ALGIERS UNI.	86.95	50.0	12	29	1	22	42	-10	13	6		
FOLINIERE	89.86	38.1	12	41	-1							
BULAWAYO	91.06	111.4	12	48	0							
BROKEN HILL	92.79	106.0	12	58	2							
RESOLUTE	93.59	353.4	12	58	-1							
THULE	93.91	0.2	13	1	0				13	39		
STUTTGART	95.77	40.7	13	8	-1				13	45		
LWIRO	96.95	94.6									16 17 PP	
COLLEGE	101.10	334.7	13	33	0				14	11	17 29 PP	
RIVERVIEW	115.94	216.8	18	30A	6						21 15	
MUNDARING	130.36	186.0	18	53	1						22 4	
RABAUL	133.74	245.9	19	0	2						22 17	
PORT MORESBY	135.12	236.0	19	4K	3						22 21	
QUETTA	138.28	64.3	19	11	4						22 2 PP	
MATUSIRO	149.37	313.3	19	28	2						20 12	

JANUARY 2 5.H 6.M 57.S EPICENTRE 3.03 95.96 DEPTH= 0.KM

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SE= 2.75

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S

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1960										PAGE 3	
MEDAN	2.77	78.6	0	49A	2	1	21	0			
PORT BLAIR	9.16	339.6	3	0	43						
DJAKARTA	14.20	130.1				6	18	14		4	52
LEMBANG	15.21	130.1	3	37	-1	7	27	59			
CHITTAGONG	19.63	348.5	4	42	9	8	24	15		5	1 PP
KODAIKANAL	19.70	292.2	4	46	12						
HYDERABAD	22.36	311.0	4	57	-4	9	13	10			
SHILLONG	22.75	350.4	5	5K	0	9	19	9			
BOKARO	22.89	335.5	5	10	3	9	20	7			
KUNMING	22.91	16.0	5	8A	1	9	21	8			
CHATRA	25.12	341.2	5	30	2	9	54	3			
HONG KONG	26.06	41.2	5	41	4	10	21	14			
POONA	26.57	307.0	5	45	3					11	48
LHASA	26.87	350.5	5	47	2	10	23	3			
BOMBAY	27.59	306.5	5	23	-28	9	37	-55		12	30
AGRA	29.48	326.1	6	9A	1	11	2	0			
DEHRA DUN	32.00	329.9	6	43	13	11	44	2			
WUHAN	32.52	30.8	6	34	-1						
SIAN	33.32	19.8	6	39	-3	11	59	-4			
LANCHOW	33.65	11.5	6	45A	0						
NANKING	35.97	34.1	7	4A	-1	12	45	1			
ZO-SE	36.68	37.7	7	11	0						
WARSAK DAM	38.30	326.4	7	26A	2						
QUETTA	38.51	317.6	7	28A	2	13	24	2			
MUNDARING	39.77	152.6	7	35	-2				7	43	9 4 PP
PEKING	41.13	23.8	7	49A	1	14	6	4			
ULAN-BATOR	45.70	10.3	8	24	-1						
CHANGCHUN	48.22	28.4	8	44A	-1						
IRKUTSK	49.56	6.7	8	55	0	16	4	1			
VLADIVOSTOK	51.11	33.5	8	5	-62						
MATUSIRO	51.21	44.0	9	6	-2	16	7	-19		20	31 SS
PORT MORESBY	52.48	104.2	9	14	-3	16	37	-6		19	3 SCS
CHARTERS TS.	54.44	117.3	9	28	-4						
ADELAIDE	55.10	137.2	9	33	-4					9	42
SVERDLOVSK	60.54	338.6	10	14	-1	18	26	-4			
MELBOURNE	60.88	136.8	10	24	7						
BRISBANE	62.49	123.0	10	26	-2	18	53	-2			
CANBERRA	62.56	132.6	10	25A	-3					12	51 PP
YAKUTSK	64.03	16.9	10	36	-2	19	11	-3			
LWIRO	67.34	266.3	11	0	1						
SIMFEROPOL	68.18	317.6	10	59	-6						
BROKEN HILL	69.07	253.4	11	10A	0						
BULAWAYO	69.92	247.4	11	15	0						
MOSCOW	70.13	329.2	11	14	-3						
TIKSI	71.60	10.5	11	23	-2						
PULKOVO	75.30	331.5	11	46	-1						
LWOW	76.07	320.6	11	54	2						
APATITY	76.97	339.5	11	57K	0						
HELSINKI	77.99	331.1	12	2	0					12	12 PCP
SODANKYLA	79.35	338.4	12	9	-1						
KHEYS	79.57	354.1	12	9	-2						
RACIBORZ	79.83	320.2	12	13	1					12	26 PCP
BRATISLAVA	80.32	318.2	12	15	0					15	16 PP
MESSINA	80.59	308.1				22	15	-8			
UPPSALA	81.53	330.0	12	20	-1						
KIRUNA	81.76	338.2	12	22	0						
LJUBLJANA	81.88	315.9	12	23A	0					12	32
PRUHONICE	82.16	319.9	12	25A	1					15	28 PP
TRIESTE	82.39	315.5	12	25	-1						
COLLMBERG	83.24	321.1	12	29	-1					15	47 PP
KARAPIRO	83.65	128.5	12	40	8						
CHATEAU	83.84	129.8	12	39	6						
COPENHAGEN	83.84	325.5	12	33	0						
HALLE	83.91	321.3	12	33	0						
JENA	84.11	320.7	12	36	2					13	21
GOTEBORG	84.23	327.5	12	33	-2						
SKALSTUGAN	84.48	333.5	12	36	0					12	49
STUTTART	85.55	318.5	12	41	-1					13	39
SETIF	88.68	306.0	12	24	-33						
TAMANRASSET	89.25	292.6	13	1A	1					16	35 PP
NORD	90.26	352.2	13	3	-1						
ALGIERS UNI.	90.54	306.7	13	5	-1	23	53	-7			
FOLINIERE	91.99	318.9	13	11	-1						
SOUTH POLE	93.01	180.0	13	24	7					13	46
COLLEGE	98.10	22.8	14	3	23						
THULE	100.14	356.3	14	2	13						
BYRD STATION	101.16	174.1	14	4	10						
RESOLUTE	102.13	2.9	14	5	7						
CORVALLIS	121.05	31.9	18	56	1						







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1960					PAGE 6
LICK	136.23	271.3	19 36	13	
BUTTE	136.94	287.3	19 26	2	22 9 PP
MINERAL	138.28	274.6	19 29K	2	
THULE	138.31	341.0	19 27	0	
SHASTA	138.96	274.4	19 41	13	
HUNGRY HORSE	139.16	289.2	19 22	-7	29 10 SCS
CORVALLIS	141.97	278.4	19 39	5	
RESOLUTE	143.32	333.6	19 29	-7	
VICTORIA	144.36	283.6	19 37	-1	
ALBERNI	145.55	283.8	19 52	12	
MATUSIRO	146.97	108.4	19 43	1	30 7 SKKS
TUKUBASAN	147.74	110.9	19 52	9	
VLADIVOSTOK	148.00	93.3	19 49	5	
TIKSI	153.95	33.2	20 0	7	
YAKUTSK	154.65	55.5	20 16	22	
COLLEGE	161.00	312.8	19 57	-4	20 40 PP

JANUARY 3 11.H 24.M 2.S EPICENTRE 43.71 84.56 DEPTH= 0.KM

A= 0.06875 B= 0.72195 C= 0.68852 D= 0.9955 E=-0.0948  
G= 0.0653 H= 0.6854 K=-0.7252 HT= -3.1

SE= 3.23

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.		
			M	S		M	S	S	M	S	M	S	
PRZHEVALSK	4.68	256.9	1	16	2						2	24	S*
ALMATA-2	5.25	267.7	1	22	0	2	37	13			2	17	
ALMATA	5.55	268.1	1	26	0						2	50	S*
NARYN	6.72	253.1	1	43	1	3	4	3			2	0	
FRUNSE	7.31	266.5	1	49	-2	3	16	1			2	19	
ANDIJAN	9.51	256.1									3	6	
TCHIMKENT	11.05	267.8									2	45	
TASHKENT	11.53	263.3	2	49	0						6	3	
KULYAB	12.63	247.7	3	0	-4						3	52	
STALINABAD	12.96	252.1	3	5	-3	5	28	-6					
SAMARKAND	13.74	259.0	3	17	-2								
WARSAK DAM	14.01	230.6	3	19	-3	5	48	-11					
DEHRA DUN	14.33	203.3	3	25	-1	5	57	-10					
LHASA	14.96	157.6	3	39	4								
IRKUTSK	15.72	50.1	3	45A	1	6	44	4					
LANCHOW	16.63	110.8	3	56	0								
CHATRA	16.97	172.0	4	0	0	7	10	1					
BAIRAM-ALI	18.06	257.9	4	15	1	7	37	3			9	44	
SHILLONG	19.05	159.4	4	25	-1	7	58	2					
QUETTA	19.45	231.9	4	28	-3	7	57	-8			4	44	PP
BOKARO	19.85	176.7	4	40	5	8	15	1					
SVERDLOVSK	20.02	319.4	4	34	-3						8	19	
CHENG TU	20.18	123.7	4	40	1	8	27	6					
SIAN	21.10	108.3	4	47	-1	8	45	6					
CALCUTTA	21.35	170.3				8	55	11			5	55	
KIZYL-ARVAT	21.63	267.7	4	54	0	8	51	2			5	2	
CHITTAGONG	22.12	161.9	4	59	0	9	2	3			5	26	PP
PEKING	23.75	88.0	5	17A	2	9	36	8					
KUNMING	23.75	135.4	5	15A	0	9	31	3					
BOMBAY	26.63	205.5				10	39	23			13	47	
POONA	26.67	203.1	5	43	1						10	38	
HYDERABAD	26.70	193.1				10	29	12					
WUHAN	27.13	108.9	5	45	-2						6	6	
GORIS	28.72	274.9									12	16	SSS
TIFLIS	29.09	280.0											
NANKING	29.20	101.9	6	4	-1								
CHANGCHUN	29.22	75.4	6	4	-2								
CANTON	31.37	121.6									11	49	
ZO-SE	31.44	101.2	6	25	0								
YAKUTSK	31.97	39.2	6	28	-2	11	38	-3					
HONG KONG	32.47	121.5									9	22	PCP
KODAIKANAL	33.91	192.6									12	17	
TIKSI	35.16	22.6	6	55	-3	12	26	-5			8	7	PP
SIMFEROPOL	35.63	290.0	7	0	-2	12	35	-3					
APATITY	35.85	329.3	7	3	0								
PULKOVO	36.07	315.8				12	39	-6			8	34	PP
KHEYS	38.22	353.2	7	22	-1						7	39	
SODANKYLA	38.38	328.1	7	23	-2						8	58	PP
OULU	38.59	324.3	7	24	-2								
KSARA	38.73	272.1	7	35	7	13	25	0			9	4	PP

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HELSINKI	38.76	316.5	7 32	4			
NURMIJARVI	38.90	317.0	7 27	-2	13 29	1	8 58 PP
IASI	39.37	295.7	7 42	9			
Y.-SAKHLINSK	40.19	64.2					22 28
KIRUNA	40.79	328.5	7 43	-2			
LWOW	40.92	300.6	7 45	-1			16 52 SS
MATUSIRO	41.03	81.1	7 44	-3			
BUCHAREST	41.23	292.1	7 47A	-1			
MAGADAN	42.15	44.0	7 57	1			
UPPSALA	42.46	316.5	7 56	-2			
TUKUBASAN	42.53	80.5	7 58K	-1			11 45 PPP
KRAKOW	43.39	302.0	8 5	-1			8 53
SKALNATE PL.	43.46	300.7	8 13	6			10 1 PPP
HELWAN	44.09	270.1	8 17	5			9 18
SKALSTUGAN	44.40	322.5	8 12	-2			9 56 PP
RACIBORZ	44.44	302.6	8 20	6			9 8
ATHENS	45.48	284.6	8 22	-1			
BRATISLAVA	45.77	300.4	8 26A	1			10 18 PP
GOTEBORG	45.78	314.4	8 28	3			10 13 PP
COPENHAGEN	46.08	311.6	8 33A	5			
PRUHONICE	46.70	303.5	8 32A	0			10 30 PP
PRAGUE	46.74	303.7					23 2
POTSDAM	46.76	307.1	8 36	3			
COLLMBERG	47.16	305.7	8 34	-2			9 19
HALLE	47.71	306.3	8 38	-2			10 30 PP
PLAUEN	47.95	304.9	8 39	-3			
CHEB	47.97	304.3					16 55
JENA	48.13	305.6	8 41	-3			10 30 PP
LJUBLJANA	48.20	298.6	8 41	-3			9 21
BERGEN	48.34	319.2	8 49	4			
NORD	48.68	348.9	8 47	-1			
TRIESTE	48.86	298.4					19 18 SS
MUNSTER	50.03	308.2	9 3	5			
STUTTGART	50.34	303.8	9 1	0			
RAVENSBURG	50.55	302.5	9 1	-1			
TUBINGEN	50.57	303.6	9 8	6			
BENSBERG	50.69	307.1	9 8A	5			
EBINGEN	50.78	303.2	9 8	4			
MESSINA	51.05	288.9	9 4	-2	16 19	-4	11 1 PP
BASLE	51.90	303.0	9 2	-11			9 31
DOURBES	52.54	307.0	9 20	3			
BESANCON	53.00	303.3	9 24	3			
MONACO	53.75	298.8	9 30	4			
DURHAM	53.88	314.3	9 32K	5	16 58	-4	20 35 SS
PARIS	54.36	306.3	9 29	-2			
KEW	54.71	310.3	9 37	4			10 41
CLERMONT-FD.	55.44	302.8	9 44	5			
FOLINIERE	56.10	307.4	9 41	-2			
RATHFARNHAM	57.02	314.3	9 54	4			14 52
THULE	58.90	352.8	9 58	-5			
SETIF	58.99	292.0	9 58	-6			
ALGIERS UNI.	60.24	293.8	10 9	-3			
RESOLUTE	61.91	359.8	10 21A	-3	18 42	-5	
RELIZANE	62.48	294.2	10 25	-3			12 40 PP
TOLEDO	63.05	300.3	10 28	-3			
COLLEGE	64.31	22.0	10 38	-2			
SERRA PILAR	65.11	303.7	10 37K	-8		10 47	13 1 PP
TAMANRASSET	66.90	279.9	10 55A	-1			13 28 PP
LISBON	66.91	301.9	11 1A	5			
LWIRO	67.61	243.3	12 0	59			
TANANARIVE	70.96	217.1	11 22K	1			
RABAUL	76.97	108.8	11 56	0			
BROKEN HILL	77.22	235.5	11 58	0			
PORT MORESBY	77.42	116.2	11 57	-2			
BULAWAYO	81.61	231.9	12 20	-1			
CHARTERS TS.	84.95	123.8	12 37	-1			
HUNGRY HORSE	86.88	12.3	12 46	-2			
MBOUR	88.31	288.2	13 2	7			
CORVALLIS	88.66	19.5	12 58K	2			
BREBEUF	89.09	344.8	13 4	5			
BUTTE	89.38	11.8	12 59	-1			
BOZEMAN	89.94	10.9	13 3	1			
RAPID CITY	92.33	5.6	13 13	0			
SHASTA	92.54	20.2	13 15	1			
MINERAL	93.06	19.7	13 16K	-1			
RENO	94.26	18.7	13 20	-2			
EUREKA	95.14	15.8	13 25	-1			
FAYETTEVILLE	100.57	359.0					17 14
SOUTH POLE	133.51	180.0	19 25	6			25 54

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BYRD STATION	142.51	173.3	19 31	4	
HUANCAYO	144.00	325.1	19 38A	1	20 45
LA PAZ	144.34	311.0	19 38	0	23 28 PKPS

JANUARY 3 20.H 19.M 34.S EPICENTRE 39.26 15.29 DEPTH= 283.KM

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G= 0.6079 H= 0.1662 K=-0.7764 HT= -1.4

DEPTH OF FOCUS= 0.039R

SE= 2.15

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
MESSINA	1.08	169.2	0	38K	-2	1	7	-3				
REGGIO CALA.	1.19	166.3	0	39K	-1	1	7	-5				
TARANTO	1.93	50.6	0	42	-3	1	22	2				
ROME	3.40	321.8				1	34	-12			1	1 PG
PRATO	5.59	327.1	1	28	3	2	33	2				
BOLOGNA	6.01	331.8	1	38	8	2	47	7				
TRIESTE	6.49	350.4	1	37	1						2	51
ZAGREB	6.58	4.2	1	38K	1						2	46 SG
ATHENS	6.72	98.4	1	38A	-1	2	51	-5				
BELGRADE	6.75	33.0	1	34K	-5	2	52	-4			1	59
LJUBLJANA	6.81	355.4	1	40A	0	2	58	0			3	7
SOFIA	6.98	57.9	1	42A	0	3	2	0			2	14
MONACO	7.40	309.6	1	48	1							
PAVIA	7.46	324.5	1	51A	3	3	16	4				
TIMISOARA	7.82	32.1	1	54	2	3	20	0				
OROPA	8.35	322.0	1	56	-3	3	25	-7			4	21
SETIF	8.41	251.8	2	0K	0	3	34	1				
CHUR	8.68	332.8	2	4K	1							
HURBANOVO	8.86	12.8	2	8	3	3	38	-5				
BRATISLAVA	9.00	7.7	2	7	0	3	40	-7				
CAMPULUNG	9.39	47.1	2	13	1							
RAVENSBURG	9.46	336.1	2	14	1	3	57	0	2	53		
BUCHAREST	9.57	53.9	2	13A	-1	3	44	-15			2	53
NEUCHATEL	9.85	324.5				4	4	-2			2	16 PP
ALGIERS UNI.	9.98	259.4	2	19	0	4	19	11			2	27 PP
BASLE	9.99	328.4				3	50	-19			2	20 PPP
EBINGEN	10.02	334.9	2	20	0	4	12	3	2	49	5	1
TUBINGEN	10.29	336.2	2	22	-1	4	16	0	2	52		
STUTTGART	10.44	337.5	2	22	-3	4	17	-2	2	51	6	20
BESANCON	10.48	322.7	2	25	0	4	22	2				
SKALNATE PL.	10.53	18.1	2	26	0	4	35	14				
PRUHONICE	10.73	357.4	2	29A	0	4	27	2				
PRAGUE	10.83	357.0	2	29A	-1	4	26	-2				
FOCSANI	10.89	49.9	2	43	13							
RACIBORZ	11.01	9.8	2	33	1	4	35	3			2	41 PP
CHEB	11.02	350.1	2	30	-2	4	35	3				
CLERMONT-FD.	11.09	309.9	2	34	1	4	39	6				
KRAKOW	11.28	15.4	2	36	1	4	25	-13			2	59 PPP
PLAUEN	11.45	349.9	2	35	-2	4	47	6				
TORTOSA	11.45	282.5	2	43	6	4	53	12				
SONNEBERG	11.49	346.7	2	38	0							
IASI	11.95	44.4	2	43	-1	5	1	8				
JENA	11.96	348.6	2	44	0	4	53	0			3	38
GARCHY	11.97	316.0	2	43K	-1	4	54	1				
COLLMBERG	12.15	353.1	2	48A	2	5	9	12			5	31 SS
RELIZANE	12.22	257.9	2	50	3	5	5	6				
LWOW	12.25	27.6	2	49	2	5	4	5			3	51
ALICANTE	12.34	270.8	2	44	-4	5	6	5				
HALLE	12.46	350.3	2	49	-1	5	8	4			3	5 PP
BENSBERG	13.02	336.6	2	58A	1	5	22	6				
POTSDAM	13.21	354.0	2	59	0	5	27	6				
DOURBES	13.23	328.5	2	58	-1	5	24	3				
PARIS	13.25	320.3	2	59	0						3	54
WARSAW	13.57	15.2				4	18	-70			3	6 PP
MUNSTER	13.79	339.7	3	7	1							
UCCLE	13.88	329.8	3	6	-1	5	23	-12				
ALMERIA	14.20	265.8	3	9	-2	5	45	3			3	16 PP
DE BILT	14.64	334.6	4	2	46	5	54	2				
FOLINIERE	14.78	315.2	3	16	-2							
WITTEVEEN	14.81	339.1	4	10	52							
TOLEDO	14.94	278.5	3	18K	-2	6	2	4	3	24	3	36 PP

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GRANADA	15.00	268.0	2 53K	-28	6	7	7			8	34
SIMFEROPOL	15.08	61.8	3 22A	1						6	6
JERSEY	15.90	314.3	3 28	-3							
HELWAN	16.17	120.5	3 34A	0	6	22	-3				
KEW	16.37	323.3	3 36	0	6	33	4			4	19
COPENHAGEN	16.54	354.3	3 37K	-1	6	36	4				
KSARA	17.40	101.8	3 47	0	6	55	6				
JERUSALEM	17.83	108.6	3 54	3	7	7	10				
SERRA PILAR	18.34	283.5	3 57A	1	7	12	6			4	23 PP
TAMANRASSET	18.42	209.7	3 58A	1	7	13	5	4	44	5	12
GOTEBORG	18.58	354.4	3 53K	-6	7	10	-1				
LISBON	19.00	276.1	4 2K	-1	7	22	3			7	44 *SS
DURHAM	19.23	329.3	4 5K	0							
RATHFARNHAM	20.37	320.7	4 16A	0						9	34
UPPSALA	20.67	3.3	4 18K	-1	7	50	1				
HELSINKI	21.80	13.1	4 31	1	8	11	3				
NURMIJARVI	22.07	12.4	4 32	-1	8	14	1			8	43
MOSCOW	22.19	34.7	4 35	1	8	17	2	5	14	9	38 SS
TIFLIS	22.53	74.2	4 38	1				5	17		
PULKOVO	22.62	19.9	4 38	0	8	22	0			8	31
GORIS	23.94	79.5	4 52	1	8	37	-7			5	37 PP
SKALSTUGAN	24.42	356.7	4 53K	-2	9	4	12				
KIRUNA	28.77	4.0	5 32K	-2						11	39
SODANKYLA	28.87	9.1	5 33	-2	10	1	-2			11	27 SCP
APATITY	30.08	13.8	5 45K	-1	10	23	1			12	14 SS
ASHKABAD	33.44	78.3	6 15	0	11	16	1			13	38 SS
SVERDLOVSK	34.26	44.0	6 22	0	11	26	-1				
SCORESBY SD.	36.74	340.1	6 43A	0							
MBOUR	37.65	237.9			12	19	0				
TASHKENT	40.68	69.2			13	6	2				
STALINABAD	41.10	73.4	7 21	3	13	10	0				
QUETTA	42.92	85.8	7 26	-7	13	33	-3			15	18 *SS
LEOPOLDVILLE	43.41	180.1	7 37	0							
NORD	43.92	353.6	7 40K	-1							
FRUNSE	44.09	65.4	7 44	2	13	54	1			8	44
KHEYS	44.34	9.2	7 44	0						7	52
THULE	50.74	342.3	8 32	-1							
ELISABTHVLE	51.90	164.8	8 42	0							
HALI FAX	56.77	303.1	9 17K	0							
RESOLUTE	57.57	342.8	9 21K	-2	16	58	1				
TIKSI	60.05	19.6	9 37	-3						11	46 PP
CHATRA	60.08	78.5	9 39	-1	17	28	-1				
BREBEUF	62.72	307.7	9 57	0							
SHILLONG	64.32	77.1	10 7	-1							
YAKUTSK	66.15	28.0	10 18	-1	18	43	-1				
SAN JUAN	72.09	279.3	10 56	0							
COLUMBIA	73.75	300.7	11 3	-2							
COLLEGE	75.36	352.6	11 14	0							
ST. LOUIS 1	76.75	309.2	11 22A	0							
LAWRENCE	79.49	312.1	11 35	-2							
FAYETTEVILLE	80.80	309.3	11 44K	0				12	13		
HUNGRY HORSE	81.87	328.6	11 50	1							
BUTTE	83.11	326.3	11 56	0							
LARAMIE	83.43	319.4	13 13	76							
HORSESHOE B.	84.46	334.2	12 8	6							
VICTORIA	85.24	333.9	12 7	1							
SALT LAKE C.	86.91	322.7	12 15	1							
CORVALLIS	88.58	331.8	12 24A	2							
EUREKA	89.84	324.4	12 29	1							
RENO	91.47	326.9	12 37A	1							
MINERAL	91.53	328.5	12 37A	1							
SHASTA	91.55	329.2	12 37	1							
BOULDER CITY	92.13	321.6	12 42	3							
TUCSON TELE.	92.92	316.7	12 44	2							
TUCSON	93.05	316.7	12 45	2							
FRESNO	93.78	325.4	12 48	2							
SOUTH POLE	129.07	180.0	18 34	-1							
CHARTERS TS.	133.92	80.1	18 46	2						21	48
CANBERRA	143.27	98.7	18 0A	-61							
CAPE HALLETT	144.60	167.1	19 4	1							

JANUARY 3 21.H 20.M 13.S EPICENTRE 45.07 148.19 DEPTH= 108.KM

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LHASA	47.01	271.2	8 24	2	15	7	3		
SITKA	47.05	46.5	8 24	2					
SHILLONG	48.87	266.3	8 35K	-1					
RABAU	49.17	174.7	8 22	-17					
CHITTAGONG	50.93	263.1	8 52	0	16	2	3	9 37	10 0 PCP
FRUNSE	51.29	295.3	8 55	0					
CHATRA	51.42	270.9	9 OK	4	16	5	-1		
HAWAII V.OB.	52.99	99.6	9 8	1					
RESOLUTE	53.50	17.2	9 8	-3					
PORT MORESBY	54.22	181.3	9 17	1	16	35	-9		
ALBERNI	56.12	52.0	9 30	0					
THULE	56.57	9.7	9 28	-5	16	9	-66	10 10	
VICTORIA	57.30	52.2	9 37	-2					
STALINABAD	57.31	293.7	9 37	-2	17	23	-2		
APATITY	57.49	335.6	9 38	-2					
WARSAK DAM	58.08	287.8	9 43	-1					
SODANKYLA	59.53	337.5	9 51	-3				10 19	10 11
CORVALLIS	59.56	56.0	9 55A	1					
KIRUNA	60.79	339.9	10 0	-3					
ARCATA	61.23	59.8	10 7	1					
SHASTA	62.37	59.1	10 13A	0					
HUNGRY HORSE	62.51	48.2	10 14	0					
MINERAL	63.06	59.0	10 18A	0					
LEMBANG	63.18	226.4	10 18	-1					
QUETTA	63.49	287.0	10 19	-2	18	43	0		
SAN FRANCISCO	64.12	61.7	10 25A	0					
BERKELEY	64.17	61.5	10 25A	0				11 1	
RENO	64.65	58.8	10 29A	1					
BUTTE	64.74	49.5	10 28	-1				11 2	
LICK	64.89	61.7	10 25A	-5					
NURMIJARVI	65.20	333.0	10 30	-2				10 55	10 50
HELSINKI	65.36	332.6	10 33	0					
POONA	66.15	272.7	10 38K	0					
SKALSTUGAN	66.21	340.1	10 47	9					
FRESNO	66.39	61.1	10 39	0					
EUREKA	66.99	56.8	10 44	1				11 10	
UPPSALA	67.89	335.5	10 47	-2					
SALT LAKE C.	68.54	53.5	10 52	-1					
PASADENA	69.09	62.4	10 55	-1	20	29	38		21 25 SCS
TIFLIS	69.82	309.1	11 2	1					
BOULDER CITY	69.95	59.0	11 3	2				11 26	
RAPID CITY	70.97	46.3	11 7	0				11 29	
LARAMIE	71.66	49.6	11 12	0					
BRISBANE	72.23	175.7	11 18	3					
TUCSON	74.91	59.5	11 32	1					
TUCSON TELE.	74.92	59.4	11 31	0					
COLLMBERG	76.49	332.9	11 39	0					12 5
PRUHONICE	77.11	331.4	11 44A	1				13 16	
JENA	77.27	333.5	11 44	0					12 56
LAWRENCE	78.76	45.3	11 50	-2					
STUTTGART	79.88	333.8	11 59	1				12 25	
CANBERRA	80.01	179.3	12 1A	2					
ADELAIDE	80.12	187.9	12 1	2					
LJUBLJANA	80.47	329.3	12 0	-1					
ST. LOUIS 1	81.48	42.4	12 7K	1				12 33	
FAYETTEVILLE	81.51	46.5	12 6	-1				12 33	
PARIS	81.81	337.9	12 9	1					
OTTAWA	81.90	29.6	12 8	-1					
MUNDARING	82.00	207.0	12 10	1					
BREBEUF	82.53	28.2	12 12K	0					
MELBOURNE	82.57	182.6	12 15A	3					
FOLNIERE	82.61	339.7	12 13	1					
ISOLA	85.25	326.9	12 23	-2					
HELWAN	85.90	309.0	12 33	4					22 53
KARAPIRO	86.22	158.6	12 33	3					
TACUBAYA	91.39	60.6						13 32	15 53
TAMANRASSET	104.38	324.7						29 38	
BROKEN HILL	121.02	281.0	18 44K	4					
BULAWAYO	124.76	275.9	18 49	2					
HUANCAYO	130.47	62.3	19 2A	4					
BYRD STATION	134.40	165.9							22 25 PKP2
LA PAZ	138.33	58.7	19 15	3					

JANUARY 4

6.H 16.M 32.S EPICENTRE 11.55 42.71 DEPTH= 0.KM

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G= 0.1461 H= 0.1349 K=-0.9800 HT= 6.3

SE= 2.38

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ADDIS ABABA	4.61	237.5	1	12	0							
BANGUI	24.88	255.3									13	33
QUETTA	29.16	46.9	6	5	0	11	5	8			7	2 PP
BROKEN HILL	29.43	209.0	6	48	41						15	25
BOMBAY	29.93	72.2	6	19	7							
TIFLIS	30.11	3.1	6	14	1							
TANANARIVE	30.65	171.0	6	20	2							
POONA	30.83	73.2	6	20K	0							
SIMFEROPOL	34.09	349.1	6	50	2							
KODAIKANAL	34.15	88.8	7	37	48							
BULAWAYO	34.41	203.9	6	50	-1							
WARSAK DAM	34.52	45.0	6	52	0							
LAHORE	35.31	50.8	6	54	-4							
MESSINA	35.95	322.2	6	30	-34	12	50	7			10	24
TAMANRASSET	37.14	292.5	7	15K	1						9	53 PCP
BELGRADE	38.26	334.2									11	59
LCO, MARQUES	38.57	194.7				13	4	-19				
LWOW	41.16	341.6	7	30	-17							
BRATISLAVA	42.32	334.6	7	59	2						10	26 PP
ALGIERS UNI.	43.58	312.0									13	33
MOSCOW	44.26	355.9	8	12	-1							
CHATRA	44.41	63.4	8	13K	-1						18	18
PRUMONICE	44.79	334.4	8	17	0						8	54
RELI ZANE	45.04	309.5	9	21	62						16	6
COLLMBERG	46.43	334.6	8	28	-2							
SVERDLOVSK	47.26	13.3	8	36	0							
CHITTAGONG	48.00	70.3	8	42	0	15	46	6			10	35 PP
LHASA	48.31	60.6	8	45	0							
SHILLONG	48.38	66.1	8	43K	-2						15	44
TOLEDO	49.94	312.9	8	57	0						19	23
NURMI JARVI	50.66	348.6	9	1	-2						11	0 PP
UPPSALA	51.70	344.2	9	11	0	16	41	9				
SKALSTUGAN	56.23	344.2	9	44K	0							
SODANKYLA	56.78	352.6	9	47	-1							
MBOUR	58.09	279.8	9	55	-2						18	16 SS
KIRUNA	58.12	350.2	10	5	8							
KUNMING	58.15	67.6	9	56	-2	18	1	3				
CHENG TU	59.57	61.2									20	4
LANCHOW	59.99	55.0	10	11	1	18	28	6				
CANTON	67.86	69.7				20	2	2				
WUHAN	68.66	61.7				20	16	7				
HONG KONG	68.68	70.5	11	54	47						17	53
PEKING	70.02	51.6	11	15	0	20	32	6				
NANKING	72.22	59.9				20	54	3				
ZO-SE	74.32	60.8				21	23	8				
CHANGCHUN	76.79	47.5	11	55	0	21	49	7				
TIKSI	77.91	18.9	11	58	-3							
YAKUTSK	78.49	28.7									14	19
VLADIVOSTOK	81.63	47.7				22	39	6				
MATUSIRO	87.58	53.4									20	8 PPP
COLLEGE	103.39	4.6	15	33	777							
SCOTT BASE	108.09	169.4	14	52	777							
CAPE HALLETT	111.83	164.9	14	19	777							
LA PAZ	112.99	256.9									22	38 PKS
HUNGRY HORSE	116.90	342.8	16	40	777							
EUREKA	125.49	339.8	16	36	777							

JANUARY 4 12.H 51.M 59.S EPICENTRE 45.06 26.77 DEPTH= 41.KM

A= 0.63282 B= 0.31930 C= 0.70540 D= 0.4505 E=-0.8928  
G= 0.6298 H= 0.3178 K=-0.7088 HT= -3.6

DEPTH OF FOCUS= 0.001R

SE= 3.00

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
FOCSANI	0.71	24.8	0	16	1	0	30	5				
BUCHAREST	0.80	217.3	0	13	-3	0	27	0				

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1960										PAGE 13
CAMPULUNG	1.25	280.5	0 23	1	0 42	4				
BACAU	1.52	3.3	0 24	-1	0 43	-1				
IASI	2.22	14.2	0 35	0	1 3	1				
CERNAUTI	3.28	350.1	0 52	2	1 29	0			1 4	
RAKHOV	3.39	328.9	0 53	1	1 35	4			1 19	
BELGRADE	4.50	269.2	1 7A	0	2 4	5			1 24	PG
UZHGOROD	4.71	321.0	1 11	0	2 3	-2			1 18	
SEBASTOPOL	4.83	92.8	1 12	0						
LWOW	5.12	339.7	1 18	2	2 17	2			1 42	
SIMFEROPOL	5.21	88.6	1 16	-2	2 13	-4			1 46	
KECSKEMET	5.27	293.2	1 21	3	2 21	2				
YALTA	5.30	93.4	1 17	-2	2 15	-4			2 28	
ALUSHTA	5.45	91.0	1 19	-2	2 17	-6			2 38	
BUDAPEST	5.90	297.0	1 37	10	2 49	15				
SKALNATE PL.	6.07	315.2							1 28	PG
THEODOSIA	6.10	87.3	1 30	0	2 38	-1			2 34	
HURBANOVO	6.56	298.5	1 47	11	3 12	21			4 13	SG
KRAKOW	6.81	319.6	1 41	1	3 20	23			2 11	PG
BRATISLAVA	7.35	298.5	1 45K	-2	3 18	7			2 10	PG
CHORZOW	7.42	317.7	1 48	0	3 48	36			1 57	PP
ATHENS	7.44	199.0	1 44A	-5					1 59	PP
ZAGREB	7.63	279.6	1 58	7					3 58	
RACIBORZ	7.67	314.0	1 52	0	3 50	32			1 57	PP
WARSAW	8.13	334.1			4 32	62			2 10	PP
TARANTO	8.37	240.1			3 20	-16				
LJUBLJANA	8.66	280.9	2 1	-5	4 22	39			2 52	
TRIESTE	9.19	278.3	2 12	-1	4 17	21			5 15	SGSG
PRUHONICE	9.62	305.1	2 19A	0	4 13	6				
PRAGUE	9.73	305.4	2 16A	-4	4 11	1				
I SOLA	10.38	250.0	3 17	48					3 27	PP
MESSINA	10.83	234.7	2 35	0	4 40	4			2 41	PP
ROME	10.86	258.1							5 16	S*
CHEB	10.94	302.5			4 25	-14			3 11	
COLLMBERG	11.11	309.1	2 39A	0	4 41	-2				
PLAUEN	11.23	304.2	2 38	-3					5 50	
PRATO	11.27	269.5	3 9	28	5 49	62				
POTSDAM	11.63	313.9	2 51	5					7 21	
JENA	11.75	305.4	2 47	-1	5 12	13			3 7	PP
SONNEBERG	11.76	302.5							3 2	
HALLE	11.78	308.5	2 47	-1					5 49	
CHUR	12.14	284.6							2 55	PP
RAVENSBURG	12.15	289.1	2 53	0					6 37	
PAVIA	12.44	276.8							6 48	
STUTTGART	12.52	293.5	2 57	-1						
TUBINGEN	12.62	292.3	2 56	-3						
EBINGEN	12.63	290.7	2 57	-3						
KSARA	13.23	144.9	3 8	0	5 38	4			4 42	
BASLE	13.50	287.4							3 19	PPP
TIFLIS	13.53	97.9	3 12	1	5 39	-2				
MONACO	13.90	271.4	3 10	-6						
COPENHAGEN	13.99	324.6	3 4	-14						
BENSBERG	14.37	301.3	3 23	0						
MUNSTER	14.43	305.5	3 24	1						
BESANCON	14.58	286.1	3 29	4						
JERUSALEM	14.80	150.7	3 30	2	6 20	8				
PULKOVO	14.89	7.0	3 27	-2	5 56	-18				
HELSINKI	15.18	356.6	3 27	-6						
WITTEVEEN	15.29	307.7	3 41	7						
GORIS	15.49	104.1	3 38	1						
NURMIJARVI	15.53	356.1	3 32	-6	6 14	-15			3 45	PP
HELWAN	15.58	165.1	3 38	0					7 41	
GOTEBORG	15.62	329.4	3 35	-4	6 21	-10			8 38	PCP
DOURBES	15.77	296.6	3 45	4						
UPPSALA	15.81	342.9	3 37K	-4	6 25	-10				
CLERMONT-FD.	16.62	280.9	3 54	3						
PARIS	16.98	291.4	3 57	1						
SETIF	18.44	248.8	4 12	-2					4 44	PPP
FOLINIERE	18.94	291.1	4 18	-2						
KEW	19.08	299.4	4 21	-1						
ALGIERS UNI.	19.70	253.4	4 26	-2						
SKALSTUGAN	20.30	341.2	4 35K	0	8 15	0				
DURHAM	20.55	308.4	4 38A	1						
RELIZANE	21.95	254.1	4 50	-2	8 46	0			5 13	PP
SODANKYLA	22.37	359.9	4 56	0	8 52	-2				
KIZYL-ARVAT	22.57	94.6	5 5	7					9 27	
APATITY	22.82	6.6	5 1	1	8 58	-4			5 28	
RATHFARNHAM	22.96	302.9	5 1A	-1						
KIRUNA	23.07	353.9	5 3	0	9 15	8				

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TOLEDO	23.24	268.0	5	3K	-1						
ALMERIA	23.46	259.8	5	6A	0					5	28 PP
GRANADA	24.09	261.6	5	14K	1						
SVERDLOVSK	24.10	48.6	5	13	0					9	56
ASHKABAD	24.58	95.7	5	20	3					14	46
TAMANRASSET	28.21	225.1	5	50	-1						
TCHIMKENT	30.83	79.7								7	13 PPP
STALINABAD	31.69	86.8	6	35	13						
KULYAB	32.68	87.3	6	32	2					12	59 PCS
NAMANGAN	32.76	81.0								12	58 PCS
FERGANA	33.07	81.9	6	31	-3						
ANDI JAN	33.33	81.0								14	13 SSS
KHOROG	34.12	86.8	6	52	10						
FRUNSE	34.13	76.4				12	1	-4		13	6 PCS
QUETTA	34.74	101.4	6	55	7						
WARSAK DAM	35.84	92.1	6	58	0						
KHEYS	37.32	8.1	7	11	1					8	37 PP
ADDIS ABABA	37.36	160.2	7	12	2						
LWIRO	47.13	177.2	8	29	-1						
THULE	47.89	341.5	8	35	-1						
TIKSI	51.54	23.3	9	3	-1						
RESOLUTE	54.47	343.9	9	23K	-3						
SHILLONG	55.08	87.5	9	28	-2						
YAKUTSK	56.83	33.3								10	3
COLLEGE	70.34	357.6	11	12	1						
HUNGRY HORSE	80.85	334.7	12	11	0						
FAYETTEVILLE	83.21	315.6	12	23	0						
LARAMIE	84.02	326.0	12	28	1						
EUREKA	89.42	332.1	12	55	1						
CHARTERS TS.	124.67	84.1	18	58	3						

JANUARY 4 15.H 5.M 39.S EPICENTRE -5.66 -77.41 DEPTH= 0.KM

A= 0.21688 B=-0.97127 C=-0.09794 D=-0.9760 E=-0.2179  
G=-0.0213 H= 0.0956 K=-0.9952 HT= 7.0

SE= 1.48

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
HUANCAYO	6.68	162.2	1	46	4	3	3	4				
CHINCHINA	10.71	9.7	2	40K	2	4	48	9				
BOGOTA	10.74	18.2	2	39	1	4	48	8			5	7 SS
LA PAZ	14.10	140.6	3	19	-4	6	22	20			3	36 PP
TRINIDAD	22.73	44.6	5	5	0						11	32
ST. VINCENT	24.64	40.5	5	24	1							
FORT FRANCE	25.89	38.4	5	52	17							
SAN JUAN	26.35	24.8	5	39	0							
SANTA LUCIA	28.35	168.0	5	21	-37							
FAYETTEVILLE	44.41	340.5	8	13	-1							
ST. LOUIS I	45.65	345.9	8	22	-2							
PORT STANLEY	48.67	163.9	8	48	0							
TUCSON TELE.	49.31	322.2	8	54	1							
TUCSON	49.32	322.0	8	54	1							
OTTAWA	50.85	1.5	9	4K	0							
SHAWINIGAN	52.14	4.1	9	28	14							
LARAMIE	53.38	333.7	9	24	1							
BOULDER CITY	54.28	322.6	9	32	2							
RAPID CITY	54.70	337.4	9	33	0							
PASADENA	55.22	318.8	9	35	-2							
SALT LAKE C.	55.97	328.8	9	42	0							
EUREKA	57.30	325.0	9	53	1							
FRESNO	57.87	320.3	9	55	-1							
LICK	59.39	319.8	10	7K	1							
RENO	59.59	322.8	10	8A	0							
BERKELEY	60.10	319.9	10	12	1							
BUTTE	60.22	332.5	10	11	-1							
MINERAL	61.17	322.6	10	18K	-1							
SHASTA	61.86	322.5	10	22	-1							
HUNGRY HORSE	62.62	333.4	10	28	0							
MBOUR	63.16	70.9	10	32	0	18	59	-4				
CORVALLIS	64.75	325.4	10	42A	0							
BYRD STATION	76.98	186.9	11	58	2							
GRANADA	80.64	51.0				22	28	5			30	28
RESOLUTE	80.91	355.4	12	16A	-1						22	27
THULE	82.12	2.2	12	24	0							

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RELIZANE	83.58	53.2	12 30	-1	
SOUTH POLE	84.38	180.0	12 36	1	14 6
TAMANRASSET	85.68	66.7	12 43	1	
COLLEGE	86.91	336.2	12 48	0	
CAPE HALLETT	91.29	196.4	13 6	-3	
STUTTART	92.03	41.4	13 11	-1	
RABAUL	129.52	259.9	19 11	0	
CHARTERS TS.	130.02	237.9	19 14	2	
MATUSIRO	135.20	318.3	19 22	0	19 34 PKP2
MUNDARING	140.39	198.3	19 25	-6	
POONA	149.19	63.0	19 54	8	
SHILLONG	157.70	26.3	19 59	1	

JANUARY 7 8.H 15.M 24.S EPICENTRE 6.53 94.70 DEPTH= 0.KM

A=-0.08137 B= 0.99027 C= 0.11293 D= 0.9966 E= 0.0819  
G=-0.0092 H= 0.1125 K=-0.9936 HT= 6.9

SE= 2.80

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MEDAN	4.93	126.2	1	18	1	2	24	8				
PORT BLAIR	5.47	339.2	1	28	3	2	35	6				
CHITTAGONG	15.98	350.3	3	46	-2	6	45	-1			3	58 PP
CALCUTTA	17.04	339.7				7	38	28			4	38
DJAKARTA	17.49	136.0									5	32
LEMBANG	18.50	135.6	4	16	-3						9	36
SHILLONG	19.13	352.2	4	24	-3	8	11	13			5	7 PP
BOKARO	19.21	334.5	4	27	-1	8	16	16			4	54 PP
HYDERABAD	19.22	305.8	4	30A	2	8	16	16			4	46 PP
KUNMING	20.03	21.7	4	38K	1	8	28	10				
CHATRA	21.42	341.3	4	49A	-3	8	48	3				
LHASA	23.25	351.9	5	10	0							
POONA	23.55	302.3	5	15A	2	9	25	1				
CANTON	24.36	45.5	5	26	5	9	47	9				
HONG KONG	24.47	48.2	5	25	3	9	49	9				
BOMBAY	24.59	302.0	5	27	4	9	49	7			5	54 PP
CHENG TU	25.55	18.9	5	30	-2							
AGRA	25.91	324.2	5	41	6	10	10	6				
DEHRA DUN	28.37	328.6	6	8	10	11	21	37			13	12
WUHAN	30.30	35.5									11	23
LANCHOW	30.55	14.7	6	17	0	11	17	-2				
NANKING	33.91	38.4	6	45	-2	12	11	0				
ZO-SE	34.82	42.1	6	54	0	12	25	0				
QUETTA	35.12	315.5	6	57	0	12	26	-4			8	12 PP
PEKING	38.53	26.8	7	27K	1	13	25	3				
MUNDARING	43.44	153.0	8	6	0							
CHANGCHUN	45.83	30.9	8	28	3	15	15	5				
IRKUTSK	46.28	8.2									10	36
ABUYAMA	47.00	47.4	8	41A	6							
VLADIVOSTOK	48.97	35.9	8	26	-24							
MATUSIRO	49.66	46.7	8	52	-3	16	3	-1			20	15 SS
TANANARIVE	52.89	240.5	9	21	1						9	43
PORT MORESBY	54.61	106.3	9	36	4						10	25 PCS
TIFLIS	56.36	316.5	9	43	-2							
SVERDLOVSK	56.85	338.4	9	47	-2	17	40	-1				
CHARTERS TS.	57.18	118.8	9	54	3							
ADELAIDE	58.51	138.0	9	57	-3				10	4		
YAKUTSK	61.10	18.0	10	15	-3							
HELWAN	63.72	300.0	10	36	0							
MELBOURNE	64.29	137.5	10	39	0							
BRISBANE	65.45	123.9	10	48	1							
CANBERRA	65.85	133.3	10	48K	-1							
LWIRO	66.36	264.7	10	54	1							
MOSCOW	66.50	328.8	10	51	-3							
TIKSI	68.42	11.0	11	1	-5							
BROKEN HILL	68.90	251.9	11	10A	1							
BULAWAYO	70.14	246.0	11	16	0							
ATHENS	71.03	307.8	11	19	-3							
PULKOVO	71.65	331.3	11	23	-2	20	38	-7				
APATITY	73.28	339.4	11	33	-2							
HELSINKI	74.34	330.9	11	40	-1							
NURMI JARVI	74.57	331.2	11	42	0							
SODANKYLA	75.66	338.3	11	46	-3							
KHEYS	75.98	354.2									12	25
RACIBORZ	76.36	319.9									11	58 PCP

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LJUBLJANA	78.52	315.6	12 2A	-3	
COLLMBERG	79.75	320.9	12 12	1	12 24 PCP
WINDHOEK	81.13	246.0	12 20	1	
STUTTGART	82.11	318.3	12 25	1	
SETIF	85.63	305.8	12 40	-2	
TAMANRASSET	86.75	292.4	12 48	1	16 11 PP
KARAPIRO	86.79	128.6	12 48	1	
CHATEAU	87.03	129.8	12 47	-1	
FOLINIERE	88.55	318.8	12 54	-2	
COLLEGE	95.38	22.4			16 48 PP
RESOLUTE	98.72	2.6	13 40	-2	
HUNGRY HORSE	119.81	21.7	18 59	7	
MINERAL	122.63	32.5	18 57K	-1	
LICK	124.73	35.1	18 55A	-7	
EUREKA	126.15	29.3	19 4	-1	
RAPID CITY	127.10	16.1	19 6	0	
PALISADES	131.55	348.5			39 12 SS
TUCSON TELE.	134.39	30.6	19 21	1	
TUCSON	134.41	30.7	19 33	13	
SAN JUAN	148.84	322.9	19 59	14	
LA PAZ	160.49	238.0	20 6	5	24 36 PP

JANUARY 7 13.H 28.M 13.S EPICENTRE -55.62 -27.25 DEPTH= 0.KM

A= 0.50431 B=-0.25976 C=-0.82353 D=-0.4579 E=-0.8890  
G=-0.7321 H= 0.3771 K=-0.5673 HT= -7.4

SE= 3.60

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PORT STANLEY	18.48	269.5	4	15	-4	8	7	24				
ARGENTINE I.	20.33	226.8	4	40	0							
SOUTH POLE	34.56	190.0	6	50	-2	12	59	38			8	9 PP
BYRD STATION	36.20	197.2	7	4	-2	12	51	5			8	2 PP
SANTA LUCIA	37.21	288.2	7	12	-2						7	41
HERMANUS	38.16	76.0	7	23	1	13	17	1			7	54
KIMBERLEY	45.53	75.9	8	56K	33							
WINDHOEK	46.43	63.1	8	26	-4							
SCOTT BASE	46.51	194.1	8	28	-2						9	39 PCP
LA PAZ	49.91	304.9	8	58K	1	16	9	2			11	0 PP
CAPE HALLETT	51.78	196.7	9	13	2	16	35	2			19	19 SCS
LCO. MARQUES	52.04	90.9	9	14K	1	16	41	5			21	53 SSS
WILKES	54.27	160.5	9	40	10	17	9	2			19	8 SCS
BULAWAYO	54.43	72.8	9	28	-3							
HUANCAYO	57.21	300.0	9	52A	1	17	56	10				
BROKEN HILL	59.09	68.9	10	2A	-2							
TANANARIVE	66.03	88.6	10	53	3						13	9 PP
LWIRO	69.59	62.2	11	12A	-1	20	26	6				
MBOUR	70.27	10.6	11	15	-2	20	26	-2				
BOGOTA	71.27	309.9	11	23	0	20	41	1			14	3 PP
FUQUENE	71.89	310.6	11	28	2							
CHINCHINA	72.27	308.6	11	26	-3							
CARACAS	73.72	319.1	11	15	-22	20	47	-21				
ROXBURGH	78.31	191.8				22	3	5				
SAN JUAN	80.72	322.9	12	16	0							
TAMANRASSET	82.92	30.2	12	27	-1	22	48	2			15	40 PP
CHATEAU	83.57	197.6	12	37	6							
KARAPIRO	84.81	197.9	12	32	-5							
MELBOURNE	86.68	173.8	12	49	3	23	20	-3				
MUNDARING	87.33	149.6	12	48	-2							
ADELAIDE	88.98	168.5	12	57	-1	23	44	-1			16	29
CANBERRA	89.37	176.9	13	3A	4	23	47	-1			16	51 PP
RIVERVIEW	90.90	178.7				24	3	1			25	6 PS
BERMUDA	93.31	329.0	13	27	9	23	53	-30			17	7 PP
RELIZANE	94.06	22.4	13	20	-1	24	23	-7			17	5 PP
GRANADA	94.62	18.8	13	30K	6	24	43	8			17	35 PP
ALGIERS UNI.	95.60	24.0	13	31	3	24	55	51			17	35 PP
SETIF	95.62	26.0	13	39	11							
TACUBAYA	96.08	295.5	13	52	22	23	56	-11			17	19 PP
ALICANTE	96.35	20.9	13	35	3	24	52	44			31	29 SS
TOLEDO	97.16	17.8	13	35	0	25	8	56			26	21 PS
BRISBANE	97.33	180.0				24	15	2			14	35
HELWAN	98.70	48.6	13	49	7	25	23	63				
MESSINA	100.32	33.0									19	58
ROME	102.84	29.3	14	12	11	24	42	2			18	12 PP



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KSARA	104.05	50.0	13	55	-11	25	40	54		18 11 PP
PALISADES	104.10	325.4	14	13	7	24	43	-3		18 37 PP
CLERMONT-FD.	104.22	21.4								21 20
CHARTERS TS.	104.39	173.7	18	20	-2					
LEMBANG	107.47	132.5	18	48	777					
ST. LOUIS I	108.08	312.8	15	3	777					18 51 PP
FLORISSANT	108.27	312.8				25	0	-4		
STUTT GART	108.42	24.5	18	55	777					29 22 PPS
KEW	109.04	17.4				26	52	104		28 42 PS
UCCLE	109.26	20.6								26 59
LAWRENCE	110.50	309.5	19	7	33					
DE BILT	110.66	20.7								28 17 PS
PRUHONICE	110.85	27.4								19 12 PP
JENA	110.98	25.1	19	7	32					19 38
BOMBAY	111.04	87.2								19 24 PP
POONA	111.33	88.2	18	37	2					19 20 PP
COLLMBERG	111.67	25.9	18	48	12					19 52 PP
KRAKOW	112.40	30.8								27 5
TUCSON	112.55	294.2	19	0	22					29 33 PKKP
TUCSON TELE.	112.57	294.4	19	26	48					29 26 PKKP
SIMFEROPOL	112.76	42.5								29 23 PS
GORIS	113.43	54.0								19 1 PSP
TIFLIS	114.53	51.5								19 36 PP
PORT MORESBY	115.05	173.9								19 51 PP
QUETTA	116.61	75.0	18	47	1	25	40	2		19 57 PP
BOULDER CITY	117.53	294.0	18	48	0					
PASADENA	117.88	290.3	18	34	-14	25	41	-1		20 4 PP
ASHKABAD	118.03	63.2				25	43	0		
RAPID CITY	118.14	307.5	18	48	-1					21 6 PP
SALT LAKE C.	119.68	299.5	18	52	0					
RUTH	120.08	296.2								20 29 PP
RABAUL	120.39	179.3	18	28	-25					
UPPSALA	120.53	24.4				26	26	35		
FRESNO	120.74	291.0	18	57	3					
EUREKA	120.78	295.8	18	55	1					20 22
LICK	122.14	290.2	18	57A	1					20 34
RENO	122.80	293.2	18	50	-8					
BERKELEY	122.86	290.2	18	57	-1					
MOSCOW	122.88	37.6	19	9	11					20 39
DEHRA DUN	122.90	33.4	18	50	-8					26 1
BOZEMAN	122.97	303.8	18	59	1					
PULKOVO	123.81	30.9								20 57 PP
STALINABAD	123.92	70.0	19	1	1					20 49 PP
BUTTE	123.94	303.2	19	0	0					
MINERAL	124.33	292.7	19	0A	-1					20 45
CHITTAGONG	124.52	100.9	19	2	1					20 49 PP
SHASTA	125.00	292.4	19	2	0					
CHATRA	125.40	93.5	18	56	-7					
TASHKENT	126.18	68.0	19	2	-2					31 4 PS
HUNGRY HORSE	126.32	304.3	19	2	-3					20 54 PP
SHILLONG	127.07	98.5	19	3	-3					21 25
KIRUNA	128.09	20.9	19	7	-1					38 22
CORVALLIS	128.23	295.2	19	14	6					
SODANKYLA	129.05	23.7	19	7	-3					21 16 PP
LHASA	129.74	94.5	19	13	2					22 36
FRUNSE	130.07	70.2	19	11	-1					21 29 PP
APATITY	130.82	26.3	19	14	1					23 16 SKP
VICTORIA	130.97	298.9	19	14	1					
HORSESHOE B.	131.47	299.8	19	18	4					
SVERDLOVSK	132.56	48.2	19	16	-1					21 39 PP
KUNMING	132.70	109.1	19	18	1					22 46
THULE	134.36	347.5	19	18	-2					
HONG KONG	136.17	123.5	16	50	777					23 4 PP
RESOLUTE	137.44	338.7	19	15	-10					
CHENG TU	137.75	105.5	19	21	-5					
LANCHOW	141.68	99.9	19	30	-3					
KHEYS	143.59	16.0	19	33	-3					22 59 PKS
NANKING	146.56	120.6	19	43	2					29 59 SKKS
ZO-SE	146.92	124.6	19	43	1					
PAOTOM	148.33	100.2	19	56	12					
COLLEGE	150.21	312.3	19	45	-2	27	1	7		24 9 PP
PEKING	151.33	107.5	19	50	1					
MATUSIRO	158.50	146.5	20	18	19					34 15 SKSP
CHANGCHUN	158.86	112.4	19	58	-1					
TIKSI	161.00	23.2	19	55	-6					24 25 PP
YAKUTSK	166.51	52.3	20	7	0					





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TRIESTE	78.93	315.1								20 48
COLLMBERG	79.63	320.8	12	8	-3					12 28 PCP
POTSDAM	79.63	321.9	12	17	6					
PLAUEN	80.14	320.0	12	17	4					
HALLE	80.30	321.0	12	21	7					
GOTEBORG	80.50	327.3	12	15	0					
JENA	80.52	320.4	12	19	4					
SKALSTUGAN	80.68	333.3	12	20	4					
SONNEBERG	80.75	319.9	12	23	6					
CHUR	81.87	316.3	12	27A	5					
STUTTART	82.00	318.2	12	26	3					
BASLE	83.18	317.0	12	38	9					
SETIF	85.53	305.8	12	41	0					
NORD	86.51	352.1	12	43	-3					
TAMANRASSET	86.69	292.4	12	47K	0					16 7 PP
ALGIERS UNI.	87.36	306.5	12	40	-10	23	18	-12		
KEW	87.95	321.4	13	1	8					
FOLINIERE	88.43	318.8	12	53	-2					
COLLEGE	95.25	22.4	13	49	22					
RESOLUTE	98.58	2.6	13	40	-2					
HUNGRY HORSE	119.69	21.6	18	57	5					
RAPID CITY	126.97	16.1	19	11	5					
PALISADES	131.41	348.5								39 11 SS
SAN JUAN	148.73	323.0	19	56	11					
TRINIDAD	150.62	305.7	19	43	-5					
LA PAZ	160.55	238.4	20	9	8					20 51

JANUARY 8 11.H 29.M 17.S EPICENTRE -55.56 -27.32 DEPTH= 0.KM

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G=-0.7312 H= 0.3777 K=-0.5681 HT= -7.4

SE= 2.84

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ARGENTINE I.	20.35	226.7	4	41	0							
SOUTH POLE	34.62	180.0	6	53	0	13	9	46			7	45 PP
BYRD STATION	36.24	197.1	7	9	2						8	21 PP
SANTA LUCIA	37.16	288.2	7	13	-2						8	45 PP
HERMANUS	38.18	76.1									13	25 PCS
KIMBERLEY	45.55	76.1	8	22	-2							
LA PAZ	49.85	304.9	8	58	1	16	9	2				
CAPE HALLETT	51.83	186.7	9	13	1							
WILKES	54.34	160.5				17	5	-3			20	49
BULAWAYO	54.50	72.9	9	31K	-1						9	55
HUANCAYO	57.15	300.1	9	53	2						11	57 PP
BROKEN HILL	59.10	69.0	10	5	0							
TANANARIVE	66.07	88.7	10	56	5						11	32
LWIRO	69.60	62.3	11	16	3	20	51	30				
MBOUR	70.22	10.7	11	14	-3	20	29	1				
BOGOTA	71.21	309.9	11	25	2	20	44	4			13	58 PP
FUQUENE	71.82	310.6	11	27	0						14	7 PP
CHINCHINA	72.20	308.6	11	26	-3							
CARACAS	73.66	319.2	11	13	-24						25	39 SS
SAN JUAN	80.65	322.9	12	14	-2							
TAMANRASSET	82.89	30.3	12	30A	2	22	43	-4			15	39 PP
KARAPIRO	84.85	198.0	13	40	62							
MUNDARING	87.40	149.6	12	51	0							
ADELAIDE	89.04	168.6	12	59	1							
CANBERRA	89.43	177.0	12	51	-9							
RELIZANE	94.02	22.4	13	41	20							
GRANADA	94.58	18.8									14	38
ALGIERS UNI.	95.56	24.1	13	32	3	24	52	48				
TOLEDO	97.12	17.8	13	36	0							
HELWAN	98.69	48.6				25	29	68				
MESSINA	100.30	33.0				25	6	37				
PALISADES	104.03	325.5									27	31 PS
TUCSON	112.50	294.3									19	25
TUCSON TELE.	112.51	294.5	18	41	3						19	30
QUETTA	116.63	75.0	18	47	1						29	54 SKSP
PASADENA	117.83	290.3	18	50	1						20	10 PP
RAPID CITY	118.08	307.6	18	49	0							
EUREKA	120.72	295.8	18	55	1						20	25
LICK	122.08	290.3	18	59K	2							
RENO	122.75	293.3	19	11	13							

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BERKELEY	122.81	290.3	19	OK	2	
BUTTE	123.88	303.2	19	1	0	
MINERAL	124.27	292.7	19	2A	1	
CHITTAGONG	124.56	100.9	18	58	-4	20 41 PP
SHASTA	124.94	292.5	18	37	-26	
HUNGRY HORSE	126.25	304.3	19	5	0	
SHILLONG	127.12	98.6	19	6	-1	
KIRUNA	128.05	20.9	19	8K	-1	
SODANKYLA	129.01	23.7	19	10	0	21 15 PP
LHASA	129.78	94.5	19	16	4	22 36
KUNMING	132.75	109.1	19	20	2	22 44
THULE	134.29	347.5	19	20	0	
RESOLUTE	137.37	338.7	19	17	-9	
LANCHOW	141.73	99.9	19	31	-3	
SIAN	143.22	106.9	19	41	5	
NANKING	146.62	120.6	19	45	3	
ZO-SE	146.98	124.7	19	45	2	
COLLEGE	150.14	312.3	19	45	-3	
PEKING	151.38	107.5	19	50	0	
CHANGCHUN	158.91	112.4	20	2	2	

JANUARY 8 14.H 45.M 53.S EPICENTRE -55.46 -27.54 DEPTH= 0.KM

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SE= 3.05

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ARGENTINE I.	20.32	226.5	4	42	1							
SOUTH POLE	34.72	180.0	6	54	0						7	39 PP
BYRD STATION	36.30	197.1	7	9	1							
SANTA LUCIA	37.01	288.3	7	11	-2				7	37		
HERMANUS	38.28	76.5									9	36 PCP
KIMBERLEY	45.65	76.4	8	21A	-4							
WINDHOEK	46.51	63.5	6	32	-119							
LA PAZ	49.69	305.1	8	48	-8	16	8	3			10	58 PP
PRETORIA	49.88	77.0	9	7	10							
CAPE HALLETT	51.92	186.8	9	13	0							
WILKES	54.48	160.6	9	31	-1	17	10	0			19	15 SCS
BULAWAYO	54.59	73.2	9	31K	-2							
KERGUELEN I.	55.08	127.8	9	36	0	17	24	6				
HUANCAYO	56.99	300.2	9	53	3	17	43	-1				
BROKEN HILL	59.19	69.3	10	4A	-2							
TANANARIVE	66.20	89.0	10	54A	2						11	17 PCP
LWIRO	69.67	62.5	11	15	1						20	25
MBOUR	70.14	10.9	11	18	1	20	28	0				
BOGOTA	71.04	310.1	11	23	1	20	39	1			14	14 PP
FUQUENE	71.66	310.8	11	28	2						14	9 PP
CARACAS	73.49	319.4	11	18	-19						25	39 SS
TAMANRASSET	82.87	30.5	12	30A	2	22	54	7			16	1
KARAPIRO	84.91	198.1	12	37	-1							
MUNDARING	87.55	149.8	12	51	0							
ADELAIDE	89.16	168.8	13	0	1							
CANBERRA	89.53	177.2	12	58	-3							
RIVERVIEW	91.06	178.9	13	10	2	24	5	1			25	48 PPS
BERMUDA	93.09	329.2				24	19	-3			23	47 SKS
GRANADA	94.52	19.0	12	51K	-33	24	24	-11				
ALGIERS UNI.	95.52	24.2	13	33	4	24	54	50			25	18
TOLEDO	97.06	18.0	13	39	3						31	5 SS
MESSINA	100.28	33.2				24	37	9				
ROME	102.78	29.5									28	20 PPS
PALISADES	103.88	325.7									33	13 SS
TRIESTE	106.60	28.9									18	35 PP
STUTTGART	108.34	24.7									28	36 PS
KEW	108.94	17.6									34	37 SS
BOMBAY	111.20	87.3									19	37 PP
TUCSON TELE.	112.35	294.7	18	41	3						19	33
PORT MORESBY	115.23	174.2									29	7 PS
QUETTA	116.73	75.1	18	49	2	25	46	7			29	54 SKSP
BOULDER CITY	117.32	294.2	19	48	60							
PASADENA	117.67	290.5	18	31	-18						20	7 PP
RAPID CITY	117.91	307.8	18	51	2						20	4
SALT LAKE C.	119.46	299.8	18	54	2							
FRESNO	120.52	291.3	18	42	-12							



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STUTTGART	18.63	315.8	4 20	-1	7 57	11				4 38 PP
JENA	18.74	324.0	4 22	0	8 0	11				4 48
SETIF	18.94	275.0	4 22	-2						4 36 PP
HALLE	18.96	325.8	4 24	-1	8 5	11				4 50 PPP
BASLE	19.01	310.7	4 29	4						11 58 SCP
POTSDAM	19.11	329.2	4 26	0	8 7	10				
NEUCHATEL	19.18	308.7	4 27	0						
MOSCOW	19.75	14.6	4 33	-1	8 16	5				
BESANCON	19.89	308.6	4 27	-8						4 39 PP
ALGIERS UNI.	20.72	277.5	4 45	1	8 30	-1				
BENSBERG	20.97	319.0	4 46	-1						
CLERMONT-FD.	21.26	302.7	4 46	-4	8 56	14				
MUNSTER	21.32	321.8	4 47	-3						
COPENHAGEN	21.89	334.4			9 3	9				
DOURBES	21.94	314.7	4 57	1	9 3	8				
UCCLE	22.41	316.1	5 4	3	9 13	10				
RELIZANE	22.89	275.7	5 8	2						5 43 PP
PULKOVO	22.92	1.8	5 6	0	9 15	2				
HELSINKI	23.44	355.0	5 14	3						
GOTEBORG	23.66	337.0	5 12	-1						
NURMI JARVI	23.80	354.7	5 16	1	9 40	12				5 39
UPPSALA	24.11	346.0	5 17	-1	9 39	6				
FOLINIERE	24.48	308.3	5 20	-1						
TAMANRASSET	24.63	241.7	5 22	-1	9 52	10				6 6 PP
ALMERIA	25.09	279.5	5 16	-11						6 17
KEW	25.35	314.4	5 29	-1	10 8	14				
TOLEDO	25.96	286.8	5 36	1	10 1	-4				
SKALSTUGAN	28.59	344.4	5 57	-2						
SVERDLOVSK	29.03	36.5	6 3	0						
RATHFARNHAM	29.42	315.2	6 6	-1	10 25	-36				
SODANKYLA	30.56	358.2	6 16	-1						
APATI TY	30.82	3.4	6 20	1	11 28	5				
KIRUNA	31.37	353.8	6 23	-1	11 30	-1				
LWIRO	38.93	180.2	7 32	3	13 24	-4				
KHEYS	45.21	6.5	8 11	-9						
NORD	47.66	351.8	8 37	-2						
BROKEN HILL	51.06	180.6	9 7	1						
THULE	56.17	343.6	9 41	-2						
BULAWAYO	56.72	180.4	9 48	1						12 16
RESOLUTE	62.78	345.6	10 27K	-2						
SHAWINIGAN	71.34	314.5	11 22	-1						
COLLEGE	78.55	358.6	12 3	-1						
ST. LOUIS 1	86.25	316.8	12 45	1						
RAPID CITY	88.48	327.7	12 55	0						
HUNGRY HORSE	88.96	336.3	12 56	-1						
BOZEMAN	90.27	333.2	13 5	1						
EUREKA	97.44	333.4	13 34	-2						
SHASTA	98.44	338.4	13 41K	0						
MINERAL	98.52	337.7	13 40A	-1						
LICK	101.29	336.5	13 29	-25						
CHARTERS TS.	123.35	91.1	19 0	1						
SOUTH POLE	126.70	180.0	19 5	0						
KARAPIRO	153.51	102.5	20 2	10						

JANUARY 9 7.H 24.M 4.S EPICENTRE 36.47 70.08 DEPTH= 231.KM

A= 0.27470 B= 0.75788 C= 0.59174 D= 0.9401 E=-0.3408  
G= 0.2016 H= 0.5563 K=-0.8061 HT= -0.4

DEPTH OF FOCUS= 0.031R

SE= 2.01

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
KHOROG	1.54	48.5	0 38		1	1 5	-1					
KARA-SU	2.19	336.9	0 43		0	1 15	-2					
OB1-GARM	2.25	352.5	0 44		0	1 16	-2					
CHUIAN-GARON	2.30	342.0	0 44		0	1 15	-4					
GISSAR	2.33	329.5	0 44		-1	1 17	-2					
STALINABAD	2.34	334.1	0 45		0	1 18	-1					
ZIMCHURUD	2.51	336.6	0 46		-1	1 20	-3					
GARM	2.54	3.9	0 47		0	1 21	-2					
WARSAK DAM	2.74	153.4	0 48		-1							
DZERGETAL	2.90	18.0	0 51		0	1 27	-3					
MURGAB	3.61	57.1	1 1		2	1 44	-1					

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SAMARKAND	4.03	323.6	1	3	-1	1	53	0					
FERGANA	4.13	18.4	1	6	1	1	53	-3					
ANDI JAN	4.64	22.1	1	12	1	2	5	-2					
NAMANGAN	4.68	15.0	1	12	0	2	5	-3					
TASHKENT	4.89	352.9	1	13	-1	2	6	-6					
LUNACHARSKOE	4.89	353.4	1	14	0								
TCHIMKENT	5.84	356.5	1	26	0	2	29	-5					
LAHORE	6.04	143.0	1	9	-20								
BA IRAM-ALI	6.46	282.5	1	33	-1								
NARYN	6.77	41.2	1	36	-2	2	51	-4					
QUETTA	6.79	203.5	1	39K	1	2	56	1	2	20	*SP		
FRUNSE	7.26	27.5	1	45	1	3	2	-4					
FABRICHNAYA	8.26	34.3							2	10			
ALMATA	8.61	35.7	2	2	0	3	38	1					
PRZHEVALSK	8.80	44.4	2	4	0	3	40	-2					
ALMATA-2	8.81	37.3	2	5	1	3	43	1					
DEHRA DUN	9.05	130.3	2	8	1	3	45	-2	2	17	PP		
KURMENTY	9.08	41.6	2	6	-2								
ASHKABAD	9.47	282.5				5	16	79					
KIZYL-ARVAT	11.26	288.2	2	34	-1				3	39			
AGRA	11.50	141.8	2	35K	-3	4	37	-6	2	41	PP		
KARACHI	11.89	193.5	2	43	0	4	47	-5					
SEHORE	14.57	153.5	3	15	-2	5	56	4	3	27	PP		
CHATRA	17.42	118.7	3	50K	0	6	52	-2					
BOMBAY	17.66	171.4	3	53	1	7	7	8					
POONA	18.17	168.5	3	59K	1	7	17	8	4	33	PPP		
BOKARO	18.50	128.5	4	6	5	7	17	2					
LHASA	18.83	105.2	4	6	2	7	27	6	5	11	*SP		
GORIS	18.95	286.4	4	6	0	7	28	4					
TIFLIS	20.28	292.7				7	57	9	8	27	PCP		
HYDERABAD	20.36	156.4	4	18	-2	7	52	2	4	53	PP		
CALCUTTA	21.08	126.2	4	27K	0	8	9	7	4	53	PP		
SVERDLOVSK	21.34	345.6	4	31	2	8	14	5	5	8	PP		
SHILLONG	21.56	114.1	4	33K	1	8	14	3	4	41	*SP		
VIZIANAGRAM	21.76	143.6	4	39K	6	6	23	9	5	5	PP		
TOCKLAI	23.10	107.8	4	45	-1								
CHITTAGONG	23.51	120.7	4	51A	1	8	48	4	5	26	5	34	PP
KODAIKANAL	26.96	163.8				11	23	102	11	47	SS		
LANCHOW	27.15	80.7	5	24A	0	9	45	1	6	13			
KSARA	28.00	274.8	5	29	-2	9	55	-2	6	21	6	44	PP
SIMFEROPOL	28.36	298.6	5	34A	-1	10	7	4	6	26	15	49	SCS
CHENG TU	28.77	91.7	5	38A	0	10	9	0	6	50	*SP		
IRKUTSK	28.80	45.9	5	39A	0	10	14	4	6	25	6	51	*SP
JERUSALEM	29.13	271.1	5	43K	2				8	44	PCP		
MOSCOW	29.22	321.6	5	42	0	10	16	0	6	26	6	42	PP
ULAN-BATOR	29.32	55.4	5	44	1	10	20	2					
KUNMING	30.12	102.8	5	50A	0	10	31	0	6	36	7	3	*SP
SIAN	31.62	82.3	6	3	0								
PORT BLAIR	32.03	134.7	6	8	1	11	2	1					
HELWAN	32.93	269.8				11	16	2	10	3			
IASI	33.06	302.4	6	13	-3				7	31	PP		
BUCHAREST	34.06	297.3	6	28A	4				7	42	PP		
PULKOVO	34.51	325.2	6	28	0				11	38			
CAMPULUNG	34.80	298.9	6	34	4								
LWOW	35.59	306.7	6	38	1	11	58	3	14	26	SSS		
PEKING	36.07	70.0	6	42A	1	12	5	2	7	55	*SP		
SOFIA	36.19	294.6	6	43	1				8	8	PP		
ATHENS	36.65	286.7	6	47A	1	12	15	3	13	36	*SS		
HELSINKI	37.16	324.1	6	50	0	12	18	-1	8	19	PP		
WUHAN	37.31	85.9	6	51	0	12	21	0	8	7	*SP		
APATITY	37.37	337.8	6	52A	0	12	22	0	7	38	8	22	PP
NURMIJARVI	37.42	324.6	6	54	2	12	24	1	7	30	8	20	PP
TIMI SOARA	37.45	299.9	6	57	4								
WARSAW	37.67	310.5	6	55	0	12	27	0	8	24	PP		
SKALNATE PL.	38.02	305.5	6	58	1				8	28	PP		
BELGRADE	38.06	298.4	6	59A	1	12	32	-1	9	7			
KRAKOW	38.24	306.9	7	0	1				8	25	PP		
OULU	38.78	331.6	7	4	0				9	9	PCP		
RACIBORZ	39.36	306.9	7	9	1				8	36	PP		
SODANKYLA	39.45	335.2	7	8	-1				8	39	PP		
CANTON	39.53	97.4	7	11A	1	12	53	-2	8	23	*SP		
BRATISLAVA	40.13	304.0	7	14A	-1				8	50	PP		
NANKING	40.15	81.6	7	15A	0	13	4	0	8	30	*SP		
HONG KONG	40.59	97.9	7	18A	-1	13	11	1	8	7	16	40	SS
UPPSALA	40.64	322.1	7	19A	0	13	4	-7	8	52	PP		
ZAGREB	41.10	300.5	7	12	-11				9	2	PP		
PRUHONICE	41.71	306.9	7	29A	1	13	30	3	9	10	PP		
PRAGUE	41.79	307.0	7	28A	0	13	31	3	9	9	PP		
KIRUNA	41.79	334.3	7	28A	0	13	28	0	9	7	PP		



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LJUBLJANA	42.08	301.0	7 32A	1	12 48	-44		9 15	PP
CHANGCHUN	42.18	62.3	7 32A	1	13 33	-1		8 45	*SP
ZO-SE	42.41	81.9	7 34	1	13 38	1		8 48	*SP
POTSDAM	42.56	310.5	7 36	2	13 28	-11	8 22	9 13	PP
COLLMBERG	42.64	308.9	7 36A	1			8 13	9 18	PP
TRieste	42.67	300.5			13 46	5		17 9	SS
REGGIO CALA.	42.81	289.2	7 35	-2					
MESSINA	42.86	289.4	7 46A	9	13 44	1	8 15	9 20	PP
COPENHAGEN	42.93	315.4	7 37A	-1					
CHEB	43.10	307.2	7 40	1				9 33	PP
PLAUEN	43.21	307.8	7 39	-1				9 23	PP
HALLE	43.28	309.3	7 40	0	13 51	1	8 30	9 23	PP
GOTEBORG	43.28	318.3	7 35	-5				9 18	PP
JENA	43.55	308.5	7 42	0	13 22	-31	8 31	9 23	PP
SKALSTUGAN	43.83	326.9	7 44A	-1				9 25	PP
SONNEBERG	43.84	307.7	7 45	0				9 29	
ROME	44.26	295.4	7 48	0	14 8	4		9 41	PP
YAKUTSK	44.44	35.5	7 49	-1	14 0	-6		9 4	*SP
KHEYS	44.51	357.2	7 51	1			8 40	9 39	PP
RAVENSBURG	45.17	304.2	7 55A	0				9 30	PP
STUTTGART	45.26	305.6	7 57A	1	14 19	1	8 18	9 30	PP
CHUR	45.38	302.9	7 56A	-1				17 24	SS
TUBINGEN	45.43	305.3	7 58A	1				9 31	PP
EBINGEN	45.54	304.8	7 58A	0				9 40	*PPP
MUNSTER	45.93	310.2	8 1	0					
CHIAVARI	46.00	299.5			13 56	-34		17 57	SS
TIKSI	46.08	22.1	8 0	-2	14 27	-2		9 50	PP
BENSBERG	46.32	308.9	8 5A	1				10 45	
BASLE	46.57	304.1	8 6A	0				10 0	*PPP
VLADIVOSTOK	47.02	61.9	8 8	-2	14 42	-1		9 22	*SP
NEUCHATEL	47.09	303.5	8 9	-1					
BESANCON	47.69	304.0	8 13	-2					
ISFJORD	47.81	346.5	8 16	0					
BAGUIO CITY	48.83	100.3	8 23	-1	15 7	-1			
PARIS	49.67	306.7	8 30A	0				10 30	PP
CLERMONT-FD.	49.95	302.7	8 33	1					
MANILA	50.22	101.8	8 34	0	15 27	0			
KEW	50.89	310.6	8 39A	0	15 39	3		9 50	PCP
SETIF	51.18	290.2	8 38	-3	15 43	3	9 8	10 36	PP
FOLINIERE	51.59	307.2	8 44	0					
ABUYAMA	52.29	71.0	8 49A	-1					
ALGIERS UNI.	52.75	291.8	8 50A	-3	15 59	-3	9 30	9 57	*SP
TORTOSA	53.22	297.4	8 57	1				14 5	
Y.-SAKHLINSK	53.41	54.4	8 58	0	16 13	3		10 12	*SP
MATUSIRO	53.66	58.1	8 58A	-2	16 12	-2	9 52	18 18	SCS
NORD	53.70	349.5	8 59A	-1			10 1		
RATHFARNHAM	54.03	313.9	9 11	9					
LWIRO	54.39	234.2	9 6	1				10 6	
ALICANTE	54.79	294.3	8 52	-16	16 14	-15		10 58	PP
MAGADAN	54.87	37.9	9 8	0	16 31	1		10 23	*SP
RELIZANE	55.00	291.5	9 9A	0					
TUKUBASAN	55.19	67.8	9 9A	-2	16 31	-3		10 5	PCP
LEMBANG	55.61	132.8	9 8A	-6	16 31	-9			
SCORESBY SD.	56.79	336.3	9 22A	0			10 7		
TOLEDO	56.80	297.8	9 21A	-1	16 53	-2	10 18	11 32	PP
TAMANRASSET	56.81	275.2	9 22	0	16 58	2	9 55	11 18	PP
ALMERIA	56.82	293.9	9 21A	-1	16 57	1	9 55	11 33	PP
BANGUI	56.92	248.5	9 17	-6					
REYKJAVIK	58.70	329.1	9 37A	2			10 23		
TANANARIVE	59.06	205.0	9 39K	1				9 56	
SERRA PILAR	59.52	300.7	9 41K	0			10 9	10 23	
KLYUCHI	60.98	39.6	9 50	-1					
BROKEN HILL	64.07	225.7	10 11K	0					
THULE	64.37	350.0	10 11	-2				12 35	PP
BULAWAYO	68.59	221.9	10 39	-1				11 4	
RESOLUTE	68.69	355.8	10 39	-1					
PRETORIA	73.41	218.9	10 39	-29	19 49	-28			
COLLEGE	74.73	15.8	11 16	0	20 23	-9	12 5	14 6	PP
WINDHOEK	77.12	229.2	11 31	2					
KIMBERLEY	77.60	219.7	11 32	0					
MBOUR	79.26	279.9	11 42	1	21 23	3			
MUNDARING	80.62	141.6	11 47	-1			12 2		
SITKA	84.40	13.6	12 9	2					
PORT MORESBY	85.30	105.2	12 11A	-1	22 20	-1		13 9	*SP
RABAU	86.13	98.1	11 51	-25					
HALIFAX	89.05	328.9	12 30A	0					
SHAWINIGAN	90.87	335.4	12 40A	2					
CHARTERS TS.	91.21	114.1	12 38A	-2					



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OTTAWA	92.85	336.6	12 47A	0				
ALBERNI	93.62	9.7	12 52	1				
WESTON	93.98	332.4	12 53A	0				
VICTORIA	94.54	9.0	12 55	0				
HUNGRY HORSE	95.48	2.8	12 59	0			16 49	PP
ADELAIDE	95.54	129.8	12 59A	-1			16 52	PP
PALISADES	96.12	333.4			23 11	-4		
FORDHAM	96.25	333.3	13 13	10				
BUTTE	97.86	1.9	13 11	1				
BOZEMAN	98.24	0.8	13 13	1				
CORVALLIS	98.43	9.6	13 17K	4				
RAPID CITY	99.60	355.1	13 19	1			17 17	PP
BRI SBANE	100.36	116.3	13 22	0			16 42	PP
CANBERRA	102.35	124.8	13 28	-2			17 50	PP
SHASTA	102.36	9.7	13 54	24				
CHAPEL HILL	102.47	334.7					17 34	PP
LARAMIE	102.50	356.6	13 32	1			17 47	PP
MINERAL	102.81	9.1	13 32A	0				
RIVERVIEW	102.93	122.5	13 13K	-20				
ST. LOUIS 1	103.09	344.3	13 34	0	23 48	-1		
SALT LAKE C.	103.12	1.5	13 35	1			16 13	
LAWRENCE	103.73	348.3	13 36	0				
EUREKA	104.22	4.8	13 40	1			16 58	PP
COLUMBIA	104.89	335.5					17 38	PP
BERKELEY	105.16	10.1	13 46	777				
LICK	105.77	9.7	13 48K	777				
FAYETTEVILLE	106.35	346.8	13 48A	777			17 24	PP
LITTLE ROCK	107.25	344.9	13 51	777				
BOULDER CITY	107.78	4.2	13 56	777				
PASADENA	109.33	7.2	17 7	777	26 18	121	18 17	PP
SAN JUAN	111.53	315.0	18 8	2				
TUCSON TELE.	111.55	0.7	18 35	29				
TUCSON	111.64	0.8	18 9	2				
TRINIDAD	114.59	305.9	18 15	3				
MERIDA	119.76	338.1	18 17	-5			38 20	PKPPKP
AFIAMALU	120.70	84.8	17 56K	-28				
COBB RIVER	121.39	120.2	18 26	0				
KARAPIRO	122.15	115.8	18 27	0				
GEBBIES PASS	122.32	123.1	18 27	0				
WELLINGTON	122.89	119.7	18 29	1				
TACUBAYA	123.52	347.8	18 7	-23			20 18	PP
SOUTH POLE	126.28	180.0	18 34	-1		19 23	21 31	SKP
SCOTT BASE	126.74	164.8	18 28	-8			30 10	PKKP
CAPE HALLETT	127.36	157.8	18 41	4				
BYRD STATION	136.16	177.6	18 46	-8			22 5	SKP
LA PAZ	138.04	287.0	18 59	2			21 50	PP
PORT STANLEY	140.51	230.5	18 56	-6				
HUANCAYO	140.53	299.1	18 58	-4			22 10	PP
ARGENTINE I.	140.71	208.4	18 56	-6				

JANUARY 9 7.H 41.M 56.S EPICENTRE -1.17 123.37 DEPTH= 0.KM

A=-0.54998 B= 0.83493 C=-0.02024 D= 0.8351 E= 0.5501  
G= 0.0111 H=-0.0169 K=-0.9998 HT= 7.2

SE= 4.42

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MANILA	15.90	351.9	3	47	1	6	50	6				
LEMBANG	16.69	249.9	3	56	0	7	4	2				
DJAKARTA	17.24	252.8	4	8	5	7	30	15				
BAGUIO CITY	17.69	351.1	4	8	-1	7	47	22				
HONG KONG	24.99	339.5	5	25	-1	10	5	17				
PORT MORESBY	25.03	109.9	5	27K	0	9	52	3	5	35	6	10
MEDAN	25.13	280.9	5	16	-12	9	44	-7				
GUAM	25.69	54.8	5	40	7							
CANTON	26.02	338.5	5	40	4	10	13	8				
RABAUL	28.92	96.5	5	40	-22	10	35	-18			5	48
CHARTERS TS.	29.23	131.5	6	5	0							
MUNDARING	31.37	191.7	6	18	-6							
ZO-SE	32.16	356.5	6	32	1							
KUNMING	32.90	324.0	6	43	6							
NANKING	33.33	352.9	6	38	-3							
ADELAIDE	36.55	158.6	7	7	-2						9	2
CHENG TU	36.63	331.4	7	12	3	13	0	7				



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KARACHI	56.80	282.5	9 48	0	
BRISBANE	59.18	157.5	10 6K	1	
KHEYS	59.48	349.5	10 5	-2	
COLLEGE	60.98	28.8	10 16	-1	
ADELAIDE	63.37	173.0	10 33	0	
CANBERRA	65.87	364.0	10 47	0	
MAKHACH-KALA	66.87	307.5	10 50	-6	
APATITY	67.00	335.6	10 54K	-2	
MOSCOW	68.95	322.8	11 7	-2	
TIFLIS	69.17	306.9	11 10	0	
SODANKYLA	69.51	336.4	11 11	-1	
PULKOVO	71.11	328.3	11 20	-2	
KIRUNA	71.42	338.0	11 22K	-2	
RESOLUTE	73.01	11.5	11 32K	-1	
NURMIJARVI	73.33	330.3	11 34	-1	
THULE	74.80	4.7	11 42	-2	
SKALSTUGAN	76.58	336.2	11 52	-2	
UPPSALA	76.69	331.6	11 52	-2	
KARAPIRO	77.95	145.5	12 1	0	
KSARA	78.77	302.3	12 6	0	
LWOW	78.93	320.9	12 6K	-1	
CHATEAU	78.94	146.3	12 6	-1	
SCORESBY SD.	79.61	351.1	12 11	1	
JERUSALEM	80.18	300.7	12 14A	1	
RACIBORZ	81.95	323.2	12 22	-1	12 34 PCP
SHASTA	83.33	47.2	12 50	20	
COLLMBERG	83.87	326.1	12 32K	-1	12 59
PRUHONICE	83.91	324.5	12 33K	0	13 12
HUNGRY HORSE	84.01	37.5	12 34	1	
HELWAN	84.03	300.6	12 33	0	
MINERAL	84.03	47.2	12 45	12	
HALLE	84.26	326.7	12 33	-1	
JENA	84.80	326.4	12 37	0	13 34
SONNEBERG	85.34	326.2	12 39	-1	
RENO	85.63	47.1	12 43A	2	
BUTTE	86.21	38.7	12 45	1	
LJUBLJANA	86.33	321.4	12 45	0	
STUTTART	87.34	325.7	12 54	4	
EUREKA	88.11	45.5	12 53	0	
RAPID CITY	92.50	35.9	13 15	1	
LARAMIE	93.12	39.1	13 18	1	
TUCSON	95.79	48.7	13 30	1	
TUCSON TELE.	95.81	48.6	13 30	1	
HUANCAYO	150.48	62.1	19 57K	9	
LA PAZ	158.72	60.5	20 4	5	20 38 PKP2

JANUARY 11 3.H 10.M 15.S EPICENTRE 16.10 95.99 DEPTH= 0.KM

A=-0.10032 B= 0.95605 C= 0.27552 D= 0.9945 E= 0.1044  
G=-0.0288 H= 0.2740 K=-0.9613 HT= 5.5

SE= 2.19

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.		
			M	S	O-C	M	S	O-C	M	S	M	S	
CHITTAGONG	7.37	328.4	1	51A	0	3	14	-3			2	21	PG
CALCUTTA	9.63	312.8	2	37	14						4	10	
SHILLONG	10.18	338.5	2	28A	-2	4	35	9			2	40	PP
BOKARO	12.28	310.4	3	6	7	5	6	-12					
MEDAN	12.72	167.7	3	4A	-1						3	17	PP
CHATRA	13.46	324.0	3	11	-4						6	0	
LHASA	14.23	342.2	3	22	-3	6	1	-3					
CHENG TU	16.25	25.4	3	53	2	6	57	5					
HYDERABAD	16.85	277.0	3	53	-6	7	17	11			7	50	SS
CANTON	17.76	64.2	4	10	0								
HONG KONG	18.24	67.4	4	15A	-1	7	50	13					
KODAIKANAL	18.95	254.4	4	29	4								
AGRA	19.97	306.4	4	35A	-1	8	22	6					
LANCHOW	21.07	17.9	4	50	2	8	46	8					
POONA	21.27	279.8	4	50A	0	8	57	15					
SIAN	21.50	30.4	4	52	0	8	54	7					
DEHRA DUN	21.69	313.9	4	57	3	9	6	16			5	46	PP
WUHAN	22.25	46.5	5	1	1	9	6	5					
BOMBAY	22.27	280.6	4	55	-5	8	55	-6			5	14	PP
BAGUIO CITY	23.61	85.8	5	11	-2	9	45	20					
MANILA	24.23	89.9	5	17	-2	9	39	3					

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DJAKARTA	24.60	153.3	5 22A	-1	9 45	3	
NANKING	26.10	48.4	5 37	0	10 12	5	
PAOTOW	27.27	23.8	6 21	33			
ZO-SE	27.40	52.5	5 48	-1			
WARSAK DAM	28.31	313.5	5 57	0			
KARACHI	28.43	292.5	5 59	1			
PEKING	29.62	32.4	6 9	0			
QUETTA	30.05	302.9	6 12	-1	11 10	-1	7 10 PP
ULAN-BATOR	32.99	13.5	6 41	2			
MATUSIRO	42.55	53.2	7 58	-1	14 29	7	17 51
SVERDLOVSK	48.62	334.9	8 46	-1			
TIFLIS	50.68	311.1	9 4	1			
MUNDARING	51.57	158.0	9 9	-1			
YAKUTSK	51.68	19.5	9 7	-4			
KSARA	56.53	300.1	9 50	4	17 40	3	23 57 SS
PORT MORESBY	56.62	113.0	9 45	-2			
JERUSALEM	57.03	297.6	9 49	-1			14 38 PCS
MAGADAN	58.72	29.1	10 4	2			
TIKSI	58.85	11.6	10 1	-2	18 7	-1	
RABAU	59.10	105.1	9 36	-28			
MOSCOW	59.17	325.9	10 4	-1			
HELWAN	60.40	295.5	10 12	-1			10 29
CHARTERS TS.	61.09	124.3	10 18	0			
PULKOVO	64.02	329.1	10 38	1			
APATITY	64.88	337.9	10 43	0	19 25	1	
ADELAIDE	64.99	142.1	10 44	0			
KHEYS	66.66	353.7	10 57	3			
SODANKYLA	67.34	336.9	10 58	-1			
LWIRO	68.80	261.1	11 11	3			25 17
KIRUNA	69.76	336.9	11 16	2			21 13 SCS
BRISBANE	70.00	127.7	11 18	3			
MELBOURNE	70.65	140.7	11 21A	2			
CANBERRA	71.67	136.5	11 24A	-1			
RIVERVIEW	72.27	134.2	11 32	3	21 7	15	
PRUHONICE	72.38	317.9	11 33	3			12 35
LJUBLJANA	72.72	313.8	11 31	-1			11 50
SKALSTUGAN	72.93	332.3	11 33	0			
COLLMBERG	73.26	319.4	11 35	0			11 55 PCP
BROKEN HILL	73.28	249.2	11 34	-1			
HALLE	73.89	319.7	11 39	1			14 35 PP
ROME	74.67	309.7					15 37
BULAWAYO	75.34	243.7	11 44	-3			
STUTTGART	75.93	317.1	11 50	0			
PRETORIA	77.97	238.6					12 54
SETIF	81.14	305.1	12 16	-3			
TAMANRASSET	84.33	232.0	12 36	1			15 46 PP
COLLEGE	86.10	22.6	12 45	1			
WINDHOEK	86.21	245.4					12 44
THULE	87.19	356.3	12 49	0			
RESOLUTE	89.16	2.9	12 58	-1			24 3
LA PAZ	164.75	266.3	20 17	12			21 21 PKP2

JANUARY 12 1.H 52.M 38.S EPICENTRE 23.42 122.38 DEPTH= 0.KM

A=-0.49189 B= 0.77583 C= 0.39514 D= 0.8446 E= 0.5355  
G=-0.2116 H= 0.3337 K=-0.9186 HT= 3.8

SE= 2.95

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
HWALIEN	0.89	308.7	0	20	1	0	32	-1				
HSINKONG	0.98	251.5	0	20	-1	0	29	-6				
TAITUNG	1.31	239.8	0	24	-1	0	39	-5				
YUSHAN	1.31	273.1	0	47	22	1	4	20				
ALISHAN	1.45	274.4	0	49K	22	1	7	20				
ILAN	1.46	337.1	0	30	2	0	46	-2				
TAICHUNG	1.72	295.5	0	32	1	0	56	2				
TAWU	1.73	232.4	0	31	0	0	49	-5				
TAIPEI	1.79	334.3	0	35A	3	0	56	0				
HSINCHU	1.88	317.3	0	38	4	1	2	4				
TAINAN	2.03	258.7	0	40	4	1	3	1				
HENGCHUN	2.06	227.1	0	38	2	1	2	-1				
KAHSIUNG	2.10	248.2	0	48	11	1	4	0				
PENGHU	2.60	273.1	0	45	1	1	13	-4				
BAGUIO CITY	7.16	194.0	1	47	-1	3	27	16				

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HONG KONG	7.65	263.3	1 53A	-2	3 35	11	3 17
ZO-SE	7.73	352.4	2 15	19			
CANTON	8.32	269.6	2 2	-3			
MANILA	8.78	188.2	2 11	0			
NANKING	9.18	340.5	2 14	-3			
SIAN	15.97	315.5	3 45	-2			
PEKING	17.38	343.9	4 6	1	7 24	6	
CHENG TU	17.87	297.8	4 12	1	7 34	5	
KUNMING	17.99	279.4	4 15	2	7 41	9	
MATUSIRO	18.92	42.7	4 23	-1	7 37	-16	
PAOTOW	20.03	331.6	4 43	6			
LANCHOW	20.40	312.3	4 41	0			
VLADIVOSTOK	21.18	19.6	4 52	3			8 39
GUAM	23.38	111.1	5 13	2			
ULAN-BATOR	27.39	337.0	5 47	-2			
SHILLONG	27.82	280.7	5 51A	-2			
CHITTAGONG	28.15	273.9	5 54	-2	10 38	-2	6 43 PP
LHASA	28.66	289.3	6 1	1	10 51	2	
MEDAN	30.22	232.8	6 13	-1			
IRKUTSK	31.96	338.9	6 28	-2			
LEMBANG	33.34	207.4	6 41	-1			
YAKUTSK	38.91	5.5	7 25	-4			
RABAU	39.97	129.5	7 19	-19			
PORT MORESBY	40.63	140.6	7 43	0	13 52	-2	
FRUNSE	43.78	308.1	8 8	-1			
POONA	45.41	273.4	8 21	-1			
BOMBAY	46.26	274.2					26 55
TIKSI	48.38	2.7	8 42	-3			15 42 PS
CHARTERS TS.	49.11	149.8	8 52	1			
QUETTA	49.53	290.4	8 53	-1	16 3	1	
SVERDLOVSK	55.31	323.9	9 36	-1			
KHEYS	62.93	350.4	10 28	-2			
CANBERRA	63.63	155.9	10 36A	1			
TIFLIS	65.80	306.7	10 51	2			
MOSCOW	68.07	322.6	11 2	-1			
APATI TY	68.20	335.6	11 2	-2			
COLLEGE	68.98	27.2	11 7	-2			
SODANKYLA	70.81	335.9	11 18	-2			
PULKOVO	71.09	327.7	11 22	0	20 31	-7	
NORD	73.21	354.2	11 33	-1			
NURMI JARVI	73.60	329.3	11 37	0			
JERUSALEM	75.76	298.7	11 49	0			
KARAPIRO	78.84	139.8	12 8	2			
RESOLUTE	79.25	9.4	12 5A	-3			
KRAKOW	79.95	320.3	12 13	1			12 30 PCP
THULE	80.18	2.5	12 10	-3			
RACIBORZ	80.95	320.8					12 28 PCP
PRUHONICE	83.10	321.8	12 29	0			
COLLMBERG	83.33	323.4	12 29	-1			12 48
STUTTGART	86.68	322.4	12 54	7			
UCCLE	88.20	325.9	12 52	-2			
CORVALLIS	89.66	40.6	13 10	9			
SHASTA	92.35	43.5	13 19K	6			
HUNGRY HORSE	92.56	33.8	13 15	1			
CARACAS	145.09	16.1	19 18	-21			

JANUARY 12 3.H 9.M 10.S EPICENTRE -55.52 -27.29 DEPTH= 0.KM

A= 0.50542 B=-0.26071 C=-0.82254 D=-0.4584 E=-0.8887  
G=-0.7310 H= 0.3771 K=-0.5687 HT= -7.4

SE= 3.04

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PORT STANLEY	18.46	269.2	4	18	0							
ARGENTINE I.	20.39	226.6	4	42	1							
SOUTH POLE	34.66	180.0	6	52	-1						11	11
BYRD STATION	36.29	197.1	7	8	1	13	10	22			8	36 PP
SANTA LUCIA	37.16	288.2	7	9	-5	12	46	-15				
HERMANUS	38.15	76.1									13	22 PCS
LA PAZ	49.84	304.8	8	57	1	16	7	1			11	2 PP
CAPE HALLETT	51.88	186.7				16	35	1				
WILKES	54.37	160.5	9	32	2	17	10	2			11	27 PP
BULAWAYO	54.47	72.9	9	28	-3						14	48
HUANCAYO	57.14	300.0	9	51	1	17	51	6				

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BROKEN HILL	59.07	69.0	10	4	0					
LWIRO	69.56	62.2	11	14	2					13 23
MBOUR	70.17	10.6	11	31	15	20	37	10		
BOGOTA	71.19	309.9	11	21	-1	20	38	-1		14 9 PP
FUQUENE	71.81	310.6	11	31	5					14 31 PP
CHINCHINA	72.19	308.6	11	26	-2	20	46	-5		
CARACAS	73.64	319.2	11	14A	-23	21	0	-7		
SAN JUAN	80.63	322.9	12	16	0					
TAMANRASSET	82.85	30.3	12	29	2					15 43 PP
KARAPIRO	84.89	197.9	12	36	-2					
MUNDARING	87.43	149.6	12	52	2					
ADELAIDE	89.08	168.5	12	59	1					
RIVERVIEW	91.00	178.7	12	57A	-10	23	57	-6		
BERMUDA	93.21	329.0								25 50 PS
HELWAN	98.65	48.6								17 48 PP
DURHAM	111.93	15.7	18	46K	9					
QUETTA	116.60	75.0	18	49	3					
UPPSALA	120.45	24.4	19	31	38					
PULKOVO	123.73	30.9								37 20 SS
CHITTAGONG	124.55	100.9	19	2	1					
SHASTA	124.94	292.5	18	53A	-9					
HUNGRY HORSE	126.25	304.3	19	4	0					
KIRUNA	128.01	20.9	19	8	0					
SODANKYLA	128.96	23.7	19	9	-1					
APATITY	130.74	26.2	19	14	1					
SVERDLOVSK	132.51	48.2	19	16	0					
THULE	134.25	347.5	19	15	-5					
HONG KONG	136.24	123.5								30 12
RESOLUTE	137.34	338.7	19	14	-11					
KHEYS	143.50	16.0	19	38	2					
COLLEGE	150.13	312.4	19	44	-3					

JANUARY 13 15.H 40.M 24.S EPICENTRE -16.02 -73.02 DEPTH= 64.KM

A= 0.29082 B=-0.91974 C=-0.27426 D=-0.9564 E=-0.2920  
G=-0.0801 H= 0.2623 K=-0.9617 HT= 5.6

DEPTH OF FOCUS= 0.005R

SE= 3.76

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
HUANCAYO	4.54	330.1	1	13K	5							
LA PAZ	4.72	96.5	1	13	2							
SANTA LUCIA	17.48	173.4	3	56	-5	7	17	6				
BOGOTA	20.53	357.0	4	36A	0	8	37	20				
CHINCHINA	21.01	352.8	4	40A	-1	8	39	13				
FUQUENE	21.36	358.1	4	43	-1							
BUENOS AIRES	22.65	147.5	4	55	-2							
BALBOA HTS.	25.65	344.9	5	26K	0							
GALERAZAMBA	26.72	355.1	5	42A	6							
CARACAS	27.03	13.3	5	12K	-26	9	38	-32				
TRINIDAD	28.89	24.2	5	52	-3							
GRENADA	30.04	22.5	6	11	6							
ST. VINCENT	31.24	22.5	6	12	4							
BARBADOS	31.85	25.4	6	21	0							
FORT FRANCE	32.73	21.6	6	25	4							12 36
SANTIAGO MA.	33.06	331.6	6	33	1	11	56	11				
DOMINICA	33.17	20.8	6	36	3							
SAN SALVADOR	33.57	330.7	6	37	1	12	6	13				
ST. KITTS	34.67	17.5	6	43	-3							
ANTIGUA	34.74	19.0	6	41	-5							
SAN JUAN	34.85	11.5	6	43K	4							8 14 PP
COMITAN	37.20	328.7	7	11	4	12	41	-8				8 41 PP
PORT STANLEY	37.59	164.5	7	7	-3				7	35		
MERIDA	40.19	335.6	7	26K	-6	13	24	-10				
OAXACA	40.33	323.5	7	38K	5	13	36	0				9 20 PP
VERA CRUZ	41.73	326.1	7	46K	1	14	8	11				9 36 PP
PUEBLA	42.74	323.6	7	56	3	14	16	4				
TACUBAYA	43.61	322.9	8	6K	6	14	36	12				9 50 PP
LEON	46.40	321.8	8	30	8	15	9	5				16 24 SS
MANZANILLO	46.51	317.4	8	33	10	15	17	11	9	27		
GUADALAJARA	47.07	319.8	8	30	3	15	20	6				
BERMUDA	48.78	9.4	8	42	1	15	36	-2				10 36 PP
ARGENTINE I.	49.54	175.2	8	44	-3				9	23		
COLUMBIA	50.32	351.4	8	51K	-2	16	0	1				



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HAZATLAN	50.83	319.2	8	52	-4	16	6	0			18	18	SCS
CHAPEL HILL	51.97	353.8	9	3	-2	16	30	8					
DALLAS	53.64	335.1	9	16	-1								
CHIHUAHUA	54.70	324.0	9	24K	-1	17	4	5			14	56	
WASHINGTON	54.76	356.1	9	23A	-3	17	7	7			11	26	PP
FAYETTEVILLE	55.56	339.2	9	29K	-2	17	12	2			37	55	PKPPKP
MORGANTOWN	55.74	353.5	9	35K	2	17	26	13					
PITTSBURGH	56.54	353.7	9	35	-3	17	26	3					
FORDHAM	56.58	359.2	9	36	-3	16	55	-29					
PENNSYLVANIA	56.71	355.6	9	35K	-5	17	26	0					
ST. LOUIS 1	56.71	343.9	9	36K	-4	17	26	0					
PALISADES	56.74	359.2	9	36K	-4	17	26	0	10	24	10	58	PP
FLORISSANT	56.90	343.9	9	38K	-3	17	30	2					
WESTON	58.13	1.5	9	48K	-2	17	47	3					
LAWRENCE	58.52	339.8	9	49	-3								
TUCSON	60.12	323.2	10	2K	-1	17	46	-24	10	43	12	23	PP
HALIFAX	60.95	7.7	10	7K	-2								
OTTAWA	61.17	357.8	10	7K	-4								
BREBEUF	61.23	359.5	10	8K	-3								
SHAWINIGAN	62.28	0.2	10	17K	-1								
SEVEN FALLS	62.88	1.7	10	20	-2	18	47	2					
MBOUR	63.08	64.4	10	20K	-3								
LARAMIE	64.52	333.3	10	31	-2	19	11	6					
BOULDER CITY	65.10	323.4	10	35K	-1	19	2	-10	11	17	10	51	
PASADENA	65.84	319.9	10	41K	0	19	30	8	11	27	13	12	PP
RAPID CITY	65.86	336.6	10	39K	-2	19	20	-2	11	31			
SALT LAKE C.	67.01	328.8	10	47K	-2	19	38	2			11	7	
BYRD STATION	67.32	187.9	10	39	-11	19	50	11			39	12	PKPPKP
EUREKA	68.22	325.4	10	55K	-1								
FRESNO	68.57	321.1	10	56K	-2								
PONTA DELGDA	69.54	38.5	11	8K	4						11	29	
LICK	70.06	320.5	11	7K	0	20	10	-2					
BOZEMAN	70.39	332.7	11	8K	-1				11	45	13	44	PP
RENO	70.41	323.3	11	10K	0								
BERKELEY	70.78	320.6	11	11K	-1	20	29	9	12	0	13	51	PP
SAN FRANCISCO	70.83	320.4	11	12K	0								
BUTTE	71.34	332.1	11	13A	-2	20	11	-16	11	56			
MINERAL	71.98	322.9	11	17	-2								
UKIAH	72.16	321.1	11	19K	-1	20	52	16					
SHASTA	72.66	322.8	11	21K	-2								
HUNGRY HORSE	73.75	332.9	11	28K	-1	20	55	1			32	0	
SASKATOON	73.87	339.2	11	35	5	20	47	-8					
SOUTH POLE	74.08	180.0	11	29	-2	21	3	5			39	3	PKPPKP
CORVALLIS	75.68	325.4	11	40K	0								
LOME	76.66	79.6	11	48	2	21	23	-3					
VICTORIA	78.31	328.5	11	54	-1	21	50	6					
HORSESHOE B.	78.80	329.2	11	58	0								
ALBERNI	79.50	328.4	12	5	3								
SCOTT BASE	80.47	190.7	12	8	1	22	11	4			15	18	PP
LISBON	80.77	45.4	12	13K	5	22	14	4	12	48	23	15	*SS
COIMBRA	81.97	44.3	12	19	4	22	15	-7	13	21			
SERRA PILAR	82.30	43.4	12	16A	0	22	16	-9	13	2	15	25	PP
CAPE HALLETT	82.60	196.0	12	20A	2	22	4	-24			13	56	PP
HERMANUS	82.93	123.7	12	22	2	22	33	1			15	44	PP
GRANADA	83.98	48.8	12	34K	9	22	49	7			15	41	PP
WINDHOEK	84.10	111.7	12	24	-1								
ALMERIA	84.66	49.4	12	29A	1	22	47	-2	13	2	15	54	PP
TOLEDO	84.81	46.2	12	29K	0	22	54	4	13	3	15	39	PP
TAMANRASSET	85.94	65.1	12	34A	-1	23	5	4			15	47	PP
RELIZANE	86.46	51.4	12	36	-1								
ALICANTE	86.71	48.7	12	40	2	23	10	1			28	40	SS
TORTOSA	88.37	46.7	11	56	-50								
ALGIERS UNI.	88.72	51.2	12	51	3								
REYKJAVIK	88.95	20.0	12	49A	0	23	39	9	13	25	13	21	
KIMBERLEY	89.05	119.5	12	52	2								
SITKA	89.16	331.1	12	56A	6						13	27	
VIK	89.47	21.3	12	59	8	23	16	-19			16	34	PP
RATHFARNHAM	89.51	33.5	12	46	-6	23	33	-2	13	16	17	13	PP
SIDA	90.03	21.3	12	53	-1								
JERSEY	90.04	38.3	13	6	12	23	21	-19					
SETIF	90.29	52.4	12	53	-2				13	44	16	29	PP
FOLINIERE	90.85	39.1	12	57	-1								
AKUREYRI	91.18	19.8				23	16	-34			29	56	SS
KIPAPA	91.23	291.8	13	3	3				13	38			
HONOLULU	91.27	291.7	13	10	10	23	24	-27			30	14	SS
RESOLUTE	91.55	354.3	13	1K	0								
CLERMONT-FD.	91.99	42.8	13	4	1	23	37	-20					
KEW	92.01	36.7	13	5K	2	23	55	-2	13	39	16	45	PP



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THULE	92.29	1.1	13	1K	-4	24	6	6	13	50	16	57	PP
EDINBURGH	92.30	31.9				23	34	-26			25	18	PS
DURHAM	92.65	33.4	13	10A	4	24	1	-2	14	7	17	1	PP
PARIS	92.68	39.8	13	9	3	23	59	-4					
PRETORIA	92.86	117.7	12	40	-17								
SCORESBY SD.	93.16	15.2	13	14	5	24	14	7			16	56	PP
ABERDEEN	93.37	31.0	13	27	17	23	44	-25			16	53	PP
MONACO	94.20	45.8	13	19	6								
BESANCON	94.35	42.1	13	17	3						14	27	
AFIAMALU	94.40	254.3	13	17	3	23	50	-28	13	51	17	36	PP
DOURBES	94.42	39.1	13	16	2	23	47	-31					
UCCLE	94.50	38.4	13	8	-7	23	45	-34					
NEUCHATEL	94.89	42.6	13	20	3	23	53	-29			17	6	PP
BULAWAYO	95.07	112.5	13	14K	-3								
DROPA	95.15	44.1	13	25	7	23	57	11					
WELLINGTON	95.38	224.5	13	21	2				14	20	24	32	SCS
DE BILT	95.43	37.3	13	18K	-1	24	25	37			16	48	PP
BASLE	95.47	42.2	13	19A	0						24	10	SKKS
GEBBIES PASS	95.65	221.6									23	51	SKKS
CHIAVARI	95.68	45.6				24	36	47					
CHATEAU	95.77	226.6	13	25	5						13	52	
PAVIA	95.82	44.8	13	24	3						25	55	PS
BENSBERG	96.25	38.8	13	23	0						17	48	PP
KARAPIRO	96.32	227.8	13	26	3						17	25	PP
WITTEVEEN	96.52	36.9	13	23	-1								
LCO. MARQUES	96.53	119.2	13	30	6	24	48	54			17	34	PP
EBINGEN	96.55	41.8	13	26	2								
TUBINGEN	96.72	41.5	13	26	1				14	14			
PRATO	96.79	46.4	13	53	28	25	4	69					
MUNSTER	96.82	37.9	13	23	-2						14	23	
ROXBURGH	96.84	218.9	13	32	7						17	26	PP
RAVENSBURG	96.36	42.4	13	24	-1								
STUTTART	96.92	41.3	13	24A	-2	24	39	43	14	15	23	47	SKS
BOLOGNA	97.11	45.9	13	19	-8	23	49	-8					
ROME	97.25	48.6	13	32	5	24	41	44	14	6	17	35	PP
AUCKLAND	97.31	223.5									24	0	SKKS
WILKES	97.84	131.4	13	33	3	24	40	39			17	18	PP
COLLEGE	98.07	335.4	13	27A	-4	23	53	-4	13	56	17	30	PP
ONERAHI	98.11	229.3									24	3	SKKS
SONNEBERG	98.55	40.1	13	34	1				14	4			
MESSINA	98.63	52.8									25	53	
JENA	98.92	39.6	13	37	2	24	50	44	14	23	24	12	SKS
TRIESTE	99.06	45.2	13	39K	4	24	49	42	14	9	17	32	PP
PLAUEN	99.17	40.1	13	36	0								
CHEB	99.21	40.6	14	39	63	24	56	48			17	53	PP
HALLE	99.29	39.1	13	35	-1	24	59	51	14	27	17	39	PP
LJUBLJANA	99.68	44.9	13	43	5				14	18	17	36	PP
COLLMBERG	99.88	39.5	13	38	-1	24	49	38	14	11	17	45	PP
POTSDAM	100.17	33.4	13	46	6	25	6	54			24	17	SKS
TARANTO	100.42	50.9	12	49	-53	24	14	1			20	49	
PRAGUE	100.50	40.9	13	43K	1	25	13	59			24	18	SKS
COPENHAGEN	100.55	35.1	13	47A	5	25	15	61			24	19	SKS
PRUHONICE	100.55	41.0	13	44K	2	24	53	39			17	53	PP
ZAGREB	100.62	45.3	13	48A	6	24	20	6			26	49	PS
LWIRO	100.73	95.5	13	44	1	25	21	66					
GOTEBORG	100.74	33.0	13	46	3				14	16	17	36	PKP
NORD	101.12	7.2	13	42	-3	24	51	34			17	52	PP
VIENNA-H.	101.37	43.0	13	47K	1	24	18	0			17	56	PP
BRATISLAVA	101.84	43.2	13	41	-7				13	50	17	50	PP
SUVA	101.89	247.1									25	1	SKKS
SKALSTUGAN	102.13	27.1	13	53	4						29	54	PKKP
HURBANOVO	102.51	43.6	14	11	20	24	24	1			18	3	PP
RACIBORZ	102.88	41.4	13	52	-1						15	21	
CHORZOW	103.42	41.2				24	31	3			17	48	
BELGRADE	103.54	46.9	13	59A	4	24	34	6			21	11	PPP
KRAKOW	103.98	41.6	14	0	3	24	35	5			17	39	
UPPSALA	104.02	31.4	14	2	4	25	40	70			18	17	PP
SKALNATE PL.	104.06	42.5	14	2	4	25	44	73	14	32			
TIMISOARA	104.22	46.1				24	38	7			25	47	
WARSAW	104.95	39.4				24	16	-19			16	30	
SOFIA	105.29	49.4				25	57	81			27	36	
KIRUNA	106.00	23.2	14	12	777	26	3	84			18	29	PP
LWOW	106.58	42.1	14	13	777						18	28	PP
KERGUELEN I.	107.18	155.7	14	48	777	25	30	45					
BUCHAREST	107.49	47.9	14	26	777	24	36	-10			18	38	
NURMIJARVI	107.57	31.0	14	19	777	26	12	86			18	44	PP
HELSINKI	107.72	31.3				26	15	88			18	45	PP
SODANKYLA	108.38	23.7	14	23	777						18	47	PP

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HELWAN	110.06	63.6	14 29	777	26 39	102		
PULKOVO	110.42	31.7	14 28	777			19 1	PP
NOLMEA	110.42	238.3			28 26	208	19 3	PP
APATITY	110.97	23.2	14 34	777	25 4	4	19 6	PP
KHEYS	111.97	7.7	18 36	8			19 50	
TANANARIVE	112.00	118.5					15 12	19 15 PP
KOUMAC	113.02	239.0			28 53	224	19 21	PP
SIMFEROPOL	113.23	47.6	14 48	777	25 4	-5	29 0	PS
JERUSALEM	113.58	62.0	18 38	7			19 21	
KSARA	114.29	59.8	14 51	777	26 29	75	19 31	PP
MOSCOW	114.71	35.6	18 40	7			19 32	35 18 SS
RIVERVIEW	114.97	219.8	18 31	-3	25 21	5	19 37	PP
CANBERRA	115.24	217.2	18 44A	10	25 21	4	19 40	PP
MELBOURNE	115.63	212.7					19 41	PP
BRISBANE	118.07	226.3	18 46	6				
ADELAIDE	121.01	210.3	18 49	3	25 40	3	20 17	PP
TIFLIS	121.19	50.7	18 52	6			28 14	
GORIS	122.58	53.2					20 25	PP
TIKSI	122.89	351.9	18 46	-3				
PETROPAVLOVK	125.37	324.5					20 48	30 21 SKSP
MAGADAN	126.12	334.1	19 4	8			20 56	PP
SVERDLOVSK	126.44	29.6	18 56	0			20 53	PP
CHARTERS TS.	127.30	228.4	18 59	1			30 51	SP
RABAUL	130.99	249.6	18 44	-21			21 53	
YAKUTSK	131.31	346.0	19 7	2			22 26	
MUNDARING	131.47	190.5	19 8	2			21 38	PP
PERTH	131.56	190.1	19 10	4			21 33	PP
ASHKABAD	132.10	53.1	19 9	2			21 34	PP
PORT MORESBY	132.89	240.3	19 0	-8			19 53	21 39 PP
Y.-SAKHLINSK	137.23	323.9	19 16	0			22 6	PP
NEMURO	137.39	317.7	19 24	7			22 54	
ABASHIRI	137.88	319.3	19 25	7				
KUSIRO	138.31	317.9	19 24	6			22 49	
WAKKANAI	138.72	322.6					25 6	
TASHKENT	138.90	44.5	19 13	-7			20 5	
OBIHIRO	139.11	318.5	20 25	65				
ASAHI GAWA	139.19	320.1	19 38	18				
STALINABAD	139.70	48.6					19 30	
URAKAWA	139.76	317.7	19 19	-2				
SAPPORO	140.20	319.7	19 27	5			22 28	
QUETTA	140.79	61.8	19 23	0	26 13	-12	20 8	22 41 PP
MORI	141.20	318.9	20 26	62			24 5	
HAKODATE	141.23	318.4	19 24	0				
FRUNSE	141.57	39.3	19 22	-2			25 12	PPP
KARACHI	141.67	70.2	19 27	2				
MORIOKA	142.02	315.2					22 19	
MIZUSAWA	142.31	314.4	19 32	6			29 22	
AKITA	142.73	315.9					23 50	
SENDAI	142.87	313.3	19 35	8			21 8	
HUKUSIMA	143.41	312.8	19 32	4				
GUAM	143.42	271.1	19 25K	-3	26 17	-12	20 11	23 11 PKS
ONAHAMA	143.46	311.3	20 35	67			21 52	
WARSAK DAM	143.48	54.0	19 25	-3				
IRKUTSK	143.77	2.8	19 25	-3			22 46	PP
SHIRAKAWA	143.87	312.0	19 29	1				
MITO	144.02	310.7	19 32	3				
KAKIOKA	144.29	310.7	19 28	-1				
NIIGATA	144.32	313.9	20 4	35			20 44	
TUKUBASAN	144.35	310.7	19 27A	-2			22 52	PP
UTUNOMIYA	144.38	311.3	19 31	2			20 58	
AIKAWA	144.83	314.6	19 34	4				
TOKYO C.M.O.	144.84	310.1	19 29	-1			24 37	PP
KUMAGAYA	144.91	311.0	19 32	2			22 48	
MAEBASI	145.02	311.6	19 30	0			20 43	
YOKOHAMA	145.02	309.7	19 33	3			22 15	
MERA	145.10	308.8	19 33	2				
TITIBU	145.20	311.0	19 31	0				
TAKADA	145.28	313.2	19 31	0				
OIWAKE	145.43	311.8	19 32	1			22 44	
OSIMA	145.50	308.8	19 38	7			41 46	
NAGANO	145.52	312.6	19 33	2			23 41	
MATUSIRO	145.57	312.4	19 31K	0			33 36	PS
AJIRO	145.59	309.5	19 34	3			21 41	
VLADIVOSTOK	145.63	326.9	19 31	0			22 56	
HUNATU	145.64	310.4	19 36	5			25 36	
MISIMA	145.67	309.7	19 34K	3				
KOHU	145.72	310.8	19 33	1			38 46	
MATUMOTO	145.88	312.1	19 34	2				
WAZIMA	146.07	314.6	19 40	8				

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SHIZUOKA	146.14	309.8	19 37	5		
TOYAMA	146.21	313.3	19 33	1	23 39	
OMAESAKI	146.44	309.3	19 45	12	34 26	
LAHORE	146.52	56.6	19 35	2		
NAGOYA	147.10	311.1	19 39	5	29 55	
GIHU	147.14	311.6	19 36	2	23 24	
HUKUI	147.21	313.0	19 45	11		
BOMBAY	147.32	79.9	19 40	6	23 0 PP	
HIKONE	147.57	311.7	19 42	7		
KAMEYAMA	147.61	310.9	19 40	5	30 1	
KYOTO	148.07	311.7	19 43	8	20 47	
NARA	148.16	311.1	19 40	4		
OWASE	148.17	309.8	19 43	7	42 19	
ULAN-BATOR	148.19	0.1	19 45	9		
CHANGCHUN	148.20	334.4	19 43	7	23 13 PP	
ABUYAMA	148.25	311.6	19 40K	4		
POONA	148.29	80.6	19 40	4	23 13 PP	
OSAKA	148.39	311.3	19 40	4	20 57	
TOYOOKA	148.46	313.3	19 39	3		
KOBE	148.63	311.6	19 44	8	24 9	
SIOMISAKI	148.77	309.0	19 41	4	32 42	
SUMOTO	148.99	311.2	19 43	6	22 45	
TOKUSIMA	149.36	311.0	19 44	7		
YONAGO	149.53	314.3	19 49	11	23 47	
TAKAMATU	149.62	311.9	19 47	9	22 59	
MATSUE	149.71	314.6	19 52	14		
DEHRA DUN	149.94	56.6	19 48	10	23 18 PP	
MUROTO	150.04	309.9	19 47	9	20 45	
KOTI	150.37	311.0	19 53	14	29 37	
HAMADA	150.70	314.6	19 54	15	22 2	
KODAIKANAL	150.71	97.7	20 0	21	23 21 PP	
HIROSIMA	150.74	313.3	19 46	7	26 50	
AGRA	150.96	62.7	19 49	9	23 34 PP	
SIMIDU	151.16	310.1	19 50	10	21 33	
OOITA	151.91	312.1	19 50	9		
SIMONOSEKI	152.01	314.0	19 57	16		
HUKUOKA	152.59	313.9	19 57	15	23 13	
HYDERABAD	152.65	83.0	20 4	22	23 35 PP	
MIYAZAKI	152.72	309.8	19 57	15	20 41	
KUMAMOTO	152.78	312.2	19 54	12		
SAGA	152.83	313.4	19 50	7	20 43	
NAGASAKI	153.41	312.9	19 51A	8		
KAGOSIMA	153.54	310.0	19 55	11	22 40	
YAKUSIMA	154.12	307.8	19 46	2	20 16	
TOMIE	154.25	313.9	20 1	16	23 45	
PEKING	154.77	343.3	19 49	4	23 44 PP	
PAOTOW	155.39	354.4	19 52	6		
LEMBANG	157.29	181.6	19 54A	5	24 13 PP	
DJAKARTA	157.94	179.6	19 52	3	25 16	
BOKARO	158.64	65.3	20 29	39	24 8 PP	
CHATRA	158.68	56.4	19 51	1		
LANCHOW	159.86	7.4	19 53	1	24 14 PP	
LHASA	160.04	44.5	20 0	8	24 27 PP	
ZO-SE	160.16	321.7	19 59	7	24 21 PP	
NANKING	160.76	328.2	20 0	7	24 21 PP	
CALCUTTA	161.29	66.9	20 9	16	24 31 PP	
SIAN	161.76	354.9	19 55	1		
SHILLONG	162.99	53.6	19 55A	0	24 4 PP	
CHITTAGONG	164.36	63.9	19 57	1	20 50	26 50 *PPP
MEDAN	165.19	145.7	20 0	3	24 43 PP	
PORT BLAIR	165.50	105.5	20 6	9	31 24	
MANILA	166.33	266.3	20 4	6	23 25 PP	
BAGUIO CITY	166.93	273.6	20 0	2		
KUNMING	170.12	23.0	20 8	8	25 10 PP	
CANTON	170.76	320.6	20 9	8	25 14 PP	
HONG KONG	170.77	313.7	20 8	7	25 18 PP	

JANUARY 13 16.H 29.M 42.S EPICENTRE 51.73 179.93 DEPTH= 0.KM

A=-0.62197 B= 0.00080 C= 0.78304 D= 0.0013 E= 1.0000  
G=-0.7830 H= 0.0010 K=-0.6220 HT= -6.0

SE= 2.70

DELTA	AZ.	P	O-C	S	O-C	*PP	SUPP.
DEG.	DEG.	M S	S	M S S	M S S	M S	M S

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MAGADAN	18.09	307.0	4 34	19	
COLLEGE	21.14	39.2	4 51	2	
MATUSIRO	33.06	259.2	6 40A	0	12 25 SCP
VLADIVOSTOK	33.08	274.2	6 40	0	
KIPAPA	34.77	142.2	6 48	-7	
HORSESHOE B.	35.38	70.8	8 1	61	
ABUYAMA	35.78	259.5	7 3A	0	
CORVALLIS	37.69	77.9	7 21A	2	
RESOLUTE	39.76	24.5	7 38A	2	
SHASTA	40.41	82.4	7 43A	1	
UKIAH	40.83	84.9	7 46	1	
MINERAL	41.10	82.3	7 48A	0	8 30
HUNGRY HORSE	41.25	67.6	7 49	0	9 48 PCP
BERKELEY	42.19	85.7	7 58A	2	
RENO	42.69	82.0	7 59	-2	
LICK	42.91	85.9	8 7A	5	
BUTTE	43.33	69.8	8 5	-1	
KHEYS	44.07	348.4	8 13	1	
FRESNO	44.41	85.2	8 16	1	
THULE	45.06	18.1	8 19	-1	
NORD	46.62	3.3	8 33	1	
SALT LAKE C.	46.79	75.4	8 33	0	
PASADENA	47.12	86.7	8 35	-1	
BOULDER CITY	47.99	82.4	8 43	0	
RAPID CITY	49.86	66.6	8 56	-1	
LARAMIE	50.19	70.9	8 59	-1	
TUCSON	52.94	83.2	9 20	-1	
LAWRENCE	57.71	66.7	9 53	-2	
HONG KONG	57.86	265.7	10 7	11	
APATITY	58.41	345.6	9 59	-1	
MANILA	59.44	254.1	10 17	10	
SODANKYLA	59.54	348.4	10 8	0	39 39 PKPPKP
KIRUNA	59.78	351.1	10 9A	-1	10 29
FAYETTEVILLE	60.30	68.4	10 12	-1	
RABAU	60.53	212.2	9 48	-27	10 48
FLORISSANT	60.58	63.8	10 14	-1	
ST. LOUIS 1	60.77	63.8	10 14A	-2	
OULU	61.92	348.0	10 24	0	
REYKJAVIK	63.23	10.5	10 33	0	
OTTAWA	63.45	49.7	10 31A	-3	
SHAWINIGAN	63.96	47.2	10 36	-2	
SIDA	63.98	8.8	10 39	1	
BREBEUF	64.36	48.4	10 38A	-2	
SKALSTUGAN	64.63	353.9	10 41A	-1	
NURMIJARVI	66.36	346.9	10 53	0	11 20 PCP
HELSINKI	66.64	346.7	10 54	-1	
PALISADES	67.62	51.8	10 58	-3	
FORDHAM	67.75	51.9	11 0	-2	
WESTON	67.81	49.3	11 1K	-1	
UPPSALA	67.86	350.5	11 2A	-1	
MOSCOW	68.45	338.2	11 6	0	
CHAPEL HILL	68.85	58.7	11 9	0	12 2
SHILLONG	69.20	285.1	11 10A	-1	
GOTEBORG	70.49	353.2	11 18	-1	
CHATRA	71.05	289.3	11 23	1	20 48 10
CHITTAGONG	71.63	282.9	11 26	0	20 47 2
COPENHAGEN	72.46	352.6	11 31A	0	14 10 PP
WARSAK DAM	74.16	305.0	11 40	-1	
LAHORE	74.64	301.5	11 48	5	
WITTEVEEN	75.67	355.8	11 31A	-18	
MUNSTER	76.47	355.1	11 54	0	
HALLE	76.65	352.3	11 54	-1	12 15
COLLMBERG	76.75	351.6	11 54	-1	12 6 PCP
KEW	77.18	0.2	11 57	-1	
KRAKOW	77.18	346.9	11 59	1	12 29
JENA	77.24	352.5	11 58	0	12 28
CHARTERS TS.	77.34	212.3	11 56	-3	
RACIBORZ	77.39	348.1	11 58	-1	12 44
BENSBERG	77.51	355.3	12 0	1	
PLAUE	77.63	352.0	11 59	-1	
UCCLE	77.78	357.1	12 13	12	
SONNEBERG	77.82	352.6	12 1	0	
PRUHONICE	77.91	350.4	11 58	-4	
IASI	78.64	341.2	12 5	-1	12 25
QUETTA	79.55	305.8	12 12A	1	15 12 PP
STUTTGART	79.56	353.7	12 11A	0	
TUBINGEN	79.82	353.8	12 12	0	12 22 PCP
PARIS	79.82	358.3	12 13	1	
FOLINIERE	79.88	0.3	12 13	1	

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EBINGEN	80.17	353.9	12 14	0	
RAVENSBURG	80.52	353.4	12 16	0	
NEUCHATEL	81.47	355.1	12 21	0	
MEDAN	81.78	265.3	12 32K	10	
BRISBANE	82.31	204.2	12 26	1	13 21
CLERMONT-FD.	82.84	357.7	12 29	1	
KARACHI	83.85	302.7	12 33	0	
LEMBANG	84.54	251.9	12 43A	6	
POONA	85.19	293.8	12 39A	-1	
RIVERVIEW	88.86	203.6	13 7A	9	
KARAPIRO	89.37	183.5	12 58	-2	
SAN JUAN	89.68	60.2	13 1	-1	
CHATEAU	90.63	183.4	13 2	-4	13 18 PP
CANBERRA	90.82	204.9	13 6A	-1	
ADELAIDE	93.58	212.8	13 19	-1	
CAPE HALLETT	123.93	183.6	18 56	-5	
LWIRO	125.08	323.9	19 5	2	
BYRD STATION	135.86	167.4	19 18	-5	
BULAWAYO	141.32	313.8	19 27	-6	
SOUTH POLE	141.54	180.0	19 26	-8	23 40 SKP
PORT STANLEY	145.01	113.3	19 37	-3	
ARGENTINE I.	145.51	138.0	19 38	-2	
PRETORIA	146.35	309.6	19 43	1	
WINDHOEK	148.00	329.0	19 49	4	

JANUARY 14 10.H 25.M 56.S EPICENTRE 35.95 140.09 DEPTH= 82.KM

A=-0.62241 B= 0.52051 C= 0.58453 D= 0.6415 E= 0.7671  
G=-0.4484 H= 0.3750 K=-0.8114 HT= -0.2

DEPTH OF FOCUS= 0.008R

SE= 2.19

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
TUKUBASAN	0.27	0.9	0	11	-3	0	18	-6				
KAKIOKA	0.28	14.0	0	11	-3	0	18	-7				
TOKYO C.M.O.	0.39	225.9	0	14K	-1	0	24	-2				
MITO	0.52	35.4	0	14A	-2	0	22	-6				
KUMAGAYA	0.61	288.9	0	15K	-2	0	22	-7				
UTUNOMIYA	0.62	343.1	0	15A	-2	0	25	-4				
YOKOHAMA	0.64	214.9	0	16K	-1	0	28	-2				
TYOSI	0.66	110.6	0	16A	-1	0	27	-3				
TITIBU	0.82	272.2	0	17	-2	0	29	-3				
MAEBASI	0.94	298.6	0	18K	-2	0	32	-2				
HERA	1.05	191.9	0	20K	-1	0	34	-2				
SHIRAKAWA	1.17	4.9	0	22	0	0	36	-3				
HUNATU	1.17	247.6	0	22	0	0	37	-2				
ONAHAMA	1.19	32.9	0	23A	1	0	38	-1				
AJIRO	1.21	222.3	0	22	-1	0	37	-3				
MISIMA	1.25	228.7	0	23K	0							
KOHU	1.28	257.7	0	24K	0	0	40	-1				
OIWAKE	1.31	287.2	0	24	0	0	45	3				
OSIMA	1.32	206.5	0	23K	-1	0	40	-2				
MATUSIRO	1.63	291.6	0	28K	0	0	46	-3			2 38	
NAGANO	1.69	295.6	0	30K	1	0	53	3				
NAGATURO	1.69	217.4	0	30	1	0	48	-2				
SHIZUOKA	1.70	235.2	0	29K	0	0	50	0				
MATUMOTO	1.75	280.4	0	32	2	0	54	2				
HUKUSIMA	1.82	9.4	0	31	0	0	56	3				
TAKADA	1.88	308.1	0	33K	2	0	59	5				
IIDA	1.89	257.5	0	31	-1	0	56	1				
OMAESAKI	2.04	229.2	0	34	0	0	57	-1				
NIIGATA	2.13	337.2	0	36	1	1	4	3				
HAMAMATU	2.30	238.3	0	38	1	1	7	2				
YAMAGATA	2.30	5.0	0	38	1	1	6	1				
TAKAYAMA	2.31	275.7	0	39	2							
SENDAI	2.40	15.3	0	39K	0	1	8	1				
TOYAMA	2.45	288.5	0	41K	2						1 8	
AIKAWA	2.54	324.9	0	40	0	1	14	3				
ISINOMAKI	2.66	21.2	0	40K	-2	1	11	-3				
NAGOYA	2.66	253.9	0	44K	2	1	12	-2				
GIHU	2.76	259.4	0	44K	0	1	17	1				
KANAZAWA	2.84	282.7	0	44	-1							
HATIDYOZIMA	2.86	185.1	0	47	2	1	17	-1				

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WAZIMA	2.94	299.9	0 47K	1			
SAKATA	2.95	356.0	0 59	13			
HUKUI	3.14	272.9	0 50	1	1 28	3	1 18
KAMEYAMA	3.16	250.7	0 50	1	1 24	-2	
TU	3.18	247.9	0 51	2			
HIKONE	3.21	258.8	0 50K	0	1 26	-1	
MIZUSAWA	3.28	14.2	0 53	2	1 29	0	
TSURUGA	3.29	265.9	0 53	2	1 29	0	
KYOTO	3.68	256.6	0 57K	1	1 41	2	
OWASE	3.71	240.7	0 56K	-1			2 9
NARA	3.71	251.2	0 56	-1	1 37	-3	
AKITA	3.76	0.1	1 4	7			1 45
MORIOKA	3.84	12.5	0 58K	0	1 41	-2	
ABUYAMA	3.85	255.0	0 58K	-1			
MAIZURU	3.86	264.2	1 0	1	1 36	-7	
OSAKA	3.95	252.1	0 59K	-1	1 43	-3	
MIYAKO	3.98	21.4	0 59	-1	1 40	-6	
KOBE	4.21	253.9	1 5	1	1 52	0	
TOYOOKA	4.31	265.9	1 5	0	1 54	-1	
SIOMISAKI	4.35	236.2	1 5K	-1	1 51	-4	
WAKAYAMA	4.39	248.4	1 6	0	2 6	10	
SUMOTO	4.54	250.8	1 8K	0	2 15	15	
HATINOHE	4.71	13.5	1 10K	0	2 2	-2	
TOTTORI	4.83	266.5	1 14	2	2 7	0	
HIMEJI	4.88	254.4	1 8	-5	2 22	13	
AOMORI	4.89	6.1	1 18	5	2 14	5	
TOKUSIMA	4.90	249.1	1 13K	0	2 10	1	
OKAYAMA	5.21	257.7	1 18K	1	2 36	19	
TAKAMATU	5.21	253.5	1 17	0			2 41
SAIGO	5.48	274.6	1 18	-3	2 37	13	
YONAGO	5.51	266.5	1 20	-2			3 6
MUROTO	5.57	242.8	1 27	5	2 50	24	
MATSUE	5.74	267.0	1 27	2	3 1	31	
HAKODATE	5.87	4.9	1 29	3			2 38
KOTI	5.91	248.0	1 24	-3	2 41	7	
MORI	6.15	3.3	1 36	6	2 55	15	
MATUYAMA	6.37	252.8	1 34	1	2 54	9	3 22
MURORAN	6.39	5.9	1 49	15			
HIROSIWA	6.47	258.1	1 35K	0	2 53	5	
URAKAWA	6.53	17.8	1 34	-2	2 47	-2	
HAMADA	6.64	263.2	1 38	1	2 55	3	3 35
SIMIDU	6.69	243.8	1 39	1	2 58	5	3 41
TOMAKOMAI	6.77	9.3	1 55	16			
UWAZIMA	6.79	248.6	1 39	0			3 7
HIROO	6.80	20.7	1 37	-2	2 49	-7	
SUTTSU	6.84	0.8	1 42	2	2 55	-2	3 17
SAPPORO	7.17	7.4	1 49	4	3 7	2	3 18
OBHIRO	7.36	18.1	1 45	-2	3 3	-7	
ODITA	7.50	251.2	1 48	-1			3 48
KUSIRO	7.77	24.1	1 51	-2	3 10	-10	
SIMONOSEKI	7.79	257.8	1 52	-1			3 44
ASAHIKAWA	8.01	11.9	1 54	-2			
MIYAZAKI	8.25	243.3	2 0K	1			2 43
HUKUOKA	8.34	256.3	3 4	64			4 31
KUMAMOTO	8.37	250.8	3 2	61			4 40
NEMURO	8.49	28.2	2 0	-3	3 26	-12	
SAGA	8.51	254.4	2 4	1			4 44
ABASHIRI	8.67	20.4	2 2	-3	3 35	-7	
NAGASAKI	9.04	252.1	2 12	2	3 57	6	
KAGOSIMA	9.07	243.9	2 13	3			5 28
WAKKANAI	9.53	6.8	2 12	-5	4 2	-1	
YAKUSIMA	9.73	238.4	2 20	1	4 11	3	
KURILSK	10.98	30.1	2 34	-2			4 29
Y.-SAKHLINSK	11.23	9.3	2 36	-4	4 36	-8	
CHANGCHUN	13.80	309.2	3 14	1	5 52	7	
ZO-SE	16.49	258.4	3 50	2	6 57	10	
OKHA	17.71	5.6	4 3	0			
NANKING	18.09	263.8	4 6	-1	7 36	13	
PEKING	19.27	289.4	4 18A	-3	7 51	2	
WUHAN	22.00	263.1	4 48	-1			
GUAM	22.78	168.3	4 55	-1	9 2	7	8 19
PAOTOW	23.99	290.2	5 14	6			
MAGADAN	24.62	13.1	5 16	2			
SIAN	25.51	275.4	5 22	-1			
BAGUIO CITY	26.08	226.8	5 25	-3	10 56	65	
HONG KONG	26.32	245.9	5 29	-1			10 33
CANTON	26.48	248.4	5 30A	-2	10 0	2	
YAKUTSK	26.89	349.2	5 34	-1	10 2	-2	
MANILA	27.19	223.6	5 31	-7	10 9	0	



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LANCHOW	29.23	281.0	5	55	-1	10	41	-1		
IRKUTSK	30.04	314.1	6	1	-3					
CHENG TU	30.50	270.5	6	6	-2	11	7	5		
TIKSI	36.22	354.0	6	55	-2					
LHASA	41.37	275.7	7	41	1					
SHILLONG	42.34	269.7	7	47A	-1					
CHITTAGONG	43.86	265.6	8	0A	0	14	27	2	9	41 PP
PORT MORESBY	45.60	170.2	8	13	-1	14	50	1	8	32 PCP
CHATRA	45.61	274.0	8	14	0					
FRUNSE	49.93	299.0	8	48	0				15	54 PS
COLLEGE	50.57	31.7	8	53	0					
LEMBANG	52.36	222.3	9	52A	46					
TASHKENT	54.17	298.7	9	17	-2				16	50 PS
WARSAK DAM	55.12	289.5	9	26A	0					
SVERDLOVSK	55.26	318.9	9	26	-1					
STALINABAD	55.49	295.7	9	28	-1				17	17 PS
CHARTERS TS.	56.04	173.0	9	32	-1					
QUETTA	60.26	287.4	9	57A	-5	18	2	-6	12	5 PP
KOUMAC	60.69	153.9							20	26
NORD	62.06	356.2	10	13A	-1					
KARACHI	62.68	282.0	10	17A	-2					
NOUMEA	63.08	152.5	10	37	16					
APATITY	63.24	335.7	10	21A	-1					
ASHKABAD	63.25	298.8	10	20	-2					
RESOLUTE	63.91	14.0	10	26A	-1					
BRISBANE	64.13	167.5	10	29A	1	18	31	-26		
SODANKYLA	65.55	337.0	10	38	1				13	0 PP
THULE	66.46	7.0	10	40	-3					
KIRUNA	67.15	339.0	10	47A	0				13	14 PP
MOSCOW	67.48	323.3	10	47	-3					
CORVALLIS	69.99	49.1	11	18	13					
NURMI JARVI	70.39	331.7	11	7	0				13	40 PP
HELSINKI	70.49	331.3	11	8	0					
TIFLIS	70.64	307.8	11	9	0				11	30 PCP
MUNDARING	71.18	201.3	11	11	-1			11	35	
CANBERRA	71.39	172.3	11	14A	1					
SKALSTUGAN	72.53	338.3	11	20A	0				13	54 PP
SHASTA	72.60	52.2	11	23A	2					
SCORESBY SD.	73.08	353.8	11	23	0					
HUNGRY HORSE	73.30	42.1	11	26	1					
MINERAL	73.30	52.1	11	26K	1					
UPPSALA	73.46	333.6	11	25A	-1					
MELBOURNE	73.55	176.0	11	25A	-1				11	44 PCP
RENO	74.89	52.1	11	36	2					
LICK	74.93	54.8	11	37K	3					
BUTTE	75.48	43.4	11	38	1					
FRESNO	76.46	54.4	11	52	9					
BOZEMAN	76.53	43.0	11	44	1					
GOTEBORG	77.04	334.3	11	46	0					
EUREKA	77.35	50.3	11	50	2					
IASI	77.55	319.8	11	51	2			12	9	
LWOW	77.62	323.4							12	0 PCP
PASADENA	79.06	55.8	11	59K	2	21	46	-2	12	20
SALT LAKE C.	79.09	47.3	11	59	2				12	16
SIDA	79.10	350.3	11	56	-1					
KRAKOW	79.40	325.5	12	0	1				13	32
KARAPIRO	80.51	152.3	12	6	1			12	24	13 4
POTSDAM	80.66	330.3	12	6	0					
KSARA	80.91	305.2	12	9A	2					
COLLMBERG	81.50	329.6	12	10A	0				12	41
HALLE	81.78	330.2	12	11	-1					
RAPID CITY	81.81	40.6	12	13	1					
PRUHONICE	81.84	327.9	12	13A	1				15	8 PP
BRATISLAVA	82.04	325.5	12	14	1				15	14 PP
JENA	82.37	330.0	12	14	-1				15	22 PP
PLAUEN	82.47	329.5	12	12	-3					
JERUSALEM	82.59	303.9	12	17K	1					
SONNEBERG	82.94	329.9	12	17	-1					
MUNSTER	83.09	332.6	12	29	11					
LJUBLJANA	84.80	325.3	12	26A	-1			12	44	
STUTT GART	84.98	329.8	12	28A	0				13	34
TUCSON	85.08	53.5	12	30	2				16	32
TUBINGEN	85.26	329.8	12	30	1					
HELWAN	86.39	304.5	12	35A	0			12	58	
FOLINIERE	88.64	335.1	12	46	1					
FAYETTEVILLE	92.34	41.2	13	4A	1			13	21	
BREBEUF	93.39	23.0	13	9	2					
SETIF	96.77	324.6							18	19 PP

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TAMANRASSET	107.49	316.4				18 24 PP
LWIRO	108.50	281.0				18 47 PP
BULAWAYO	118.64	265.0	18 40A	1		
SOUTH POLE	125.77	180.0	18 53	0		20 49 SKP
BYRD STATION	126.95	167.6	18 57	2		
HUANCAYO	140.18	62.3	19 5	-15		
LA PAZ	148.30	59.7	19 38K	4		20 7 PKP2

JANUARY 14 21.H 25.M 18.S EPICENTRE 11.11 -43.50 DEPTH= 0.KM

A= 0.71 99 B=-0.67560 C= 0.19140 O=-0.6883 E=-0.7254  
G= 0.1388 H=-0.1317 K=-0.9815 HT= 6.4

SE= 3.14

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
BARBADOS	15.87	278.9	3	49	3							
ST. VINCENT	17.50	278.5	4	5	-2							
FORT FRANCE	17.58	283.7	4	7	-1							
TRINIDAD	17.59	270.2	4	8	0							
DOMINICA	17.92	285.4	4	17	5							
ANTIGUA	18.76	290.7	4	22	0							
CARACAS	23.02	270.7	4	46K	-21	9	6	-9				
SAN JUAN	23.02	290.9	5	8	1							
MBOUR	26.07	80.0	5	38	1	10	23	17				
FUQUENE	30.42	261.9	6	15	-1	11	14	-3				
BOGOTA	30.94	260.4	6	23	2	11	34	9				
CHINCHINA	32.37	261.7	6	29	-4	11	51	4				
LA PAZ	36.69	222.0	7	9A	-1	13	0	6			8 43	PP
HUANCAYO	39.10	234.9	7	28	-2	13	34	3				
PALISADES	40.03	323.4	7	49	11	13	55	10				
BREBEUF	42.85	328.7	8	1	0							
SHAWINIGAN	43.16	330.4	8	5K	1							
OTTAWA	43.88	327.2	8	10	0							
TAMANRASSET	48.10	69.4	8	42	-1	15	39	-3			10 34	PP
ALGIERS UNI.	49.00	50.6				15	58	4				
SETIF	50.62	52.0	8	46	-16							
SANTA LUCIA	51.29	209.3	9	14	6	16	20	-6				
PARIS	53.53	36.2	8	54	-30							
LAWRENCE	53.59	310.5	9	23	-2							
DURHAM	54.61	28.4				17	8	-3				
STUTTGART	57.57	38.6	9	51	-2							
TRIESTE	59.41	43.3	10	8	2						10 52	PCP
LJUBLJANA	60.04	43.0	10	10	-1						10 54	PCP
RAPID CITY	60.69	314.5	10	14	-1							
COLLMBERG	60.72	36.9	10	15	0						10 52	PCP
PRUHONICE	61.22	38.7	10	19	0						10 45	PCP
LARAMIE	61.83	311.0	10	22	-1							
BRATISLAVA	62.31	41.2	10	26	0						10 56	PCP
RACIBORZ	63.50	39.3	10	45	11						10 56	PCP
KRAKOW	64.57	39.7	10	42	1						11 14	PCP
TUCSON	65.03	300.4	10	44	0							
SKALSTUGAN	65.28	24.0	10	46	0							
SALT LAKE C.	66.45	309.6	10	52	-1							
THULE	66.64	353.8	10	52	-2							
HUNGRY HORSE	68.85	317.6	11	6	-2							
RESOLUTE	69.68	347.2	11	11	-2	20	22	0			24 52	SS
EUREKA	69.51	308.0	11	11	-1							
NURMI JARVI	69.70	29.3	11	12	-1							
KIRUNA	70.07	21.3	11	13	-3							
SODANKYLA	72.21	22.5	11	29	1							
LWIRO	73.10	95.8	11	32	-2						21 3	
HERMANUS	74.69	130.4									22 24	
APATITY	74.81	22.8	11	46	2							
KSARA	75.13	57.8	11	50	5							
BROKEN HILL	75.71	108.1	11	48	-1							
MOSCOW	75.91	35.2	12	55	65							
BULAWAYO	77.42	113.6	11	54	-4							
TIFLIS	81.45	49.2	12	25	5							
MAKHACH-KALA	83.26	47.6									22 57	
COLLEGE	86.02	335.5	12	42	-1							
SVERDLOVSK	88.38	32.2	12	56	1							
LEMBANG	151.17	84.0	19	54A	5							

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JANUARY 15 9.H 30.M 19.S EPICENTRE -14.98 -75.04 DEPTH= 70.KM

A= 0.24948 B=-0.93370 C=-0.25685 D=-0.9661 E=-0.2581  
G=-0.0663 H= 0.2481 K=-0.9665 HT= 5.8

DEPTH OF FOCUS= 0.006R

SE= 2.65

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
HUANCAYO	2.93	354.4	0	47	1							
LA PAZ	6.82	103.7	1	42A	2	3	6	9				
SANTA LUCIA	18.81	168.5	4	14	-3	7	36	-4				
BOGOTA	19.50	2.9	4	24K	0	8	6	11				
CHINCHINA	19.83	358.3	4	26K	-2	8	14	12				
FLUQUENE	20.36	3.8	4	33	0							
BALBOA HTS.	24.20	349.1	5	12A	1							
GALERAZAMBA	25.59	359.5	5	26K	1	10	0	15				
CARACAS	26.56	18.1				9	37	-24			5	8 PP
TRINIDAD	28.83	28.7	5	56	2						6	38
GRENADA	29.92	26.8	5	59	-5							
ST. VINCENT	31.11	26.7	6	13	-1							
SAN SALVADOR	31.74	333.1	6	27	7							
BARBADOS	31.83	29.5	6	26	5							
FORT FRANCE	32.56	25.6	6	24	-3						13	39
SAN JUAN	34.29	15.1	6	41K	-1				7	19	8	7 PP
ST. KITTS	34.33	21.2	6	41	-1							
ANTIGUA	34.47	22.7	6	41	-2							
COMITAN	35.32	330.8	6	53	2	12	20	1			9	3
OAXACA	38.35	325.2	7	20	4	13	13	8			8	56 PP
MERIDA	38.47	337.8	7	18A	1	13	8	1			17	59
PORT STANLEY	39.13	163.1	7	22	-1							
VERA CRUZ	39.81	327.9	7	33	5	13	41	14			14	21 *SS
TACUBAYA	41.62	324.4	7	43K	0	14	4	10			10	19 PPP
MANZANILLO	44.44	318.6									9	53 PP
GUADALAJARA	45.03	321.2	8	17	6	14	49	5			10	10 PP
BERMUDA	48.12	11.8	8	34	-1	15	34	7			10	29 PP
COLUMBIA	49.04	353.4	8	41	-1	15	39	-1				
ARGENTINE I.	50.75	174.2	8	49	-6							
CHAPEL HILL	50.76	355.8	8	55	0	15	8	-56				
DALLAS	51.90	336.7	9	2	-2							
CHIHUAHUA	52.73	325.3	9	16	6	16	42	11			26	22
WASHINGTON	53.63	358.0	9	16	-1	16	51	8	9	56	10	30 PCP
FAYETTEVILLE	53.92	340.8	9	17A	-2	16	52	5	9	59	29	41
MORGANTOWN	54.52	355.3	9	24A	1	16	11	-44				
ST. LOUIS 1	55.20	345.5	9	25A	-3	16	58	-6	10	7		
PITTSBURGH	55.32	355.4	9	27	-2	17	10	4			19	15
FORDHAM	55.55	1.1	9	29	-2	17	12	3				
PENNSYLVANIA	55.55	357.4	9	29	-2	17	13	4				
PALISADES	55.71	1.0	9	31	-1	17	18	7	10	26	11	38 PP
LAWRENCE	56.90	341.2	9	37	-3							
WESTON	57.17	3.3	9	41A	-1	17	37	6				
TUCSON	58.14	324.3	9	48A	-1	17	49	6			12	7 PP
OTTAWA	60.09	359.4	10	1A	-2							
BREBEUF	60.20	1.2	10	2A	-1	18	16	6				
HALIFAX	60.22	9.4	10	2A	-1							
SHAWINIGAN	61.27	1.8	10	10A	-1							
SEVEN FALLS	61.93	3.3	10	16	1	18	37	5				
LARAMIE	62.73	334.5	10	18	-2						12	44
BOULDER CITY	63.12	324.4	10	21A	-2						39	27 PKPPKP
PASADENA	63.81	320.8	10	27A	0	19	5	10	11	2	23	11 SS
RAPID CITY	64.15	337.8	10	24A	-6	19	9	9			39	25 PKPPKP
MBOUR	64.41	65.8	10	34A	3	19	16	13				
SALT LAKE C.	65.13	329.9	10	34A	-2	19	29	17				
EUREKA	66.27	326.4	10	43A	0				11	17	39	12 PKPPKP
FRESNO	66.55	322.0	10	45	0							
LICK	68.03	321.4	10	54A	0				11	34		
BYRD STATION	68.09	187.6	10	55	0				11	22		
RENO	68.43	324.2	10	59K	2							
BOZEMAN	68.59	333.7	10	57A	-1				11	30		
BERKELEY	68.75	321.4	10	58A	-1	20	4	9			24	37 SS
BUTTE	69.52	333.1	11	2A	-2	19	44	-20	11	32		
MINERAL	69.99	323.8	11	4A	-2				11	38		
UKIAH	70.14	322.0	11	10	3				11	55		
SHASTA	70.67	323.7	11	6K	-4							
HUNGRY HORSE	71.96	333.8	11	17A	-1						38	59 PKPPKP
CORVALLIS	73.73	326.3	11	30	1							

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SOUTH POLE	75.12	180.0	11 36	-1	21 17	9	12 2	14 5	PP		
VICTORIA	76.41	329.2	11 43	-1							
ALBERNI	77.60	329.2	11 52	1							
LOME	78.40	80.4	11 56	1	22 29	45					
IVIGTUT	78.88	12.9			22 7	18					
SCOTT BASE	81.13	190.9	12 10	0	22 22	10		12 29	PCP		
LISBON	81.44	46.2	12 14A	3	22 29	14	12 37	12 27	PCP		
COIMBRA	82.60	45.1	12 18A	1							
SERRA PILAR	82.91	44.2	12 13K	-6	22 16	-14	12 53	15 27	PP		
CAPE HALLETT	83.06	196.2	12 21A	1	22 41	9		15 30	PP		
GRANADA	84.77	49.5	12 32K	4	23 4	15		15 47	PP		
HERMANUS	85.12	124.2	12 32	2	22 58	6		16 0	PP		
ALMERIA	85.48	50.1	12 26	-6	23 10	14		23 23	*SS		
TOLEDO	85.51	46.9	12 34A	2	23 11	15	12 46	16 8	PP		
TAMANRASSET	87.28	65.7	12 44A	4	23 13	0		15 56	PP		
SITKA	87.32	331.6	12 41	0							
ALICANTE	87.50	49.3	12 33	-8	23 14	-1		29 5	SS		
REYKJAVIK	88.65	20.6	12 49A	2	23 41	15					
HONOLULU	89.07	292.2	12 51	2	23 17	-13		29 45	SS		
VIK	89.22	21.9			23 59	28					
ALGIERS UNI.	89.60	51.8	12 52	1	23 40	6		16 28	PP		
RATHFARNHAM	89.73	34.0	12 51A	-1				13 27			
SIDA	89.78	21.9	12 54	2							
RESOLUTE	90.34	354.8	12 55A	0	23 45	4		16 29			
JERSEY	90.44	38.9	12 53	-2	23 38	-4					
SETIF	91.22	52.9	13 2A	3	24 12	23		16 51	PP		
FOLINIERE	91.28	39.6	13 1	2							
THULE	91.31	1.6	12 59	0				16 39	PP		
KEW	92.36	37.1	13 4A	0	23 58	-1	13 46	16 56	PP		
CLERMONT-FD.	92.56	43.3	13 8	3	24 0	-1					
SCORESBY SD.	92.68	15.6	13 7A	1	24 11	9					
AFIAMALU	92.80	254.9	13 8	2	23 56	-7		30 36	SS		
DURHAM	92.86	33.8	13 8A	1	24 34	31		17 0	PP		
PARIS	93.14	40.3	13 9	1				15 54	PP		
WELLINGTON	94.74	225.2			24 25	6					
DOURBES	94.85	39.5	13 18	2	24 2	-18					
BESANCON	94.89	42.5	13 17	1							
UCCLE	94.91	38.8	13 17	1	24 11	-10					
PRETORIA	95.13	61.5	12 49	-22							
NEUCHATEL	95.46	42.9	13 19	1							
KARAPIRO	95.56	228.5	13 19	0			13 58				
DE BILT	95.79	37.7	13 20A	0	24 26	38		25 41	PS		
BASLE	96.01	42.5	13 23	2							
COLLEGE	96.32	335.8	13 21K	-1	24 30	39	14 0	17 27	PP		
CHIAVARI	96.35	46.0			24 41	50		23 44	SKKS		
ROXBURGH	96.41	219.7			23 59	7		31 21	SS		
BENSBERG	96.67	39.1	13 26	2				17 21	PP		
WITTEVEEN	96.87	37.2	13 28	3							
EBINGEN	97.08	42.1	13 26	0							
MUNSTER	97.20	38.2	13 8	-18				14 5			
TUBINGEN	97.24	41.8	13 27	1				13 55			
BULAWAYO	97.26	113.0	13 27	0							
RAVENSBURG	97.41	42.6	13 29	2							
STUTTGART	97.43	41.6	13 28A	1	24 17	20	14 3	17 12	PP		
ROME	98.03	48.9	13 32A	2	24 33	33		17 35	PP		
BERGEN	98.19	29.6			24 22	21		24 59	SKKS		
LCO. MARQUES	98.73	119.8	13 36	3				17 48	PP		
WILKES	98.81	182.3	13 36	2	25 0	56		17 35	PP		
SONNEBERG	99.02	40.3	13 35	0			14 1	17 36	PP		
JENA	99.37	39.8	13 37	1	24 26	19	14 20	17 38	PP		
REGGIO CALA.	99.61	53.1						17 43			
PLAUEN	99.64	40.3	13 35	-2	24 15	7		17 33	PP		
CHEB	99.70	40.8	13 41	3	25 7	58		23 57	SKS		
TRIESTE	99.72	45.4						17 41	PP		
HALLE	99.72	39.3	13 39	1	24 16	7		17 39	PP		
COLLMBERG	100.32	39.6	13 42A	2	24 42	30	14 18	17 46	PP		
NORD	100.34	7.3			25 12	60		17 40	PP		
POTSDAM	100.57	38.6	13 42	0				17 47	PP		
COPENHAGEN	100.82	35.2	13 44A	1	25 22	68		24 3	SKS		
GOTEBORG	100.94	33.1	14 0	17				18 5	PP		
PRAGUE	100.99	41.0	13 46A	3	24 25	10		17 51	PP		
PRUHONICE	101.05	41.1	13 45A	1	24 27	12		17 52	PP		
TARANTO	101.28	51.0			24 11	-5		18 14	PP		
ZAGREB	101.28	45.5						28 1			
BRATISLAVA	102.41	43.2	13 50	0				16 55	PP		
LWIRO	102.77	95.8	13 55	4				13 59	PP		
HURBANOVO	103.10	43.6	18 7	777	25 26	61					
RACIBORZ	103.39	41.4	14 9	15				18 28	PP		

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1960			PAGE 42											
CHORZOW	103.92	41.2	16	11	777							18	15	PP
UPPSALA	104.15	31.3				25	49	79				18	13	PP
BELGRADE	104.26	47.0	14	2A	4							18	17	PP
KRAKOW	104.50	41.6	14	1	2							18	17	PP
SKALNATE PL.	104.61	42.5	14	1K	2							18	18	PP
TIMISOARA	104.90	46.1				24	56	23				17	57	PP
WARSAW	105.38	39.4										18	25	PP
KIRUNA	105.82	23.1	14	7	777	26	8	91				27	49	PS
ATHENS	105.88	54.3							18	42				
SOFIA	106.10	49.4	14	8A	777	25	29	51				18	21	PP
LWOW	107.12	42.0	14	13	777							18	37	PP
NURMI JARVI	107.68	30.8										18	47	PP
PULKOVO	110.55	31.4	14	27	777							18	56	PP
APATITY	110.78	22.9				27	3	125				18	47	PP
KHEYS	111.20	7.4							19	14		19	4	PP
HELWAN	111.34	63.5	14	34	777	26	59	118						
SIMFEROPOL	113.95	47.2	18	30	-2				19	23		21	48	PPP
TANANARIVE	114.20	119.0										19	23	PP
RIVERVIEW	114.49	221.3	14	51	777	25	21	8				19	37	PP
JERUSALEM	114.81	61.7	18	37	4							19	37	PP
CANBERRA	114.85	218.8				25	21	7				19	19	PP
MOSCOW	114.99	35.2	18	28	-5							19	34	PP
TOOLANGI	115.32	214.8										20	39	
MELBOURNE	115.42	214.3										19	34	PP
KSARA	115.44	59.4	14	55	777	26	2	46				19	40	PP
BRISBANE	117.35	227.9				25	32	8				19	51	PP
ADELAIDE	120.89	212.1	18	47	2	25	45	9	19	17		28	53	PKKP
TIKSI	121.58	351.3	18	39	-7									
TIFLIS	122.03	50.0	18	51	4							36	29	
PETROPAVLOVK	123.40	324.3										20	36	PP
GORIS	123.50	52.4										20	29	PP
MAGADAN	124.33	333.7										20	37	PP
SVERDLOVSK	126.48	28.5	18	57	1							20	51	PP
CHARTERS TS.	126.49	230.5	18	57	1							20	52	PP
RABAUL	129.50	251.5	18	42	-19							22	3	
YAKUTSK	129.82	345.1	19	2	0							21	13	PP
PORT MORESBY	131.67	242.5	19	8	3	26	21	14	19	47		21	35	PP
MUNDARING	132.09	192.9	19	8	2							22	31	PKS
PERTH	132.19	192.5	19	8	2							21	38	PP
ASHKABAD	133.01	51.8	19	12	4							22	41	PKS
Y.-SAKHLINSK	135.24	323.5	19	13	1							22	43	PKS
TASHKENT	139.49	42.6	19	13	-7							24	43	
STALINABAD	140.44	46.6	19	14	-8									
GUAM	141.44	272.9	19	26	2									
FRUNSE	141.96	37.1	19	21	-3							32	48	PS
QUETTA	141.98	60.0	19	23	-1				20	8		22	45	PP
TUKUBASAN	142.20	310.6	19	16A	-9							22	29	PP
IRKUTSK	142.80	0.7	19	23	-3							22	33	
KARACHI	143.13	68.5	19	29	3									
MATUSIRO	143.43	312.2	19	23A	-4							22	49	PP
VLADIVOSTOK	143.69	325.9	19	25	-2									
WARSAK DAM	144.41	51.8	19	25	-4									
ABUYAMA	146.11	311.3	19	34A	2									
CHANGCHUN	146.41	332.9	19	35A	3							22	59	PP
ULAN-BATOR	147.12	357.6	19	36	3									
BOMBAY	149.03	78.2	19	40	4							23	14	PP
POONA	150.02	78.8	19	41A	3							23	21	PP
DEHRA DUN	150.95	53.7	19	50	11							23	43	PP
AGRA	152.17	59.9	19	42A	1							23	24	PP
KODAIKANAL	152.77	96.7	19	50	8									
PEKING	153.19	340.7	19	45A	3							23	35	PP
PADTOW	154.11	351.1	19	47A	3									
HYDERABAD	154.43	80.9	19	48	4							23	44	PP
ZO-SE	158.13	320.0	19	52A	3							24	6	PP
LEMBANG	158.17	187.1	19	50	1							24	6	PP
NANKING	158.83	325.8	19	53A	3							24	6	PP
D JAKARTA	158.90	185.2	19	47	-3							24	11	PP
LANCHOW	158.99	2.6	19	54A	4							24	8	PP
CHATRA	159.65	51.7	19	54	3									
BOKARO	159.92	61.1	19	55	4							24	16	PP
SIAN	160.48	350.1	19	54A	2							24	14	PP
LHASA	160.57	39.0	19	57	5							24	20	PP
WUHAN	162.19	331.9	19	57A	4							24	28	PP
CALCUTTA	162.60	62.0	19	59	5							24	12	PP
SHILLONG	163.83	47.3	19	56A	1							24	38	PP
CHENG TU	164.37	3.0	19	59A	4							24	33	PP
MANILA	164.41	270.9	19	58	2							24	40	PP
BAGUIO CITY	164.89	277.5	19	59	3							31	27	
CHITTAGONG	165.55	57.5	20	0	3				20	53		21	0	*SPKP

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MEDAN	167.09	150.7	19 51	-7	
HONG KONG	168.64	311.2	20 4	5	25 9 PP
KUNMING	169.70	11.3	20 3A	4	24 59 PP

JANUARY 16 12.H 30.M 58.S EPICENTRE -20.38-178.30 DEPTH= 558.KM

A=-0.93774 B=-0.02783 C=-0.34623 D=-0.0297 E= 0.9996  
G= 0.3461 H= 0.0103 K=-0.9381 HT= 4.6

DEPTH OF FOCUS= 0.083R

SE= 1.59

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
SUVA	3.80	305.2	1 24	3				
RAOUL ISLAND	8.84	177.8	2 5	-2	3 42	-6		
AFIAMALU	8.96	45.1	2 4K	-4	3 42	-8		
ONERAHI	16.63	201.3	3 29	5	6 20	11		
KARAPIRO	18.28	195.7	3 40	0				
WELLINGTON	21.65	194.3	4 10	-1	7 29	-5		
GEBBIES PASS	24.45	196.0			8 14	-4		
BRISBANE	27.31	249.6	5 0	-2	9 1	-2		
RIVERVIEW	30.19	237.3	5 27A	0	9 46	-2		12 42 SS
CANBERRA	32.34	235.7	5 44K	-1				
RABAUL	32.93	295.3	5 25	-25				10 46
CHARTERS TS.	33.22	264.2	5 52K	0	10 39	5		
PORT MORESBY	35.05	283.0	6 7K	0	11 0	-2		11 17 SCP
MELBOURNE	36.21	233.3	6 16	-1			7 59	
ADELAIDE	40.43	239.7	6 52	1	12 16	-5		15 56 SCS
GUAM	49.52	309.7	9 1	60				
MUNDARING	59.12	244.3	9 7	-2				11 2 PP
MANILA	69.00	295.4	10 10	-1				13 31 PP
SOUTH POLE	69.74	180.0	10 15	0			12 14	10 33 PCP
MATUSIRO	69.95	323.8	10 15K	-2			12 12	
LEMBANG	72.76	269.0	10 32K	-1				
SAN FRANCISCO	78.10	42.1	11 2	0				
BERKELEY	78.28	42.1	11 4A	1				
LICK	78.36	42.8	11 6A	2				
HONG KONG	78.38	299.1	11 5K	1	19 46	-28		
PASADENA	78.83	47.0	11 6	0	20 23	5		
FRESNO	79.21	44.2	11 10A	2				
SHASTA	79.93	39.8	11 11A	-1				
MINERAL	80.19	40.4	11 31A	18				
RENO	80.81	41.9	11 18K	2				
BOULDER CITY	82.10	47.1	11 23	0				
CHANGCHUN	82.13	322.5	11 22K	-1	20 57	5	13 22	
TUCSON	83.07	52.0	11 29	1				
EUREKA	83.23	43.7	10 32	-57				
PEKING	85.61	315.5	11 40K	0	21 30	5		21 10 SKS
COLLEGE	88.16	12.5	11 51	-1	21 41	-8	13 52	
KUNMING	89.04	297.1	11 58K	2	22 6	9		21 35 SKS
CHENG TU	90.19	302.7	12 3	1	22 13	6	14 5	21 39 SKS
YAKUTSK	91.88	338.2	12 9	0				
LANCHOW	92.47	307.5	12 13	1	22 37	11		
RESOLUTE	107.76	16.1			24 40	94		
SODANKYLA	130.43	347.6	18 4	-3				20 39 SKP
MOSCOW	135.66	331.6						20 57 SKP
NURMI JARVI	136.74	343.6	18 7	-12				21 1 SKP
HELSINKI	136.95	343.2	18 11	-8				21 2 SKP
TIFLIS	137.93	310.2						21 5 SKP
UPPSALA	138.96	347.8	18 13K	-10				21 5 SKP
GOTEBORG	141.97	351.1	18 24	-5				
SIMFEROPOL	143.72	320.0	18 31	-1				
COPENHAGEN	143.84	349.7	18 30K	-2				
LWIRO	145.19	232.9	18 38	4				20 52
LWOW	145.68	334.1	18 36K	1				
KSARA	146.92	301.0	18 42A	5				
KRAKOW	147.05	338.2	18 40	3				19 16
RACIBORZ	147.60	340.0	18 42	4				19 11
COLLMBERG	147.89	346.6	18 43K	5			20 55	19 9 PKP2
HALLE	147.92	347.9	18 42	4				19 22
JERUSALEM	147.95	297.6	18 44	6				20 57 PKP2
JENA	148.54	348.0	18 40	1				19 30
PRUHONICE	148.75	343.9	18 45K	6			21 1	
PLAUEN	148.84	347.0	18 42	3				





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1960		PAGE 45									
ULAN-BATOR	53.56	305.3	9 10	1							
TACUBAYA	55.86	117.2	9 30	4						11 34	PP
NURMI JARVI	56.39	2.9	9 29	0	17 10	2	9 56			11 32	PP
PEKING	56.54	293.3	9 31A	0	17 13	3	9 59			10 12	*SP
HELSINKI	56.74	2.8	9 32	0						14 14	
UPPSALA	56.77	7.2	9 31K	-1							
PULKOVO	57.19	359.6	9 35	0							
SVERDLOVSK	57.76	340.4	10 1	22							
GOTEBORG	58.51	11.0	9 36K	-8						10 4	
BERMUDA	59.73	77.7	9 47	-6	17 46	-5				21 47	SS
RATHFARNHAM	60.35	23.9	10 34	37							
COPENHAGEN	60.55	11.0	9 59A	1							
MOSCOW	61.07	354.8	10 3	1	18 2	-6					
ZO-SE	61.99	283.8	10 9	1							
NANKING	62.21	286.3	10 9A	0			10 37			10 51	*SP
KEW	63.12	20.5	10 43A	27							
POTSDAM	63.87	11.2	10 22	2						10 49	
UCCLE	64.46	17.4	10 26	2	18 54	3					
HALLE	64.64	12.1	10 24	-1			11 5			12 55	PP
BENSBERG	64.66	15.5	10 25	-1			10 54				
LANCHOW	64.92	300.5	10 29A	2	19 1	5	10 55				
COLLMBERG	64.94	11.4	10 27	0			10 55			12 42	PP
JENA	65.17	12.4	10 28	-1			11 7			12 44	PP
DOUBES	65.18	17.4	10 30	1						10 58	PCP
PLAUE	65.66	12.1	10 29	-3			10 58			12 59	PP
SONNEBERG	65.68	12.8	10 31	-1			10 59				
FOLINIERE	65.71	21.3	10 32	0							
PARIS	66.14	19.2	10 34	-1			11 3				
PRUHONICE	66.38	10.5	10 37K	0			11 5			12 59	PP
RACIBORZ	66.54	8.0	10 37	-1						11 6	PCP
KRAKOW	66.67	6.8	10 38	0						11 52	PP
STUTTGART	67.06	14.4	10 38	-3			11 8				
LWOW	67.07	3.9	10 42	1							
TUBINGEN	67.28	14.6	10 44	2			11 5				
SKALNATE PL.	67.56	6.6	10 47A	3			11 14				
RAVENSBERG	68.08	14.4	10 50	3			11 16				
BASLE	68.08	15.9	10 40	-7							
BESANCON	68.16	17.1	10 44	-4			11 15				
BRATISLAVA	68.37	8.9	10 49	0			11 16				
CLERMONT-FD.	69.20	19.5	11 23	29							
CHENG TU	69.59	297.7	10 57	1	19 55	3	11 25				
SAN JUAN	71.20	86.5	11 3	-3			11 23				
SIMFEROPOL	71.97	356.6	11 13	2							
TOLEDO	73.66	26.4	11 21	0			11 50				
ANTIGUA	74.21	83.4	11 23	-1							
TIFLIS	74.56	348.2	11 26	0	20 52	4					
KUNMING	75.02	296.1	11 29	1	20 56	2					
WARSAK DAM	77.38	325.3	11 40A	-2							
AFIAMALU	78.79	201.1	11 49	0							
SHILLONG	78.82	305.4	11 49A	0							
LAHORE	78.96	322.2	11 35A	-15							
CHATRA	79.34	309.9	11 54A	2							
RABAU	79.79	238.6	11 32	-23							
TRINIDAD	80.13	86.1	11 55	-1							
CHITTAGONG	81.76	304.1	12 7	2						15 22	PP
KSARA	83.02	354.7	12 13	2			12 45				
JERUSALEM	85.07	355.2	12 23	1			12 52				
PORT MORESBY	86.50	241.2	12 28	-1							
HELWAN	87.07	358.5	12 33	2			13 3				
TAMANRASSET	92.07	22.1	12 55	0			13 24			16 27	PP
HUANCAYO	94.12	108.6	13 5A	1			13 28				
CHARTERS TS.	96.58	237.7	13 15	-1							
MUNDARING	119.53	257.2	18 34	0							
BROKEN HILL	131.14	1.4	18 58	2						22 11	
PORT STANLEY	135.34	117.8	19 4	0							
BULAWAYO	136.80	1.3	19 1	-6							
BYRD STATION	144.25	171.2	19 18	-2							
SOUTH POLE	153.21	180.0	19 32	-2			20 18			21 42	

JANUARY 17 2.H 57.M 52.S EPICENTRE -14.96 -75.20 DEPTH= 75.KM

A= 0.24686 B=-0.93449 C=-0.25651 D=-0.9668 E=-0.2554  
G=-0.0655 H= 0.2480 K=-0.9665 HT= 5.8

DEPTH OF FOCUS= 0.007R





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ABUYAMA	8.22	224.1	2	3K	0		
NARA	8.23	222.1	2	3	-1		
MAGADAN	19.28	12.8	4	20	-9		
YAKUTSK	22.42	344.1	4	56	-6		
ULAN-BATOR	26.17	297.4	5	38	0		
IRKUTSK	28.22	306.5	6	22	25		
SHILLONG	44.44	266.0	8	10K	-4		
COLLEGE	45.31	34.3	8	19	-2		
RABAU	45.84	166.5	7	57	-29		
CHITTAGONG	46.29	262.3	8	10	-19		
CHATRA	47.32	270.6	8	35A	-2		
KHEYS	48.95	347.5	7	49	-61		
SVERDLOVSK	52.79	316.9	8	17	-62		
WARSAK DAM	55.33	287.3	9	36A	-2		
RESOLUTE	58.55	15.2	9	56A	-5		
APATITY	59.44	335.1	10	4A	-3		
THULE	61.22	7.9	10	14	-5		
SODANKYLA	61.66	336.7	10	19	-3		
KIRUNA	63.12	338.9	10	29A	-3		
MOSCOW	64.60	322.8	10	40	-2		
PULKOVO	65.23	328.9	10	43	-3		
CORVALLIS	65.31	51.7	10	57	11		
NURMIJARVI	66.86	331.6	10	53	-3		
HELSINKI	66.98	331.2	10	54	-3		
SHASTA	68.07	54.7	10	49	-15		
SKALSTUGAN	68.54	338.5	11	19	12		
MINERAL	68.76	54.6	11	5A	-3		
TIFLIS	69.07	307.4	11	8	-2		
UPPSALA	69.78	333.8	11	11	-3		
RENO	70.35	54.5	11	26	8		
EUREKA	72.72	52.6	11	29	-3		
GOTEBORG	73.31	334.8	11	32	-3		
LWOW	74.69	323.8	11	41	-2		12 10
KRAKOW	76.30	326.0	11	51	-1		12 14
RAPID CITY	76.78	42.4	11	52	-3		
LARAMIE	77.46	45.7	12	7	8		
COLLMBERG	78.09	330.3	11	59A	-3		12 26
HALLE	78.32	331.0	12	1	-3		
PRUMONICE	78.55	328.7	12	3A	-2		
JENA	78.92	330.8	12	5	-2		12 56
BRATISLAVA	78.94	326.2	12	4	-3	13 24	
PLAUEN	79.06	330.3	12	4	-4		
KSARA	79.53	305.8	12	9	-1		
TUCSON	80.60	55.4	12	26	10		
TUCSON TELE.	80.61	55.2	12	26	10		
JERUSALEM	81.32	304.7	12	18K	-2	12 34	
STUTT GART	81.54	330.8	12	19	-2		
LJUBLJANA	81.69	326.3	12	20	-2		12 35
RATHFARNHAM	82.29	341.7	12	57	32		
PARIS	83.86	334.7	12	30	-3		12 56
KARAPIRO	84.16	154.3	12	41	7		
HELWAN	85.05	305.6	12	37	-2		12 53
FAYETTEVILLE	87.32	42.7	12	46	-4		
BREBEUF	88.01	24.5	13	4K	11		
TAMANRASSET	105.02	319.3					18 20 PP
SOUTH POLE	130.81	180.0	19	23	9		
LA PAZ	144.01	56.3	19	49	11		

JANUARY 18 9.H 4.M 49.S EPICENTRE 5.81 124.89 DEPTH= 0.KM

A=-0.56905 B= 0.81613 C= 0.10054 D= 0.3203 E= 0.5719

G=-0.0575 H= 0.0825 K=-0.9949 HT= 7.0

SE= 3.24

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
MANILA	9.57	337.3	2	35	13	5	7	56				
BAGUIO CITY	11.36	338.5	2	55	9	5	33	38				
HONG KONG	19.39	328.8	4	36K	6	8	4	1				
CANTON	20.47	328.2	4	48	6	8	34	8				
GUAM	20.98	67.3	4	52	5							
LEMBANG	21.32	234.2	4	53A	3	8	54	11				
DJAKARTA	21.60	236.8	4	52	-1	8	48	0				
ZO-SE	25.40	352.6	5	30	0	9	49	-6	5	40		
MEDAN	26.21	266.3	5	37	-1	10	7	-2				
NANKING	26.73	348.4	5	43	0				5	53		

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PORT MORESBY	26.84	124.1	5 44A	0	10 53	34		6 36 PP
RABAU	29.00	109.5	5 43	-20	10 38	-16		
ABUYAMA	30.56	17.4	6 16A	-1				
CHENGTU	31.56	324.1	6 25	-1	11 30	-4	6 34	
SIAN	31.93	334.5	6 29A	0	11 37	-3	6 38	
MATUSIRO	32.93	20.0	6 36A	-2	11 48	-8		
CHARTERS TS.	33.23	141.3	6 41	1	11 55	-5		
PEKING	34.96	348.3	6 54	-1			7 3	
LANCHOW	35.77	330.1	7 3A	1			7 11	
CHITTAGONG	35.92	300.6	6 44	-19				
PAOTOW	37.10	341.1	7 13	0				
VLADIVOSTOK	37.67	8.4	7 14	-4	13 3	-6		
CHANGCHUN	37.87	0.5	7 18	-2				
MUNDARING	38.47	191.9	7 24	-1				7 48
LHASA	39.75	310.7	7 37	1				
CHATRA	41.55	304.5	7 49A	-1				
ADELAIDE	42.61	163.1	8 1	2				8 16
BRISBANE	42.62	142.1	8 2	3	14 23	0		
ULAN-BATOR	44.69	342.8	8 15	-1				
RIVERVIEW	46.61	149.5			15 33	13		18 52 SS
KOUMAC	46.73	125.2	8 33	1				
CANBERRA	46.78	152.7	8 34A	1				
KODAIKANAL	47.12	278.5						19 31
MELBOURNE	47.27	158.3	8 38	2				
AGRA	49.32	301.0	8 57K	5	15 57	-2		
NOUMEA	49.35	125.9	8 53	0				
POONA	51.29	289.0	9 7A	0				
BOMBAY	52.31	289.3	9 23	8	16 36	-4		
LAHORE	53.70	305.1	9 22	-3				
YAKUTSK	56.20	2.7	9 41	-3				
WARSAK DAM	56.67	307.1	9 46A	-1				
KARACHI	58.46	295.5	9 59	-1				
QUETTA	59.49	301.6	10 4A	-3	18 11	-5		12 13 PP
KARAPIRO	64.07	137.2	10 38	0				
CHATEAU	64.73	138.4	10 43	1				
TIKSI	65.79	1.4	10 34	-15				
SVERDLOVSK	71.24	328.5	11 19	-4				
WILKES	72.72	186.0	11 25	-6	20 54	-3		14 19 PP
TIFLIS	78.76	311.2	12 4	-2				
TANANARIVE	79.98	249.7	12 11	-1				
KHEYS	80.60	351.2	12 22	7				
COLLEGE	83.63	25.4	12 29	-2			12 39	
MOSCOW	83.69	325.4	12 28	-4				
APATITY	85.23	337.3	12 45	6				
KSARA	85.98	303.4	12 41	-2				24 26 PS
JERUSALEM	86.70	301.5	12 46K	0				
SODANKYLA	87.86	337.5	12 49	-3				
HELSINKI	89.92	330.5	13 0	-2				
NURMIJARVI	90.00	330.9	12 58	-4				
NORD	90.87	354.8	13 2	-4				
RESOLUTE	96.10	9.9	13 29	-1	24 46	39		
LWIRD	96.28	268.4						17 34 PP
BULAWAYO	97.85	250.5	13 35	-3				
COLLMBERG	98.89	323.9	13 49	6				
BYRD STATION	100.02	170.8	17 48	240				
HUNGRY HORSE	105.53	36.4	14 13	777				
EUREKA	108.14	45.3	18 33	4				29 54 PKKP
PASADENA	108.52	51.2			25 31	25		19 7 PP
TAMANRASSET	114.31	298.0	18 51	10				
PALISADES	130.32	18.7						21 28 PP
SAN JUAN	153.63	24.1	20 11	19				
HUANCAYO	159.10	108.6	20 5	6				20 42 PKP2

JANUARY 18 19.H 30.M 20.S EPICENTRE 9.24 -77.35 DEPTH= 21.KM

A= 0.21622 B=-0.96322 C= 0.15959 D=-0.9757 E=-0.2190  
G= 0.0350 H=-0.1557 K=-0.9872 HT= 6.6

SE= 2.31

	DELTA DEG.	AZ. DEG.	P		O-C S	S		*PP		SUPP.	
			M	S		M	S	M	S	M	S
BALBOA HTS.	2.20	262.8	0	33	-3	0	56	-7			
GALERAZAMBA	2.55	53.1	0	43	2	1	19	7			
CHINCHINA	4.58	157.9	1	9	-1	2	1	-2			
FUQUENE	5.19	136.0	1	17	-1	2	14	-4			



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1960										PAGE 50	
BOGOTA	5.63	144.5	1	24	0	2	26	-3			
CARACAS	10.34	82.2	2	1A	-29	3	55	-32			
SAN SALVADOR	12.42	291.9	2	58	0						
SAN JUAN	14.18	49.0	3	17	-4	5	50	-9			
GRENADA	15.60	78.3	3	37	-3					3	46 PP
TRINIDAD	15.77	83.6	3	38	-4					3	44 PP
ST. VINCENT	16.25	74.6	3	42	-6					3	55 PP
FORT FRANCE	16.75	69.5	3	55	0						
ANTIGUA	17.01	60.9	3	55	-3					4	3 PP
BARBADOS	17.83	75.9	4	11	3						
HUANCAYO	21.25	174.5	4	45	-2	8	47	10			
TACUBAYA	23.43	297.9	5	13	5					5	30 PP
COLUMBIA	24.87	352.7	5	22	0						
BERMUDA	25.84	25.2	5	34	3	10	24	26		8	30 PCP
CHAPEL HILL	26.60	356.9	5	23	-15						
LA PAZ	27.16	160.3	5	41	-2	10	28	9		12	24 SSS
FAYETTEVILLE	30.81	332.7	6	13A	-3				6	25	
ST. LOUIS 1	31.47	340.5	6	20	-2	14	25	177			
FLORISSANT	31.66	340.4	6	22	-2						
PALISADES	31.78	4.9	6	26	1	11	42	9		12	56 PCS
WESTON	33.43	8.1	6	40K	1	12	19	21			
OTTAWA	36.05	1.9	7	2K	0						
BREBEUF	36.27	4.4	7	4K	1				7	27	
HALIFAX	37.20	16.3	7	13K	2						
SHAWINIGAN	37.38	5.2	7	15K	2						
TUCSON TELE.	38.48	311.6	7	20	-2						
TUCSON	38.52	311.4	7	20	-2						
LARAMIE	40.52	326.7	7	38	-1					9	39
RAPID CITY	41.33	331.6	7	45	-1						
BOULDER CITY	43.22	313.9	8	1	0						
SALT LAKE C.	43.80	321.6	8	4	-2					9	0
PASADENA	44.87	309.8	8	12	-2	14	53	3			
EUREKA	45.73	317.6	8	19	-2				8	41	
BOZEMAN	46.40	327.5	8	24	-2						
BUTTE	47.44	326.9	8	38	0						
RENO	48.37	315.7	8	41	-1						
LICK	48.73	312.2	8	47	2						
HUNGRY HORSE	49.68	328.5	8	50	-2						
MINERAL	49.96	315.8	8	52	-2						
CORVALLIS	52.98	320.0	9	21	4						
VICTORIA	54.93	324.2	9	30	-1						
MBOUR	59.19	78.8	10	2	1	18	46	40			
PORT STANLEY	62.98	166.5	10	34	7						
RESOLUTE	66.17	355.0	10	45K	-3	19	30	-4			
THULE	67.33	2.3	10	54	-1						
SIDA	68.47	24.2	11	2	0						
TOLEDO	71.32	51.1	11	18	-2						
GRANADA	71.54	53.9	11	24K	3						
COLLEGE	73.43	335.2	11	29	-3						
FOLINIERE	74.45	42.0	11	38	0						
PARIS	76.42	42.0	11	49	0						
DOURBES	77.81	40.7	11	58	1				12	23	
NEUCHATEL	79.43	43.9	12	4	-2						
BASLE	79.83	43.3	12	6	-2						
TAMANRASSET	79.95	68.4	12	9	0					15	4 PP
STUTTART	80.90	42.0	12	13	-1				12	44	
SKALSTUGAN	81.63	26.9	12	17K	-1						
JENA	82.23	39.7	12	19	-2					12	56
COLMBERG	83.08	39.2	12	25	0					12	56
PRUHONICE	84.22	40.4	11	56	-35					12	48
KIRUNA	84.44	22.2	12	32	0						
UPPSALA	84.58	30.3	12	31	-2						
SODANKYLA	86.85	22.1	12	42	-2						
HELSINKI	88.11	29.3	12	50	0						
BYRD STATION	91.69	186.7	13	4	-3						
SOUTH POLE	99.18	180.0	13	39	-2					17	49 PP
QUETTA	127.90	39.8	19	5	1						
RABAUL	130.60	272.4	18	46	-23						
LAHORE	131.21	32.6	19	11	1					22	37 PKS
SHILLONG	143.84	16.6	19	30K	-3						
MUNDARING	154.12	207.2	19	57	8						

JANUARY 19 2.H 16.M 51.S EPICENTRE 51.53 158.21 DEPTH= 0.KM

A=-0.58008 B= 0.23189 C= 0.78086 D= 0.3712 E= 0.9286

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G=-0.7251 H= 0.2898 K=-0.6247 HT= -6.0

SE= 2.37

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PETROPAVLOVK	1.52	10.1	0	35	7	0	56	7				
KLYUCHI	5.05	17.1	1	25	6	2	31	12				
MAGADAN	9.07	335.4	2	21	6	4	12	13			2	37 *SP
Y.-SAKHLINSK	11.08	252.0	2	50	7	5	3	15				
YAKUTSK	18.65	315.3	4	23	2	7	49	2				
VLADIVOSTOK	19.63	255.0	4	32	-1						8	20
TUKUBASAN	20.03	227.2	4	16K	-21	8	27	9				
MATUSIRO	20.67	231.3	4	45K	1	8	35	5				
ABUYAMA	23.29	233.2	5	12K	2							
TIKSI	24.04	337.6	5	19	2							
COLLEGE	30.35	43.1	6	15	0						7	29 PP
ULAN-BATOR	32.81	284.3									9	22 PCP
KHEYS	41.22	345.8	7	49	1						9	47 PCP
HONG KONG	44.73	246.2	8	16	-1	15	2	8				
RESOLUTE	45.21	21.0	8	21A	1	14	51	-10			10	9
ALBERNI	46.98	60.8	8	35	1							
NORD	47.09	359.0	8	35A	0							
VICTORIA	48.16	60.9	8	44	0							
THULE	48.92	13.1	8	43	-7	15	45	-8			10	9 PCP
CORVALLIS	50.56	65.1	9	3A	1							
SVERDLOVSK	52.63	316.7	9	15	-3							
ALMATA-2	52.70	295.0	9	17	-1							
HUNGRY HORSE	53.27	56.3	9	22	-1							
SHASTA	53.52	68.4	9	25A	1							
UKIAH	54.05	70.3	9	29	1							
MINERAL	54.20	68.2	9	29A	0							
APATITY	54.26	337.1	9	29	-1							
BERKELEY	55.45	70.9	9	38A	0							
BUTTE	55.53	57.7	9	39	0							
RABAU	55.75	187.3	9	18	-23						9	31
RENO	55.77	67.8	9	41A	0							
SODANKYLA	55.97	339.6	9	42	0							
LICK	56.17	71.0	9	44A	0							
BOZEMAN	56.56	57.2	9	47	1							
KIRUNA	56.85	342.3	9	48K	-1							
ANDI JAN	57.17	295.6	9	51	0							
FRESNO	57.64	70.3	9	54A	0							
EUREKA	58.01	65.5	9	57	0						10	15
CHITTAGONG	58.20	266.4	9	57A	-1							
SALT LAKE C.	59.44	61.9	10	7	0						10	40
PASADENA	60.40	71.4	10	12	-1	18	24	-4				
BOULDER CITY	61.08	67.7	10	18	0							
PORT MORESBY	61.43	192.4	10	20	0	18	39	-2	10	32		
RAPID CITY	61.70	54.0	10	22	0							
SKALSTUGAN	62.17	343.5	10	23A	-2						10	49
NURMI JARVI	62.25	336.1	10	25	-1						11	5 PCP
WARSAK DAM	62.30	290.5	10	24A	-2							
MOSCOW	62.35	326.6	10	26	0							
LARAMIE	62.44	57.6	10	27	0							
HELSINKI	62.46	335.7	10	26	-1							
UPPSALA	64.50	339.2	10	39	-2							
TUCSON TELE.	66.06	67.8	10	51	0							
TUCSON	66.06	68.0	10	51	0						11	36
GOTEBORG	67.67	341.2	10	57	-4							
QUETTA	67.75	290.7	11	0A	-1						11	25 PCP
LAWRENCE	69.48	52.9	11	10	-2							
TIFLIS	70.62	313.3	11	19	0						11	34 PCP
LAWRENCE	69.48	52.9	11	10	-2							
TIFLIS	70.62	313.3	11	19	0						11	34 PCP
GORIS	71.67	310.9									27	51 SSS
LWOW	71.77	330.7	11	25	-1							
POONA	72.25	277.5	11	30A	1							
KRAKOW	72.76	333.3	11	32	0						12	6
OTTAWA	72.84	36.6	11	30A	-2							
SHAWINIGAN	72.93	34.1	11	32A	-1							
WITTEVEEN	73.31	342.4	11	37A	2							
COLLMBERG	73.40	338.1	11	35	-1						12	16
HALLE	73.45	338.8	11	36	0						14	31 PP
BREBEUF	73.53	35.2	11	35A	-1							
MUNSTER	73.93	341.6	11	39	0							
JENA	74.07	338.8	11	39	0						12	11
PRUHONICE	74.25	336.6	11	41A	1						11	53 PCP
PLAUEN	74.35	338.3	11	37	-4							

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SONNEBERG	74.67	338.8	11 42	-1			
RATHFARNHAM	74.74	350.4	11 39	-4			
BENSBERG	74.98	341.5	11 45	0			
VIENNA-H.	75.37	334.7	11 47	0			
UCCLE	75.66	343.2	11 48	-1			
KEW	75.78	346.3	11 49	0			
DOURBES	76.29	342.9	11 54	2			
STUTTGART	76.61	339.5	11 55A	1			
TUBINGEN	76.89	339.5	11 56	0			
WESTON	77.06	35.3	11 57K	1	21 42	-3	
STRASBOURG	77.12	340.4	11 57	0			12 13 PCP
EBINGEN	77.24	339.5	11 58	1			
PALISADES	77.28	37.8			22 9	22	
HALIFAX	77.64	29.2	11 59A	-1			
LJUBLJANA	77.89	335.1	12 1	0			12 15 PCP
PARIS	77.91	343.9	12 2A	1			
BASLE	78.16	340.1	12 4A	2			
FOLINIERE	78.43	345.8	12 4	0			
TRIESTE	78.47	335.4	12 5	1			
BRISBANE	78.72	184.9	12 8	2	22 3	0	
NEUCHATEL	78.79	340.4	12 7	1			
CHAPEL HILL	79.52	44.0	12 9	-1			
COLUMBIA	80.26	46.4	12 13	-1			
CLERMONT-FD.	80.73	342.6	12 18	2			
PRATO	80.79	336.6	12 18	1			
KSARA	81.12	314.6	12 15	-3			
MONACO	81.80	339.1	12 23	1			
ROME	82.29	334.9	12 39	14			
ATHENS	82.39	325.3	12 30K	5			
TACUBAYA	82.57	68.3	12 37	11			
ISOLA	82.98	333.5	12 21	-7			
JERUSALEM	83.13	314.0	12 29K	0			
HELWAN	86.49	315.9	12 46A	0			
CANBERRA	86.85	187.5	12 49A	1			
TOLEDO	87.66	346.4	12 51	0			
ADELAIDE	87.81	195.9	13 6	14			
BERMUDA	88.34	35.2	12 54	-1	23 25	-14	
SETIF	89.45	338.3	12 59	-1			
MELBOURNE	89.74	190.4	13 16	15			
TAMANRASSET	102.22	334.3	13 57	-1			18 3 PP
LWIRO	115.26	301.4	18 46	3			19 8
BROKEN HILL	125.49	293.8	19 6A	3			
LA PAZ	129.36	63.8	19 13	2			
BULAWAYO	129.90	289.3	19 12	0			
BYRD STATION	138.96	164.7	19 20	-8			22 59 SKP
SOUTH POLE	141.34	180.0	19 26	-7			23 5 SKP

JANUARY 19 8.H 50.M 22.S EPICENTRE 16.53 -97.66 DEPTH= 0.KM

A=-0.12781 B=-0.95066 C= 0.28267 D=-0.9911 E= 0.1332  
G=-0.0377 H=-0.2802 K=-0.9592 HT= 5.5

SE= 1.60

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C S	M	S	O-C S	M	S	M	S
OAXACA	0.98	59.8				0	42	7			0	26 PG
VERA CRUZ	3.03	28.4	1	2	12	1	53	26			1	12 PG
TACUBAYA	3.21	333.0	0	58K	6	1	42	10				
COMITAN	5.31	92.2	1	26	4						1	50
LEON	5.94	320.9	1	30	-1						2	47
GUADALAJARA	6.78	308.4									2	2
MERIDA	8.79	58.7				3	50	-2			5	44
DALLAS	16.27	2.6	3	50	-1							
LITTLE ROCK	18.79	13.7	4	20	-3	8	36	46				
TUCSON	19.69	325.0	4	34	1	8	32	22			4	57 PF
TUCSON TELE.	19.70	325.4	4	34	1	8	31	21				
LAWRENCE	22.46	4.9	5	0	-2							
COLUMBIA	22.94	37.6	5	5	-1							
ST. LOUIS 1	22.98	15.0	5	8	1	9	20	6				
FLORISSANT	23.09	14.6	5	8	0	9	20	4				
CHINCHINA	24.47	115.5	5	22	1							
BOULDER CITY	24.68	325.0	5	24	1							
PASADENA	25.44	317.4	5	31	0	10	8	12				
CHAPEL HILL	25.44	37.1	5	30	-1							
LARAMIE	25.63	346.1	5	33	1						5	52

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FLUQUENE	25.89	112.4	5 35	0			
BOGOTA	25.99	114.5	5 37	1	10 23	18	
SALT LAKE C.	27.10	335.9	5 46	0			
RAPID CITY	27.87	351.4	5 53	0			
EUREKA	27.90	328.7	5 54	1			
FRESNO	28.13	320.1	6 11	16			
LICK	29.63	319.1	6 9A	0			
RENO	29.98	324.3	6 13A	1			
SAN JUAN	30.12	81.8	6 12	-1			
CARACAS	30.45	97.4	5 47	-29			
BOZEMAN	31.15	341.7	6 23	1			
MINERAL	31.54	323.6	6 25	-1			
PALISADES	31.87	35.3			11 46	7	
BUTTE	31.94	340.2	6 29	0			
SHASTA	32.22	323.4	6 30	-2			
OTTAWA	34.16	28.0	6 49	0			
HUNGRY HORSE	34.46	340.6	6 50	-1			
BREBEUF	35.21	29.8	6 58K	0			
CORVALLIS	35.34	327.7	7 0	1			
HUANCAYO	35.97	140.7	7 4	0			
SHAWINIGAN	36.38	29.3	7 9	2			
HALIFAX	40.06	38.4	6 59	-39			
LA PAZ	43.87	137.0	8 7	-2			
RESOLUTE	58.18	0.9	9 55	-3	17 52	-7	
COLLEGE	58.80	337.5	10 0	-2			
THULE	61.82	7.6	10 22	-1			
TAMARRASSET	95.34	64.5	13 26	-1			

JANUARY 19 9.H 15.M 5.S EPICENTRE -23.41 179.64 DEPTH= 545.KM

A=-0.91863 B= 0.00585 C=-0.39508 D= 0.0064 E= 1.0000  
G= 0.3951 H=-0.0025 K=-0.9186 HT= 3.8

DEPTH OF FOCUS= 0.081R

SE= 2.02

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
SUVA	5.36	347.6	1 34	0	2 50	2						
RAOUL ISLAND	6.21	159.9	1 43	2	3 6	4						
NOUMEA	12.21	272.6	2 42	1	4 54	3						
APIA	12.55	41.9	2 43	-2	4 50	-7						
ONERAHI	13.14	199.2	2 52	1	5 14	6						
KOUMAC	14.52	273.3	3 7	2	5 41	8						
KARAPIRO	14.89	192.7	3 9K	1	5 50	10						
TUAI	15.49	187.3	3 13	-1	5 47	-4						
CHATEAU	16.12	191.5	3 21	1	6 1	-1						
WELLINGTON	18.28	191.8	3 41	0	6 37	-2						
COBB RIVER	18.55	196.6	3 38	-6	6 38	-6						
GEBBIES PASS	21.04	194.2	4 5	-2	7 20	-5						
BRISBANE	24.56	255.1	4 37K	-2							5 58	
RIVERVIEW	26.99	241.0	5 1A	1	9 1	1					11 52	*SS
CANBERRA	29.10	239.0	5 19A	1					6 49			
CHARTERS TS.	31.14	269.6	5 35	-1	10 3	-1						
MELBOURNE	32.90	236.0	5 52A	1	10 37	6			7 26			
PORT MORESBY	34.03	288.7	5 59K	-1	10 45	-4			7 31			
CAPE HALLETT	49.21	183.8			14 32	6			9 45		17 40	*SS
HONOLULU	49.45	27.7	8 0	-2								
KIPAPA	49.59	27.7	8 2	-1								
GUAM	50.08	313.5	8 5	-2								
MUNDARING	56.12	246.3	8 49	-1							10 36	PP
WILKES	60.42	205.7	9 18	-1	16 50	-2			11 5		12 7	PP
BYRD STATION	62.15	170.1	9 30	0					11 21		37 59	PKPPKP
SOUTH POLE	66.73	180.0	9 59	0	18 11	3			11 57			
MANILA	68.63	297.5									18 25	
BAGUIO CITY	69.98	298.8			18 45	-1						
TUKUBASAN	70.09	326.8	10 17	-2					11 36			
MATUSIRO	71.30	325.8	10 24K	-2	18 59	-1					19 34	SCS
ABUYAMA	71.46	322.9	10 26K	-1								
HONG KONG	78.22	300.6	11 5	0	20 15	0						
ARGENTINE I.	79.15	157.4	11 10	1								
CANTON	79.28	300.9	11 10	0	20 26	0						
VLADIVOSTOK	79.44	326.5	11 10	-1								
NANKING	80.14	311.2	11 17	2	20 36	1						
BERKELEY	81.80	42.8	11 23	0	20 54	3						
LICK	81.87	43.5	11 24K	1					13 26			

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PASADENA	82.26	47.8	11 26	1	21	2	6	13	50		
FRESNO	82.70	44.8	11 29K	1							
CHANGCHUN	83.39	323.7	11 32K	1				13	30		
SHASTA	83.47	40.5	11 32K	1							
MINERAL	83.73	41.1	11 33A	0				13	48		
RENO	84.34	42.6	11 37	1							
CORVALLIS	85.38	37.0	11 42	1							
BOULDER CITY	85.56	47.8	11 43	1							
TUCSON	86.43	52.7	11 47	1				13	50		
PEKING	86.55	317.0	11 45	-2	21	36	15			21	17 SKS
TUCSON TELE.	86.55	52.7	11 48	2				13	50		
EUREKA	86.73	44.4	11 47	0				13	51		
SIAN	88.28	308.5	11 55	0							
PORT STANLEY	89.88	148.3	12 3	1							
SALT LAKE C.	90.08	45.0	12 3	0							
CHENG TU	90.23	303.4	12 5K	1	22	13	3	14	4	15	4 *SP
PAOTOW	90.70	314.4	12 16	10							
COLLEGE	91.52	13.3	12 7	-2				14	8	15	49 PP
BUTTE	92.38	40.2	12 13	0							
HUNGRY HORSE	92.77	37.7	12 13	-2							
SHILLONG	97.89	294.3	12 36	-2							
LA PAZ	102.82	114.4	15 27	777						18	25 PP
RESOLUTE	111.20	16.5	17 29	-3	25	9	106				
PALISADES	117.08	54.6								26	11 SKKS
THULE	117.74	14.3	17 43	-1				19	2		
QUETTA	120.29	292.3	17 50	1				20	2		
BULAWAYO	128.31	215.5	18 5	0							
APATITY	131.15	343.5								20	43
WINDHOEK	131.24	201.6								20	45
SODANKYLA	132.93	346.1	18 12	-2						20	50 SKP
BROKEN HILL	132.97	219.7	18 17	3							
KIRUNA	133.75	349.2	18 1	-14						20	52 SKP
MOSCOW	137.33	329.1								21	3
TIFLIS	138.32	307.0								21	8
SKALSTUGAN	138.97	351.4	18 19	-6						21	17 SKP
NURMIJARVI	139.04	341.4	18 16	-9						21	31 PP
HELSINKI	139.22	340.9	18 14	-11				20	44	21	9 SKP
UPPSALA	141.45	345.5	18 23	-7							
LWIRO	141.83	232.0								20	55
GOTEBORG	144.60	348.6	18 32K	-3						21	1
KSARA	146.69	296.3	18 43	5				20	46	22	11 PP
LWOW	147.45	330.2	18 42	3							
JERUSALEM	147.49	292.7	18 43	4							
SKALNATE PL.	149.58	332.9	18 47	5							
RACIBORZ	149.68	336.0	18 48	5				21	1		
RATHFARNHAM	149.82	7.1	18 49	6							
WITTEVEEN	150.15	351.4	18 49	6							
COLLMBERG	150.30	343.0	18 50K	7				20	57	18	57 PKP2
HALLE	150.39	344.3	18 45	1				21	3	22	18 PP
MUNSTER	150.83	349.8	18 51	7							
JENA	151.01	344.3	18 45	0				21	4	21	46
HELWAN	151.01	289.7	18 51	6						21	2
PRUHONICE	151.02	339.9	18 52K	7				21	4		
PLAUE	151.26	343.3	18 45	0				20	56		
BRATISLAVA	151.66	335.0	18 46	0				21	6	19	43 PKP2
BENSBERG	151.88	349.9								21	6
UCCLE	152.42	353.5	18 57	10							
DOORBES	153.08	352.9	19 0	12							
STUTTGART	153.56	345.6	18 49	1				21	8		
TUBINGEN	153.84	345.7	19 13	24							
STRASBOURG	154.07	347.6	18 39	-10							
LJUBLJANA	154.40	335.5	18 52	3				21	11		
PARIS	154.55	355.6								19	17 PKP2
FOLNIERE	154.69	0.2	18 49	-1							
BASLE	155.11	347.1	19 20A	30							
ISOLA	158.96	328.6	19 34	39							
MBOUR	161.92	116.8	19 49	51						29	34 SKKS
TAMANRASSET	174.55	264.5	19 8	1				21	18	24	43 PP

JANUARY 20 3.H 25.M 49.S EPICENTRE 36.56-121.71 DEPTH= 0.KM

A=-0.42321 B=-0.68490 C= 0.59313 D=-0.8507 E= 0.5257  
G=-0.3118 H=-0.5046 K=-0.8051 HT= -0.4

SE= 1.80

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	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
LICK	0.78	4.3	0	16K	-2	0	24	-7				
BRANNER	0.93	336.5	0	20A	0							
SAN FRANCISCO	1.34	334.1	0	25K	-1							
BERKELEY	1.37	341.6	0	26K	-1	0	45	-1				
FRESNO	1.55	81.8	0	28A	-1							
KING RANCH	2.02	127.0	0	38	2							
ISABELLA	2.78	108.0	0	47	0							
UKIAH	2.83	335.5	0	45	-2	1	27	4			1	3
TINEMAHA	2.84	78.9	0	48	0	1	24	1				
FORT TEJON	2.85	125.5	0	47	-1							
RENO	3.33	26.2	0	54	-1							
CHINA LAKE	3.41	101.4	0	56	0							
PASADENA	3.77	128.7	1	1	0	1	52	5				
MINERAL	3.78	1.3	0	59K	-2							
SHASTA	4.16	352.9	1	5K	-1							
RIVERSIDE	4.38	124.7	1	10	1							
ARCATA	4.69	337.5	1	13	-1							
EUREKA	5.39	55.6	1	21	-3							
BOULDER CITY	5.59	93.9	1	26	-1	2	37	4				
BARRETT	5.68	131.5	1	28	0	2	54	19				
CORVALLIS	8.10	351.9	2	4	2							
SALT LAKE C.	8.78	58.4	2	12	1							
TUCSON	9.97	112.4	2	26	-2						2	52
TUCSON TELE.	10.01	111.7	2	27	-1						2	54
BUTTE	11.68	33.2	2	55	4							
HUNGRY HORSE	13.06	23.2	3	9	-1							
LARAMIE	13.40	64.5	3	15	1						4	15
RAPID CITY	15.97	56.3	3	52	4							
DALLAS	20.81	92.9	4	45	-1							
LAWRENCE	21.03	75.4	4	48	0							
FAYETTEVILLE	22.16	83.0	4	59	0							
LITTLE ROCK	23.88	85.5	5	18	2							
FLORISSANT	24.85	75.3	5	28	2							
ST. LOUIS I	24.97	75.7	5	28	1	9	55	6				
COLLEGE	32.32	339.4	6	35	2							
COLUMBIA	33.14	82.2	6	43	3							
RESOLUTE	40.29	10.7	7	40	-1							
THULE	46.39	15.2	8	34	4							
SAN JUAN	51.84	94.8	9	15	3							
BROKEN HILL	145.46	58.2	19	44	4							

JANUARY 21 10.H 42.M 56.S EPICENTRE -15.91-179.26 DEPTH= 112.KM

A=-0.96210 B=-0.01236 C=-0.27243 D=-0.0128 E= 0.9999

G= 0.2724 H= 0.0035 K=-0.9622 HT= 5.6

DEPTH OF FOCUS= 0.012R

SE= 4.28

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
AFIAMALU	7.50	75.6	1	37K	-11	2	37	-35				
RAOUL ISLAND	13.33	174.9	3	4	-2							
ONERAHI	20.58	194.9	4	31	-1						8	41
AUCKLAND	21.53	193.1	4	50	9	8	49	21			11	52
KARAPIRO	22.41	190.8	4	48	-2							
CHATEAU	23.64	190.1	5	2	0							
WELLINGTON	25.80	190.4									6	15 PP
COBB RIVER	26.02	193.9	5	27	3							
BRISBANE	28.31	241.5	5	37	-8	10	15	-7				
GEBBIES PASS	28.54	192.3	5	49	2							
RIVERVIEW	32.06	230.7	6	16K	-2	11	25	4			13	51
CHARTERS TS.	33.01	257.6	6	19	-7	11	36	0				
PORT MORESBY	33.37	277.1	6	22	-7	11	47	6				
CANBERRA	34.31	229.7	6	36	-2	11	28	-28			14	34 SS
MELBOURNE	38.32	228.3	7	10	-1				8	46	13	12 PCS
ADELAIDE	42.05	235.2	7	39	-3						9	32
TUKUBASAN	64.52	324.3				19	8	11			22	11
MATUSIRO	65.82	323.4	10	27K	-8	19	13	1			13	4 PP
BAGUIO CITY	67.48	295.7	12	4	78	20	4	32				
WILKES	67.62	204.2				19	46	13				
BYRD STATION	69.34	170.7	10	55	-2							
VLADIVOSTOK	73.85	325.0	11	32	8							



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ZO-SE	73.85	309.7	11	30	6						
SOUTH POLE	74.19	180.0	11	25	-1				11	42	PCP
HONG KONG	75.43	298.6	11	9	-24				19	32	
BERKELEY	75.63	43.3	11	39	5	21	23	18			
NANKING	76.10	309.5	11	37	0				30	52	
PASADENA	76.50	48.3	11	37	-2	21	31	17			
FRESNO	76.69	45.3	11	38	-2				22	3	
MINERAL	77.43	41.4	11	41	-3						
CHANGCHUN	78.04	322.5	11	53	5						
RENO	78.15	42.9	11	53	5						
EUREKA	80.67	44.5	11	58	4						
TUCSON	81.08	52.9	12	2	-2						
TUCSON TELE.	81.20	52.9	12	3	-2						
PEKING	81.79	315.5	12	10	2	22	23	13			
COLLEGE	84.02	12.9	12	14	-5				14	24	
SALT LAKE C.	84.06	44.8	12	17	-2						
BUTTE	85.99	39.9	12	27	-2						
KUNMING	86.19	297.3	12	28	-2						
HUNGRY HORSE	86.22	37.4	12	32	2						
BOZEMAN	86.78	40.7	12	33	0						
CHENG TU	87.01	302.9	12	35	1						
YAKUTSK	87.41	338.5	12	37	1						
LARAMIE	88.60	46.3	12	44	3						
LANCHOW	89.02	307.9	12	42	-1						
ULAN-BATOR	91.23	319.7	12	54	0						
RAPID CITY	91.25	44.4	12	55	1						
TIKSI	94.01	345.5	13	0	-6						
LAWRENCE	95.30	51.1	13	13	1						
TIFLIS	134.28	313.3							21	34	PP
COLLMBERG	143.35	347.1							22	1	
KSARA	143.70	306.0	19	27	5				23	1	PP
JERUSALEM	144.91	303.0	19	30K	6						
STUTTGART	146.49	349.7	19	28	1						
LWIRO	146.91	239.4	19	32	5						
STRASBOURG	146.91	351.4	19	33	6				20	26	
SOFIA	147.03	328.6	19	32	4						
PARIS	147.16	357.9	18	25	-63						
FOLINIERE	147.22	1.5	19	32	4						
LJUBLJANA	147.81	341.9	19	36	7				19	59	PKP
TRIESTE	148.40	342.5	19	22	-8				19	44	
HELWAN	148.69	301.7	19	33	3				26	16	
ROME	152.19	341.0							21	7	PKP2
GRANADA	158.47	9.5	20	43K	59						
ALGIERS UNI.	159.12	354.8	20	15	31						
SETIF	159.37	349.2	19	52	7				20	16	
TAMANRASSET	171.81	327.3	19	59	4				25	13	PP

JANUARY 22 2.H 14.M 23.S EPICENTRE 42.40 143.05 DEPTH= 71.KM

A=-0.59194 B= 0.44523 C= 0.67184 D= 0.6011 E= 0.7992  
G=-0.5369 H= 0.4038 K=-0.7407 HT= -2.6

DEPTH OF FOCUS= 0.006R

SE= 2.76

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
HIROO	0.23	121.3	0	11A	-2	0	17	-5				
URAKAWA	0.32	218.8	0	12A	-2	0	20	-3				
OBIHIRO	0.53	11.9	0	14K	-2	0	25	-2				
TOMAKOMAI	1.11	282.3	0	23	2	0	39	2				
KUSIRO	1.15	59.4	0	21A	-1	0	36	-2				
SAPPORO	1.42	298.6	0	26K	1	0	44	0				
ASAHI GAWA	1.47	340.3	0	27	1	0	47	2				
MURORAN	1.54	267.7	0	28	1	0	46	-1				
HAKODATE	1.80	251.6	0	31A	1	0	53	0				
MORI	1.87	261.5	0	32K	1	0	56	2				
NEMURO	2.08	62.6	0	35	1	0	58	-1				
SUTTSU	2.12	281.8	0	34	-1	1	1	1				
HATINOHE	2.19	211.9	0	34	-2	0	59	-3				
AOMORI	2.32	227.9	0	37A	-1	1	6	1				
MIYAKO	2.87	196.9	0	46	1	1	13	-6				
MORIOKA	3.05	208.4	0	46A	-2	1	20	-3				
WAKKANAI	3.18	342.3	0	51	2	1	22	-5				
AKITA	3.49	220.8	0	58	4	1	34	0				
MIZUSAWA	3.58	204.7	0	54	-1	1	32	-5				



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BYRD STATION 132.71 166.4 19 10 3

JANUARY 22 13.H 35.M 56.S EPICENTRE -0.19 125.05 DEPTH= 0.KM

A=-0.57427 B= 0.81866 C=-0.00329 D= 0.8187 E= 0.5743  
G= 0.0019 H=-0.0027 K=-1.0000 HT= 7.2

SE= 2.63

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MANILA	15.28	345.3	3	42	4	5	59	-30				
BAGUIO CITY	17.08	345.3	4	5	4							
LEMBANG	18.60	248.9	4	22K	2	7	52	7				
DJAKARTA	19.13	251.5	4	38	11	8	14	17				
PORT MORESBY	23.83	113.2	5	16K	1	9	34	6	5	32		
HONG KONG	24.74	335.3	5	26	2	10	6	22				
CANTON	25.79	334.6	5	34	0							
CHARTERS TS.	28.68	134.9	6	1	1						6	24
MUNDARING	32.69	194.0	6	34K	-2						7	48
KUNMING	33.15	321.0	6	39	-1							
ABUYAMA	36.24	14.7	7	7A	1							
CHENG TU	36.62	328.8	7	10	1							
ADELAIDE	36.88	161.1	7	12	0						8	34 PP
BRISBANE	37.95	137.7	7	21	0						8	51
MATUSIRO	38.53	17.1	7	25A	0	13	24	2			13	15
TUKUBASAN	38.33	19.6	7	26	-2						13	18 PCS
CHITTAGONG	39.37	306.9	7	33	1	13	37	3			9	8 PP
PEKING	40.84	349.6	7	46	1							
SHILLONG	41.02	311.1	7	45A	-1						13	31
LANCHOW	41.10	333.5	7	48	1	13	55	-5				
RIVERVIEW	41.47	146.4	7	51K	1							
CANBERRA	41.48	149.9	7	51K	1							
MELBOURNE	41.72	156.1	7	53K	1						9	49 PCP
KOUMAC	43.36	120.3	8	7	2							
CHANGCHUN	43.83	0.3	8	9	0							
CHATRA	45.27	309.4	8	19	-2							
NOUMEA	45.90	121.5	8	26	0							
KARAPIRO	59.66	135.0	10	8	0							
TONGARIRO	60.23	136.3	10	11	-1							
CHATEAU	60.24	136.3	10	11	-1						10	32
WARSAK DAM	60.51	309.9	10	5	-9							
GEBBIES PASS	60.57	142.1	10	10	-4							
WELLINGTON	60.70	138.7	10	14	-1							
YAKUTSK	62.15	2.5	10	24	-1	13	44	-6				
QUETTA	62.87	304.3	10	27	-3						12	51 PP
TIKSI	71.75	1.3	11	24	-2	20	35	-10				
SVERDLOVSK	76.43	329.3	11	51	-2							
KIPAPA	77.91	68.2	12	2	1							
TANANARIVE	78.11	250.8	12	4	2						12	28
TIFLIS	82.84	312.0	12	28	1							
KHEYS	86.51	351.3	12	45	-1							
MOSCOW	88.70	325.6	12	54	-2							
COLLEGE	88.95	25.2	12	56	-1						16	37 PP
SOUTH POLE	89.81	180.0	13	1	0						13	59
APATITY	90.80	337.4	13	4	-2							
SODANKYLA	93.42	337.4	13	16	-2							
BYRD STATION	94.11	170.9	13	23	2							
HELSINKI	95.18	330.4	13	26	0							
NURMI JARVI	95.28	330.7	13	24	-3							
KIRUNA	95.67	338.3	13	26	-2							
BULAWAYO	95.98	249.8	13	29	-1							
BROKEN HILL	96.33	255.5	13	31K	0							
UPPSALA	98.86	330.8	13	40	-3							
RESOLUTE	101.95	10.0	13	55	-2							
HUNGRY HORSE	110.20	37.6	18	42	9							
TAMANRASSET	117.14	295.5	18	50	3							
GRANADA	120.05	313.9									20	12 PP
FAYETTEVILLE	129.00	41.2									22	27
HUANCAYO	156.40	121.7									20	31 PKP2
LA PAZ	158.93	142.5	20	10	11						20	40 PKP2

JANUARY 23

4.H 40.M 58.S EPICENTRE -4.02 127.53 DEPTH= 0.KM

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A=-0.60771 B= 0.79110 C=-0.06966 D= 0.7930 E= 0.6092  
G= 0.0424 H=-0.0552 K=-0.9976 HT= 7.1

SE= 2.24

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
MANILA	19.64	341.1	4	34	1	8	20	11				
LEMBANG	20.02	261.1	4	37A	0	8	21	3				
PORT MORESBY	20.20	106.3	4	37	-2	8	25	4				
DJAKARTA	20.73	263.2	4	45K	0	8	40	8				
BAGUIO CITY	-21.44	341.5	4	54	2	8	54	8				
CHARTERS TS.	24.25	132.7	5	20	0	9	39	3				
GUAM	24.36	44.3	5	21	0							
RABAU	24.58	91.3	5	1	-22						6	41
TAWU	27.00	346.4	6	4	18	10	51	29				
HONG KONG	29.24	334.0	6	6A	0	10	26	-32			6	45 PP
MUNDARING	29.77	199.6	6	9K	-2	10	37	-30				
MEDAN	29.80	284.3	6	11A	0	11	11	4				
PERTH	29.88	200.2	6	14	2	11	11	3			7	12
CANTON	30.30	333.4	6	17A	2	11	17	2			6	42 *SP
ADELAIDE	32.49	162.7	6	34	-1	11	47	-2			7	26
BRISBANE	33.47	136.6	6	47	4	12	3	-2				
ZO-SE	35.45	350.6	7	1A	1						7	26 *SP
NANKING	36.83	347.6	7	14A	2	12	58	1			7	38 *SP
RIVERVIEW	36.92	146.3	7	12A	-1	13	0	2			15	33 SS
CANBERRA	36.94	150.1	7	13A	0	12	56	-2			15	36 SS
MELBOURNE	37.24	156.9	7	16	1	13	7	4			17	21 SCS
KUNMING	37.67	321.5	7	21A	2	13	11	2	7	39	8	10 PP
PORT BLAIR	37.97	294.6	7	29	8	13	15	1				
KOUMAC	39.34	117.8	7	39	6	13	42	7				
ABUYAMA	39.42	10.4	7	30K	-3							
CHENGTU	41.16	328.5	7	52A	4						8	17 *SP
MATUSIRO	41.57	13.0	7	50A	-1	14	6	-2			9	30 PP
TUKUBASAN	41.72	15.3	7	49A	-3						9	6 PP
NOUMEA	41.83	119.2	7	53	0	14	14	3				
CHITTAGONG	43.66	308.5	8	11A	3	14	48	9			9	59 PP
PEKING	45.06	347.7	8	20A	0	15	0	1			10	4 PP
SHILLONG	45.40	312.3	8	23A	1	15	4	0			10	22 PP
LANCHOW	45.62	332.9	8	25	1	15	7	0			8	56 *SP
VLADIVOSTOK	47.09	4.4	8	36	0							
CHANGCHUN	47.67	357.8	8	39A	-1	15	32	-4				
BOKARO	49.17	306.3	8	51	-1	15	58	1			10	42 PP
CHATRA	49.61	310.6	8	55A	0	16	4	1				
MADRAS	49.97	290.6	8	59	1	16	25	17				
SUVA	51.70	109.9	9	18	7	16	36	4			10	3
KODAIKANAL	51.82	286.3	9	6A	-6	16	33	-1			11	6 PP
Y.-SAKHLINSK	52.56	13.0	9	15	-3							
HYDERABAD	52.91	295.3	9	20A	0	16	47	-2			11	16 PP
AUCKLAND	54.24	133.5				17	13	6				
UGLEGORSK	54.38	11.7	9	32	1	17	10	1				
COBB RIVER	54.76	138.9	9	32	-2							
ULAN-BATOR	54.80	343.1	9	35	1	17	8	-6				
ROXBURGH	55.05	145.1	9	34	-2	17	2	-16			17	50 PS
KARAPIRO	55.22	134.3	9	37	0						11	43
TONGARIRO	55.77	135.7	9	40	-1							
CHATEAU	55.78	135.7	9	40	-1							
GEBBIES PASS	56.05	141.7	9	43	0							
WELLINGTON	56.20	138.2	9	44	0	17	27	-6			12	32
AGRA	56.93	306.0	9	48A	-1	17	42	-1			11	56 PP
POONA	57.41	294.9	9	53A	0	17	51	2			12	6 PP
DEHRA DUN	58.30	309.4	10	0	1	18	3	2			12	30 PP
BOMBAY	58.45	294.9	9	59	-1	17	59	-4			18	14 PS
IRKUTSK	59.44	343.7	10	7	0	18	9	-7				
AFIAMALU	60.60	103.6	10	15	0							
LAHORE	61.70	309.3	10	23A	1	23	45	-5				
PETROPVLOVK	62.59	20.6	10	28	0	18	58	2				
WILKES	63.34	187.6	10	31	-2	19	6	1			23	6 SS
TERRE ADELIE	63.43	173.9	10	34	0	19	6	0				
KARACHI	65.33	299.5	10	45A	-1							
YAKUTSK	65.88	1.1	10	49	-1	19	24	-12				
MAGADAN	66.00	12.7	10	51	0	19	41	3				
QUETTA	67.08	305.0	10	57A	0	19	48	-3			13	27 PP
CAPE HALLETT	73.11	167.5	11	36	2	21	2	0			21	40 SCS
TIKSI	75.51	0.4	11	46	-2	21	22	-6				
HONDLULU	76.97	67.2	11	56	0							
KIPAPA	77.06	67.1	11	57	0							
TANANARIVE	79.24	251.6	12	9	0						12	51

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SVERDLOVSK	80.97	329.2	12	17	-1	22	22	-5	
MAKHACH-KALA	85.44	313.5	12	40	-1	23	6	-6	
SOUTH POLE	86.01	180.0	12	42	-2				14 31
TIFLIS	87.23	312.0	12	50	0	23	21	-8	
BYRD STATION	89.96	170.8	13	2	-1				15 45
KHEYS	90.65	351.2	13	5	-1	23	59	-1	
SOTCHI	91.16	313.4	13	7	-1				
COLLEGE	91.33	25.2	13	7	-2	24	14	7	16 32 PP
KSARA	93.58	303.5	13	13	-6				
SIMFEROPOL	95.23	314.6	13	24	-3				
APATITY	95.26	337.4	13	25	-2	24	0	-3	17 17 PP
BULAWAYO	96.98	249.3	13	33	-2				
PULKOVO	97.09	329.6	13	26	-9				
HELWAN	97.36	299.5	13	36	-1	25	2	48	
SODANKYLA	97.89	337.4	13	38	-1				17 33 PP
LWIRO	98.55	267.1	13	41	-1				26 33 PS
HELSINKI	99.72	330.3	13	55	8				
NURMIJARVI	99.82	330.7	13	42	-6	24	25	-1	
KIRUNA	100.12	338.4				24	30	2	17 57 PP
NORD	100.83	355.0	13	36	-16	24	28	-3	32 2 SS
BUCHAREST	100.97	314.3	13	44K	-9	24	38	6	18 24 PP
WARSAW	103.26	322.7	17	44	777	24	44	1	18 20 PP
UPPSALA	103.39	330.8							18 36 PP
SKALNATE PL.	104.30	319.7	14	2	-6				18 21 PP
KRAKOW	104.34	320.6	17	14	777	25	55	67	18 32 PP
SKALSTUGAN	104.64	335.3	18	24	2				
BELGRADE	104.92	315.2	18	36	13				26 7 SKKS
RESOLUTE	105.24	10.7	14	11A	777	24	52	0	18 36 PP
RACIBORZ	105.43	320.9	14	13	777				17 49
HURBANOVO	105.89	318.7							18 5 PP
BRATISLAVA	106.55	319.1	14	19	777				18 24 PP
THULE	107.13	3.9	14	19	777				29 44 PKKP
PRUHONICE	107.74	321.4	14	17	777	25	7	4	18 58 PP
SHASTA	107.80	48.6	18	32	777				
ZAGREB	107.82	316.9				26	26	83	18 57 PP
POTSDAM	107.95	324.1							18 50 PP
COLLMBERG	108.32	323.0	18	25	777				13 52 PP
MINERAL	108.45	48.8	18	23	777				
LJUBLJANA	108.76	317.4	18	27	777				19 2 PP
HALLE	108.88	323.4	14	28	777				18 50 PP
LICK	108.95	52.0	18	58	777				
CHEB	109.05	321.9				25	6	-2	19 10 PP
JENA	109.28	322.9	14	26	777				18 54 PP
TRIESTE	109.38	317.1	18	31	777	26	46	96	19 6 PP
SONNEBERG	109.68	322.5							19 7 PP
MESSINA	109.70	309.1							19 4 PP
RENO	109.96	49.4	19	15A	777				
ISOLA	110.43	312.0	18	53	19				19 35 PP
FRESNO	110.50	52.3	19	6	32				
ROME	111.20	313.5				25	5	-12	19 24 PP
MUNSTER	111.25	324.9	19	19	43				
STUTTGART	111.38	321.3	18	39	3	27	1	103	19 19 PP
HUNGRY HORSE	111.64	39.1	18	39	2				19 20 PP
BENSBERG	111.89	324.0	19	20	43				
PASADENA	112.29	54.8				24	46	-36	18 39 PP
STRASBOURG	112.39	321.4				27	20	118	19 30 PP
DE BILT	112.59	325.6							19 40 PP
EUREKA	112.87	48.7	18	42	3				
BUTTE	113.36	41.1	18	30	-10				
UCCLE	113.60	324.6				25	25	-2	19 40 PP
DOURBES	113.74	323.8							19 40
ABERDEEN	113.89	332.7							21 45 PPP
BOZEMAN	114.48	41.1	18	45	3				
BOULDER CITY	114.59	52.2	17	44	-58				
DURHAM	114.92	330.3							19 49 PP
PARIS	115.53	323.1	15	15	777				19 51 PP
SALT LAKE C.	115.54	46.4	18	47	3				
KEW	115.93	326.7							19 57 PP
CLERMONT-FD.	116.38	319.9	20	8	82				
SETIF	118.04	309.1	18	49	0				19 59 PP
RATHFARNHAM	118.05	330.6	22	50	241				23 46
TUCSON	118.71	55.3	15	53	777	26	27	41	20 9 PP
TUCSON TELE.	118.78	55.2	18	53	2				20 9 PP
ALGIERS UNI.	119.67	310.4	18	52	0				20 11 PP
RAPID CITY	120.22	40.2	18	55	2				20 33 PP
TAMANRASSET	120.99	294.1	18	55	0				20 14 PP
RELIZANE	121.91	310.0	19	57	60				20 24 PP
TOLEDO	123.64	316.3	19	9	9				20 43 PP
ALMERIA	123.78	312.3	20	19A	79				20 46 PP

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LAWRENCE	127.91	42.1	19 8	0		
FAYETTEVILLE	130.09	44.8	19 9K	-3		22 37
FLORISSANT	131.19	39.6				21 28 PP
ST. LOUIS I	131.37	39.7				21 26 PP
TACUBAYA	131.94	67.5	19 25	9		22 50
LITTLE ROCK	132.04	45.3	19 14	-2		21 35 PP
OTTAWA	134.04	22.8	19 21A	1		
SHAWINIGAN	134.12	19.5	19 19	-1		
BREBEUF	134.74	20.9	19 14	-7		
MORGANTOWN	136.70	31.3	19 28K	3		
PENNSYLVANIA	136.84	28.4	19 27	2		22 59
WESTON	138.27	21.1	19 26	-2		
HALIFAX	138.40	12.0	19 19A	-9		
PALISADES	138.44	24.6	19 22	-6		22 30 PP
WASHINGTON	138.70	29.5	19 30	2		
COLUMBIA	140.06	38.2	19 27	-4		23 12 PKS
MBOUR	143.54	288.8	19 36	-1		22 32 PP
BERMUDA	149.56	20.7	19 48	1		23 24 PP
HUANCAYO	152.22	125.4	19 56A	5		23 44 PP
BALBOA HTS.	152.65	78.3	19 53	2		
LA PAZ	154.40	143.2	19 57A	3	27 10 11	20 28 PKP2
CHINCHINA	156.90	86.8	20 0A	3		
BOGOTA	158.45	87.6	20 4A	5		24 20 PP
SAN JUAN	160.46	42.1	20 5	4		24 32 PP
ANTIGUA	164.05	34.5	20 7	2		
CARACAS	164.28	65.0	19 37K	-28	26 22 -46	
DOMINICA	165.76	37.5				21 6 PKP2
ST. VINCENT	167.42	43.2				21 46 PKP2
TRINIDAD	168.97	52.9	20 11	2		21 21 PKP2

JANUARY 23 6.H 24.M 13.S EPICENTRE -16.77-177.04 DEPTH= 404.KM

A=-0.95670 B=-0.04949 C=-0.28683 D=-0.0517 E= 0.9987  
G= 0.2864 H= 0.0148 K=-0.9580 HT= 5.4

DEPTH OF FOCUS= 0.059R

SE= 2.61

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
SUVA	4.54	251.8	1	19	0	2	25	5				
AFIAMALU	5.82	61.4	1	31K	-1	2	14	-30				
KOUMAC	18.09	255.1	3	54	8	6	56	7				
KARAPIRO	22.06	195.8	4	26	1							
TUAI	22.53	191.9									8	17
CHATEAU	23.26	194.7	4	35	-1	8	55	38				
TONGARIRO	23.27	194.7	4	34	-2						8	26
WELLINGTON	25.42	194.5	4	55	0						9	41
COBB RIVER	25.78	198.0				8	58	0				
BRISBANE	29.82	244.0	5	32	-2	9	54	-7				
RIVERVIEW	33.22	233.2	5	58	-5	10	55	1			15	50 SCS
CHARTERS TS.	34.93	258.8	6	16	-1	11	18	-2				
CANBERRA	35.43	232.0	6	22A	0						8	1 PP
PORT MORESBY	35.60	277.3	6	22	-1	11	28	-2				
MELBOURNE	39.38	230.2	6	55	1	12	23	-3			8	50 PCP
ADELAIDE	43.34	236.6	7	28	2						9	8 PCP
MATUSIRO	67.80	322.2	10	16	-2							
BYRD STATION	68.15	170.9	10	21	1							
LICK	74.91	42.8	11	1A	1							
PASADENA	75.49	47.2	11	4	1							
FRESNO	75.80	44.1	11	6	1							
SHASTA	76.40	39.6	11	14A	6							
MINERAL	76.68	40.3	11	9	-1							
RENO	77.34	41.8	11	15K	2							
CORVALLIS	78.21	36.1	11	19	1							
BOULDER CITY	78.78	47.0	11	10	-11						12	55
EUREKA	79.80	43.5	11	27	1						13	0
TUCSON	79.91	52.0	11	29	2						13	3
TUCSON TELE.	80.04	51.9	11	19	-9						13	2
SALT LAKE C.	83.18	44.0	11	45	1							
COLLEGE	84.39	12.1	11	48	-2						13	22
BUTTE	85.30	39.1	11	54	0							
HUNGRY HORSE	85.62	36.6	11	55	-1							
RAPID CITY	90.38	43.8	11	20	-58							
QUETTA	120.48	295.4	18	7	2							



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SODANKYLA	127.16	348.8	18 17	-1			
SKALSTUGAN	132.80	354.3				21 20	SKP
NURMIJARVI	133.60	345.4	18 29	-1		21 22	SKP
HELSINKI	133.82	344.9	18 30	0		21 24	SKP
BULAWAYO	135.50	215.5	18 18	-15			
BROKEN HILL	140.04	220.5	18 37	-5			
WITTEVEEN	143.92	356.2	18 49K	0			
KRAKOW	144.09	341.3	18 49	0		20 5	
RACIBORZ	144.57	343.0	18 50	0		18 59	
COLLMBERG	144.63	349.1	18 49	-1		19 27	
MUNSTER	144.69	355.0	18 50	0			
SKALNATE PL.	144.75	340.2				18 51	*PPP
KEW	145.29	3.6	18 52	1			
PRUHONICE	145.58	346.7	18 53A	1		20 31	
BENSBERG	145.73	355.3	18 53	1			
KSARA	145.93	306.1	18 56	4			
UCCLE	146.04	358.4	18 47	-5			
DOURBES	146.73	358.1	18 57	4			
VIENNA-H.	146.74	343.6	18 56	3		20 37	PKP2
JERUSALEM	147.17	303.0	18 59	5			
STUTTGART	147.67	352.2	18 55	0		20 38	
TUBINGEN	147.94	352.3	18 59	4		20 40	
FOLINIERE	147.97	4.3	18 56	1			
STRASBOURG	148.04	354.0	18 54	-1			
PARIS	148.05	0.6	19 1	6			
LWIRO	148.25	235.9	19 3	8			
RAVENSBERG	148.60	351.4	18 58	2			
BASLE	149.09	353.9	18 59	2			
LJUBLJANA	149.26	344.2	18 59	2		20 40	19 3 PKP2
BESANCON	149.51	355.9	19 4	7			
BESANCON	149.51	355.9	19 4	7			
TRIESTE	149.83	344.9	19 0	2		20 46	19 5 PKP2
HELWAN	150.96	301.8	19 7	7		20 47	
ATHENS	152.09	323.2	19 9K	8			
ISOLA	154.30	340.6	19 11	7			
SETIF	160.53	354.1	19 13	1		20 54	19 55 PKP2
TAMANRASSET	173.56	338.5	19 24	2			24 46 PP

JANUARY 23 7.H 31.M 17.S EPICENTRE -4.02 127.49 DEPTH= 0.KM

A=-0.60710 B= 0.79157 C=-0.06959 D= 0.7935 E= 0.6086  
G= 0.0424 H=-0.0552 K=-0.9976 HT= 7.1

SE= 2.20

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C		*PP		SUPP.	
			M	S		M	S	M	S	M	S		
MANILA	19.62	341.2	4	34	2	8	20	12					
LEMBANG	19.97	261.1	4	36A	0	8	20	4					
PORT MORESBY	20.24	106.3	4	36	-3	8	24	2					
DJAKARTA	20.69	263.2	4	43A	-1	8	38	7					
BAGUIO CITY	21.42	341.6	4	50	-1	8	47	2					
CHARTERS TS.	24.29	132.7	5	18	-2	9	28	-8					
GUAM	24.39	44.3	5	17	-4								
RBAUL	24.62	91.3	5	0	-23						16	1	
TAWU	26.99	346.5	5	49	4	10	29	8					
HONG KONG	29.22	334.1	6	7A	2	10	54	-3					
MUNDARING	29.75	199.6	6	9K	-1	10	19	-47					
MEDAN	29.76	284.3	6	10K	0	11	11	5					
PERTH	29.86	200.2	6	13	2	11	17	9			11	8	
CANTON	30.28	333.5	6	16A	1	11	14	0					
ADELAIDE	32.51	162.7	6	33	-1	11	47	-2			10	13	
BRISBANE	33.51	136.5	6	42	-1	12	2	-3					
ZO-SE	35.43	350.6	7	0A	1	12	35	0					
NANKING	36.82	347.6	7	12A	1	12	56	0			8	29 PP	
RIVERVIEW	36.95	146.2	7	14K	2	12	58	0			8	38 PP	
CANBERRA	36.96	150.1	7	11A	-1	12	55	-3			15	32 SS	
MELBOURNE	37.26	156.9	7	14	-1	12	59	-4			17	16 SCS	
KUNMING	37.64	321.6	7	19A	1	13	10	2			8	49 PP	
PORT BLAIR	37.93	294.7	7	25	5	13	14	1					
KOUMAC	39.39	117.8	7	40	7	13	38	3					
ABUYAMA	39.42	10.5	7	35K	2								
CHENG TU	41.14	328.5	7	49A	2	14	4	3			9	28 PP	
MATUSIRO	41.57	13.1	7	49A	-2	14	1	-6			9	33 PP	
TUKUBASAN	41.73	15.4	7	51A	-1	13	59	-11			17	37 SCS	
NOUMEA	41.88	119.3	7	53	0	14	8	-4					
SIAN	41.90	336.7	7	53A	0								

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CHITTAGONG	43.62	308.5	8 11A	4	14 42	4		9 54 PP
MIZUSAWA	44.74	15.1	8 18	2	14 55	1		
PEKING	45.05	347.7	8 19A	0	14 57	-1	10 6	
SHILLONG	45.37	312.3	8 22A	1	14 58	-5		10 4 PP
LANCHOW	45.60	332.9	8 24A	1	15 6	0		
CALCUTTA	46.44	306.4	8 33A	3	15 24	6		
VLADIVOSTOK	47.09	4.4	8 35	0	15 27	0		15 37
CHANGCHUN	47.67	357.9	8 39A	-1	15 30	-6		
BOKARO	49.14	306.4	8 49	-2	15 56	0		10 38 PP
CHATRA	49.58	310.6	8 54A	0	16 2	0		
MADRAS	49.93	290.6	8 58	1	16 11	4		
SUVA	51.74	109.9	9 14	3	16 34	2		
KODAIKANAL	51.78	286.3	9 11A	0	16 32	-1		12 19 PP
Y.-SAKHLINSK	52.57	13.1	9 16	-1	16 41	-3		
HYDERABAD	52.87	295.3	9 16	-3	16 44	-4		10 5 PCP
AUCKLAND	54.27	133.4	9 33	3	17 7	0		
ULAN-BATOR	54.78	343.2	9 33	0				
COBB RIVER	54.79	138.9	9 32	-1				
ROXBURGH	55.08	145.1	9 46	10	17 15	-3		11 41 PP
KARAPIRO	55.26	134.3	9 36	-1				19 4 SCS
TONGARIRO	55.80	135.7	9 40	-1				19 8 SCS
CHATEAU	55.81	135.7	9 40	-1				19 5 SCS
GEBBIES PASS	56.08	141.7	9 44	1				
WELLINGTON	56.24	138.2	9 42	-2	17 23	-10		20 53 SS
TUAI	56.77	134.6	9 50	2				
AGRA	56.89	306.0	9 48A	-1	17 41	-1		11 50 PP
POONA	57.37	294.9	9 51A	-1	17 45	-3		12 0 PP
DEHRA DUN	58.27	309.4	9 59	1	17 57	-3		12 5 PP
BOMBAY	58.41	294.9	9 56	-3	17 48	-14		12 8 PP
IRKUTSK	59.42	343.7	10 6A	0	18 18	3		
AFIAMALU	60.65	103.6	10 16	1				
LAHORE	61.68	309.1	10 21A	-1	18 48	4		
WILKES	63.34	187.6	10 31	-2	19 3	-2		22 58 SS
TERRE ADELIE	63.43	173.9	10 37	4	19 8	2		
KARACHI	65.29	299.5	10 44A	-1				13 12 PP
YAKUTSK	65.87	1.2	10 49	0	19 32	-4		13 20 PP
FRUNSE	66.68	320.3	10 54	0	19 46	0		12 38
QUETTA	67.04	305.0	10 55A	-2	19 46	-4		13 24 PP
SEMIPALATNSK	67.67	329.5	10 59	-2	19 54	-4		13 30 PP
STALINABAD	68.72	314.0	11 6	-1	20 13	3		13 41 PP
TASHKENT	69.51	316.9	11 11	-1				13 43 PP
CAPE HALLETT	73.13	167.5			21 1	0		21 33 SCS
TIKSI	75.51	0.5	11 45	-3	21 23	-5		14 40 PP
ASHKABAD	76.22	310.5	11 52K	0				
HONOLULU	77.01	67.2	11 56	0				
KIPAPA	77.10	67.1	11 56	0				
TANANARIVE	79.20	251.6	12 8K	0				12 58
SVERDLOVSK	80.94	329.2	12 16	-1	22 21	-5		
GORIS	85.72	309.9	12 43	1				23 7 SKKS
SOUTH POLE	86.01	180.0	12 41	-2	23 7	-10		15 55 PP
TIFLIS	87.20	312.0	12 49	0	23 30	2		23 15 SKKS
BYRD STATION	89.97	170.8	13 1	-1	23 52	-2		23 29
KHEYS	90.64	351.2	13 5	0				16 40 PP
COLLEGE	91.35	25.2	13 6	-3	24 3	-3		16 44 PP
MOSCOW	93.21	325.5	13 15	-2				17 1 PP
KSARA	93.55	303.5	13 18	-1				17 7 PP
JERUSALEM	94.02	301.5	13 21	0				17 5 PP
SIMFEROPOL	95.20	314.6	13 26A	0				17 17 PP
APATITY	95.24	337.4	13 25	-1	24 37	35		23 52 SKS
BULAWAYO	96.94	249.3	13 34	0				
PULKOVO	97.07	329.6	13 36	1				17 38 PP
HELWAN	97.32	299.5	13 37K	1	25 1	48		
BROKEN HILL	97.71	254.9	13 37	-1				
SODANKYLA	97.87	337.4	13 36	-2				
LWIRO	98.50	267.1	13 38	-3				16 34
HELSINKI	99.69	330.3	13 50	3				
NURMIJARVI	99.79	330.7	13 52	5				17 52 PP
KIRUNA	100.10	338.4			24 21	-6		17 51 PP
NORD	100.82	355.0	13 49	-3	24 13	-18		
BUCHAREST	100.93	314.3	13 53A	1	24 33	2		18 4 PP
LWOW	101.74	320.0	13 55	-1				18 11 PP
SOFIA	103.11	312.8	14 1	-1				18 17 PP
WARSAW	103.23	322.7			24 42	0		18 23 PP
UPPSALA	103.36	330.8			24 36	-7		18 16 PP
SKALNATE PL.	104.27	319.7	14 4	-3				18 19 PP
KRAKOW	104.31	320.6	17 44	777	24 42	-5		18 30 PP
SKALSTUGAN	104.61	335.3						18 26 PP
RESOLUTE	105.25	10.7			24 53	2		18 35 PP

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HURBANOVO	105.86	318.6	14 36	777			
BRATISLAVA	106.52	319.1	14 17	777			18 38 PP
THULE	107.13	3.9	17 39	777			18 34 PP
PRUHONICE	107.71	321.4	14 25	777	24 52	-10	18 47 PP
PRAGUE	107.76	321.5	21 8	777			
ZAGREB	107.79	316.9					18 53 PP
SHASTA	107.83	48.6	18 35	777			
POTSDAM	107.92	324.1	17 47	777			20 58 PPP
COLLMBERG	108.29	323.0	18 27	777			18 57 PP
MINERAL	108.48	48.8	18 55A	777			
LJUBLJANA	108.73	317.4					19 2 PP
HALLE	108.85	323.4	17 54	777			18 51 PP
LICK	108.99	52.0	18 36	777			
CHEB	109.02	321.9			24 55	-13	24 5
TRIESTE	109.35	317.1	18 25	777	25 9	0	19 5 PP
SONNEBERG	109.65	322.4	18 10	777			
MESSINA	109.66	309.1	18 24	777	25 5	-5	19 0 PP
RENO	109.99	49.4	18 42	777			
ISOLA	110.40	312.0	18 42	8			19 38 PP
FRESNO	110.53	52.3	19 8	34			
ROME	111.17	313.5	18 12	-23	26 13	56	19 18 PP
STUTTGART	111.35	321.2	18 37	2			35 8 SS
WITTEVEEN	111.44	325.9					19 19 PP
HUNGRY HORSE	111.67	39.1	18 36	0			19 21 PP
BENSBERG	111.86	324.0					20 31
PASADENA	112.33	54.8	18 39	2	25 23	2	19 25 PP
STRASBOURG	112.36	321.4					19 28 PP
DE BILT	112.56	325.6					19 26 PP
EUREKA	112.90	48.7	14 55	-777			
BUTTE	113.38	41.1	18 29	-10			
UCCLE	113.57	324.6					31 5 PPS
DOURBES	113.71	323.8					19 39 PP
BOZEMAN	114.50	41.1	18 44	2			
BOULDER CITY	114.62	52.2	17 44	-58			
DURHAM	114.90	330.3					19 44 PP
PARIS	115.50	323.1					19 49 PP
SALT LAKE C.	115.57	46.4	18 45	1			
KEW	115.90	326.7					18 52 PP
SETIF	118.00	309.1	18 46	-2			19 55 PP
TUCSON	118.75	55.3	18 52	2			20 7 PP
TUCSON TELE.	118.81	55.2	18 50	0			20 11 PP
ALGIERS UNI.	119.63	310.4	18 51	-1	25 44	-4	20 13 PP
LARAMIE	119.82	44.0	18 39	-13			
RAPID CITY	120.25	40.2	18 54	1			20 22 PP
TAMANRASSET	120.95	294.1	18 55	1	25 49	-4	20 21 PP
RELIZANE	121.88	310.0	18 54	-2			20 8 PP
TOLEDO	123.61	316.2	18 59	0			20 36 PP
ALMERIA	123.74	312.3	18 59K	-1			20 43 PP
LAWRENCE	127.93	42.1	19 4	-4			
FAYETTEVILLE	130.12	44.8	19 11K	-1			22 35 PKS
FLORISSANT	131.21	39.6					22 41 PKS
ST. LOUIS I	131.40	39.7	19 16A	2			21 22 PP
TACUBAYA	131.98	67.5	19 13	-2			22 49
LITTLE ROCK	132.07	45.3	19 16	0			22 48 PKS
OTTAWA	134.06	22.7	19 22	3			
SHAWINIGAN	134.13	19.4	19 21	2			
BREBEUF	134.75	20.9	19 23	2			21 53 PP
MORGANTOWN	136.72	31.3	19 27	3			22 23 PKS
PENNSYLVANIA	136.86	28.4	19 27	3			22 15 PP
WESTON	138.28	21.0	19 34	7			
HALIFAX	138.40	11.9	19 28	1			
PALISADES	138.45	24.6	19 30	3			22 23 PP
WASHINGTON	138.72	29.4	19 28	0			
CHAPEL HILL	139.91	34.3					22 26 PP
COLUMBIA	140.08	38.2	19 33	3			23 9 PP
MBOUR	143.49	288.8	19 30	-6			23 25 PKS
BERMUDA	149.57	20.6	19 43	-3			42 43 SS
HUANCAYO	152.26	125.4	19 55A	5			24 0 PP
BALBOA HTS.	152.69	78.3	19 51	0			
LA PAZ	154.43	143.3	19 55A	2			23 31 PKS
CHINCHINA	156.95	86.8	20 0	3			
BOGOTA	158.50	87.6	20 3	4			20 30 PKP2
SAN JUAN	160.48	42.0	20 3	2			24 28 PP
ANTIGUA	164.07	34.4	20 6	2			
CARACAS	164.32	65.0	19 37K	-28	26 20	-48	
ST. VINCENT	167.45	43.0					21 46 PKP2
TRINIDAD	169.00	52.7	20 10	2			21 20 PKP2

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JANUARY 23 17.H 56.M 33.S EPICENTRE -4.16 127.48 DEPTH= 0.KM

A=-0.60684 B= 0.79156 C=-0.07201 D= 0.7936 E= 0.6084  
G= 0.0438 H=-0.0572 K=-0.9974 HT= 7.1

SE= 3.08

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
MANILA	19.75	341.4	4	33	-1	8	19	8				
LEMBANG	19.94	261.5	4	37A	1	8	22	6				
PORT MORESBY	20.21	105.9	4	36	-3	8	32	11				
DJAKARTA	20.66	263.5	4	40K	-4	8	24	-6				
BAGUIO CITY	21.55	341.7	4	51	-2	8	48	0				
CHARTERS TS.	24.20	132.4	5	17K	-2	9	38	3				
GUAM	24.50	44.1	5	23	1	9	49	9				
RABAUL	24.63	91.0	4	58	-25	9	41	-1			10	55
TAWU	27.12	346.6	5	56	10							
HONG KONG	29.34	334.2	6	6	0	10	59	-1				
MUNDARING	29.62	199.6	6	7	-2	10	38	-26				
PERTH	29.73	200.2	6	19	9	11	13	7				
MEDAN	29.78	284.6	6	11	1	11	13	6				
CANTON	30.39	333.6	6	16A	0							
ADELAIDE	32.38	162.6	6	31	-2	11	52	5			12	49
BRISBANE	33.41	136.4	6	44	2	12	1	-3				
ZO-SE	35.57	350.7	7	6A	5							
RIVERVIEW	36.84	146.1	7	13A	1	12	58	2			7	26 *SP
CANBERRA	36.85	150.0	7	10A	-2	12	54	-3				
NANKING	36.95	347.7	7	14	2	13	5	7			7	43 *SP
MELBOURNE	37.13	156.8	7	13	-1	13	1	0			17	25 SCS
KUNMING	37.74	321.7	7	20A	1	13	16	6			7	56 *SP
PORT BLAIR	37.98	294.8	7	24	3	13	14	0				
KOUMAC	39.33	117.7	7	37	5	13	37	3				
ABUYAMA	39.56	10.5	6	57K	-37							
CHENG TU	41.25	328.6	7	48A	0	14	16	13				
MATUSIRO	41.71	13.0	7	49A	-3	14	3	-7			10	51
NOUMEA	41.82	119.1	7	52	-1	14	4	-7				
TUKUBASAN	41.87	15.4	7	52	-1	14	27	15			17	35 SSS
SIAN	42.02	336.8	7	54	-1						8	27 *SP
CHITTAGONG	43.70	308.6	8	10K	2	14	41	2			9	55 PP
PEKING	45.18	347.7	8	20	0	15	3	3			8	49 *SP
SHILLONG	45.45	312.5	8	21A	-1	14	58	-6			9	27
LANCHOW	45.71	333.0	8	24	0	15	9	1				
VLADIVOSTOK	47.23	4.4	8	36	0							
CHANGCHUN	47.81	357.9	8	42	1	15	40	2				
LHASA	48.46	316.3	8	48A	2	15	49	2				
BOKARO	49.21	306.5	8	52	0	15	58	0				
CHATRA	49.66	310.7	8	54A	-1	16	4	0				
MADRAS	49.97	290.7	8	57	-1	16	11	3				
KODAIKANAL	51.81	286.4	9	0	-12	16	30	-3			20	9 SS
HYDERABAD	52.92	295.4	9	17	-3	16	50	1			11	17 PP
AUCKLAND	54.18	133.4				17	9	3			22	57 SSS
UGLEGORSK	54.52	11.7	9	30	-2							
COBB RIVER	54.69	138.9	9	36	3							
ULAN-BATOR	54.91	343.2	9	34	-1							
ROXBURGH	54.97	145.0	9	52	17	17	27	11			22	27 SSS
KARAPIRO	55.17	134.2	9	36	0							
TONGARIRO	55.71	135.6	9	40	0							
CHATEAU	55.72	135.6	9	40	0							
GEBBIES PASS	55.98	141.6	9	43	1							
WELLINGTON	56.14	138.2	9	46	3						23	51 SSS
TUAI	56.68	134.5	9	49	2							
AGRA	56.96	306.1	9	48A	-1	17	45	2			11	59 PP
POONA	57.42	295.0	9	50A	-3	17	50	1			11	59 PP
DEHRA DUN	58.35	309.5	10	7	8	18	7	6			12	20 PP
BOMBAY	58.46	295.0	9	58	-2	17	58	-5			13	34 PP
IRKUTSK	59.55	343.7	10	6	-1	18	12	-5				
AFIAMALU	60.63	103.5	10	13	-2							
LAHORE	61.75	309.2	10	31	8							
PETROPAVLOVK	62.73	20.6	10	33	4	19	5	8				
WILKES	63.20	187.6	10	48	16	19	8	5			23	14 SS
WARSAK DAM	64.90	310.5	10	43	0							
KARACHI	65.35	299.6	10	45	-1							
YAKUTSK	66.01	1.2	10	48	-2	19	33	-5				
MAGADAN	66.14	12.7	10	51	0	19	42	3				
QUETTA	67.11	305.1	10	56K	-1	19	41	-10			13	22 PP

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SEMIPALATNSK	67.78	329.5	10 58	-4				
TIKSI	75.65	0.5	11 47	-2	21 25	-5		
HONOLULU	77.07	67.2	11 57	0				
KIPAPA	77.17	67.1	11 58	1				
TANANARIVE	79.14	251.6	12 8	0			12 29	
SVERDLOVSK	81.06	329.2	12 16	-2	22 21	-6		
SOUTH POLE	85.87	180.0	12 40	-3			16 13 PP	
TIFLIS	87.28	312.0	12 49	-1			23 22 SKKS	
BYRD STATION	89.83	170.8	13 1	-1				
KHEYS	90.78	351.2	13 7	1			25 20 PS	
COLLEGE	91.48	25.2	13 6	-3			16 48 PP	
MOSCOW	93.32	325.5	13 19	1			24 4 SKKS	
KSARA	93.61	303.5	13 23	4	22 32	-114	24 59 PPS	
SIMFEROPOL	95.29	314.6	13 32	5	24 5	2		
APATITY	95.37	337.4	13 27	0	23 43	-20	17 43 PP	
BULAWAYO	96.88	249.2	13 27	-7				
PULKOVO	97.18	329.6			24 9	-4	17 40 PP	
HELWAN	97.38	299.4					17 31 PP	
BROKEN HILL	97.67	254.9	13 40	2				
LWIRO	98.48	267.1	13 41	0			17 34	
IASI	99.77	317.0	14 5	18				
KIRUNA	100.23	338.4			24 32	4	32 26 SS	
LWOW	101.83	319.9	13 59	2	25 40	64		
ATHENS	103.39	307.9					18 5 PP	
UPPSALA	103.48	330.8			24 48	5	18 12 PP	
SKALNATE PL.	104.37	319.7	14 7	-1				
KRAKOW	104.41	320.6			25 57	69	18 47 PP	
SKALSTUGAN	104.74	335.3	14 9	0			18 48 PP	
BELGRADE	104.98	315.2			24 34	-17	18 51 PP	
RESOLUTE	105.39	10.7	14 11	777	24 53	1	18 35 PP	
RACIBORZ	105.50	320.9					18 45 PP	
THULE	107.26	3.9	14 20	777			29 46 PKKP	
PRUHONICE	107.81	321.4	14 38	777			18 49 PP	
PRAGUE	107.86	321.5					29 11 PPS	
ZAGREB	107.88	316.9					18 46 PP	
SHASTA	107.93	48.6	14 36	777			18 13 PKP	
POTSDAM	108.03	324.1					18 50 PP	
LJUBLJANA	108.82	317.3					18 57 PP	
HALLE	108.96	323.4	14 35	777			19 1 PP	
LICK	109.08	52.0	14 45	777			18 39	
JENA	109.35	322.9	18 19	777			18 52 PP	
TRIESTE	109.44	317.1	19 4	777				
MESSINA	109.74	309.1	18 54	777	25 4	-7	19 14 PP	
SONNEBERG	109.76	322.4					19 16 PP	
RENO	110.09	49.4	19 9	36				
ISOLA	110.48	312.0	18 45	11			19 46 PP	
FRESNO	110.63	52.3	19 13	39				
ROME	111.26	313.4	18 51	15	25 25	8		
STUTTGART	111.46	321.2	18 23	-13	27 8	110	19 16 PP	
WITTEVEEN	111.55	325.9					19 27 PP	
HUNGRY HORSE	111.78	39.1	18 37	0			29 32 PKKP	
PASADENA	112.42	54.8	18 42	4	25 35	13	19 50 PP	
STRASBOURG	112.46	321.4					29 7 PS	
DE BILT	112.67	325.6					19 39 PP	
EUREKA	113.00	48.8	18 40	1			19 29 PP	
BUTTE	113.50	41.2	18 31	-9				
UCCLE	113.67	324.5	18 48	8				
DOURBES	113.81	323.8					19 41 PP	
BOZEMAN	114.61	41.1	18 43	1				
BOULDER CITY	114.72	52.2	17 44	-58				
DURHAM	115.01	330.2					19 56 PP	
SALT LAKE C.	115.68	46.5	18 45	1				
SETIF	118.08	309.0	18 49	0			19 57 PP	
TUCSON	118.83	55.4	18 54	4			29 47 PS	
TUCSON TELE.	118.90	55.3	18 54	4			22 41 PKS	
ALGIERS UNI.	119.72	310.3	18 41	-11			20 17 PP	
LARAMIE	119.93	44.0	18 55	3				
TAMANRASSET	120.99	294.0	18 55	0			20 26 PP	
RELIZANE	121.96	310.0	19 1	5			20 24 PP	
TOLEDO	123.70	316.2	19 3	3			20 40 PP	
ALMERIA	123.83	312.2	19 1K	1			20 43 PP	
FAYETTEVILLE	130.22	44.8	19 14	2			21 41 PKS	
ST. LOUIS I	131.51	39.8	19 18	3				
TACUBAYA	132.05	67.6	19 15	-1			23 7	
LITTLE ROCK	132.18	45.3	19 15	-1				
OTTAWA	134.19	22.8	19 22	2				
SHAWINIGAN	134.26	19.5	19 24	4				
BREBEUF	134.88	20.9	19 22	1			21 59 PP	

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PENNSYLVANIA	136.99	28.4	19 26K	1							22 14 PP
WESTON	138.42	21.1	19 32	4							
HALIFAX	138.54	12.0	19 20	-8							
PALISADES	138.58	24.7	19 31	3							23 17 PKS
WASHINGTON	138.85	29.5	19 28	0							
SANTA LUCIA	138.86	156.7	19 38	10							36 2 SS
COLUMBIA	140.20	38.3	19 32	1							
MBOUR	143.53	288.6	19 42	6							23 27 PKS
BERMUDA	149.70	20.7	19 50	3							
HUANCAYO	152.19	125.6	19 57A	6							22 56 PP
BALBOA HTS.	152.73	78.6	19 56	5							
LA PAZ	154.32	143.4	19 59	5							20 46 PKP2
CHINCHINA	156.96	87.1	20 0	3							
BOGOTA	158.51	88.0	20 5A	6							20 48 PKP2
FUQUENE	158.83	85.6	19 56	-3	26 42	-21					23 27 SKP
SAN JUAN	160.59	42.2	20 7	6							23 52 PP
CARACAS	164.39	65.4	19 42K	-23							28 47
TRINIDAD	169.09	53.3	20 10	1							21 21 PKP2

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	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
SUVA	3.12	224.4	0	46	-5							
AFIAMALU	7.51	75.6	1	53K	0							
PORT VILA	12.02	259.6	2	59	4	5	16	5				
NOUMEA	14.91	242.6	3	34	1	6	30	10				
KOUMAC	16.29	251.1	3	56	5	6	57	4				
ONERAHI	20.57	194.9	4	45	3	8	47	19				
KARAPIRO	22.40	190.8	5	1	0							
CHATEAU	23.64	190.1	5	13	0							
TONGARIRO	23.64	190.1	5	13	0							
WELLINGTON	25.79	190.4	5	37	3							
BRISBANE	28.30	241.5	5	53	-4	10	27	-16				
GEBBIES PASS	28.53	192.3	5	56	-3							
ROXBURGH	30.99	195.7	6	23	2	11	15	-10			7 15 PP	
RIVERVIEW	32.05	230.7	6	38A	8	11	46	4			7 42 PP	
CHARTERS TS.	33.01	257.6	6	35	-3	11	55	-2				
PORT MORESBY	33.36	277.1	6	38	-4	12	3	1			8 1 PP	
CANBERRA	34.30	229.7	6	48A	-2	12	20	3			8 3 PP	
MELBOURNE	38.31	228.3	7	22	-2	13	21	3			9 39 PCP	
ADELAIDE	42.04	235.2	7	53	-1	14	15	1			8 19	
HAWAII V.OB.	42.32	34.8	7	58	1	14	30	12				
HONOLULU	42.42	30.0	7	57	0	14	27	7				
CAPE HALLETT	56.72	183.8				17	51	12			20 46 SS	
TERRE ADELIE	56.98	197.4	10	24	35	19	59	136				
MUNDARING	60.30	242.0	10	14	2							
PERTH	60.63	242.1									25 28	
TUKUBASAN	64.52	324.3	10	37A	-3	19	22	3			14 44 PPP	
MATUSIRO	65.82	323.4	10	46K	-3	19	32	-3			14 50 PPP	
MANILA	66.30	294.2	10	50	-2	19	50	9				
BAGUIO CITY	67.48	295.7	10	58	-1	19	58	3				
WILKES	67.61	204.2	10	24	-36	19	59	2			24 23 SS	
BYRD STATION	69.33	170.7	11	5	-6							
PETROPAVLOV K	71.25	346.1	11	21	-2							
Y.-SAKHLINSK	71.34	333.6	11	21	-2						20 45	
LEMBANG	71.95	267.9	11	28A	1	20	52	4				
DJAKARTA	72.87	268.3	11	30K	-2	20	58	0				
ZO-SE	73.85	309.7	11	41	3	21	21	12				
VLADIVOSTOK	73.85	325.0	11	37	-1						14 33 PP	
SOUTH POLE	74.18	180.0	11	39	-1						18 27	
HONG KONG	75.42	298.6	11	51	4	21	35	8				
SAN FRANCISCO	75.46	43.3	11	47	0							
BERKELEY	75.64	43.3	11	48A	0	21	33	4			22 11 SCS	
UKIAH	75.72	41.7	11	48	-1							
LICK	75.76	44.0	11	49A	0							
NANKING	76.10	309.5	11	54	3	21	56	22				
CANTON	76.45	299.0	11	56	3	21	48	10				
PASADENA	76.51	48.3	11	54	1	21	43	4			26 25 SS	
FRESNO	76.70	45.3	11	55	1							
SHASTA	77.14	40.8	11	18K	-39							
MINERAL	77.44	41.4	11	58K	0							



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CHANGCHUN	78.04	322.5	12 2	0	22 1	6						
RENO	78.16	42.9	12 3K	1								
CORVALLIS	78.81	37.1	12 9	3								
MAGADAN	79.04	345.0	12 5	-2	22 1	-5						
BOULDER CITY	79.79	48.0	12 13	2								
EUREKA	80.68	44.5	12 16	0								
VICTORIA	81.05	33.8	12 18	0	22 41	14						
TUCSON	81.09	52.9	12 20	2	21 11	-76	12 47		15 29	PP		
TUCSON TELE.	81.22	52.9	12 20	1			12 44					
PEKING	81.79	315.5	12 22A	0	22 42	7			15 35	PP		
MEDAN	83.34	275.6	12 29	-1	22 54	4						
COLLEGE	84.03	12.9	12 31	-2	22 55	-2			16 39			
SALT LAKE C.	84.07	44.8	12 34	1								
SIAN	84.48	307.8	12 39	4								
BUTTE	86.00	39.9	12 42	-1								
KUNMING	86.19	297.3	12 47	3	23 29	11						
HUNGRY HORSE	86.23	37.4	12 44	0								
BOZEMAN	86.79	40.7	12 47	0								
CHENG TU	87.01	302.9	12 48	0								
YAKUTSK	87.41	338.5	12 47	-3	23 19	-11						
LARAMIE	88.61	46.3	12 57	1								
LANCHOW	89.02	307.9	12 58	0								
ULAN-BATOR	91.23	319.7	13 7	-1								
PORT BLAIR	91.26	281.7	14 0	52	23 46	-19						
RAPID CITY	91.26	44.4	13 8	0								
TIKSI	94.02	345.5	13 19	-2					17 9	PP		
IRKUTSK	94.36	323.2	13 21	-1					17 8	PP		
CHITTAGONG	94.94	291.7	13 41	16								
LAWRENCE	95.31	51.1	13 27	0								
FAYETTEVILLE	95.34	54.1	13 27K	0	24 12	10						
SHILLONG	95.72	294.8	13 27K	-2	24 7	2			17 19	PP		
SANTA LUCIA	96.17	127.2	13 33	2	24 10	3						
LITTLE ROCK	96.44	55.8	13 34	2								
FLORISSANT	98.96	52.3			24 30	8			25 18	S		
ST. LOUIS 1	99.03	52.5	13 45	2	24 25	3			25 18	S		
HUANCAYO	99.80	105.5							17 53	PP		
CHATRA	100.12	295.0							17 51	PP		
BOKARO	100.67	291.8			24 31	1			18 03	PP		
RESOLUTE	103.75	15.8	14 1	-4	24 41	-3			25 47	S		
CHINCHINA	104.46	88.9							18 30	PP		
LA PAZ	104.83	112.2							18 33	PP		
COLUMBIA	105.44	58.5	18 32	777								
BOGOTA	105.86	89.7							28 21	PPS		
FUQUENE	106.41	88.9							18 42	PP		
DEHRA DUN	108.63	297.1	18 37	777					26 9			
THULE	110.25	13.6	18 28	-5								
POONA	110.56	284.1	18 57	23								
KHEYS	110.74	351.5			25 14	-1			28 38	PS		
BOMBAY	111.58	284.3	19 11	35					29 7			
PALISADES	111.78	51.8							19 35	PP		
FRUNSE	112.39	310.1							19 22	PP		
NORD	113.87	2.8							19 34	PP		
CARACAS	114.15	85.5	17 25	-76	24 40	-48						
TASHKENT	116.38	308.5							19 49	PP		
STALINABAD	116.82	305.4							19 47	PP		
QUETTA	118.18	296.0	18 53	4					20 41	PP		
SVERDLOVSK	119.53	326.9							20 5	PP		
APATITY	124.24	345.5			25 36	-27			20 24	PP		
ASHKABAD	125.04	305.4							20 55	PP		
SODANKYLA	125.89	348.0	19 3	-1								
KIRUNA	126.58	350.8							31 2	PS		
MOSCOW	131.30	333.1	19 13	-1					22 47	PKS		
TIFLIS	134.28	313.3	19 25	5					22 56	SKP		
UPPSALA	134.43	348.1							21 50	PP		
BULAWAYO	134.89	218.3	19 22	1								
BROKEN HILL	139.23	223.7	19 23	-6								
SIMFEROPOL	139.67	322.9							22 32	PP		
WARSAW	140.35	340.5	19 30	-1					27 18			
LWOW	141.26	335.8	19 49	17					22 29	PP		
POTSDAM	142.33	347.6	19 45	11					23 2	PP		
RACIBORZ	143.10	341.2	19 34	-1								
SKALNATE PL.	143.20	338.5	19 31	-5					22 27	PP		
COLLMBERG	143.36	347.1	19 32	-4	26 45	1			22 40	PP		
HALLE	143.38	348.2	19 31	-5	26 32	-12			22 23	PP		
KSARA	143.70	305.9	19 37	1	26 48	4			22 46	PP		
DE BILT	143.73	355.4	20 15	39					22 51	PP		
JENA	144.00	348.3	19 36	-1					22 55	PP		
PRAGUE	144.17	344.9							41 44	SS		

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PRUHONICE	144.22	344.7	19 36A	-1					29 41 SKKS
PLAUEN	144.30	347.5	19 36	-1					
BUCHAREST	144.40	328.2	20 5	27					23 58 PP
KEW	144.52	1.1							41 46 SS
SONNEBERG	144.60	348.4	19 36	-2					
CHEB	144.64	347.0	19 31	-7					29 32 SKKS
BENSBERG	144.66	353.0	19 41	3					23 33
JERUSALEM	144.91	303.0	19 39K	0	26 21	-25			
UCCLE	145.08	356.0							
TIMISOARA	145.65	334.2	19 29	-10	26 36	-11			
DOURBES	145.76	355.6							20 53
STUTTGART	146.50	349.7	19 41	1					
BELGRADE	146.72	334.0	19 42	1					23 8 PP
			19 43K	1					21 24
TUBINGEN	146.76	349.9	19 43	1					
LWIRO	146.90	239.4	19 51	9					33 37
STRASBOURG	146.92	351.4	19 44	2					23 9 PP
SOFIA	147.03	328.6	19 46	4					23 30 PP
EBINGEN	147.12	349.8	19 44	2					
PARIS	147.17	357.9	19 37	-5					23 31 PP
FOLINIÈRE	147.22	1.5	19 45	3					
RAVENSBURG	147.39	348.8	19 42	-1					20 40
ZAGREB	147.56	339.9	19 50A	7					
LJUBLJANA	147.82	341.8	19 45	2					20 2 PKP2
BASLE	147.97	351.2	19 56	12					
TRIESTE	148.41	342.4	19 44	0					19 51 PKP2
BESANCON	148.46	353.2	19 50	6					
HELWAN	148.69	301.7	19 49	4					36 27
ATHENS	150.11	321.7							19 57 PKP2
CLERMONT-FD.	150.17	356.6	21 4	77					24 32 PKS
MONACO	151.70	349.7	20 1	12					
ROME	152.20	341.0	19 51	1					23 23 PKS
ISOLA	152.74	337.8	19 56	5					
MESSINA	154.25	332.4	20 13	20	26 56	-2			27 22 PPP
TOLEDO	155.76	9.0	20 16	21	26 48	-12			41 58 SS
ALICANTE	157.63	2.5	19 55	-3	27 0	-2			24 9 PP
GRANADA	158.48	9.5	20 28A	29	28 3	60			25 18 PP
ALGIERS UNI.	159.13	354.8	19 57	-2					24 32 PP
SETIF	159.37	349.2	20 1	1					24 25 PP
RELIZANE	160.25	0.4	20 6	5					24 42 PP
MBOUR	162.85	92.8	20 15	12	27 0	-7			
TAMANRASSET	171.81	327.2	20 9	-1					25 19 PP

JANUARY 25 16.H 29.M 31.S EPICENTRE -15.69-179.50 DEPTH= 0.KM

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G= 0.2687 H= 0.0023 K=-0.9632 HT= 5.6

SE= 2.51

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C S	M	S	O-C S	M	S	M	S
SUVA	3.15	218.6	0	51	0							
AFIAMALU	7.68	77.7	1	53	-2							
RAOUL ISLAND	13.58	174.1				5	25	-24				
NOUMEA	14.82	241.5	3	37	5	6	41	23				
KOUMAC	16.16	250.1	3	53	3	7	14	24				
ONERAHI	20.74	194.2	4	45	1	8	50	18			5 28 PP	
KARAPIRO	22.59	190.2	5	4	1						5 54 PP	
CHATEAU	23.82	189.6	5	19	4						6 14	
BRISBANE	28.22	241.0	5	53	-3						8 56 PCP	
GEBBIES PASS	28.71	191.9	5	58	-3							
RBAUL	30.10	289.3	5	54	-19							
ROXBURGH	31.15	195.3				11	25	-3				
RIVERVIEW	32.03	230.3	6	26K	-4	11	38	-4				
CHARTERS TS.	32.84	257.2	6	31	-6						7 59	
PORT MORESBY	33.11	276.9	6	36	-3	12	3	4				
CANBERRA	34.28	229.3	6	51	1						14 47 SS	
MELBOURNE	38.29	227.9	7	23	0							
ADELAIDE	41.99	234.9	7	53	-1							
TUKUBASAN	64.21	324.4	10	16	-22	18	56	-19			10 50 PCP	
MATUSIRO	65.50	323.5	10	46	-1	19	33	2			11 37	
WILKES	67.73	204.2				20	17	19				
BYRD STATION	69.60	170.7	11	10	-3							
LEMBANG	71.74	267.9	11	24K	-2							
ZO-SE	73.53	309.7	11	35	-1	21	12	6				
SOUTH POLE	74.41	180.0	11	40	-1						13 50	



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PARIS	66.70	12.1	11 56	61		
TRIESTE	66.88	21.1	11 0	4		
LJUBLJANA	67.50	21.4	10 57	-3		
JERUSALEM	67.56	44.6	11 2	2		
STRASBOURG	67.70	15.7	10 37	-24	11 25	
STUTTGART	68.28	16.6	11 3	-2	14 40	
SOFIA	68.34	29.0	11 2	-3		
DOURBES	68.37	13.0	11 6	1		
BELGRADE	68.75	25.9	11 8K	0		
KSARA	69.25	43.2	11 11	0		
BENSBERG	69.75	14.4	11 16	2		
BRATISLAVA	70.23	21.8	11 18	1	11 25	PCP
SONNEBERG	70.27	17.1	11 23	6		
PLAUEN	70.65	17.6	11 15	-4		
JENA	70.87	17.1	11 21	0	13 59	
PRUHONICE	70.92	19.3	11 19	-2	12 20	
LEIPZIG	71.46	17.4	11 25	1	14 7	
HALLE	71.49	17.0	11 19	-5		
COLLMBERG	71.61	17.7	11 25	0	14 7	
SKALNATE PL.	72.22	23.1	11 26	-3	11 32	PCP
RACIBORZ	72.23	21.4	11 29	0		
POTSDAM	72.59	17.2	11 30	-1		
LWOW	74.21	24.7	11 41	1		
BYRD STATION	76.48	190.0	11 53	0		
GOTEBORG	77.07	14.2	11 53	-4		
PALISADES	79.38	318.4			22 21	11 27 23 SS
UPPSALA	80.36	15.8	12 14K	0		
COLUMBIA	80.82	309.4	12 18	1		
SKALSTUGAN	82.44	11.7	12 25	0		
OTTAWA	82.84	321.5	12 27K	0		
NURMI JARVI	82.89	18.3	12 29	1		
MOSCOW	84.17	26.6	12 34	0		
SCORESBY SD.	86.88	357.5	12 51	3		
SODANKYLA	88.84	14.7	12 57	0		
KARACHI	89.31	64.0	13 4	5		
ST. LOUIS 1	89.49	310.6	13 0	0		
LITTLE ROCK	89.71	306.4	13 1	0		
QUETTA	90.92	58.9	13 8	1		
FAYETTEVILLE	91.57	307.1	13 9	-1		
PORT MORESBY	148.48	143.3	19 48	3		

JANUARY 26 9.H 52.M 10.S EPICENTRE 40.14 38.73 DEPTH= 0.KM

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G= 0.5009 H= 0.4018 K=-0.7666 HT= -1.7

SE= 3.04

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ZUGDIDI	3.36	43.9	0	53	-2	1	38	2				
ABASTUMANJ	3.49	61.3	0	58	1	1	46	6				
SOTCHI	3.51	11.8	0	57	0	1	39	-1				
GEGECHKORI	3.52	50.1	0	56	-1	1	43	3				
KRASNAYA	3.69	16.8	0	58	-2	1	42	-3				
AKHALKALAKI	3.82	69.2	1	1	-1							
BOGDANOVKA	3.87	71.5	1	4	2	1	57	8				
BORZHOMI	3.90	62.9	1	2	-1	1	54	4				
LENINAKAN	3.95	79.1	1	4	1	1	57	6				
BAKURIANA	3.96	64.8	1	4	0	1	58	7				
STEPANAVAN	4.38	76.9	1	9	-1	2	6	4				
EREVAN	4.42	87.6	1	12	2	2	12	9				
GORI	4.47	64.0	1	10	-1						2	23
TIFLIS	4.86	69.1	1	18	2							
DUZHETI	4.91	64.8	1	17	0						2	0
NAKHICHEVAN	5.23	98.2	1	23	1							
THEODOSIA	5.47	334.2	1	23	-2	2	29	0				
YALTA	5.51	323.7	1	26	0							
KIROVOBAD	5.82	82.5	1	32	2							
GORIS	5.88	93.8	1	34	3						3	6
SIMFEROPOL	5.89	326.2	1	29	-2	2	36	-4				
GROZNY	6.13	56.5	1	34	0							
KSARA	6.71	200.8	1	41	-1	2	57	-4			2	11 PG
SHEMAKHA	7.57	83.1	1	58	3						4	26
LENKORAN	7.93	96.7	2	12	12						4	20
JERUSALEM	8.82	199.9	2	12	0	3	43	-10				

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BUCHAREST	10.29	298.7	3 0	28					4 58
IASI	10.72	314.8	2 37	-1					2 56
SOFIA	11.85	287.5	2 55	2	4 54	-14			3 10 PPP
ATHENS	11.87	264.3	2 54K	0					3 10 PPP
HELWAN	11.90	212.9	2 50	-4					
KIZYL-ARVAT	13.55	88.3	3 14	-2					
LWOW	14.19	317.9	3 21	-4					7 8
BELGRADE	14.27	295.1	3 30A	4					6 30 PCP
ASHKABAD	15.40	91.9	3 39	-1	6 47	14			6 1
MOSCOW	15.62	357.7	3 40	-3	6 25	-13			
SKALNATE PL.	15.92	310.7	3 46	-1					3 55 PP
BUDAPEST	15.98	303.8	3 54	6					4 18 PPP
KRAKOW	16.52	313.1	3 53	-2	7 2	3			8 42 PCP
HURBANOVO	16.64	304.4	4 6	10					
WARSAW	17.17	320.6	4 3	0	7 21	8			4 10 PP
BRATI SLAVA	17.44	304.5	3 13	-53					
RACIBORZ	17.52	311.4	4 8	1					4 28 PP
ZAGREB	17.57	296.3	4 15A	7					
VIENNA-H.	17.92	304.3	4 14	2	8 6	35			
REGGIO CALA.	18.02	270.9	4 7	-7					
MESSINA	18.07	271.3	4 14K	0	7 39	5			4 31 PP
BAIRAM-ALI	18.38	90.4	4 21	3					
BAIRAM-ALI	18.38	90.4							4 21
LJUBLJANA	18.61	296.5	4 20A	-1					4 40 PP
TRIESTE	19.08	295.0	4 26	-1	8 6	9			
PRUHONICE	19.63	308.1	4 32K	-1	8 20	11			6 3
PRAGUE	19.74	308.3	4 36	2					
ROME	19.87	283.6	4 40	4	8 21	7			7 48
PULKOVO	20.35	347.7	4 39	-2					
CHEB	20.99	307.0	4 49	2	8 32	-5			
COLLMBERG	21.04	310.6	4 47	-1					5 57
PLAUE	21.25	308.0	4 46	-4					
POTSDAM	21.42	313.4	4 49	-3	8 56	10			5 8 PP
SAMARKAND	21.64	82.1	4 55	1					8 55
HALLE	21.72	310.4	4 54	-1	8 58	7			5 13 PP
JENA	21.74	308.8	4 54	-1	9 7	15			5 15 PP
SONNEBERG	21.80	307.2	4 55	-1	8 59	6			
HELSINKI	21.82	341.3	4 55	-1	8 55	2			
SVERDLOVSK	21.96	33.2	4 56	-1					
NURMI JARVI	22.19	341.4	4 58	-2	8 59	-1			5 21 PP
RAVENSBURG	22.21	299.8	4 59	-1					
STUTTGART	22.61	302.2	5 2	-2	9 13	5			5 36 PP
TUBINGEN	22.70	301.5	5 5	0					
EBINGEN	22.71	300.6	5 2	-3					
STALINABAD	23.23	84.1	5 15	5					9 26
TCHIMKENT	23.26	74.6	5 9	-1					
COPENHAGEN	23.29	320.6	5 11	1	9 30	10			
MONACO	23.49	289.1	5 16	4					
BASLE	23.54	298.6	5 8	-5	9 21	-3			
STRASBOURG	23.56	301.3	5 17	4	9 34	10			6 30
UPPSALA	23.75	333.2	5 14A	-1	9 37	9			
NEUCHATEL	23.91	297.2	5 16	0	9 33	2			
MUNSTER	24.42	309.4	4 24	-57					7 41
BENSBERG	24.43	306.8	5 21	0					
BESANCON	24.59	297.7	5 23	0					
GOTEBORG	24.60	324.5	5 20	-3	9 54	12			
QUETTA	25.03	104.6	6 26	59	9 54	4			6 2 PP
FERGANA	25.14	78.7	5 28	0					
WITTEVEEN	25.23	310.9	5 28A	-1					
ANDI JAN	25.52	77.6	5 32	0					10 17
DOUBES	25.86	304.0	5 35	0	10 14	11			
UCCLE	26.14	305.6	5 42	4	10 21	13			
SETIF	26.41	272.2	5 38K	-2					6 15 PP
CLERMONT-FD.	26.51	294.1	5 49	8					
WARSAK DAM	26.79	92.8	5 42	-2					
FRUNSE	26.89	72.4	5 45	0					10 20
APATITY	27.62	355.6	5 53	2	10 29	-3			10 59
SODANKYLA	28.09	350.1	5 57	1					
KARACHI	28.19	114.2	5 55	-1					
SKALSTUGAN	28.20	335.1	5 59	3					7 22
ALMATA	28.54	71.1	6 6	6					
FOLINIERE	29.02	300.4	6 8	4					
KEW	29.15	306.0			11 8	11			
KIRUNA	29.50	346.0	6 6	-2	11 56	53			6 35
RELIZANE	30.27	274.0	6 12	-3					
SEMI PALATNSK	30.60	56.4	6 21	3					
TOLEDO	32.54	283.6	6 32	-3					
TAMANRASSET	32.95	248.3	6 36A	-3	11 52	-5			7 41 PP
RATHFARNAH	32.98	308.7	6 44A	5					





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PULKOVO	22.95	1.7	4 36	-31			
HELSINKI	23.48	354.9	5 12	0			
GOTEBORG	23.71	337.0	5 12	-2			
NURMIJARVI	23.84	354.7	5 16	0			
UPPSALA	24.15	345.9	5 18	-1			5 38
FOLINIERE	24.53	308.3	5 20	-2			
TAMANRASSET	24.65	241.9	5 25	2	9 47	4	6 1 PP
KEW	25.40	314.4	5 26	-5			
TOLEDO	26.01	286.8	5 35	-1			
SVERDLOVSK	29.04	36.4	6 3	-1			
SODANKYLA	30.59	358.2	6 17	-1			
APATITY	30.85	3.3	6 26	6			
KIRUNA	31.40	353.8	6 23A	-2			
QUETTA	32.17	90.7	6 31	-1			
LWIRO	38.90	180.3	7 32	3			
SCORESBY SD.	42.92	337.5	8 3	1			
NORD	47.69	351.8	8 38	-2			
SHILLONG	54.07	83.0	9 25	-4			
CHITTAGONG	55.59	86.5	9 38	-2			
THULE	56.21	343.6	9 42	-2			
BULAWAYO	56.69	180.4	8 59	-49			9 33
WINDHOEK	60.16	192.7	10 14	2			
RESOLUTE	62.82	345.6	10 27K	-3			
YAKUTSK	62.85	31.4	10 31	1			
COLLEGE	78.58	358.6	12 4	-1			
LAWRENCE	88.73	319.9	12 55	-2			
HUNGRY HORSE	89.00	336.3	12 57	-1			
BOZEMAN	90.31	333.2	13 3	-1			
FAYETTEVILLE	90.31	317.3	13 1	-3			
LARAMIE	91.80	327.5	13 10	-1			
EUREKA	97.48	333.4	13 37	0			
TUCSON TELE.	101.54	326.0	13 55	0			

JANUARY 26 18.H 20.M 0.S EPICENTRE 12.81 -87.79 DEPTH= 82.KM

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G= 0.0085 H=-0.2201 K=-0.9754 HT= 6.1

DEPTH OF FOCUS= 0.008R

SE= 2.06

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
SANTIAGO MA.	0.95	315.5	0	18	-2	0	32	-2				
SAN SALVADOR	1.63	302.3	0	26	-2	0	48	-1				
COMITAN	5.42	309.6				2	22	0				
MERIDA	8.28	348.0				3	51	19				
OAXACA	9.64	296.8				4	12	6				
TACUBAYA	12.77	302.3	3	4	4						6	4
CHINCHINA	14.32	121.9	3	21	1	6	25	28				
FUQUENE	15.67	116.5	3	36	-1						3	52 PP
BOGOTA	15.80	119.8	3	41	2	6	48	16	3	57		
CARACAS	20.55	94.2	3	59K	-35	7	41	-33				
SAN JUAN	21.58	72.4	4	46	1						5	7
COLUMBIA	21.97	15.1	4	52	3	8	56	15			5	10
LITTLE ROCK	22.26	350.0	4	52	1	8	57	11				
FAYETTEVILLE	23.89	347.1	5	8K	1				5	34		
ST. LOUIS 1	25.82	355.6	5	46	21	10	40	53				
LAWRENCE	26.88	347.1	5	15	-20							
HUANCAYO	27.62	152.9	5	41	-1							
TUCSON TELE.	28.63	316.5	5	52	1							
BERMUDA	28.77	43.6	6	33	41						10	40
PALISADES	30.61	20.9				11	28	24			13	0
OTTAWA	34.07	15.2	6	39	0							
BREBEUF	34.74	17.6	6	40K	-4						7	58 PP
PASADENA	34.82	312.7									9	18 PCP
SALT LAKE C.	34.94	327.3	6	48	2							
LA PAZ	35.01	145.8	7	0	13							
SHAWINIGAN	35.94	17.7	6	55K	0							
BOZEMAN	38.24	333.4	7	16	2							
HUNGRY HORSE	41.61	333.6	7	42	0							
HORSESHOE B.	46.70	328.6	8	19	-4							
RESOLUTE	61.98	357.9	10	11	-3							
THULE	64.45	5.0	10	29	-1							
COLLEGE	65.97	336.1	10	38	-2							
KIPAPA	67.21	288.0	10	48	0							

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1960						PAGE 75
STUTT GART	85.08	41.2	12 47	19	13 10	
CHORZOW	90.66	37.9				24 17
KRAKOW	91.31	37.9				24 29
BYRD STATION	94.14	185.3	13 11	0		
MUNDARING	150.86	225.2	19 44	7		

JANUARY 26 20.H 27.M 4.S EPICENTRE 45.77 26.33 DEPTH= 160.KM

A= 0.62731 B= 0.31045 C= 0.71421 D= 0.4435 E=-0.8963  
G= 0.6401 H= 0.3168 K=-0.6999 HT= -3.8

DEPTH OF FOCUS= 0.020R

SE= 2.62

	DELTA	AZ.	P		O-C	S			*PP		SUPP.	
	DEG.	DEG.	M	S	S	M	S	S	M	S	M	S
FOCSANI	0.61	96.4	0	29	5	0	46	3				
BACAU	0.89	26.2	0	25	-1	0	43	-2				
CAMPULUNG	1.04	241.7	0	27	0	0	45	-2				
BUCHAREST	1.36	187.0	0	28	-2	0	47	-6				
IASI	1.67	30.5	0	32	-1	0	54	-4				
CERNAUTI	2.52	353.9	0	44	1	1	16	1			1	18 *SP
RAKHOV	2.62	326.3	0	45	1	1	18	0			1	20 *SP
TIMISOARA	3.58	271.5	0	14A	-42	0	53	-46				
SOFIA	3.75	216.1	0	57	-1	1	40	-3			1	33
UZHGOROD	3.96	317.6	1	2	1	2	1	13			1	16
BELGRADE	4.26	259.2	1	5K	0	2	22	27			1	50 PS
LWOW	4.34	339.9	1	7	1	2	4	7			1	48 *SP
KECSKEMET	4.73	286.4	1	0	-11						2	48 SG
SEBASTOPOL	5.22	100.2	1	16	-2							
BUDAPEST	5.32	291.4	1	20	1	2	19	-1				
SKALNATE PL.	5.35	311.8	1	19	0						1	40 P*
SIMFEROPOL	5.55	95.7	1	19	-3	2	18	-7			2	8
YALTA	5.69	100.1	1	21	-3	2	23	-6			3	31
ALUSHTA	5.81	97.7	1	22	-3	2	23	-8			3	54
HURBANOVO	5.96	293.5	1	31	4	3	13	38			2	33 PG
KRAKOW	6.07	317.2	1	29	0						1	57
THEODOSIA	6.42	93.5	1	32	-1	2	40	-6			2	34
BRATISLAVA	6.76	294.1	1	40K	2	2	42	-12			2	30 PG
RACIBORZ	6.96	311.2	1	41	0						2	26
ZAGREB	7.24	274.1	1	46K	2	3	10	5				
VIENNA-H.	7.25	293.6	1	46K	1	3	8	2				
WARSAW	7.34	333.6	1	50	4						3	11
ATHENS	8.04	194.9	1	53K	-2	3	12	-13				
LJUBLJANA	8.24	276.2	1	59K	1	3	26	-3			2	18
TRIESTE	8.81	273.7	2	9A	4	3	47	4				
PRUHONICE	8.97	302.2	2	8K	1	3	28	-19				
PRAGUE	9.07	302.6	2	10	1							
CHEB	10.30	299.7	2	24	-1							
ISOLA	10.36	245.4									3	11
COLLMBERG	10.42	306.9	2	26	0	4	19	-2			2	34 PP
PLAUE	10.58	301.6	2	25	-3							
ROME	10.73	253.8				5	5	37				
POTSDAM	10.92	312.1	2	28	-5						5	57
MESSINA	11.02	230.4	3	1	27						4	5
JENA	11.08	303.1	2	34	-1	4	20	-16				
HALLE	11.10	306.3	2	33	-2	4	23	-14			2	55
RAVENSBURG	11.64	285.9	2	44	2							
STUTT GART	11.96	290.6	2	48K	2						3	16 PP
TUBINGEN	12.07	289.4	2	48	0							
EBINGEN	12.10	287.7	2	48	0							
MOSCOW	12.25	31.5	2	50	0	4	56	-8			5	47
STRCSBOURG	32.94	289.2	3	0	3T							
BASLE	13.00	284.5	2	59K	-1							47
STRASBOURG	12.94	289.2	3	0	1							
BASLE	13.00	284.5	2	59K	-1							
COPENHAGEN	13.23	323.6	3	0A	-3							
NEUCHATEL	13.44	282.2	3	4	-1							
MONACO	13.59	268.1	2	53	-14							
BENSBERG	13.74	299.1									5	43
MUNSTER	13.77	303.5	3	17	7							
TIFLIS	13.95	100.3	3	13	1						5	59
KSARA	14.00	145.2	3	16	3	5	49	5			3	50 *SP
BESANCON	14.09	283.3	3	12	-2							
PULKOVO	14.22	8.2	3	13	-2	5	45	-4			6	3
HELSINKI	14.45	357.3	3	16	-2							

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WITTEVEEN	14.61	306.0	3 21A	1				
NURMI JARVI	14.80	356.8	3 20	-3	5 59	-3	6 13	SS
GOTEBORG	14.85	328.7	3 16	-7				
UPPSALA	15.03	342.9	3 24A	-1	6 2	-6		
DOURBES	15.18	294.4	3 28	1				
UCCLE	15.45	296.9	3 33	2	6 35	18		
JERUSALEM	15.58	150.7	3 33	1			4 3	
GORIS	15.98	106.0	3 42	5				
CLERMONT-FD.	16.19	278.3	3 41	1				
HELWAN	16.35	164.4	3 41A	-1	6 48	11		
PARIS	16.44	289.3	3 44	1			4 5	
FOLINIERE	18.40	289.1	4 4	-2				
SETIF	18.42	246.1	4 5	-1	7 48	26	4 23	PP
KEW	18.46	297.6	4 8A	2				
BERGEN	19.21	327.2	7 14	180				
OULU	19.30	358.9	4 15	0				
ALGIERS UNI.	19.62	250.9	4 17	-1				
DURHAM	19.87	307.0	4 22A	1				
SODANKYLA	21.65	0.3	4 39	0	8 29	6		
RELIZANE	21.86	251.8	4 42	1			5 7	PP
APATITY	22.15	7.2	4 44	1	8 33	1		
RATHFARNHAM	22.31	301.6	4 46A	1			5 22	
KIRUNA	22.33	354.1	4 47	2			5 13	6 37
TOLEDO	22.96	266.0	4 41	-10				
SVERDLOVSK	23.87	50.0	5 1	1				
ASHKABAD	24.97	96.8	5 11	1				
TAMANRASSET	28.50	223.4	5 43A	0				
TCHIMKENT	31.02	80.7					7 7	
STALINABAD	31.97	87.7					7 7	
NAMANGAN	32.96	81.8					6 23	
KULYAB	32.96	88.1					7 3	
ANDI JAN	33.54	81.8					6 27	
ALMATA-2	35.98	75.2	6 49	2				
KHEYS	36.66	8.3	6 54	1			7 26	
THULE	47.11	341.2	8 20	2			8 53	
POONA	47.62	108.7	8 22	0				
TIKSI	51.01	23.5	8 47	-1				
CHATRA	51.29	89.8	8 49A	-1				
SHILLONG	55.37	87.7	9 19A	-1				
YAKUTSK	56.40	33.4	9 27	0				
BROKEN HILL	59.97	177.6	9 2A	-50			10 32	
BULAWAYO	65.63	177.6	10 28A	-1				
TANANARIVE	67.20	158.2	10 39K	0				
COLLEGE	69.60	357.3	10 54	0				
PRETORIA	71.20	178.2	11 34	31				
HUNGRY HORSE	80.07	334.4	11 53	0			12 31	
EUREKA	88.64	331.7	12 38	2				
TUCSON TELE.	93.06	324.7	13 37	40				
CHARTERS TS.	124.90	83.3	18 41	0				
ADELAIDE	128.79	103.0	18 50	1				
CANBERRA	136.06	97.2	19 4	2				
BYRD STATION	143.54	189.5	19 14	-2				

JANUARY 26 22.H 21.M 19.S EPICENTRE -30.81-177.89 DEPTH= 0.KM

A=-0.85976 B=-0.03170 C=-0.50971 D=-0.0368 E= 0.9993  
G= 0.5094 H= 0.0188 K=-0.8603 HT= 1.6

SE= 2.68

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
RAOUL ISLAND	1.56	359.0	0	29	0	0	47	-3				
ONERAHI	8.15	230.6	2	9	7							
KARAPIRO	8.93	215.6	2	13	0						2 33	
TUAI	8.95	205.8	2	13	0	3	49	-7				
CHATEAU	9.95	211.0	2	20	-7	4	17	-4				
WELLINGTON	12.01	207.6				4	57	-14				
COBB RIVER	12.75	214.0				5	14	-15				
SUVA	13.04	344.3	3	26	17							
GEBBIES PASS	14.89	207.6	3	34	1	6	2	-18				
NOUMEA	16.36	297.5	3	55	2	7	5	10				
AFIHALU	17.74	19.8	4	7	-3	7	6	-20				
KOUMAC	19.02	298.3	4	28	2	8	8	13				
BRISBANE	25.82	270.2	5	33	-1	10	2	-1				
RIVERVIEW	26.29	255.2	5	41A	2							

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1960								PAGE 77	
CANBERRA	28.03	251.9	5 54A	-1					
MELBOURNE	31.31	246.9	6 24K	0					
CHARTERS TS.	33.96	279.7	6 46	-1	12	9	-3		
ADELAIDE	36.46	251.7	7 7	-1				9	31 PCP
PORT MORESBY	38.88	295.7	7 28	-1					
BYRD STATION	54.51	169.5	9 32	0					
HONOLULU	55.19	22.6	9 35	-2					
KIPAPA	55.33	22.6	9 37	-1					
MUNDARING	55.45	250.4	9 35	-4				10	36
MATUSIRO	78.63	325.3	12 1	-4					
LICK	85.81	41.6	12 44K	2					
BERKELEY	85.82	40.9	12 42	-1					
FRESNO	86.48	43.1	12 47	1					
SHASTA	87.74	38.8	12 53	1					
MINERAL	87.93	39.5	12 52K	-1					
RENO	88.36	41.0	12 56	1					
BOULDER CITY	88.97	46.3	13 2	4					
TUCSON	89.23	51.3	13 1	2					
TUCSON TELE.	89.36	51.3	13 1	1					
CORVALLIS	90.02	35.6	12 58	-5					
HUANCAYO	94.43	106.7	13 26	3					
COLLEGE	98.22	12.5	13 38	-2					
SHILLONG	102.83	292.1	17 45	777					
RESOLUTE	117.61	17.3	18 44	-4					
OTTAWA	119.31	52.2	18 51	0					
SHAWINIGAN	121.58	51.5	18 54	-2					
SEVEN FALLS	123.00	51.1	18 58	0					
BULAWAYO	123.30	210.1	18 59K	0					
THULE	124.29	15.6	18 57	-4				20	42 PP
WINDHOEK	125.01	197.0	19 4	2					
KHEYS	125.58	350.4	19 2	-1					
HALIFAX	127.56	55.2	19 7	0					
BROKEN HILL	128.35	213.3	19 1	-8					
SVERDLOVSK	132.28	320.7						22	41
LWIRO	138.44	222.6	19 28	0				23	1
APATITY	138.84	342.3	19 28	0					
SODANKYLA	140.62	345.3	19 24	-8					
KIRUNA	141.40	349.0	19 26	-7					
OULU	142.83	343.8	19 32	-3					
TIFLIS	144.23	299.7	19 35	-3					
SIDA	144.63	15.3	19 37	-1					
PULKOVO	145.41	335.1	19 38	-2					
NURMIJARVI	146.73	339.8	19 41	-1				22	0
HELSINKI	146.91	339.2	19 43	1					
UPPSALA	149.15	344.7	19 48	2					
BERGEN	150.33	356.8						22	52
SIMFEROPOL	151.28	308.4	19 54	5					
KSARA	151.38	285.0	19 58	9					
JERUSALEM	151.75	280.6	19 57	7					
GOTEBORG	152.27	348.6	19 46	-5					
COPENHAGEN	154.09	346.5	20 1	8					
HELWAN	154.79	275.4	19 57	3				20	49
COLLMBERG	158.00	341.5	20 30	32					
STUTTGART	161.26	345.1	20 1	-1				20	45 PKP2
FOLINIERE	161.96	5.5	20 3	0					
PARIS	162.02	359.2	20 48	45					
TAMANRASSET	171.44	201.6	20 11	1				25	14 PP
SETIF	173.97	333.8	20 10	-1					

JANUARY 29 7.H 33.M 44.S EPICENTRE 36.48 70.63 DEPTH= 204.KM

A= 0.26728 B= 0.76040 C= 0.59190 D= 0.9434 E=-0.3316  
G= 0.1963 H= 0.5584 K=-0.8060 HT= -0.4

DEPTH OF FOCUS= 0.027R

SE= 2.49

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
KHOROG	1.23	35.4	0	34	1	0	59	1				
KULYAB	1.59	333.9	0	36	0	1	2	-1				
TABIL-DARA	2.20	356.9	0	43	0	1	14	0				
OBI-GARM	2.34	341.8	0	44	1	1	14	-3				
KARA-SU	2.39	327.2	0	43	-1	1	13	-5				
CHUIAN-GAROM	2.46	332.3	0	44	-1	1	15	-4				

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1960		PAGE 78					
GARM	2.53 354.1	0 46	0	1 18	-3		
STALINABAD							
WARSAK DAM	2.58 162.8	0 44A	-2				
ZIMCHURUD	2.71 328.1	0 47	-1	1 21	-3		
DZERGETAL	2.78 9.6	0 48	0	1 23	-2		
MURGAB	3.23 53.3	0 55	1	1 35	0		
FERGANA	4.00 12.7	1 3	0	1 49	-2		
SAHARKAND	4.30 319.0	1 5	-2	1 52	-6		
ANDIJAN	4.48 17.1	1 9	0	2 0	-2		
NAMANGAN	4.57 9.9	1 10	0	2 2	-2		
TASHKENT	4.95 348.1	1 14	-1	2 8	-5		
LUNACHARSKOE	4.95 348.6	1 15	0	2 9	-4		
TCHIMKENT	5.87 352.5	1 27	0	2 31	-3		
NARYN	6.48 38.6	1 33	-2	2 45	-3		
BAIRAM-ALI	6.90 281.9	1 40	0				
QUETTA	6.99 207.2	1 41K	0	3 0	0	2 19 *SP	
FRUNSE	7.05 24.6	1 42	0			2 30	
FABRICHNAYA	8.00 32.1	1 54	-1				
PRZHEVALSK	8.48 42.7	2 1	0	3 33	-2		
ALHATA-2	8.53 35.3	2 1	0			2 52	
DEHRA DUN	8.72 132.6	2 8	4	3 34	-7	2 21 PPP	
KURMENTY	8.78 39.8	2 4	-1				
ILI	8.93 31.6	1 40	-27				
ASHKABAD	9.91 282.2	2 19	0				
KIZYL-ARVAT	11.68 287.8	2 45	3				
KARACHI	12.01 195.9	2 44K	-2	4 48	-9		
SEHAPALATNSK	15.55 23.5	3 30	0				
CHATRA	17.03 119.7	3 48	0				
POONA	18.10 170.1	4 1K	2	7 28	17		
GORIS	19.38 286.3	4 16	4				
TIFLIS	20.69 292.6	4 28	2				
SHILLONG	21.15 115.0	4 10K	-20			4 33	
SVERDLOVSK	21.44 344.9	4 34	1				
MOSCOW	29.49 321.2	5 46	-2				
PULKOVO	34.76 325.0	6 34	1				
HELSINKI	37.42 323.9	6 56	1				
APATITY	37.53 337.6	6 57	1				
NURMIJARVI	37.67 324.4	6 59	1				
SODANKYLA	39.63 335.1	7 14	0				
UPPSALA	40.91 322.0	7 10	-14				
KIRUNA	41.98 334.2	7 33A	0			8 25	
SKALSTUGAN	44.06 326.8	7 50A	0				
YAKUTSK	44.17 35.5	7 49	-2				
KHEYS	44.53 357.1	8 5	12				
TIKSI	45.90 22.0	8 4	0				
SETIF	51.60 290.4	8 47	-1				
MATUSIRO	53.24 68.3	8 58	-2			9 51	
THULE	64.43 350.1	10 16	-1			11 24	
RESOLUTE	68.71 355.9	10 43	-1				
BULAWAYO	68.90 222.4	10 45	0	19 33	2		
PRETORIA	73.71 219.4	11 3	-11				
COLLEGE	74.59 16.0	11 18	-1			12 28	
SOUTH POLE	126.29 180.0	19 46	67	25 8	-15	21 11 PP	
SCOTT BASE	126.63 164.8					21 23	
BYRD STATION	136.16 177.5	20 44	107			22 28 PP	

JANUARY 30 18.H 38.M 12.S EPICENTRE 21.60 143.74 DEPTH= 0.KM

A=-0.75039 B= 0.55039 C= 0.36603 D= 0.5914 E= 0.8064  
G=-0.2952 H= 0.2165 K=-0.9306 HT= 4.3

SE= 2.33

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
TUKUBASAN	14.91	348.5	3	31	-2	6	3	-17				
MATUSIRO	15.64	343.3	3	40	-3	6	35	-3			3	57
HIZUSAWA	17.61	353.3	4	35	27	7	43	20				
ZO-SE	22.28	299.8	5	0	0	9	7	6				
BAGUIO CITY	22.49	260.7	5	28	26	9	14	9				
NANKING	24.53	300.4	5	23	1	9	51	10				
Y.-SAKHLINSK	25.37	358.4	5	31	1							
CHANGCHUN	26.93	329.7	5	42	-2	10	23	2				
RABAU	26.93	198.4	5	36	-9							
HONG KONG	27.42	277.0	5	52	3	10	30	2				
UGLEGORSK	27.45	357.6	5	51	2							

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1960					PAGE 79		
WUHAN	27.62	294.8	5 51	0			
PEKING	29.78	314.3	6 11	1	11 16	10	
PORT MORESBY	30.99	173.5	6 21	0			
CHENG TU	36.64	292.6	7 17	7			
LANCHOW	37.54	301.4	7 17	0			
KUNMING	37.70	283.5	7 21	2			
CHARTERS TS.	41.51	176.4	7 50	0			
YAKUTSK	41.53	350.1	7 50	0	14 11	4	
SHILLONG	47.46	285.4	8 35	-3			
LHASA	47.85	290.9	8 42	1			
CHITTAGONG	47.95	281.1	8 50	8			
BRISBANE	49.48	169.4	8 53	-1	15 58	-3	
TIKSI	50.78	354.0	9 2	-2	16 20	1	
CHATRA	51.51	287.7	9 7	-2			
RIVERVIEW	55.57	172.5	9 41A	2	17 31	7	11 50 PP
ADELAIDE	56.46	184.9	9 46	0			
CANBERRA	56.83	174.9	9 47A	-1			
MELBOURNE	59.13	178.9	10 2	-2			
MUNDARING	59.44	207.1	10 2	-4			
COLLEGE	61.51	26.9	10 18	-3			
BOMBAY	66.06	281.8	10 51	1	19 43	5	
KARAPIRO	66.34	152.9	10 49	-3			
QUETTA	68.46	295.0	11 4	-2	20 10	3	24 28 SS
SVERDLOVSK	68.46	324.1	11 5	-1			
RESOLUTE	77.05	13.5	11 55	-1			
CORVALLIS	77.19	47.0	12 0A	3			
APATITY	77.65	338.4	12 0	1			
SHASTA	79.05	50.6	12 8	1			
MINERAL	79.73	50.7	12 11K	0			
MAKHACH-KALA	79.96	312.2	11 45	-27			
SODANKYLA	80.01	339.5	12 13	1			
BERKELEY	80.07	53.3	12 15K	2			
THULE							
LICK	80.72	53.6	12 17	1			
MOSCOW	81.04	326.6	12 16	-2			
RENO	81.30	51.0	12 21A	2			
KIRUNA	81.68	341.3	12 19	-2			
HUNGRY HORSE	81.88	41.2	12 23	1			
TIFLIS	82.28	311.7	12 24	0	22 34	-6	
FRESNO	82.29	53.6	12 26	2			
BUTTE	83.74	42.9	12 31	-1			
EUREKA	84.08	50.0	12 34	0			
PASADENA	84.50	55.6	12 37	1	23 58	56	28 40 SS
NURMI JARVI	84.59	334.3	12 36	0			
BOZEMAN	84.85	42.8	12 37	0			
SOTCHI	84.98	314.9	12 34	-4			
SALT LAKE C.	86.43	47.5	12 47	2			
SKALSTUGAN	87.04	340.4	12 45	-3			
LARAMIE	90.39	44.8	13 7	3			
RAPID CITY	90.51	41.5	12 7	-58			
TUCSON TELE.	90.93	54.7	13 7	0			15 23
TUCSON TELE.	90.93	54.7	13 8	1			
WILKES	91.19	192.8			24 3	-2	18 29 PP
PALISADES	108.56	29.2					34 37
BERMUDA	119.83	27.7					30 8
TAMANRASSET	119.97	314.8	18 54	2			20 14 PP
LA PAZ	149.48	86.0	19 52	6			

JANUARY 31 5.H 8.M 18.5 EPICENTRE 33.12 134.58 DEPTH= 0.KM

A=-0.58901 B= 0.59777 C= 0.54382 D= 0.7123 E= 0.7019  
G=-0.3817 H= 0.3874 K=-0.8392 HT= 0.8

SE= 3.91

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
MUROTO	0.36	291.3	0	14A	2	0	24	4				
TSURUGISAN	0.85	331.4	0	24	5	0	52					
TOKUSIMA	0.95	0.2	0	20A	0	0	36	1				
KOTI	0.98	296.3	0	23A	2	0	41	5			0	44
SIOMISAKI	1.05	71.5	0	15K	-7	0	26	-12				
WAKAYAMA	1.21	23.9	0	22A	-2	0	38	-4				
SUMOTO	1.25	12.8	0	23A	-2	0	39	-4				
TAKAMATU	1.27	340.0	0	26A	1	0	42	-1				
SIMIDU	1.39	256.3	0	28	1	0	49	3				
KOBE	1.63	17.7	0	28A	-2	0	51	-1				



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1960		PAGE 80					
OKAYAMA	1.65	340.8	0 32A	2	1 0	7	
OWASE	1.65	54.6	0 25	-6	0 42	-11	
MATUYAMA	1.66	296.0	0 33A	2	1 0	7	
UWAZIMA	1.70	274.2	0 33	2	1 9	15	1 32
OSAKA	1.72	27.2	0 26A	-6	0 53	-1	
NARA	1.87	33.5	0 30A	4	0 53	-5	
ABUYAMA	1.93	25.0	0 31A	4			
KYOTO	2.12	26.5	0 33A	4	1 8	3	
HIROSIMA	2.18	305.5	0 40A	2	1 22	16	
TU	2.26	45.2	0 36	-3	1 3	-5	
KAMEYAMA	2.33	41.8	0 36	4	1 2	-8	
TOTTORI	2.41	352.3	0 42	1	1 15	3	
TOYOOKA	2.41	4.7	0 43A	2	1 14	2	
MAIZURU	2.44	15.8	0 40	-2	1 17	4	
OOITA	2.48	273.3	0 44	2	1 28	14	
YONAGO	2.52	336.5	0 42	-1	1 24	9	
HIKONE	2.55	32.4	0 40	-3	1 20	4	
MATSUE	2.64	332.2	0 45	0	1 34	16	
HAMADA	2.74	311.1	0 48A	2	1 34	14	
TSURUGA	2.81	25.7	0 44	-3	1 16	-6	
NAGOYA	2.85	43.5	0 46	-2	1 19	-4	
GIHU	2.91	38.0	0 46	-3	1 27	2	
MIYAZAKI	2.92	246.7	0 51	2	1 29	4	
ASOSAN	2.95	266.7	0 52	3	1 35	9	
HAMAMATU	3.06	57.7	0 53	2	1 30	1	
SIMONOSEKI	3.16	286.2	0 53	1	1 43	12	
HUKUI	3.22	24.6	0 51	-2	1 29	-4	
KUMAMOTO	3.27	265.8	0 55A	1	1 47	13	
OMAESAKI	3.37	63.0	0 49	-6	1 29	-7	
HUKUOKA	3.54	278.6	0 59A	1	1 51	10	1 24
SAGA	3.59	273.2	1 1	3	2 0	18	
IIDA	3.60	47.5	1 3	5	1 46	4	
UNZENDAKE	3.66	265.1	1 8A	9	1 59	15	
SHIZUOKA	3.67	58.8	1 4	5	1 55	11	1 42
TAKAYAMA	3.74	35.4	1 0	0	1 55	9	
KAGOSIMA	3.74	246.7	1 1	1	1 52	6	2 37
KANAZAWA	3.80	26.0	1 12	11	2 3	16	
NAGASAKI	3.97	265.6	1 4A	0	2 20	28	1 37
HISIMA	4.14	60.0	1 3	-3	2 2	6	1 34
KOHU	4.16	51.2	1 11	5	2 6	10	
TOYAMA	4.17	30.4	1 6	0	2 10	13	1 42
MATUMOTO	4.19	40.9	1 13	6	2 12	15	1 47
HUNATU	4.20	54.5	1 6	-1	2 4	7	
AJIRO	4.22	61.6	1 5	-2	1 49	-9	2 20
OSIMA	4.32	66.3	1 13	4			
YAKUSIMA	4.37	233.6	1 11A	2	2 27	25	
HATIDYOZIMA	4.37	88.9	1 10	1			5 13
MATUSIRO	4.53	40.2	1 8K	-4	2 5	-1	
ITUHARA	4.55	285.1	1 15	3	2 15	9	2 36
OIWAKE	4.58	44.5	1 19	7	2 16	9	
NAGANO	4.63	39.0	1 17	4	2 20	12	
WAZIMA	4.66	23.4	1 12	-1	2 24	15	1 44
TITIBU	4.68	51.2	1 20	6	2 17	7	
YOKOHAMA	4.79	59.9	1 25	10	2 27	15	
TOMIE	4.91	265.7	1 19A	2	2 49	34	
MAEBASI	4.94	47.3	1 25	8	2 24	8	
TOKYO C.M.O.	4.98	57.7	1 30	12	2 30	13	
KUMAGAYA	4.98	51.3	1 22	4	2 30	13	
TAKADA	4.98	36.1	1 29	11	2 26	9	2 40
HONGO	5.01	57.5	1 32A	14	2 32	14	
TUKUBASAN	5.50	54.3	1 24	-1	2 41	11	
UTUNOMIYA	5.54	50.4	1 34	8	2 45	14	1 57
TORISIMA	5.54	116.9	1 24	-2			
KAKIOKA	5.56	54.5	1 29	3	2 58	26	
AIKAWA	5.73	30.4	1 36	7	3 2	26	
MITO	5.84	54.5	1 36	6	2 55	16	
NIIGATA	6.02	36.0	1 55	22	3 7	24	
SHIRAKAWA	6.11	47.6	1 45	11	2 54	9	
ONAHAMA	6.44	51.9	1 40	1	2 55	1	2 11
HUKUSIMA	6.67	44.5	1 46	4	3 29	30	
YAMAGATA	6.95	40.9	1 56	10	3 16	10	
SAKATA	7.17	34.9	2 26	37			3 54
SENDAI	7.27	43.2	2 2	12	3 34	20	
ISINOMAKI	7.62	44.1	1 54	-1	3 41	18	
AKITA	7.95	32.5	2 32	32	4 10	39	3 41
MIZUSAWA	8.00	39.6	2 6	6	3 29	-4	
MORIOKA	8.44	37.1	2 11	4	3 56	12	
MIYAKO	8.83	40.3	2 22	10	4 8	15	

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AOMORI	9.14	31.1	2 23	7				4 51
HATINOHE	9.26	35.0	2 23	5	4	6	2	
HAKODATE	9.97	27.7	2 34	6				5 23
MORI	10.14	26.2	2 34	4	4	28	2	
VLADIVOSTOK	10.20	348.9	2 32	1	4	34	7	2 44
MURORAN	10.49	27.0	2 52	17				5 39
SUTTSU	10.64	23.1	2 41	4	4	40	2	3 26
TOMAKOMAI	10.98	28.2	2 49	7				
URAKAWA	11.11	33.4	2 39	-4				5 38
SAPPORO	11.27	26.2	2 46	1	4	59	6	3 19
ZO-SE	11.54	263.6	2 50A	1				
OBHIRO	11.91	32.3	3 0	6				
KUSIRO	12.51	35.3	3 5	3	5	29	5	
CHANGCHUN	12.91	328.6	3 9A	1	5	41	8	
ABASHIRI	13.26	32.0						3 25
NEMURO	13.35	37.1						3 20
NANKING	13.36	269.7	3 15A	1	5	53	9	
WAKKANAI	13.45	22.0						6 37
ILAN	13.97	236.7	3 54	32				
TAIPEI	13.97	238.1	3 43	21				
HWALIEN	14.57	234.6						4 45
TAICHUNG	15.11	237.3	3 43	6				
Y. -SAKHLINSK	15.20	21.7	3 33	-5	6	24	-4	7 55
TAITUNG	15.72	232.3			6	56	15	
TAWA	16.16	231.9			7	11	19	
TAINAN	16.18	235.1			7	16	23	
PEKING	16.30	300.3	3 52A	0	7	10	17	
WUHAN	17.21	266.8	4 6A	3				
BAGUIO CITY	20.89	220.6	4 49	3	8	42	7	
PAOTOW	20.96	297.8	4 47A	0				
HONG KONG	21.00	244.3	4 47A	-1	8	50	12	
CANTON	21.20	247.3	4 50A	1				
SIAN	21.37	280.1	4 50A	-1	8	54	10	
MANILA	22.09	216.9	4 57	-1	9	5	7	
LANCHOW	25.43	285.2	5 31A	0	10	6	10	
ULAN-BATOR	25.54	313.6	5 32	0	10	15	17	
CHENG TU	26.03	272.9	5 38A	1	10	12	6	
PETROPAVLOVK	26.33	33.8			9	50	-21	
MAGADAN	28.55	17.3	5 56	-4	10	46	-1	
KUNMING	28.85	262.3	6 2A	0	10	57	5	
IRKUTSK	29.02	320.3	6 3	-1	11	2	7	
LHASA	37.14	276.6	7 15A	1	13	7	6	
SHILLONG	37.78	269.9	7 19A	-1	13	14	3	
TIKSI	38.69	357.1	7 24	-3	13	20	-5	8 58 PP
CHITTAGONG	39.10	265.3	7 32A	1	13	34	3	9 6 PP
CHATRA	41.27	274.2	7 51A	2	14	7	4	
CALCUTTA	41.91	267.6	7 57	3	14	24	11	
SEMIPALATNSK	43.02	310.4	8 2	-1	14	30	1	9 45 PP
BOKARO	43.54	270.7	8 9K	2	14	38	1	9 54 PP
PORT BLAIR	43.81	250.8	8 20	11	14	49	8	18 7 SS
PORT MORESBY	43.95	162.0	8 8	-2	14	50	7	8 45
MEDAN	44.58	236.5	8 33K	17	14	57	5	
DJAKARTA	47.13	219.2	8 38	2	15	30	1	
LEMBANG	47.27	217.8	8 37K	0	15	29	-1	
FRUNSE	47.36	300.0	8 37	-1				12 35
DEHRA DUN	47.67	282.7	8 40	0	15	36	0	10 34 PP
AGRA	48.79	278.7	8 45A	-4	15	59	7	10 52 PP
TASHKENT	51.55	299.1	9 7	-3				11 7 PP
WARSAK DAM	51.76	289.5	9 11	-1				
HYDERABAD	52.52	267.1	9 18	1	16	48	5	11 21 PP
STALINABAD	52.61	295.8	9 16	-2	16	51	6	
CHARTERS TS.	54.07	166.4	9 23	-6				
SVERDLOVSK	54.42	319.5	9 29	-2	17	7	-2	12 39 PPP
COLLEGE	55.34	30.5	9 34	-4				
KHEYS	55.35	348.8	9 35	-3	17	21	-1	11 51 PP
POONA	55.87	270.9	9 40A	-2	17	24	-5	11 44 PP
BOMBAY	56.56	271.8	9 46	-1	17	52	14	11 51 PP
QUETTA	56.73	286.7	9 46	-2	17	37	-3	11 50 PP
KARACHI	58.77	280.9	9 55	-7				
ASHKABAD	60.60	298.2	10 16	1	18	39	9	14 11 PPP
APATITY	63.91	335.2	10 34	-3	19	11	-1	19 30 PS
NORD	64.55	355.5	10 36	-5				23 37 SS
SODANKYLA	66.34	336.3	10 49	-4				
MOSCOW	66.98	322.4	10 54	-3	19	50	0	13 28 PP
PERTH	67.10	197.3	11 4	6	19	51	0	
RESOLUTE	67.71	12.6	10 57A	-4	19	54	-5	
ADELAIDE	67.84	176.3	11 0	-2				
KIRUNA	68.11	338.1	11 0	-4	20	2	-1	11 14

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RIVERVIEW	68.40	165.2	11	6A	0	20	7	0		24	23 SS
PULKOVO	68.62	328.2	11	5	-2	20	13	4		13	39 PP
GORIS	68.63	303.9	11	18	11	20	12	2			
TIFLIS	68.72	306.5	11	7	-1	20	14	3		13	42 PP
CANBERRA	69.41	167.4	11	10	-2	20	17	-2			
THULE	69.77	5.6	11	8	-6						
NURMIJARVI	70.66	330.5	11	17	-3					11	44 PCP
HELSINKI	70.72	330.1	11	17	-3						
SKALSTUGAN	73.39	336.8	11	32A	-4					12	2
UPPSALA	73.89	332.1	11	36	-3	21	8	-2		11	45
SIMFEROPOL	74.05	313.4	11	39A	-1	21	11	-1		14	27 PP
CORVALLIS	75.26	46.3	11	47	0						
SCORESBY SD.	75.32	352.0	11	45	-2						
IASI	76.68	317.9	11	42	-13						
LWOW	77.08	321.5	11	56	-1	21	48	2		14	57 PP
WARSAW	77.14	324.7	11	0	-57	22	4	18		29	51 SSS
GOTEBORG	77.52	332.4	11	56	-3						
SHASTA	77.92	49.2	12	0	-1						
HUNGRY HORSE	78.41	39.3	12	1	-3						
MINERAL	78.61	49.2	12	5	0						
KSARA	78.72	302.9	12	6	0	22	16	13		15	7 PP
COPENHAGEN	78.73	330.7	12	4	-2	21	59	-4		22	23 SCS
KRAKOW	79.04	323.4	12	5	-3	21	43	-24		12	14 PCP
BUCHAREST	79.12	316.2	12	6	-2					15	7 PP
CHORZOW	79.36	323.9				22	15	5		23	53 PS
SKALNATE PL.	79.43	322.5	12	7	-3						
BERKELEY	79.56	51.6	12	14	4	22	11	-1		12	50
RACIBORZ	79.88	324.1	13	10	58					13	58
RENO	80.20	49.1	12	14	0						
LICK	80.27	51.8	12	16	2						
JERUSALEM	80.28	301.5	12	13	-1						
KARAPIRO	80.31	148.3	12	12	-2					12	34
BUTTE	80.62	40.6	12	15	-1						
POTSDAM	80.75	328.0	12	15	-2						
HURBANOVO	81.31	322.4				22	22	-8			
COLLMBERG	81.52	327.3	12	19	-2	22	34	2		15	26 PP
BOZEMAN	81.67	40.2	12	19	-3						
BRATISLAVA	81.67	323.1	12	22	0					15	18 PP
PRUHONICE	81.71	325.6	12	20A	-2	22	39	5		15	9 PP
SOFIA	81.76	316.0	12	22	0	22	43	8			
FRESNO	81.80	51.4	12	28	6						
HALLE	81.86	327.9	12	21	-2	22	37	1		15	23 PP
BELGRADE	82.07	319.0	12	22K	-2	22	44	6			
JENA	82.42	327.6	12	22	-4	22	55	13			
PLAUEN	82.47	327.0	12	24	-2						
EUREKA	82.64	47.4	12	24	-3						
CHEB	82.66	326.7	12	24	-3					28	24 SS
SONNEBERG	82.98	327.4	12	24	-4						
MUNSTER	83.39	330.2	12	40	9						
ZAGREB	83.81	321.9	13	12	39						
HELWAN	84.12	301.8	12	32	-2	22	54	-5			
SALT LAKE C.	84.33	44.4	12	36	1						
BENSBERG	84.33	329.7	12	34	-1						
ROXBURGH	84.34	156.2				22	59	-2		28	56 SS
LJUBLJANA	84.40	322.7	12	34A	-2					12	56
PASADENA	84.41	52.7	12	34	-2	22	58	-4		28	36 SS
ATHENS	84.43	312.1	12	31	-5						
HEIDELBERG	84.80	327.9	12	35	-3						
STUTTART	85.01	327.2	12	37	-2	23	5	-3		15	57 PP
TRIESTE	85.07	322.8	12	39	0					16	13 PP
TUBINGEN	85.28	327.1	12	39	-1						
RAVENSBURG	85.57	326.3	12	42	1						
EBINGEN	85.58	326.9	12	41	-1						
UCCLE	85.62	330.9	12	39	-3	23	0	-13			
STRASBOURG	85.83	327.8	12	42	-1	23	18	3		28	54 SS
DOURBES	86.05	330.4	12	57	13						
BASLE	86.69	327.2	12	45K	-2					19	37 PPP
RAPID CITY	86.88	37.6	12	49	1						
KEW	86.92	333.7				23	14	-12			
NEUCHATEL	87.38	327.1	13	3	13						
RATHFARNHAM	87.46	337.7								14	2
PARIS	87.93	330.6	12	52	-1						
CHIAVARI	88.23	324.1								16	42 PPP
ROME	88.34	320.8				23	21	-18		16	21 PP
MESSINA	89.19	316.5	12	57	-2	23	45	-2		16	30 PP
MONACO	89.59	324.7	13	4	3						
TUCSON	90.41	50.4	13	14	9						
TUCSON TELE.	90.42	50.3	13	3	-2					14	14
SETIF	96.26	320.9								17	5 PP

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ALICANTE	97.53	325.9	13 33	-4	24 52	37		26 18	PS
BREBEUF	97.68	19.6	13 36	-2					
SERRA PILAR	98.69	332.7	13 36A	-7	24 12	-9	13 47	19 30	PPP
TERRE ADELIE	99.76	177.3	13 58	11					
WILKES	100.85	189.6	13 58	6	24 28	-3		17 56	PP
LISBON	100.98	331.9			24 36	4			
PALISADES	101.70	21.6						18 11	PP
TAMARASSET	106.18	311.7			25 1	5		18 25	PP
CAPE HALLETT	108.02	169.2			24 8	-56		28 28	PS
BERMUDA	112.37	17.6						19 18	PP
SOUTH POLE	122.94	180.0	18 55	-4				19 21	
BYRD STATION	125.14	168.2	19 1	-2					
MBOUR	125.51	325.4						20 52	PP
CARACAS	132.02	29.0	22 9	173	29 35	190			
CHINCHINA	132.52	42.8						22 46	PKS
FUQUENE	133.16	40.3						22 55	PKS
BOGOTA	133.68	41.4						22 55	PKS
HUANCAYO	145.53	59.5	19 10	-30				20 15	
LA PAZ	153.66	56.6	19 57	4				20 26	PKP2
SANTA LUCIA	158.93	97.8						44 23	SS

FEBRUARY 1 11.H 59.M 39.S EPICENTRE 35.28 22.99 DEPTH= 0.KM

A= 0.75314 B= 0.31960 C= 0.57501 D= 0.3906 E=-0.9205  
G= 0.5293 H= 0.2246 K=-0.8181 HT= 0.0

SE= 2.61

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
ATHENS	2.75	12.1	0	51K	5					1	43	SG
REGGIO CALA.	6.54	297.6	1	39	-1					2	50	
MESSINA	6.65	298.2	1	41	-1	2	57	-2		1	58	P*
SOFIA	7.41	1.9	1	56A	4	2	30	-48		2	0	PP
ISTANBUL KA.	7.50	37.8	1	55K	1					3	42	SG
HELWAN	8.86	125.2	2	11K	-2	3	45	-9				
I SOLA	9.01	310.0				3	51	-2				
BUCHAREST	9.43	13.7	2	38	18	4	23	14		2	58	PG
BELGRADE	9.72	349.2	2	29A	4	4	29	13		4	15	
TIMI SOARA	10.54	353.2	2	51	15					5	45	
ROME	10.55	311.9	2	42A	6	5	8	32				
KSARA	10.73	94.1	2	44	6	4	48	8				
JERUSALEM	10.78	105.4	2	38	-1	4	30	-12				
FOCSANI	10.89	15.8	2	31	-9					2	55	
ZAGREB	11.79	335.3	2	49	-4					6	59	SGSG
IASI	12.39	14.7	3	0	-1							
CUGLIERI	12.42	297.4								3	51	
TRIESTE	12.51	328.7				5	26	2		7	3	SGSG
LJUBLJANA	12.52	331.8	3	0K	-3					3	15	PP
BUDAPEST	12.54	347.5								5	47	SSS
PRATO	12.55	316.7	3	14	11	6	0	35				
SIMFEROPOL	12.86	38.0	3	9	2							
HURBANOVO	13.07	345.6								6	53	
BRATISLAVA	13.60	343.0				5	59	9				
CHIAVARI	13.84	314.8								4	2	
VIENNA-H.	13.86	341.2	3	19	-1	5	51	-5				
SETIF	14.32	278.8	3	34	8					3	45	PP
PAVIA	14.44	317.4				6	41	31		8	53	
LWOW	14.55	2.7	3	31	2	6	19	6				
MONACO	14.66	309.8	3	32	1							
KRAKOW	14.93	352.3	3	33	-1					3	41	PP
RACIBORZ	15.20	348.1	3	42	4					3	46	PP
PRUHONICE	15.93	339.8	3	44K	-3	6	55	10				
RAVENSBURG	15.98	325.5	3	50	2							
PRAGUE	16.05	339.7	3	49K	0	6	59	11				
EBINGEN	16.57	325.3	3	57	1							
CHEB	16.69	335.6	3	59	2							
TUBINGEN	16.77	326.3	3	57	-1							
NEUCHATEL	16.79	319.1	3	58	0							
BASLE	16.80	321.4	3	59A	1					6	43	
STUTTGART	16.86	327.3	3	59	0	7	6	-1		4	8	PP
WARSAW	17.00	355.8	4	5	4	7	8	-2		4	13	PP
PLAUE	17.12	335.9	3	57	-5					4	45	PP
SONNEBERG	17.36	334.0	4	8	3							
STRASBOURG	17.42	324.4	4	7	1	7	33	14		5	24	

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1960										PAGE 84
BESANCON	17.46	318.4	4 8	1						
COLLMBERG	17.56	338.8	4 8A	0	7 32	9			5 40	
HEIDELBERG	17.57	327.8	4 8	0						
JENA	17.69	335.7	4 10	0	7 33	8			4 22	
HALLE	18.05	337.3	4 14	0	7 42	8			5 19	PP
TIFLIS	18.22	62.8	4 17	1						
RELIZANE	18.28	278.0	4 18	1	7 57	18			4 50	PPP
CLERMONT-FD.	18.34	310.9	4 18	0					5 20	
POTSDAM	18.50	340.6	4 20	0	7 53	9			4 35	PP
ALICANTE	19.03	286.2	4 24	-2	7 57	1			4 50	PPP
BENSBERG	19.40	328.7	4 30	0					5 29	
TAMANRASSET	19.68	235.4	4 33	-1	8 13	3			5 2	PPP
DOURBES	19.97	323.5	4 37	0	8 22	5				
MUNSTER	19.98	331.3	4 37	0					7 26	
PARIS	20.28	318.1	4 39A	-1						
MAKHACH-KALA	20.46	60.6	5 27	45						
UCCLE	20.55	324.7	4 43	0	8 34	5				
ALMERIA	20.63	281.8	4 41K	-3	8 48	18			5 10	PP
WITTEVEEN	21.01	331.6	4 51	3						
DE BILT	21.08	328.4			8 51	12				
GRANADA	21.52	282.9	4 52A	-1					5 35	PP
COPENHAGEN	21.65	343.7	4 53A	-1	8 59	9				
TOLEDO	21.88	290.2	4 56	-1	8 57	3			9 41	SS
FOLINIERE	21.93	315.1	4 56	-1						
MOSCOW	22.79	21.7	5 5	-1	9 12	1				
KEW	23.28	321.2	5 12K	2	9 33	13			5 31	PP
GÖTEBORG	23.61	345.2	5 13	-1						
UPPSALA	24.83	353.5	5 24	-1						
HELSINKI	24.94	2.3	5 26	0	9 59	11			8 21	
PULKOVO	24.96	8.8	5 26	-1	9 54	5				
NURMIJARVI	25.27	1.9	5 29	-1	9 56	2				
RATHFARNHAM	27.34	320.3	6 14A	25					6 45	
SKALSTUGAN	29.09	350.1	6 3	-2						
BANGUI	31.01	188.5	6 26	4					19 2	
SODANKYLA	32.20	2.6	6 30	-2						
KIRUNA	32.63	358.2	6 34	-2						
APATITY	32.87	7.4	6 36	-2						
SVERDLOVSK	33.23	37.8	6 39	-2						
QUETTA	37.10	35.2	7 14	0	12 58	-3				
LWIRO	37.73	170.5	7 20K	1						
WARSAK DAM	39.65	77.4	7 35	-1						
MBOUR	41.45	250.1							8 31	
SCORESBY SD.	42.59	339.5	8 4	4						
KHEYS	47.38	7.4	8 35	-3						
BROKEN HILL	49.73	173.0	8 57	1						
THULE	56.33	343.5	9 44	-1						
SHILLONG	59.13	79.0	9 48A	-17						
CHITTAGONG	60.59	82.3	10 14	-1					12 32	PP
ULAN-BATOR	61.06	49.8	10 19	1						
TIKSI	61.68	20.3	10 20	-2						
RESOLUTE	63.09	344.7	10 30	-2						
HALIFAX	64.07	307.6	10 34	-4						
YAKUTSK	66.67	29.5	10 55	0						
SEVEN FALLS	67.49	312.5	11 0	0						
SHAWINIGAN	68.94	312.6	11 11	2						
BREBEUF	69.97	312.0	11 16K	0						
OTTAWA	71.29	312.7	11 23	-1						
COLLEGE	79.92	356.0	12 11	-2						
Y.-SAKHLINSK	81.85	36.9	12 24	1						
ST. LOUIS 1	83.98	313.6	12 33K	-1						
MATUSIRO	86.55	46.9	12 46	-1						
LAWRENCE	86.66	316.5	12 45	-2						
RAPID CITY	87.11	324.4	12 50	1						
LITTLE ROCK	87.81	311.9	12 52	-1						
FAYETTEVILLE	88.02	313.9	12 53	-1						
HUNGRY HORSE	88.33	332.9	12 55	0						
BOZEMAN	89.36	329.7	13 0	0						
BUTTE	89.69	330.8	13 1	-1						
LARAMIE	90.35	323.9	13 5	0						
SOUTH POLE	125.10	180.0	18 59	-4						
KARAPIRO	157.83	104.9	20 18	19						

FEBRUARY 1 13.H 56.M 8.5 EPICENTRE 50.65 159.87 DEPTH= 0.KM

A=-0.59780 B= 0.21906 C= 0.77114 D= 0.3441 E= 0.9389  
G=-0.7241 H= 0.2653 K=-0.6367 HT=-5.7





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1960						PAGE 86
COLLMBERG	74.60	339.2	11 42K	0		12 22
HALLE	74.65	339.9	11 41	-1		
JENA	75.27	339.9	11 44	-2		12 12
PRUHONICE	75.47	337.7	11 48K	1		12 6
RATHFARNHAM	75.77	351.5	12 27A	38		
STUTTART	77.80	340.6	12 1	1		
FOLINIERE	79.54	346.9	12 10	0		
KSARA	82.48	315.9	12 22	-3		
ISOLA	84.23	334.7	12 27	-7		12 33 PCP
JERUSALEM	84.50	315.3	12 36	0		
TAMANRASSET	103.46	335.7				18 9 PP
LA PAZ	128.78	66.1	19 12	3		
BYRD STATION	137.83	165.1	19 16	-10		
KIMBERLEY	139.90	285.8	19 31	1		

FEBRUARY 2 23.H 51.M 54.S EPICENTRE 33.83 104.44 DEPTH= 0.KM

A=-0.20759 B= 0.80615 C= 0.55410 D= 0.9684 E= 0.2494  
G=-0.1382 H= 0.5366 K=-0.8325 HT= 0.5

SE= 1.84

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
LANCHOW	2.27	347.4	0 43A	4				
CHENG TU	3.18	186.7	0 56A	4	1 36	5		
SIAN	3.74	82.3	1 0	0				
KUNMING	8.80	190.1	2 11	0	3 49	-4		
PEKING	11.24	53.2	2 43	-2				
LHASA	12.15	253.5	2 37	-20				
NANKING	12.18	94.4	3 1	3	5 18	3		
CANTON	13.25	141.6	3 11	-1	5 34	-7		
SHILLONG	13.67	236.3	3 16A	-1				3 50 PP
ULAN-BATOR	14.20	6.8	3 23	-2				
HONG KONG	14.33	140.8	3 27	1				
CHITTAGONG	15.94	227.4	3 45	-2				3 57 PP
CHATRA	16.45	249.5	3 52	-2				7 8
IRKUTSK	18.43	359.8	4 20A	1				
CHANGCHUN	19.04	52.2	4 26	0	8 0	4		
BOKARO	19.10	243.4	4 23	-4				
DEHRA DUN	22.61	268.4	5 7	3	9 14	7		10 19 SSS
ALMATA	23.39	301.9	5 14	3				
AGRA	23.69	260.7	5 37A	23	9 55	29		
SEMI PALATNSK	24.25	320.3	5 20	0				
WARSAK DAM	27.23	279.7	5 49	1				
MATUSIRO	27.65	74.7	5 50	-1	10 53	20		
TASHKENT	28.71	295.4	6 2	1				16 42 SCS
QUETTA	31.89	273.9	6 29	0				
YAKUTSK	32.48	22.0	6 30	-4				
SVERDLOVSK	37.52	321.3	7 19	2				
TIKSI	40.02	11.8	7 38	0	13 50	5		9 14 PP
SHIRAZ	43.98	279.3	8 11	0				9 16
MOSCOW	50.03	317.3	8 58	0				
KHEYS	50.15	351.1	8 59	0				11 2 PP
APATITY	52.00	332.6	9 16	3				
SODANKYLA	54.62	332.4	9 31	-2				
HELSINKI	56.23	323.7	9 43	-1				
NURMI JARVI	56.32	324.2	9 43	-2				
LWOW	59.20	312.0	10 5	0				
PRUHONICE	64.90	314.5	10 43	0				
HALLE	65.80	316.8	10 48	-1				
JENA	66.25	316.3	10 51	-1				
CHARTERS TS. COLLEGE	66.80 66.88	137.0 26.2	10 55 10 55	-1 -1				
THULE	69.92	358.2	11 14	-1				
RESOLUTE	71.02	5.3	11 21A	-1				
SETIF	77.29	305.0	11 59	1				
LWIRO	79.36	260.1	12 10	1				13 57
BROKEN HILL	86.67	250.3	12 49A	2				
SOUTH POLE	123.65	180.0	18 58	-2				

FEBRUARY 3 2.H 21.M 0.S EPICENTRE -37.43 177.92 DEPTH= 0.KM

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1960

PAGE 87

A=-0.79550 B= 0.02887 C=-0.60526 D= 0.0363 E= 0.9993  
G= 0.6049 H=-0.0220 K=-0.7960 HT= -0.7

SE= 3.83

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
TUAI	1.49	203.8	0	32	4	0	57	9				
KARAPIRO	1.95	254.6	0	38K	4	1	12	12				
CHATEAU	2.57	226.0	0	47	4							
TONGARIRO	2.58	226.1	0	47	4							
ONERAHI	3.31	299.1	0	58	4	1	37	3				
WELLINGTON	4.55	211.5	1	9	-2	2	1	-5			1	21 P*
COBB RIVER	5.43	226.3	1	22	-2	2	23	-5			1	28 PG
KAIMATA	7.12	222.5	1	45	-3	3	2	-8			2	17
GEBBIES PASS	7.43	211.0	1	47	-5	3	5	-13			2	32 PG
RAOUL ISLAND	8.87	24.3	2	16	4	3	48	-6				
ROXBURGH	10.30	216.0	2	32	0	4	0	-29			5	5 S*
NOUMEA	18.04	323.5	4	16	3	7	45	12				
KOUMAC	20.58	321.0	4	35	-8	8	33	5				
RIVERVIEW	22.03	271.3	4	59A	2	9	5	9			5	34 PP
CANBERRA	23.34	266.4	5	13K	3	9	25	5				
BRISBANE	23.41	288.0	5	10	-1	9	19	-2				
FORT NELSON	23.92	247.1	5	42	26							
AFIAMALU	25.16	24.1	5	30	2	9	53	2				
MELBOURNE	26.03	259.0	5	39	3						5	53 *SP
ADELAIDE	31.58	262.4	6	26K	0						9	17 PCP
CHARTERS TS.	32.49	293.3	6	33	-1	11	45	-4				
PORT MORESBY	39.37	307.3	7	31A	-1	13	31	-3	7	45	9	7 PP
RABAUL	40.61	318.3	7	41	-2						9	6
WILKES	47.37	210.4				15	19	-12			19	0 SS
BYRD STATION	48.70	168.1	8	46	-2							
MUNDARING	50.24	256.8	8	55	-4	16	0	-11				
SOUTH POLE	52.75	180.0	9	17	-1						14	14
KIPAPA	62.77	25.3	10	38	9							
LEMBANG	70.25	276.6	11	13A	-3							
MANILA	74.39	302.7	11	37	-4						14	11
BAGUIO CITY	75.98	303.6									11	45 P*
ABUYAMA	82.00	326.0	12	19A	-4							
MATUSIRO	82.28	328.7	12	16	-8	22	30	-10			15	30 PP
Y.-SAKHLINSK	89.79	336.8	12	57	-4							
VLADIVOSTOK	90.43	328.2	13	0	-4							
LICK	93.01	44.0	13	18	2							
FRESNO	93.64	45.4	13	45	26							
SHASTA	95.03	41.2	13	30	5							
MINERAL	95.20	41.9	13	28	2							
RENO	95.59	43.5	13	46	18							
HUANCAYO	95.67	109.7									25	29 PS
TUCSON	96.00	53.8	13	33	3							
TUCSON TELE.	96.13	53.8	13	38	8							
CHITTAGONG	100.30	290.2	17	51	777							
COLLEGE	105.45	14.4	14	17	777						18	23 PP
ULAN-BATOR	105.89	318.6	18	36	777							
YAKUTSK	106.47	338.5	17	14	777							
RAPID CITY	107.99	48.0	18	47	777						19	16 PP
BULAWAYO	115.85	212.2	18	42K	-2							
BROKEN HILL	120.93	215.0									18	53 PP
SAN JUAN	121.37	90.1	18	58	3							
WARSAK DAM	121.55	290.7	18	50	-5							
HUETTA	123.33	284.6	18	55	-4						20	37 PP
RESOLUTE	124.96	18.9	18	55	-7							
PALISADES	125.70	62.3									37	9 SS
OTTAWA	125.98	56.7	19	1	-3							
BREBEUF	127.41	57.1	19	4A	-3							
SHAWINIGAN	128.29	56.1	19	4	-4							
SEVEN FALLS	129.73	55.9	19	8	-3						22	24
LWIRO	131.23	223.0	19	11K	-3						22	29
THULE	131.60	16.8	19	0	-15						22	25 PKS
SHIRAZ	134.37	277.0	19	26	6							
SVERDLOVSK	134.93	316.4	19	17	-4							
BANGUI	142.04	215.0	19	37	3						23	17
APATITY	143.87	337.8	19	30	-7							
TIFLIS	143.96	291.8	19	38	1							
SCORESBY SD.	145.25	11.6	19	35	-4							
SODANKYLA	145.92	340.6	19	36	-4							
KIRUNA	147.04	344.5	19	39	-3							
MOSCOW	147.73	317.4	19	41	-2							
OULU	147.95	338.3	19	42	-2							
PULKOVO	149.56	327.6	19	46	0							

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REYKJAVIK	150.74	17.7	19 52	4	
HELWAN	151.29	264.7	19 51	2	20 35
NURMIJARVI	151.37	332.3	19 51	2	
HELSENKI	151.48	331.6	19 51	2	
SIDA	151.91	15.1	19 49	-1	
SIMFEROPOL	151.92	297.0	19 51	1	
SKALSTUGAN	152.41	346.1	19 48	-3	20 18
MBOUR	153.49	146.1			20 19 PKP2
UPPSALA	154.26	336.9	19 56	3	20 31
GOTEBORG	157.70	339.9			20 32 PKP2
KRAKOW	159.80	315.6			20 37 PKP2
RACIBORZ	160.73	317.4			20 46 PKP2
COLLMBERG	162.49	327.1	20 48A	45	24 30 PP
PRUMONICE	162.68	321.6	20 50A	47	24 40 PP
HALLE	162.78	329.2	20 50	47	
JENA	163.37	328.5	20 50	46	21 27
TAMANRASSET	163.99	206.3	20 1A	-3	25 3 PP
LJUBLJANA	164.93	310.1	20 2	-3	21 3 PKP2
STUTTGART	165.98	327.5	20 1	-5	21 2 PKP2
TUBINGEN	166.25	327.3	21 9	63	
EBINGEN	166.56	326.5	21 6	59	
STRASBOURG	166.75	330.3	21 22	75	22 17
BESANCON	168.53	331.3	21 17	69	
FOLINIERE	168.61	354.6	21 16	68	
SETIF	173.88	260.7	20 2	-9	20 28
RELIZANE	177.30	232.3	20 9	-3	21 40 PKP2
GRANADA	178.76	101.3	20 55K	43	26 43 PP
ALMERIA	179.34	151.7	20 7K	-5	20 27 26 3 PP

FEBRUARY 3 12.H 49.M 19.S EPICENTRE 43.07 139.40 DEPTH= 217.KM

A=-0.55647 B= 0.47690 C= 0.68037 D= 0.6507 E= 0.7593  
G=-0.5166 H= 0.4427 K=-0.7329 HT= -2.8

DEPTH OF FOCUS= 0.029R

SE= 2.51

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
SUTTSU	0.66	113.3	0	28	-3	0	48	-7				
MORI	1.29	137.8	0	33	-1	0	58	-3				
MURORAN	1.38	122.1	0	33	-2	0	59	-3				
SAPPORO	1.43	89.2	0	32K	-4	0	57	-6				
HAKODATE	1.61	140.9	0	35K	-2	1	1	-5				
TOMAKOMAI	1.66	104.5	0	37	-1	1	3	-3				
ASAHI GAWA	2.28	70.7	0	43	-1							
AOMORI	2.47	154.9	0	47	1	1	17	-4				
URAKAWA	2.66	109.0	0	45	-3	1	20	-4				
OBIIHRO	2.79	91.7	0	47	-2	1	21	-6				
WAKKANAI	2.87	34.0	0	48	-2	1	24	-4				
HATINOHE	2.99	147.2	0	49	-2	1	24	-7				
HIROO	2.99	103.9	0	49	-2	1	26	-5				
AKITA	3.38	170.9	0	55K	-1	1	38	-1				
MORIOKA	3.62	157.8	0	57	-2	1	42	-2				
KUSIRO	3.67	89.6	0	51	-8	1	36	-9				
MIYAKO	3.92	149.6	0	58	-4	1	41	-10				
MIZUSAWA	4.14	161.1	1	3	-2	1	58	3				
NEMURO	4.52	84.5	1	27	17	1	55	-9				
Y.-SAKHLINSK	4.60	29.6	1	9	-2	2	2	-4				
ISINOMAKI	4.85	161.9	1	11	-3	2	5	-6				
SENDAI	4.92	166.1	1	13	-2	2	9	-4				
HUKUSIMA	5.37	170.9	1	17	-4	2	25	2				
VLADIVOSTOK	5.49	273.1	1	24	2	2	29	3				
WAZIMA	5.99	199.5	1	31	3							
NAGANO	6.45	188.6	1	35	1							
UTUNOMIYA	6.52	176.7	1	34	-1						2 46	
MATUSIRO	6.58	188.4	1	36K	0	3	8	17			2 24	
DIWAKE	6.76	185.9	1	40	2							
KAKIOKA	6.85	174.7	1	36	-4	2	49	-8				
TUKUBASAN	6.86	175.3	1	35A	-5	2	49	-8				
KUMAGAYA	6.91	180.2				2	53	4				
TOKYO C.M.O.	7.38	177.8	1	49	3	3	4	-5				
KOHU	7.41	185.3	2	18	31							
YOKOHAMA	7.63	178.5				3	11	-1				
ABUYAMA	8.71	201.3	2	4K	0							



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KAMEYAMA	42.53	339.1					8 27	
TOKUSIMA	42.55	336.5					8 38	
KOHU	42.58	341.9					8 19	
NARA	42.61	338.3					8 1	
KAKI OKA	42.63	344.0	7 44	-1				
TUKUBA SAN	42.64	343.9	7 38A	-7	13 15	-42	8 54 PP	
NAGOYA	42.64	339.9					8 25	
SUMOTO	42.66	337.1					8 0	
MITO	42.69	344.4					7 49	
OSAKA	42.69	338.0					8 41	
TITIBU	42.71	342.7	8 8	23				
KUMAGAYA	42.78	343.1	7 45	-1			11 0	
KOBE	42.85	337.6					10 6	
ROXBURGH	42.86	163.6	7 43	-3	13 57	-3	17 33 SS	
ABUYAMA	42.87	338.1	7 44A	-3				
GIHU	42.92	339.8					8 44	
KYOTO	42.95	338.4					8 30	
TAKAMATU	42.98	336.1	7 44	-3				
TAICHUNG	42.98	313.4	7 45	-2				
UTUNOMIYA	43.02	343.8					7 57	
HIKONE	42.98	339.1					8 4	
OOITA	43.09	332.8					8 25	
MATUYAMA	43.09	334.4					8 45	
MAEBASI	43.10	342.9					7 59	
ONAHAMA	43.12	345.2					7 46	
KUMAMOTO	43.18	331.5					8 2	
OIWAKE	43.19	342.3	7 57	8				
MATUMOTO	43.30	341.6					8 0	
SHIRAKAWA	43.46	344.5					8 9	
MATUSIRO	43.49	342.0	7 49A	-3	14 8	-2	8 52	
NAGASAKI	43.50	330.6	7 51A	-1	14 16	6		
NAGANO	43.62	342.1			14 14	3	8 4	
HUKUI	43.69	339.6					8 49	
HIROSIWA	43.70	334.5					8 10	
SAGA	43.72	331.5	8 29	36				
HUKUOKA	43.96	331.8	7 47	-8	14 18	2		
TOYAMA	43.96	341.0	7 59	4			15 8	
HUKUSIMA	43.98	345.1					8 6	
MUNDARING	44.19	227.6	7 56A	-1	14 20	0		
HAMADA	44.30	334.5					8 17	
SENDAI	44.37	345.8	8 6	7			15 58	
ISINOMAKI	44.42	346.3	7 57	-2			8 34	
PERTH	44.46	227.9	8 0	1	14 52	29	11 1	
YAMAGATA	44.49	345.2					8 19	
MIYAKO	45.44	347.5			14 56	19	8 57	
MORIOKA	45.66	346.7					8 4	
AKITA	45.94	345.6					8 28	
HATINOHE	46.38	347.4	8 13	-1			14 25	
DJAKARTA	46.48	266.0	8 13	-2	14 46	-6		
AOMORI	46.82	346.7					8 55	
HONG KONG	46.94	306.5	8 19A	0	15 24	25		
ZO-SE	47.15	321.3	8 20A	-1	15 4	2		
URAKAWA	47.68	349.2					8 42	
HAKODATE	47.77	347.1					8 42	
CANTON	48.00	306.9	8 29A	2	15 21	7		
MORI	48.09	347.1					8 59	
MURORAN	48.21	347.5					8 43	
KUSIRO	48.21	351.0			15 5	-12	8 45	
OBIHIRO	48.35	349.9					8 53	
TOMAKOMAI	48.38	348.2					8 49	
NEMURO	48.39	352.3					9 5	
SAPPORO	48.85	348.2					8 49	
ABASHIRI	49.25	351.2					8 52	
NANKING	49.30	320.4	8 37A	0	15 36	4		
WAKKANAI	51.05	349.3					9 16	
VLADIVOSTOK	51.50	339.8	8 53	-1	16 3	1	19 31 SS	
Y.-SAKHLINSK	52.42	350.7	8 59	-2			16 20	
HONOLULU	54.02	59.5	9 11	-1	16 45	9	14 18 SCP	
KIPAPA	54.13	59.4	9 13	0			10 1 PCP	
MEDAN	55.40	277.6	9 22K	-1	17 3	8		
PEKING	56.24	325.9	9 27A	-2	17 7	1		
SIAN	57.19	316.2	9 34A	-1				
PETROPAVLOVK	57.71	3.7	9 37	-2	17 27	2		
CHENG TU	58.93	310.1	9 47A	0	17 47	6		
LANCHOW	61.68	315.4	10 7A	1	18 22	6		
PORT BLAIR	62.62	285.7	10 11	-1	18 26	-2		
MAGADAN	64.13	358.5	10 20	-2	18 51	4		
CHITTAGONG	66.02	296.9	10 34A	0	19 22	12	13 1 PP	
ULAN-BATOR	66.44	327.8	10 37	0	19 20	5		





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JERUSALEM	116.45	303.1	19 23	55						20 25 PP
GRAHAMSTOWN	117.17	228.8	18 13	-16						
IASI	117.32	321.6	19 23	53						20 12
BACAU	118.01	321.2								19 55 PP
LWOW	118.23	325.4								29 43 PS
WARSAW	118.61	328.9	18 34	2	25 45	31				19 57 PP
ISTANBUL KA.	118.68	314.7								19 59 PP
PRETORIA	118.97	237.2	19 12	39						
BUCHAREST	119.42	319.2	19 44	70						23 29 PKS
HELWAN	120.12	301.8	18 36	1						20 1 PP
KRAKOW	120.38	327.2	18 20	-15	26 8	48				20 17 PP
BULAWAYO	120.51	243.4	18 37A	1						
KIMBERLEY	120.55	232.7	18 39	3						
REYKJAVIK	120.64	357.7	19 1	25						20 14
MORGANTOWN	120.69	46.2	19 5	29						
SIDA	120.77	355.7	19 13	37						20 13
OTTAWA	121.12	38.6	18 36	-1						28 40
RACIBORZ	121.29	328.0								20 33
IVIGTUT	121.35	12.1								31 10 PPS
PENNSYLVANIA	121.71	44.2								20 17
COLUMBIA	121.74	52.7	18 50	12						
HERMANUS	121.94	224.2								20 16 PP
SOFIA	121.98	318.4	18 10A	-29	24 48	-37				19 26 PP
BROKEN HILL	122.28	249.7	18 42K	3						
BUDA PEST	122.29	325.1	19 48	69						20 12 PP
SHAWINIGAN	122.33	36.2	18 39	0						
SREBEUF	122.36	37.6	18 41A	2						20 32 PP
POTSDAM	122.41	332.5	19 22	43						
CHAPEL HILL	122.67	50.0								20 30
BELGRADE	122.82	321.8	17 47	-53						19 23 PP
SEVEN FALLS	123.15	34.8	18 41	0						
COLLMBERG	123.15	331.5	18 42	1	25 38	9				20 20 PP
PRUHONICE	123.23	329.6	18 43	2						20 27 PP
PRAGUE	123.24	329.7								20 23 PP
VIENNA-H.	123.33	327.0	18 45	4						22 10 PKS
HALLE	123.51	332.2	18 40	-2	25 33	3	19 12			
SANTA LUCIA	123.56	135.7	19 5	23	28 37	187				20 25 PP
ATHENS	123.67	313.1	18 55	13						
JENA	124.07	331.9	19 52	69						20 33 PP
PLAUEN	124.08	331.2	19 43	60						20 47
CHEB	124.25	330.7	19 27	44						37 43 SS
ABERDEEN	124.29	344.2	18 42K	-1	25 47	15				21 19 SKP
LWIRO	124.33	264.0	18 45A	2						29 52 PS
PALISADES	124.33	42.4	18 57	14	26 2	30	19 25			21 18 PP
WITTEVEEN	124.87	336.1	19 13	29						
ZAGREB	124.95	324.8	18 53	9			19 31			27 48
MUNSTER	125.10	334.9	19 21	36						23 3 PP
WESTON	125.37	39.8								21 11
LJUBLJANA	125.64	325.8	18 47K	1						20 24
DE BILT	126.01	336.4	18 43	-3						20 45 PP
BENSBERG	126.04	334.3	19 22	36						20 40
DURHAM	126.21	342.4	18 48	1						20 45 PP
TRIESTE	126.32	325.8	18 58	11						20 49 PP
HEIDELBERG	126.46	332.1	19 16	29						
STUTTGART	126.63	331.2	18 48	0						38 2 SS
TUBINGEN	126.89	331.1	19 31	43						
BALBOA HTS.	127.18	82.4	19 8	19						
EBINGEN	127.18	330.8	18 50	1						19 32
UCCLE	127.34	335.9	19 58	69						
STRASBOURG	127.48	331.9	18 48	-1						20 41 PP
DOUBES	127.77	335.1	19 35	45						21 0 PP
CHUR	127.81	329.3	18 54K	4						19 16
BASLE	128.31	331.1	17 59	-52						25 12 SKKS
KEW	128.58	339.3								22 16 PKS
HUANCAYO	128.65	109.4	18 56A	5	25 39	-6				
HALI FAX	128.69	33.5	19 8	16						
RATHFARNHAM	128.84	344.6	19 43	51						20 38
PRATO	128.89	325.5	19 24	32						21 55 PP
NEUCHATEL	128.99	331.0					19 25			23 48 PPP
ISOLA	129.06	320.7	18 57	5						22 29 SKP
PAVIA	129.11	327.9	19 49	57						21 53
BESANCON	129.27	331.8								19 37
ROME	129.28	322.7	18 53	0						21 7 PP
MESSINA	129.33	317.0	18 53	0	26 0	14				21 7 PP
WINDHOEK	129.49	235.7	18 56	3						
CHIAVARI	129.60	327.0	19 44	51						22 30 PP
PARIS	129.64	335.4	19 27	34						39 32 SS
FOLINIERE	130.86	337.4	18 58	2						

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MONACO	131.01	327.6	19 26	30				21 15	PP
CHINCHINA	131.05	87.6	19 1	5				22 47	PKS
CLERMONT-FD.	131.70	332.4	18 56	-1				21 26	PP
BOGOTA	132.58	88.1	19 13	14					
FUQUENE	132.95	87.0	19 2	2				21 47	
LA PAZ	133.73	118.1	19 5	4				22 33	PKS
BERMUDA	134.95	47.7	19 6	3	26 59	60		21 57	PP
BANGUI	135.04	271.4	19 1	-2				40 20	
SETIF	137.12	321.1	19 1	-6				21 50	PP
ALGIERS UNI.	138.18	323.6	19 8	-1	28 22	138		22 0	PP
SAN JUAN	138.99	67.4	19 10	-1				23 16	PKS
ALICANTE	139.03	328.3	19 11	0	26 20	14		22 46	PKS
CARACAS	139.54	79.4	18 37	-35				40 7	SS
TOLEDO	139.58	333.1	19 23	11	26 18	11		22 8	PP
RELIZANE	140.34	324.6	19 8	-5				20 43	
ALMERIA	141.20	328.6	19 13A	-2				22 15	PP
GRANADA	141.52	330.1	19 14K	-1	26 6	-4		22 29	PP
ST. KITTS	142.38	67.7	19 25	8					
LISBON	142.69	337.4	19 59A	42				21 46	
ANTIGUA	143.25	67.6	19 15	-3					
TAMANRASSET	144.25	303.1	19 20A	0				22 18	PP
GRENADA	144.42	76.0	19 18	-2					
FORT FRANCE	144.48	71.3	19 22	1					
ST. VINCENT	144.67	73.9	19 23	2					
BARBADOS	146.28	73.5	19 31	7					
PONTA DELGDA	147.16	358.8	20 8A	43				20 41	
LOME	152.39	274.1	19 47	14					
MBOUR	166.60	316.3	19 51	2				24 44	PP

FEBRUARY 4 9.H 27.M 34.S EPICENTRE -5.01 153.64 DEPTH= 125.KM

A=-0.89266 B= 0.44230 C=-0.08683 D= 0.44440 E= 0.8960  
G= 0.0778 H=-0.0385 K=-0.9962 HT= 7.0

DEPTH OF FOCUS= 0.015R

SE= 2.23

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PORT MORESBY	7.78	235.6	1	51	-1							
CHARTERS TS.	16.62	205.0	3	47	-1	6	55	9				
KOUMAC	18.59	147.1	3	49	-21	7	11	-18				
PORT VILA	19.13	132.5	3	16	-59							
GUAM	20.37	334.4	4	30	2							
NOUMEA	21.19	145.4	4	36	-1	8	25	5				
BRISBANE	22.27	182.0	4	48	1	8	45	6				
RIVERVIEW	28.76	184.3	5	47A	-1	10	30	3			6	46 PP
CANBERRA	30.46	187.5	6	3K	0	11	5	12			7	6 PP
ADELAIDE	32.85	202.9	6	24	0	11	33	2			13	32
MELBOURNE	33.61	192.5	6	30	0	11	47	5			14	0 SS
FORT NELSON	38.17	187.5									16	21 SSS
KARAPIRO	38.36	151.6	7	7	-3						7	31
BAGUIO CITY	39.02	303.7	7	16	0	14	2	57				
CHATEAU	39.39	152.8	7	42	23							
COBB RIVER	39.78	157.3	7	46	24							
WELLINGTON	40.76	155.4				14	6	35				
GEBBIES PASS	42.02	159.3	7	45	5							
ROXBURGH	42.56	163.7				14	4	7			16	56
MATUSIRO	43.79	342.0	7	51	-4	14	13	-2			16	25
MUNDARING	44.10	227.9	7	55	-2	14	21	1				
PERTH	44.37	228.2	7	59	0	15	8	44			17	51 SS
HONG KONG	47.20	306.6	8	26	4	15	18	14			16	6 *SS
ZO-SE	47.44	321.3	8	23	0	15	13	6			9	6 *SP
CANTON	48.26	307.0	8	31	1	15	28	9	9	0		
NANKING	49.59	320.4	8	41	1	15	44	7	9	9	9	24 *SP
MEDAN	55.57	277.8	9	25	1							
PEKING	56.53	325.9	9	29	-2	17	11	0			11	12 *SP
SIAN	57.47	316.3	9	36	-2	17	27	4				
CHENG TU	59.21	310.2	9	49	-1	17	53	7	10	20	10	32 *SP
LANCHOW	61.96	315.5	10	7	-2	18	25	4				
CHITTAGONG	66.26	296.9	10	37	0	19	24	10	11	7	13	7 PP
ULAN-BATOR	66.74	327.8	10	41	1							
SHILLONG	67.15	300.3	10	42	0	19	30	5				
WILKES	68.11	197.3				19	35	-1			24	12 SS
LHASA	69.12	304.2	10	57	3	19	58	10	11	25		
AGRA	79.57	298.6	11	55A	1							

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DEHRA DUN	80.17	301.8	12	17	19	21	57	7			
COLLEGE	81.75	21.6	12	1	-5	22	6	-1	12	34	
POONA	81.95	289.4	12	8	1						
BOMBAY	82.96	289.7	12	14	2	22	22	3		16	1 PP
LAHORE	83.54	302.4	12	15	0						
BYRD STATION	84.54	169.9	12	20	0						
SOUTH POLE	85.02	180.0	12	20	-2				12	47	14 9
WARSAK DAM	86.24	304.4	12	26	-2						
QUETTA	89.64	300.2	12	43	-2	23	27	4			23 3 SKS
PASADENA	91.28	56.0	13	17	25	23	39	2			23 27 SKS
EUREKA	93.45	50.8	13	9	7						
HUNGRY HORSE	95.26	42.0	13	12	2				13	47	
KSARA	115.75	305.1									19 35 PP
STUTT GART	126.92	331.2	19	17	28						
LA PAZ	133.49	118.2	19	16	15						
TAMANRASSET	144.51	302.9	19	19	-2						22 20 PP
MBOUR	166.88	315.9	19	55	5						20 48 PKP2

FEBRUARY 4 10.H 20.M 42.S EPICENTRE 35.64 77.38 DEPTH= 83.KM

A= 0.17801 B= 0.79487 C= 0.58008 D= 0.9758 E=-0.2185  
G= 0.1268 H= 0.5661 K=-0.8146 HT= -0.1

DEPTH OF FOCUS= 0.008R

SE= 2.87

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MURGAB	3.88	315.7	0	57	-2	1	29	-15				
LAHORE	4.81	212.8	1	12K	0	2	3	-4				
KHOROG	5.05	293.0	1	14	-1	2	12	-1				
WARSAK DAM	5.06	252.8	1	17	2							
DEHRA DUN	5.33	173.7	1	24	5	2	18	-2			1	30 PP
NARYN	5.88	349.8	1	29	3						3	21
ANDI JAN	6.45	323.8	1	34	0	2	44	-3			3	14
FERGANA	6.47	318.6	1	33	-2							
KULYAB	6.52	292.5	1	36	1	2	46	-3			2	14
PRZHEVALSK	6.88	6.3	1	42	2							
NAMANGAN	6.97	321.6	1	40	-2	2	56	-4			3	15
KURMENTY	7.38	5.2	1	48	1						1	58
STALINABAD	7.47	295.6	1	49	1						3	8
FRUNSE	7.49	344.3	1	41	-8						4	13
FABRICHNAYA	7.52	354.7	1	50	1							
ALMATA	7.63	357.6	1	51	0	3	58	42			1	59
CHILIK	7.96	5.5	1	58	3							
LUNACHARSKOE	8.49	314.4	2	35	33						4	31
AGRA	8.50	176.1	2	2K	0	3	31	-7				
TASHKENT	8.51	314.2	2	1	-2						3	53
TCHIMKENT	8.99	320.0									3	51
SAMARKAND	9.17	299.1	2	39	27							
QUETTA	10.31	241.1	2	25	-2	4	13	-9			2	41 *SP
BAIRAM-ALI	12.42	283.6	3	15	20	5	1	-11				
SEHORE	12.43	181.3				4	52	-20			5	25
BOKARO	13.85	145.9				5	35	-22				
KARACHI	13.98	222.4	3	13	-3	5	35	-14				
SEMI PALATNSK	14.90	7.2	3	25	-2							
ASHKABAD	15.42	284.2	3	37	3							
SHILLONG	15.99	124.9	3	37	-4							
KIZYL-ARVAT	17.14	288.2									7	12
BOMBAY	17.15	194.8	3	54	-2	6	56	-6			6	9
POONA	17.33	191.3	3	58	0	6	59	-7				
SHIRAZ	21.74	261.1	4	46	0				5	1		
MADRAS	22.68	172.9	5	8	13	9	1	8			5	41
SVERDLOVSK	24.03	337.1	5	9	1							
ULAN-BATOR	25.04	51.5	5	20	2							
TIFLIS	26.05	293.4	5	30	3						10	8
MOSCOW	33.63	319.2	6	34	-1							
PULKOVO	38.64	323.6	7	17	0							
HELSINKI	41.34	323.1	7	41	2							
NURMIJARVI	41.56	323.6	7	43	2							
SODANKYLA	42.75	333.8	7	50	-1						9	31 PP
SKALNATE PL.	43.29	306.5	7	51	-4							
UPPSALA	44.93	321.9	8	9	1						8	18
KIRUNA	45.15	333.3	8	10	0						8	34
KHEYS	45.71	355.6	8	25	10						10	22
PRUMONICE	46.91	308.1	8	25A	1				8	44	10	14 PP

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LJUBLJANA	47.54	302.9	8 30	1					
COLLMBERG	47.73	310.1	8 30K	0	8 52		9 5	10 24	PP
SKALSTUGAN	47.76	326.8	8 32	1			9 7		
HALLE	48.35	310.5	8 47	12			10 31		
PLAUEN	48.36	309.1	8 33	-2					
MATUSIRO	48.43	70.1	8 34	-2					
JENA	48.66	309.8	8 38	0			8 49		
ISOLA	49.19	296.1	9 12	30					
STUTTGART	50.51	307.3	8 52	0	9 27				
TUBINGEN	50.69	307.0	8 54	1					
EBINGEN	50.83	306.6	8 55	1					
FOLINIÈRE	56.75	309.3	9 38	0					
SETIF	56.98	293.5	9 36	-3	10 7				
TAMANRASSET	62.78	279.5	10 16	-3					
THULE	66.13	351.6	10 40	-1	11 5				
RESOLUTE	69.84	357.8	11 3	-1					
BULAWAYO	72.19	227.9	11 19	1					
COLLEGE	73.77	18.4	11 27	0	11 52				
MUNDARING	76.49	146.8	11 42	-1					
CHARTERS TS.	85.54	118.4	12 31	1				12 57	
ADELAIDE	90.58	133.9	12 56	2					
SOUTH POLE	125.46	180.0	18 52	0					
BYRD STATION	135.00	175.9	19 11	1					

FEBRUARY 4 16.H 50.M 28.S EPICENTRE 38.85 142.83 DEPTH= 0.KM

A=-0.62225 B= 0.47172 C= 0.62473 D= 0.6041 E= 0.7969  
G=-0.4978 H= 0.3774 K=-0.7808 HT= -1.3

SE= 3.19

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MIYAKO	1.04	320.2	0 24K	2	0 41	3						
ISINOMAKI	1.26	250.9	0 24K	-1	0 42	-1						
MIZUSAWA	1.36	282.4	0 30	3	0 51	5						
MORIOKA	1.55	303.8	0 32A	3	0 52	2						
SENDAI	1.62	249.7	0 32K	2	0 53	1						
HATINOHE	1.96	329.4	0 37A	2	1 8	7						
YAMAGATA	2.04	253.6	0 38	2	1 3	0						
HUKUSIMA	2.16	240.1	0 38K	0	1 4	-2						
AKITA	2.29	293.1	0 41A	1								
SAKATA	2.35	272.1	0 46	5	1 21	10						
ONAHAMA	2.44	219.5	0 40A	-2	1 9	-4						
SHIRAKAWA	2.69	230.9	0 46	0	1 16	-3						
MITO	3.10	218.0	0 51	0	1 29	-1						
NIIGATA	3.12	253.8	0 56	4	1 38	8						
UTUNOMIYA	3.29	226.6	0 53	-1	1 31	-4						
URAKAWA	3.30	359.3	0 57	3	1 38	3						
HAKODATE	3.35	332.4	0 57A	2	1 41	5						
KAKIOKA	3.36	219.7	0 53	-2	1 40	4						
TUKUBASAN	3.41	220.4	0 53A	-3	1 44	6						
HIROO	3.44	6.0	0 57	1	1 37	-2						
TYOSI	3.50	207.5	0 58	1	1 37	-3						
MORI	3.68	332.7	1 3	3	1 55	11						
AIKAWA	3.69	258.4	1 1A	1	1 52	7				1 42		
MURORAN	3.74	338.4	1 4	3	1 55	9						
KUMAGAYA	3.85	226.6	1 2	0	1 50	1						
MAEBASI	3.86	231.9	1 2	0	1 47	-2						
TOMAKOMAI	3.89	346.2	1 12	9	1 58	8						
HONGO	3.98	218.9	1 3	-1								
TOKYO C.M.O.	4.01	218.8	1 3	-1	1 46	-7				1 35		
TAKADA	4.02	245.7	1 7	2	1 56	3						
OBIIHIRO	4.07	3.8	1 10	5	2 10	16						
TITIBU	4.14	227.4	1 6	0	1 59	3						
OIWAKE	4.23	234.8	1 8	0	2 10	12						
YOKOHAMA	4.26	217.7	1 8	0	1 56	-3						
NAGANO	4.27	240.8	1 11A	3	2 12	13						
KUSIRO	4.29	15.5	1 7	-1	1 58	-2						
MATUSIRO	4.33	239.3	1 10A	1	2 9	8				9 1	PCP	
SAPPORO	4.36	345.5	1 10	1	2 8	6				1 33		
SUTTSU	4.41	334.2	1 11	1	2 24	21				1 33		
MERA	4.60	212.5	1 11	-2								
MATUMOTO	4.66	237.6	1 17	3	2 22	13						
KOHU	4.66	228.3	1 14	0	2 9	0						
AJIRO	4.83	219.4	1 16	0	2 8	-6				2 26		

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MISIMA	4.85	221.0	1 15	-1	2 2	-12				
WAZIMA	4.91	254.4	1 21	4	2 13	-2				
OSIMA	4.93	215.3	1 17	0					2 28	
NEMURO	4.93	24.0	1 16	-1	2 8	-8				
ASAHIGAWA	4.94	356.1	1 21	3	2 29	13				
TOYAMA	4.95	246.1	1 29	11	2 24	7				
RUMOE	5.18	350.2	1 37	16						
TAKAYAMA	5.19	240.5	1 23	2	2 24	1				
IIDA	5.20	231.8	1 26	5	2 35	12				
SHIZUOKA	5.26	223.9	1 20A	-2	2 34	10				
ABASHIRI	5.28	11.4	1 20	-2	2 23	-2				
KANAZAWA	5.42	246.6	1 37	13						
OMAESAKI	5.63	222.5	1 31	4	2 46	12			2 25	
HAMAMATU	5.82	226.4	1 27	-3	2 31	-7				
GIHU	5.94	236.5	1 32A	0	2 46	4			2 5	
HUKUI	5.95	244.0	1 34	2						
NAGOYA	5.96	233.7	1 33	1	2 47	5				
HATIDYOZIMA	6.25	204.2	1 37	1					2 35	
HIKONE	6.36	237.8	1 39A	1	2 58	6				
KAMEYAMA	6.48	233.9	1 39	0	3 11	16				
TU	6.54	232.7	1 46	6						
WAKKANAI	6.62	352.9	2 2	21						
MAIZURU	6.84	242.7	1 47	3	3 3	-1				
KYOTO	6.85	238.3	1 45	0	3 15	11				
NARA	6.99	235.6	1 47	0	3 18	10				
ABUYAMA	7.05	237.9	1 46A	-1						
OWASE	7.16	230.3	1 48	-1	3 33	21				
TOYOOKA	7.20	245.1	1 50A	0	3 24	11			3 13	
OSAKA	7.21	236.7	1 50	0	3 34	21			2 29	
KOBE	7.42	238.2	1 56	3	3 32	14				
TOTTORI	7.67	246.9	1 59	3	3 31	6				
WAKAYAMA	7.70	235.6	1 57	1	3 36	11				
SUMOTO	7.80	237.2	1 58	0	3 46	18			3 14	
SIOMISAKI	7.85	228.8	1 57	-2	3 30	1				
SAIGO	8.00	253.6	2 1	0					4 22	
Y. -SAKHLINSK	8.16	359.4	2 2	-1	3 32	-5				
TOKUSIMA	8.18	236.9	2 4	1	3 43	5			3 17	
OKAYAMA	8.28	242.5	2 4	0						
YONAGO	8.31	248.7	2 3	-2					3 36	
TAKAMATU	8.39	240.1	2 5	-1	3 59	16				
MATSUE	8.50	249.5	2 9	1	3 58	13				
MUROTO	8.96	234.1	2 25	11	4 13	16				
KOTI	9.19	237.7	2 23	6	4 4	1				
VLADIVOSTOK	9.30	300.8	2 12	-7	4 15	10			2 32	
HAMADA	9.48	248.7	2 24	3	4 8	-2			5 13	
HIROSIMA	9.48	245.1	2 20	-1	4 17	7				
MATUYAMA	9.53	241.4	2 24	2	4 24	13			7 48	
UWAZIMA	10.04	239.2	2 28	-1					5 13	
SIMIDU	10.04	235.9	2 25	-4					4 41	
OOITA	10.67	241.7	2 35A	-3	4 57	18				
SIMONOSEKI	10.77	246.6	2 41	2	4 55	14				
ASOSAN	11.24	241.7	2 46	1						
HUKUOKA	11.35	246.2	2 47	0	5 12	16				
KUMAMOTO	11.54	242.3	2 48	-1					5 49	
SAGA	11.58	245.0	2 52	2					5 55	
MIYAZAKI	11.60	236.9	2 51	1					6 4	
ITUHARA	11.85	251.1	3 4	10						
NAGASAKI	12.16	243.8	2 56	-2	5 37	22			6 41	
KAGOSIMA	12.39	237.8	3 2	1					3 58	
TOMIE	13.00	245.7	3 8	-1					6 47	
YAKUSIMA	13.16	234.1	3 6	-5	5 59	20			3 25	
CHANGCHUN	14.07	296.3	3 22A	-1					6 20	
PETROPAVLOVK	17.88	32.4	4 15	3					4 42	PPP
ZO-SE	19.33	253.0	4 26A	-4					8 12	
PEKING	20.61	281.7	4 40A	-4	7 49	-41				
NANKING	20.70	258.3	4 41A	-4					8 43	
KLYUCHI	21.18	28.5	4 50	0						
MAGADAN	21.33	11.2	4 51	0	8 50	6				
YAKUTSK	24.56	345.1	5 22	-1	9 39	-3				
TAWU	24.94	235.1	5 24	-3	10 6	18				
GUAM	25.35	175.7	5 39	9						
ULAN-BATOR	27.43	301.0	5 50	0	10 32	3				
SIAN	27.53	271.0	5 49A	-2						
HONG KONG	29.52	244.4	6 7	-2	11 1	-2				
CANTON	29.60	246.6	6 7A	-2	11 3	-1				
BAGUIO CITY	29.65	227.3	6 3	-7	10 57	-8				
IRKUTSK	29.74	309.5	6 10A	0					7 26	PPP
LANCHOW	30.93	277.2	6 20A	-1						

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CHENGTU	32.73	267.5	6 33A	-4	11 50	-3			
TIKSI	33.62	352.1	6 43	-2	12 5	-2			7 57 PP
TOCKLAI	41.73	268.0	7 56	3					
LHASA	43.30	274.0	8 7A	2	14 37	3			
SHILLONG	44.58	268.4	8 14A	-2	14 51	-1			15 3 PS
SEMIPALATNSK	44.75	306.2	8 17	0					15 12
CHITTAGONG	46.29	264.6	8 28A	-1	15 28	11			9 54 PCP
COLLEGE	46.96	33.1	8 33	-2	15 24	-2			19 6 SS
CHATRA	47.62	272.8	8 39	-1	15 35	-1			
PORT MORESBY	48.17	174.3	8 42	-2	15 36	-7			15 45 PS
CALCUTTA	48.88	267.1	8 43	-7	15 51	-2			
BOKARO	50.20	270.2	8 55	-5	16 8	-4			10 52
FRUNSE	50.48	297.7	9 1	-1					
KHEYS	51.10	347.9	9 5	-2	16 20	-4			10 59 PP
PORT BLAIR	51.97	252.6	9 17	4	16 39	3			
DEHRA DUN	53.03	281.7	9 23	2	17 3	12			11 20 PP
MEDAN	53.28	240.2	8 57	-26					
SVERDLOVSK	54.54	318.0	9 31	-1	17 11	0			11 39 PP
AGRA	54.58	278.3	9 33A	0	17 13	1			11 37 PP
TASHKENT	54.73	297.8	9 32	-2					17 32 PS
LAHORE	55.28	284.9	9 39	1	17 41	20			
LEMBANG	55.97	223.7	9 39A	-4	20 25	175			
STALINABAD	56.22	294.9	9 44	-1					17 45 PS
WARSAK DAM	56.23	288.8	9 43A	-2					
CHARTERS TS.	58.72	176.2	9 58	-4	17 56	-10			
HYDERABAD	59.45	268.3	10 4A	-3	18 14	-2			18 26 PS
RESOLUTE	60.57	15.0	10 11K	-4	18 28	-2			
MADRAS	60.71	263.1	10 15	-1	18 48	16			12 27 PP
QUETTA	61.49	287.1	10 19A	-2	19 2	20			12 35 PP
APATITY	61.50	335.7	10 19A	-2	18 38	-4			18 57 PS
POONA	62.42	272.2	10 26	-1	19 11	17			
KOLMAC	62.42	157.3	10 42	15					
BOMBAY	63.01	273.2	10 30	-1	19 16	15			12 52 PP
THULE	63.31	7.9	10 30	-3					39 28 PKPPKP
SODANKYLA	63.73	337.2	10 34	-2					
ASHKABAD	63.77	298.7	10 38	2					12 57 PP
KARACHI	64.21	282.0	10 37	-2	19 37	21			
NOUMEA	64.73	155.8	10 40	-3					
KIRUNA	65.22	339.3	10 44	-2					13 3
CORVALLIS	66.46	51.1	11 0A	6					
MOSCOW	66.46	323.5	10 52	-2					19 58 PS
BRISBANE	66.55	170.4	10 52	-2	19 36	-9			
PULKOVO	67.20	329.5	10 57	-1					13 27 PP
AFIAMALU	67.46	131.5	11 7	7					
NURMIJARVI	68.87	332.1	11 7	-2					13 47 PP
HELSINKI	68.99	331.7	11 8	-2					
HUNGRY HORSE	69.69	43.8	11 13	-1					39 18 PKPPKP
SCORESBY SD.	70.42	354.6	11 5	-13					
TIFLIS	70.58	308.2	11 19	0					14 0 PP
SKALSTUGAN	70.63	338.9	11 25	5					13 53
BERKELEY	70.79	56.6	11 25	4	20 36	1			
GORIS	70.89	305.6	11 20	-1					14 1 PP
RENO	71.41	54.0	11 32	8					
LICK	71.49	56.8	11 30	5					
UPPSALA	71.82	334.3	11 25	-2					11 34
BUTTE	71.88	45.2	11 31	4					
SHIRAZ	72.32	294.0	11 28	-2					18 42
RIVERVIEW	72.72	172.8	11 35K	3	20 53	-4			21 41 SCS
FRESNO	73.02	56.4	11 40	6					
ADELAIDE	73.55	183.5	11 44	7					
EUREKA	73.84	52.2	11 38	-1					
CANBERRA	74.02	174.8	11 38K	-2					
MUNDARING	74.69	203.3	11 37	-7					
SIMFEROPOL	74.81	315.8	11 43A	-1					12 0 PCP
SALT LAKE C.	75.54	49.2	11 53	5					
PASADENA	75.65	57.7	11 51	2	21 29	-1			26 26 SS
WARSAW	76.15	327.4	11 55	3	21 37	1			12 10 PCP
MELBOURNE	76.33	178.3	12 4	11					
LWOW	76.57	324.3	11 53	-1	21 35	-5			14 47 PP
SIDA	76.59	351.4	11 41	-13					12 7
BOULDER CITY	76.70	54.5	11 53	-2					
IASI	76.72	320.7	11 53	-2					12 7
COPENHAGEN	76.80	333.7	11 51	-5	21 47	4			
BACAU	77.49	320.5	11 59	0					
RAPID CITY	78.20	42.3	12 3	0					
KRAKOW	78.22	326.4	12 3	0	21 28	-30			12 14 PCP
SKALNATE PL.	78.73	325.7	12 2K	-4					
LARAMIE	78.79	45.6	11 46	-20					
RACIBORZ	78.94	327.3	12 14	7					



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POTSDAM	79.20	331.3	12	8	-1						22 26 PS
COLLMBERG	80.08	330.7	12	12A	-1						15 14 PP
HALLE	80.32	331.4	12	13	-2	22	20	0	12	40	15 9 PP
PRAGUE	80.49	329.2									20 6
PRUHONICE	80.52	329.1	12	15A	-1	22	22	0			15 30 PP
BUDAPEST	80.54	325.2	12	18	2						14 42
HURBANOVO	80.61	325.8	12	8	-8						22 44 PS
BRATISLAVA	80.86	326.6	12	18	0	22	40	14			
JENA	80.92	331.2	12	14	-4	22	0	-26			15 33 PP
KSARA	80.99	306.3	12	16	-2	22	24	-3			15 19 PP
WITTEVEEN	81.10	334.8	12	19	0						
CHEB	81.29	330.3	12	19	-1	22	27	-3			
MUNSTER	81.49	333.9	12	20	-1						12 37
TUCSON	81.62	55.3	12	26	4						
TUCSON TELE.	81.64	55.1	12	22	0						
BELGRADE	81.88	322.6	12	23A	0	22	43	7			16 58
DURHAM	81.88	340.1	12	22A	-1						15 32 PP
SOFIA	82.03	319.6	12	23	-1	22	36	-2			15 39 PP
KARAPIRO	82.12	154.4	12	22	-2						
BENSBERG	82.49	333.5	12	25	-1						
JERUSALEM	82.75	305.1	12	28	1						
ZAGREB	83.16	325.7	12	31	1						18 31
HEIDELBERG	83.23	331.8	12	30	0						
STUTTART	83.54	331.1	12	31A	-1	22	47	-6			15 47 PP
UCCLE	83.58	335.0	12	33	1	23	1	7			
LJUBLJANA	83.62	326.6	12	31A	-1						18 24
TUBINGEN	83.82	331.1	12	32	-1						
DOURBES	84.10	334.5	12	35	1	23	5	6			
EBINGEN	84.14	331.0	12	34	-1						
RAVENSBURG	84.22	330.4	12	37	2						
STRASBOURG	84.26	331.9	12	34	-1	23	2	2			28 32 SS
TRIESTE	84.26	326.8				22	54	-6			23 12 SKKS
KEW	84.46	337.9				22	58	-4			
BASLE	85.21	331.4	12	39A	-1						
PARIS	85.91	335.0	12	44	1						
LAWRENCE	86.01	41.6	12	42	-2						
BESANCON	86.03	332.2	12	40	-4						
HELWAN	86.51	305.9	12	45	-1	23	14	-8			
CHIAVARI	87.19	328.6									20 56 PPP
ROXBURGH	87.26	161.7				23	17	-12			
ROME	87.81	325.3	12	54	1	23	20	-15			16 22 PP
CLERMONT-FD.	88.32	333.1	13	7	12						
FAYETTEVILLE	88.73	42.8	12	54	-3						13 8
ST. LOUIS 1	88.79	38.8	12	56	-1	23	41	-3			
SHAWINIGAN	89.20	23.7	12	59	0						
OTTAWA	89.25	26.1	12	56	-4						
MESSINA	89.31	321.2	13	0	0	23	26	-22			18 30 PPP
REGGIO CALA.	89.34	321.1	14	28	88						
BREBEUF	89.86	24.7	13	1	-1						
LITTLE ROCK	90.70	42.5	13	6	0						
CUGLIERI	90.92	326.7	14	2	55						
PALISADES	93.74	27.0	13	25	5						24 25 SKKS
ALMERIA	98.16	332.5	13	34	-6	23	53	-25			17 45 PP
GRANADA	98.26	333.5				25	4	45			17 34 PP
TAMANRASSET	106.81	319.2	17	22	777	26	19	80			18 45 PP
LWIRO	110.01	283.8	19	6	32						21 18
BULAWAYO	120.99	268.2	18	55	0						
MBOUR	123.78	336.3	19	41	41						
SOUTH POLE	128.66	180.0	19	8	-2						21 13 PP
BYRD STATION	129.29	167.1	19	13	2						21 27 PP
HUANCAYO	136.90	62.2	19	31	6						
LA PAZ	144.95	59.3	19	44K	5						23 16 PP

FEBRUARY 4 20.H 38.M 23.S EPICENTRE -18.43-177.76 DEPTH= 572.KM

A=-0.94863 B=-0.03717 C=-0.31419 D=-0.0392 E= 0.9992  
G= 0.3140 H= 0.0123 K=-0.9494 HT= 5.0

DEPTH OF FOCUS= 0.085R

SE= 2.27

	DELTA		P	O-C		S O-C			*PP		SUPP.	
	DEG.	DEG.		M	S	M	S	S	M	S	M	S
AFIAMALU	7.29	52.8	1	51K	-1	3	20	-1				
NOUMEA	15.30	252.8	3	11	0	4	45	-61				

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KOLMAC	17.07	259.9	3	32	4	6	24	8			
ONERAHI	18.63	200.4	3	46	3						4 8
KARAPIRO	20.30	195.4	3	59	0						
TUAI	20.78	191.3	4	1	-2						7 12
TONGARIRO	21.50	194.3	4	8	-2						
WELLINGTON	23.66	194.1	4	29	0						
COBB RIVER	24.01	197.9	4	32	0	8	11	1			
GEBBIES PASS	26.46	195.7	4	53	-1	8	45	-4			
BRISBANE	28.51	246.4	5	10	-1						
RIVERVIEW	31.70	234.9	5	37A	-2						
CANBERRA	33.89	233.5	5	57A	0						
CHARTERS TS.	33.97	261.2	5	57	-1	10	40	-4			
PORT MORESBY	35.17	280.0	6	8	0	11	2	0			
ADELAIDE	41.88	237.9	7	12	10						
MUNDARING	60.44	243.2	9	15A	-1						
BYRD STATION	66.64	170.7	9	57	1						
MATUSIRO	68.69	323.1	10	6K	-2						
SOUTH POLE	71.69	180.0	10	25	-1						12 27
LEMBANG	73.32	268.2	10	35K	0						
LICK	76.58	42.9	10	54K	1						
PASADENA	77.11	47.2	10	56	0						
FRESNO	77.46	44.2	10	58	0						
CORVALLIS	79.94	36.2	11	12	1						
EUREKA	81.47	43.6	11	20	1						
TUCSON TELE.	81.59	52.0	11	20	1						13 16
COLLEGE	86.15	12.3	11	40	-2						13 47
HUNGRY HORSE	87.35	36.8	11	47	0						
BOZEMAN	87.75	40.1	11	50	1						
SHILLONG	98.07	294.2	12	35	-1						
RESOLUTE	105.75	15.9	17	17	777						
THULE	112.33	13.9	17	29	-2						
QUETTA	120.56	294.6	17	48	1						
SODANKYLA	128.63	348.2	18	2	0						
SHIRAZ	133.06	293.6	18	9	-2						
BULAWAYO	133.76	215.3	18	12	0						
NURMI JARVI	135.01	344.5	18	15	1						20 46 SKP
HELSINKI	135.23	344.1	18	14	-1						
BROKEN HILL	138.34	220.1	18	14	-7						
POTSDAM	145.07	348.4	18	33	0						
KRAKOW	145.41	339.8	18	34	1						19 8
WITTEVEEN	145.50	355.3	18	34K	1						
RACIBORZ	145.93	341.6	18	36	2						
COLLMBERG	146.11	347.9	18	36K	2						20 53
HALLE	146.12	349.1	18	34	0						
MUNSTER	146.26	354.0	18	37	2						32 2
JENA	146.73	349.2	18	36	1						
LWIRO	146.75	234.6	18	41K	6						20 57 PP
PRUMONICE	147.01	345.4	18	39K	4						20 51
BENSBERG	147.31	354.2	18	39K	3						
JERUSALEM	147.45	300.5	18	41	5						
UCCLE	147.66	357.5	18	42	5						
VIENNA-H.	148.11	342.0	18	42	5						
DOURBES	148.35	357.1	18	43	5						
HEIDELBERG	148.66	351.9									18 46 PKP2
STUTTGART	149.20	350.9	18	39	0						18 46 PKP2
TUBINGEN	149.47	351.1									18 46 PKP2
STRASBOURG	149.59	352.7	18	46	7						
FOLINIÈRE	149.65	3.6	18	40	1						
PARIS	149.69	359.7	18	46	6						18 53 PKP2
EBINGEN	149.82	351.0									18 46 PKP2
RAVENSBERG	150.11	350.0									18 47 PKP2
LJUBLJANA	150.64	342.4	18	48K	7						
BASLE	150.65	352.6	18	47K	6						24 52 *PPP
HELWAN	151.20	298.8	18	49K	7						18 59 PKP2
ATHENS	152.96	320.5	18	52A	8						
SETIF	162.08	351.7	19	53	58						
TAMANRASSET	174.69	325.2	19	5K	1						20 43 PKP2

FEBRUARY 4 20.H 57.M 52.S EPICENTRE 38.77 143.08 DEPTH= 0.KM

A=-0.62500 B= 0.46961 C= 0.62357 D= 0.6007 E= 0.7995  
G=-0.4985 H= 0.3746 K=-0.7818 HT= -1.2

SE= 2.73

DELTA AZ. P O-C S O-C \*PP SUPP.  
DEG. DEG. M S S M S S M S M S

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MIYAKO	1.23	316.0	0 25A	0	0 41	-1	
ISINOMAKI	1.42	256.9	0 26K	-1	0 44	-3	
MIZUSAWA	1.56	284.1	0 27	-3	1 3	12	
MORIOKA	1.75	302.8	0 33A	1	0 53	-3	
SENDAI	1.78	254.5	0 32K	-1	0 54	-2	
HATINOHE	2.13	326.3	0 38A	0	1 2	-3	
YAMAGATA	2.20	257.3	0 39	0	1 6	-1	
HUKUSIMA	2.29	244.5	0 40A	0	1 4	-5	
AKITA	2.50	293.3	0 45	2			
ONAHAMA	2.50	224.2	0 41	-2	1 10	-5	
SAKATA	2.54	274.0	0 52	8	1 21	5	
AMORI	2.71	319.9	0 49	3	1 22	2	
SHIRAKAWA	2.79	234.9	0 48	1	1 18	-4	
MITO	3.16	221.8	0 52	0	1 26	-5	
NIIGATA	3.28	256.3	1 11	17	1 47	13	
UTUNOMIYA	3.37	230.0	0 54	-1	1 29	-8	1 25
URAKAWA	3.39	356.2	1 0	4	1 36	-1	
KAKIOKA	3.42	223.2	0 54A	-2	1 26	-12	
TUKUBASAN	3.47	223.9	0 54	-3			
HIROO	3.51	2.9	1 10	13	1 39	-1	
HAKODATE	3.52	330.5	1 1	4	1 47	7	
TYOSI	3.52	211.0	0 53	-5			1 16
MORI	3.84	330.9	1 8	6	2 2	13	
AIKAWA	3.87	260.4	1 3	1	2 4	15	
MURORAN	3.89	336.4	1 10	7	2 1	11	
KUMAGAYA	3.93	229.6	1 3	0	1 54	3	
MAEBASI	3.96	234.7	1 4A	0	1 50	-2	
TOMAKOMAI	4.02	344.0	1 16	11	2 7	14	
HONGO	4.03	221.9	1 3	-2			
TOKYO C.M.O.	4.07	221.8	1 4	-1	1 51	-3	1 27
OBHIRO	4.15	1.2	1 8	2			
TAKADA	4.16	248.0	1 8	1	2 0	3	
YOKOHAMA	4.31	220.5	1 8	-1	2 15	15	
KUSIRO	4.33	13.0	1 10	1	1 58	-3	
OIWAKE	4.34	237.4	1 14	5	2 13	12	
NAGANO	4.40	243.1	1 12	2	2 2	-1	
MATUSIRO	4.46	241.6	1 11A	0	2 2	-2	3 2
SAPPORO	4.49	343.6	1 16	5	2 12	7	2 4
SUTTSU	4.57	332.7	1 27	15	2 33	26	2 24
MERA	4.64	215.2	1 13	0			
HUNATU	4.74	227.9	1 15	0	2 12	1	
KOHU	4.75	230.8	1 17	2	2 18	6	
MATUMOTO	4.78	239.8	1 17	2	2 23	11	
AJIRO	4.89	221.9	1 17	0	2 8	-7	3 38
MISIMA	4.92	223.5	1 17	0	2 15	-1	
NEMURO	4.94	21.7	1 16	-2	2 8	-8	
OSIMA	4.97	217.8	1 18	0			
ASAHIGAWA	5.04	354.1	1 21	2	2 47	28	
WAZIMA	5.07	256.1	1 29	10	2 23	3	
IIDA	5.30	233.9	1 28	5	2 36	11	
TAKAYAMA	5.32	242.4	1 25	2			
SHIZUOKA	5.33	226.1	1 22	-1	2 34	8	
OMAE SAKI	5.70	224.7	1 35	7	2 50	14	
GIHU	6.06	238.3	1 34	1	2 41	-3	
NAGOYA	6.07	235.6	1 36	2	2 51	6	
HUKUI	6.09	245.7	1 36	2			
TSURUGA	6.40	243.1	1 40	2	3 10	17	
HIKONE	6.48	239.5	1 43	4	3 1	6	
MAIZURU	6.97	244.2	1 46	0	3 15	8	
KYOTO	6.97	239.8	1 48	2	3 9	2	
Y.-SAKHLINSK	8.25	358.3	2 2	-2	3 31	-8	
VLADIVOSTOK	9.51	300.8	2 22	0			
CHANGCHUN	14.28	296.4	3 26K	0			6 28
ZO-SE	19.49	253.5	4 30	-2			8 20
PEKING	20.81	282.0	4 41A	-5	8 30	-4	
NANKING	20.87	258.7	4 42	-4	8 43	10	
MAGADAN	21.38	10.8	4 53	1			
YAKUTSK	24.69	344.9	5 23	-1	9 41	-3	
ULAN-BATOR	27.64	301.1	5 51	-1			
SIAN	27.73	271.3	5 49A	-3			
HONG KONG	29.65	244.8	6 12	2	10 56	-9	
CANTON	29.75	247.0	6 13	2	11 15	8	
IRKUTSK	29.94	309.6	6 11A	-1			
LANCHOW	31.13	277.4	6 21	-2			
CHENG TU	32.92	267.8	6 36A	-3	11 55	-1	
TIKSI	33.73	351.9	6 44	-2			
LHASA	43.49	274.2	8 8	1	14 42	6	
SHILLONG	44.76	268.6	8 15	-2			

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SEMIPALATNSK	44.96	306.3	8 17	-2						
CHITTAGONG	46.47	264.8	8 28	-3	15 29	10				10 7 PP 8 39
COLLEGE	46.93	33.1	8 35	0						
PORT MORESBY	48.07	174.6	8 41	-3	15 37	-5				
FRUNSE	50.69	297.8	9 2	-2						
KHEYS	51.23	347.9	9 8	0						
DEHRA DUN	53.23	281.9	9 21	-2	16 56	3				
SVERDLOVSK	54.73	318.1	9 33	-1						
AGRA	54.79	278.5	9 34A	0						
TASHKENT	54.94	297.9	9 34	-1						17 23 PS 9 51
LAHORE	55.49	285.1	9 39A	0						
LEMBANG	56.04	224.0	9 40K	-3						
STALINABAD	56.43	295.1	9 45	-1						
WARSAK DAM	56.44	289.0	9 43	-3						
CHARTERS TS.	58.62	176.5	10 3	1						
RESOLUTE	60.60	15.0	10 13A	-2	18 30	-1				
APATITY	61.66	335.7	10 20	-2						
QUETTA	61.69	287.3	10 20A	-3	18 27	-18				20 6 SCS
PDONA	62.61	272.4	10 27	-2						
THULE	63.37	7.9	10 30	-4						
SODANKYLA	63.88	337.3	10 35	-2						
ASHKABAD	63.98	298.8	10 36	-2						13 0 PP
KIRUNA	65.36	339.4	10 46	-1						10 58
MOSCOW	66.65	323.6	10 54	-1						19 52 PS
AFIAMALU	67.26	131.7	11 4	5						
PULKOVO	67.37	329.6	10 58	-2						
NURMI JARVI	69.03	332.2	11 9	-1						
HELSINKI	69.15	331.8	11 10	-1						
HUNGRY HORSE	69.62	43.9	11 14	1						
MINERAL	69.71	54.2	11 14	0						
SKALSTUGAN	70.78	339.0	11 18	-3						
TIFLIS	70.78	308.3	11 20	-1						
GORIS	71.10	305.7	11 23	1						20 56 PS
RENO	71.30	54.1	11 26	2						
BUTTE	71.81	45.3	11 28	1						
UPPSALA	71.98	334.4	11 22	-6						
BOZEMAN	72.86	44.9	11 34	1						
EUREKA	73.74	52.3	11 39	1						
CANBERRA	73.92	175.0	11 46	7						
SIMFEROPOL	75.01	316.0	11 44	-1						
PASADENA	75.53	57.8	11 49	1						
BOULDER CITY	76.59	54.6	11 55	1						
LWOW	76.75	324.4	11 55	0						
RAPID CITY	78.13	42.4	12 5	2						
KRAKOW	78.40	326.6	12 5	1						12 15 PCP
LARAMIE	78.71	45.7	12 8	2						
RACIBORZ	79.11	327.4	12 8	0						12 20 PCP
POTSDAM	79.36	331.5	12 8	-2						
COLLMBERG	80.25	330.8	12 13A	-1						15 16 PP
HALLE	80.49	331.5	12 15	-1						20 23
PRUHONICE	80.69	329.2	12 16A	-1						12 26 PCP
JENA	81.08	331.3	12 18	-1						13 20
WITTEVEEN	81.26	335.0	12 20	0						
TUCSON TELE.	81.53	55.3	12 23	2						
STUTT GART	83.71	331.3	12 32	0						
BASLE	85.37	331.5	12 41K	0						
LAWRENCE	85.95	41.7	12 44	0						
FOLINIERE	87.05	336.8	12 48	-1						
BREBEUF	89.86	24.9	13 3	1						
TAMANRASSET	107.00	319.4	18 19	777						18 45 PP
SOUTH POLE	128.58	180.0	19 8	-2						
BYRD STATION	129.17	167.1	18 38	-33						
LA PAZ	144.83	59.7	19 45	6						

FEBRUARY 5 2.H 2.M 14.S EPICENTRE -37.11 -95.41 DEPTH= 0.KM

A=-0.07542 B=-0.79585 C=-0.60077 D=-0.9955 E= 0.0943  
G= 0.0567 H= 0.5981 K=-0.7994 HT= -0.6

SE= 1.52

	DELTA	AZ.	P		O-C	S			O-C	*PP	SUPP.	
	DEG.	DEG.	M	S	S	M	S	S	M	S	M	S
SANTA LUCIA	20.54	87.1	4	44A	1	8	41	13			9	22 SS
HUANCAYO	30.78	41.0	6	20	0	11	32	9				
LA PAZ	31.66	56.9	6	28A	1	11	41	4			7	46 PP



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NOUMEA	62.01	112.1	10 24	-1	
Y.-SAKHLINSK	62.47	28.6	10 27	-1	
UGLEGORSK	63.66	26.6			15 7 PCS
YAKUTSK	70.29	12.4	11 15	-3	
KARAPIRO	71.65	128.0	11 25	-1	
SVERDLOVSK	71.79	336.4	11 26	-1	
TONGARIRO	71.80	129.3	11 25	-2	
BULAWAYO	74.74	250.8	11 44A	0	
BROKEN HILL	75.01	256.6	11 45	0	
KSARA	75.61	306.9	11 52	3	
HELWAN	78.31	301.9	12 4	0	12 23
TIKSI	78.84	7.7	12 4	-3	
SIMFEROPOL	80.28	317.3	12 14	-1	
MOSCOW	81.92	328.3	12 23	0	
AFIAMALU	82.66	103.3	12 29	2	
SOUTH POLE	84.34	180.0	12 34	-2	
PULKOVO	86.97	330.8	12 48	-1	
APATITY	88.08	338.7	12 53	-1	
KHEYS	89.12	353.2	12 59	0	
HELSINKI	89.67	330.6	13 2	0	
NURMI JARVI	89.89	330.9	13 3	0	30 5 SS
SODANKYLA	90.54	337.8	13 5	-1	
BYRD STATION	91.60	173.0	13 10	0	
KIRUNA	92.96	337.8	13 14	-3	
UPPSALA	93.27	329.7	13 18	0	
LJUBLJANA	93.98	315.7	13 22	1	
PRUMONICE	94.23	319.7	13 23	0	17 10 PP
SKALSTUGAN	96.02	333.3	13 27	-4	
STUTTGART	97.63	318.3			17 35 PP
TAMANRASSET	100.36	292.0	13 7	-43	17 50
COLLEGE	102.65	24.6	18 0	777	
RESOLUTE	110.17	5.4	18 33	-1	
CORVALLIS	123.20	39.2	19 2A	3	
SHASTA	125.59	43.0	19 5	1	
MINERAL	126.29	43.0	19 4K	-1	
HUNGRY HORSE	126.40	31.0	19 7	2	
LICK	127.59	46.4	19 10K	2	
BOZEMAN	129.70	31.9	19 13	1	
EUREKA	130.48	41.2	19 15	2	22 34 PP
PASADENA	131.51	48.5			23 4 PP
BOULDER CITY	133.07	44.6			22 32 PP
RAPID CITY	134.74	28.1			22 47 PP
TUCSON	137.82	46.7	19 30	3	22 58 PP
TUCSON TELE.	137.86	46.5	19 19	-8	22 58 PP
LAWRENCE	142.40	25.5	19 31	-4	
PALISADES	144.81	357.8	19 38	-1	
FAYETTEVILLE	145.26	27.0	19 40A	0	
MORGANTOWN	145.99	6.0	19 43A	2	
COLUMBIA	151.39	9.5	19 57	7	
LA PAZ	156.74	198.4	19 59	2	

FEBRUARY 7 4.H 24.M 52.S EPICENTRE 7.30 -72.07 DEPTH= 0.KM

A= 0.30534 B=-0.94384 C= 0.12625 D=-0.9515 E=-0.3078  
G= 0.0389 H=-0.1201 K=-0.9920 HT= 6.8

SE= 2.63

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	S	M	S	S	M	S		
FUQUENE	2.45	222.2	0	43	1	1	15	2				
BOGOTA	3.32	216.8	0	56K	1	1	39	4		1 6 P*		
CHINCHINA	4.22	236.9	1	6K	-1	1	57	-1		1 18 P*		
GALERAZAMBA	4.68	317.8	1	24	10	2	30	20				
CARACAS	5.99	57.6	0	54A	-38	2	4	-39				
BALBOA HTS.	7.59	283.0	1	55	0	3	18	-5				
GRENADA	11.23	64.4								2 43 PP		
ST. VINCENT	12.12	60.4								2 57 PP		
SAN JUAN	12.44	27.2	3	0	-2	5	18	-4				
DOMINICA	13.14	51.8								3 18 PPP		
HUANCAYO	19.50	189.6	4	32	0	8	15	9				
LA PAZ	23.97	170.7	5	17A	0	9	50	18				
TACUBAYA	28.95	297.2								6 53 PP		
LITTLE ROCK	33.11	328.5	6	39	-1							
FAYETTEVILLE	35.07	327.9	6	57A	0				7 7			
ST. LOUIS I	35.24	335.0	6	58	0							



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FLORISSANT	35.44	335.0	7	0	0	
LAWRENCE	37.82	330.0	7	19	-1	
BREBEUF	38.08	358.2	7	27	5	
TUCSON TELE.	43.69	310.1	8	11	2	
TUCSON	43.74	309.9	8	8	-1	8 31
LARAMIE	45.08	324.0	8	20	0	
RAPID CITY	45.61	328.6	8	23	-1	
BOULDER CITY	48.35	312.5	8	44	-2	
SALT LAKE C.	48.61	319.6	8	51	3	
EUREKA	50.71	316.1	9	2	-2	
BOZEMAN	50.89	325.4	9	5	0	
BUTTE	51.96	324.9	9	10	-3	
FRESNO	52.33	311.4	9	37	21	
RENO	53.42	314.5	9	24K	0	
LICK	53.91	311.3	9	26	-2	
HUNGRY HORSE	54.11	326.6	9	29	0	
BERKELEY	54.56	311.7	9	31	-1	
RESOLUTE	68.60	353.6	11	4	-3	
THULE	69.11	1.0	11	10	0	
FOLINIERE	72.43	41.2	11	30	0	
TAMANRASSET	75.80	68.4	11	50	0	14 38 PP
COLLEGE	77.35	335.0	11	57	-1	
STUTTGART	78.85	41.8	12	6	-1	
COLLMBERG	81.27	39.3	12	22	2	
PRUHONICE	82.29	40.6	12	26	1	
UPPSALA	83.59	30.5	12	35	3	
KIRUNA	84.24	22.4	12	39	4	
SODANKYLA	86.66	22.5	12	49	2	
NURMIJARVI	87.01	29.5	12	42	-7	
BYRD STATION	90.42	187.4	13	3	-2	
SOUTH POLE	97.25	180.0	13	35	-1	
CHARTERS TS.	140.76	247.2	19	27	-5	
SHILLONG	143.79	25.0	19	32	-5	

FEBRUARY 7 10.H 7.M 58.S EPICENTRE 4.64 122.66 DEPTH= 642.KM

A=-0.53797 B= 0.83912 C= 0.08040 D= 0.8418 E= 0.5397  
G=-0.0434 H= 0.0677 K=-0.9968 HT= 7.0

DEPTH OF FOCUS= 0.096R

SE= 1.25

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C S	M	S	O-C S	M	S	M	S
MANILA	10.09	351.2	2	22	2	4	22	9				
BAGUIO CITY	11.88	350.2								2	35 P*	
LEMBANG	18.85	232.9	3	42	-1	6	42	0				
DJAKARTA	19.12	235.9	3	46K	0	6	52	5				
HONG KONG	19.38	335.7	3	48K	0	6	53	2		7	51 PCP	
CANTON	20.43	334.7	3	56K	-2	7	7	-1		6	30 *SP	
GUAM	23.47	66.6	4	25	0							
MEDAN	23.95	268.4	4	28K	-1					14	26	
ZO-SE	26.35	357.1	4	49K	-1	8	43	1		14	28 SCS	
NANKING	27.52	352.8	5	1K	1	9	2	2		14	34 SCS	
KUNMING	27.94	318.8	5	4K	0	9	8	2		14	36 SCS	
PORT MORESBY	28.11	119.8	5	3A	-2	9	6	-3		6	40 PPP	
CHENG TU	31.29	327.9	5	32K	0	9	56	-2	7	10	14 50 SCS	
SIAN	32.11	338.3	5	39K	0	10	10	0				
CHARTERS TS.	33.79	137.4	5	54	1	10	36	0				
TOCKLAI	34.54	312.5	6	3K	4							
CHITTAGONG	34.65	303.4	6	1K	1	10	51	3	7	39	7 42 PP	
MATUSIRO	34.81	22.2	6	0A	-1	10	46	-5			8 16 PCP	
TUKUBASAN	35.28	24.8	6	2	-3	10	50	-8				
PEKING	35.71	351.4	6	9K	0	11	3	-1		15	15 SCS	
LANCHOW	35.75	333.4	6	10K	1	11	6	1				
SHILLONG	36.11	308.3	6	12K	0	11	15	5				
MUNDARING	36.92	189.2	7	17	58	11	18	-4				
PAOTOW	37.54	344.1	6	24K	0	11	32	1				
LHASA	38.88	313.3	6	36K	1	11	53	3		15	34 SCS	
CHANGCHUN	39.10	3.0	6	35	-1	11	50	-4		15	36 SCS	
CHATRA	40.42	306.9	6	47	0							
ADELAIDE	42.20	160.2	7	1A	0	12	38	0		15	52 SCS	
MADRAS	42.74	284.1	7	7	2					8	57	
BRISBANE	43.13	139.3	7	9	1	12	54	3				
ULAN-BATOR	45.19	345.1	7	24	0							
RIVERVIEW	46.79	147.0	7	36A	0	13	47	6				

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CANBERRA	46.82	150.2	7 36A	0	13 45	3				8 57	PCP
MELBOURNE	47.07	155.8	7 38A	0	13 50	5				8 58	PCP
KOUMAC	47.91	123.0	7 44	0						11 55	
DEHRA DUN	49.16	306.6	7 54	0	14 15	1					
POONA	49.60	290.3	7 57	0						14 21	
IRKUTSK	49.85	345.3	7 59K	0	14 27	4				16 43	SCS
NOUMEA	50.50	123.8	8 3	0						12 9	
BOMBAY	50.62	290.6	8 0	-4	14 32	-1	9 55			14 40	PS
LAHORE	52.58	306.6	8 17K	-1	14 59	0					
WARSAK DAM	55.63	308.4	8 40K	1	15 42	3					
KARACHI	56.98	296.6	8 49K	0	15 59	3	10 45			11 17	PP
FRUNSE	57.00	319.3	8 49	0	16 1	5					
YAKUTSK	57.49	3.9	8 52	0	16 2	-1				17 36	
SEMIPALATNSK	57.81	329.3	8 54	0	16 8	1	10 50			11 12	PP
QUETTA	58.24	302.7	8 57K	0	16 13	1	10 53			11 17	PP
STALINABAD	59.31	312.6	9 5	1	16 30	4					
TASHKENT	59.95	315.7	9 8	-1	16 37	3	11 4			17 54	SCS
ONERAHI	62.90	134.2	9 29	1							
COBB RIVER	64.46	140.0	9 37	0							
KARAPIRO	64.75	135.8	9 40A	1						11 54	
TONGARIRO	65.36	137.0	9 43	0						12 18	
CHATEAU	65.36	137.0	9 43	0						12 18	
WELLINGTON	65.88	139.3	9 45	-1							
ASHKABAD	67.00	309.3	9 53	0	18 4	6				18 53	SCS
TIKSI	67.02	2.1	9 52	-1	17 58	0	11 58			18 46	SCS
AFIAMALU	67.58	107.0	9 58	2							
SHIRAZ	70.47	299.7	10 10	-4	18 38	0					
SVERDLOVSK	71.09	329.1	10 17	0	18 43	-1					
MIRNY	74.16	191.9	10 34	-1	19 17	-1	12 46			10 52	PCP
GORIS	76.52	309.4	10 49	2	19 47	4	12 56				
TANANARIVE	77.50	249.6	10 53K	0			13 31				
TIFLIS	77.87	311.5	10 55	0	20 0	3	13 3			14 2	PP
HONOLULU	78.31	69.3	11 0	3							
KIPAPA	78.38	69.2	11 1	4							
KHEYS	81.41	351.4	11 14	1	20 34	1	13 26				
MOSCOW	83.39	325.4	11 23	0	20 50	-2	13 36				
KSARA	84.77	303.4	11 31	1	21 20	15	13 39			14 59	PP
JERUSALEM	85.41	301.4	11 33A	0			13 47				
APATITY	85.45	337.3					13 32				
COLLEGE	85.62	25.4	11 34	0	21 18	5	13 52				
SIMFEROPOL	85.72	314.6	11 34	0	21 0	-14	13 42				
PULKOVO	87.21	329.6			21 8	-20	13 52				
SODANKYLA	88.08	337.4	11 44	-1	21 33	-2				15 25	PP
HELWAN	88.87	299.7	11 49K	0							
HELSINKI	89.83	330.3	11 54	1							
NURMI JARVI	89.93	330.7	11 53	-1	21 50	-2	14 8			15 40	PP
KIRUNA	90.33	338.2	11 55	-1							
UPPSALA	93.50	330.8	12 9	-1							
SKALNATE PL.	94.59	320.0					16 9			16 27	PP
SOUTH POLE	94.61	180.0	12 15	0			14 24				
SKALSTUGAN	94.78	335.1	12 17	1							
BROKEN HILL	95.20	256.0	12 19K	1							
BULAWAYO	95.38	250.3	12 18K	-1							
BRATISLAVA	96.85	319.5					14 25			16 25	PP
GOTEBORG	96.96	329.6	12 25	-1							
RESOLUTE	97.62	9.4	12 28	-1							
PRUHONICE	97.97	321.7	12 21K	-9			14 48			16 42	PP
COLLMBERG	98.51	323.3	12 33A	0			14 50			16 46	PP
BYRD STATION	99.22	171.0	12 37	1			14 36			16 34	PP
STUTTGART	101.62	321.7	12 47	0							
STRASBOURG	102.62	321.9								17 18	PP
BANGUI	103.60	275.6								20 50	
UCCLE	103.76	324.9								17 41	PP
BESANCON	104.25	321.1								17 29	PP
MONACO	104.64	317.3								17 32	PP
DURHAM	105.04	330.3	12 3	777							
SHASTA	105.51	45.7	17 5	777							
LICK	107.21	48.8	17 41	777							
RENO	107.77	46.1	17 49	777							
SETIF	108.79	310.6								18 0	PP
EUREKA	110.53	44.9	17 24	3						18 8	PP
BOZEMAN	110.87	37.2	17 26	4							
PASADENA	110.97	50.9	17 26	4						20 4	
BOULDER CITY	112.79	47.9	17 30	5							
TAMANRASSET	112.88	297.0	17 15	-11	23 16	4				18 9	PP
RAPID CITY	116.39	35.3	17 35	2			19 14			18 50	PP
LARAMIE	116.56	38.9	17 36	3							
TUCSON	117.37	50.1	17 38	4			20 16			19 7	PP

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TUCSON TELE.	117.42	49.9	17 38	4				20 16	19 7 PP
LAWRENCE	124.24	35.4	17 49	1					
FAYETTEVILLE	126.79	37.3	17 54	1					20 16
SEVEN FALLS	127.10	11.5	17 56	3					
ST. LOUIS I	127.26	32.3	17 55	2	24	6	6		
BREBEUF	128.01	14.5							
LITTLE ROCK	128.78	37.3	17 59	3					20 20 PP
MORGANTOWN	131.26	23.3						20 32	
TACUBAYA	132.39	58.5							20 32
COLUMBIA	135.52	28.5						20 47	
MBOUR	135.74	295.9						20 48	
SANTA LUCIA	148.78	158.2	18 43	11					
SAN JUAN	155.54	20.5	19 15	33				21 26	
HUANCAYO	160.75	113.6	18 54A	6					19 41 PKP2
LA PAZ	164.16	138.8	18 56A	5					21 6 PKP2

8 FEB94A9Y 7 11.H 16.M 55.S EPICENTRE -15.65-173.14 DEPTH= 0.KM

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G= 0.2661 H= 0.0320 K=-0.9634 HT= 5.6

SE= 1.45

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
AFIAMALU	2.17	37.4	0	36A	-2							
SUVA	8.45	251.7				3	19	-25			4	8
NOUMEA	20.40	247.9	3	41	-60	8	33	8				
KOUMAC	22.01	253.8	4	56	-2	9	13	17				
ONERAHI	22.94	206.8	5	10	3							
KARAPIRO	24.35	202.1	5	22	1						8	4
TUAI	24.60	198.5	5	24	1						9	50
CHATEAU	25.48	200.8	5	31	0							
TONGARIRO	25.48	200.8	5	31	0							
COBB RIVER	28.15	203.0	5	57	1						10	56
BRISBANE	33.68	244.0	6	42	-3	12	2	-6				
CHARTERS TS.	38.83	257.3	7	27	-1						9	41
CANBERRA	39.08	232.8	7	30K	-1							
PORT MORESBY	39.22	274.3	7	33	1	13	32	-1			9	43 PCP
KIPAPA	39.71	22.4	7	36	0							
MELBOURNE	42.98	230.9	8	2	-1							
ADELAIDE	47.09	236.6	8	35	0							
CAPE HALLETT	57.50	186.0	9	52	-1						24	41 SSS
MUNDARING	65.64	241.7	10	47	-1							
BYRD STATION	68.68	171.3	11	6	-1							
MATUSIRO	69.29	319.7	11	10	-1	20	16	-1			16	18
BERKELEY	71.50	40.3	11	25	0							
LICK	71.57	41.1	11	26A	1							
PASADENA	72.01	45.6	11	28	0	20	58	9				
FRESNO	72.41	42.5	11	30	0							
SHASTA	73.18	38.0	11	35	1							
MINERAL	73.43	38.6	11	33	-3							
RENO	74.04	40.2	11	40K	1							
SOUTH POLE	74.45	180.0	11	41	-1							
CORVALLIS	75.13	34.4	11	49	3							
BOULDER CITY	75.30	45.5	11	46	-1							
SOUTH POLE	74.45	180.0	11	41	-1							
TUCSON	76.29	50.6	11	52	0							
TUCSON TELE.	76.41	50.5	11	53	0							
EUREKA	76.43	42.0	11	52	-1							
SALT LAKE C.	79.79	42.6	12	12	0							
NANKING	80.57	307.0	12	17	1							
CHANGCHUN	81.54	320.0	12	22	1							
BUTTE	82.09	37.8	12	23	-1							
COLLEGE	82.56	10.6	12	25	-1							
BOZEMAN	82.81	38.6	12	29	2							
LARAMIE	84.21	44.4	12	35	0							
PEKING	85.82	313.4	12	43A	0	23	45	30			23	14 SKS
RAPID CITY	86.99	42.7	13	4	16							
KUNMING	91.36	295.6	13	13	4							
RESOLUTE	101.90	15.4	13	56	-1							
QUETTA	123.37	296.0	19	2K	3							
KIMBERLEY	132.59	201.5	19	43A	26							
NURMIJARVI	133.38	348.0	19	18	0							
BROKEN HILL	143.25	216.6	19	35K	-1							
RACIBORZ	144.44	347.4	19	39	1							
BENSBERG	144.77	359.7	19	39	0							

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SKALNATE PL.	144.81	344.7	19 55K	16	
UCCLE	144.88	2.8	19 39	0	
PRUMONICE	145.19	351.3	19 42K	2	22 54
DOURBES	145.59	2.6	19 45	5	
FOLINIÈRE	146.42	8.8	19 43	1	
BRATISLAVA	146.49	347.6	19 46	4	
VIENNA-H.	146.56	348.4	19 44	2	
PARIS	146.73	5.3	19 45	3	
STUTTGART	146.91	357.1	19 43	0	
STRASBOURG	147.15	358.9	19 47	4	
TUBINGEN	147.16	357.3	19 45	2	
EBINGEN	147.51	357.4	19 47	4	
KSARA	148.20	310.0	19 47	2	23 11 PP
BESANCON	148.48	1.2	19 49	4	
KSARA	148.20	310.0	19 47	2	23 11 PP
BESANCON	148.48	1.2	19 49	4	
BELGRADE	148.73	341.2	19 52A	7	30 10
LJUBLJANA	149.02	349.6	19 51	5	
JERUSALEM	149.60	306.9	19 53A	6	
LWIRO	151.95	232.5	19 50K	0	
HELWAN	153.44	306.4	20 3K	11	
TAMANRASSET	172.79	9.9	20 12K	1	25 18 PP

FEBRUARY 8 12.H 45.M 34.S EPICENTRE -58.23 -65.98 DEPTH= 0.KM

A= 0.21538 B=-0.48322 C=-0.84859 D=-0.9134 E=-0.4071  
G=-0.3455 H= 0.7751 K=-0.5290 HT= -8.3

SE= 2.20

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ARGENTINE I.	7.09	174.2	1	45	-3							
BUENOS AIRES	24.17	15.2	5	19	0	9	30	-5				
SANTA LUCIA	25.00	350.7	5	29A	2	9	49	0				
BYRD STATION	27.07	198.0	5	46	0	10	19	-4			6	8
SOUTH POLE	31.94	180.0	6	28	-2						6	55 PP
SCOTT BASE	40.41	195.1				14	10	19				
LA PAZ	41.69	356.9	7	51A	-1	13	56	-14			9	35 PP
CAPE HALLETT	44.11	201.4	8	34	22	14	50	5			15	25 *SS
HUANCAYO	46.63	347.4	8	33A	1	15	26	5				
MIRNY	54.55	169.8	9	28	-4						11	32 PP
WILKES	55.72	178.3	9	41A	0	17	29	3			11	49 PP
HERMANUS	59.07	106.2				18	17	6			24	59
BOGOTA	62.99	350.9	10	31K	0	19	3	2				
CHINCHINA	63.47	349.2	10	33	-1							
GRAHAMSTOWN	63.62	111.0	10	33K	-2							
FUQUENE	63.80	351.4	10	36	0							
KIMBERLEY	66.43	106.7	10	52	-1							
ROXBURGH	66.98	218.9	11	1	4	19	58	8			20	21 SP
WINDHOEK	67.49	96.7	10	59	-1							
BALBOA HTS.	67.87	345.5	11	1K	-1	20	3	3				
CARACAS	68.49	359.0	9	24A	-102	19	26	-42				
WELLINGTON	68.72	224.9	11	13	5	20	21	10				
COBB RIVER	69.65	223.6	11	15	2							
GRENADA	70.12	4.4	11	14	-2							
CHATEAU	70.24	226.5	11	15	-2						11	43
TONGARIRO	70.24	226.5	11	15	-2							
PRETORIA	70.61	107.5	11	19	0							
ST. VINCENT	71.25	4.8	11	22	-1							
KARAPIRO	71.34	227.2	11	23	-1						11	49
LCO. MARQUES	72.63	111.1	11	32K	1	21	2	6			30	56
FORT FRANCE	72.80	4.9	11	38	6							
DOMINICA	73.36	4.6	11	32	-4							
SANTIAGO MA.	73.81	337.2	11	38	0							
SAN SALVADOR	74.15	336.5	11	42	2							
ST. KITTS	75.34	3.2	11	45	-2							
FORT NELSON	75.45	204.6				21	27	-1			30	6 SSS
BULAWAYO	75.48	104.6	11	47A	-1							
COMITAN	77.28	334.3				21	42	-6			36	58
BROKEN HILL	80.17	101.4	12	13	-1							
MELBOURNE	80.85	204.4	12	16	-1						22	38 SCS
MERIDA	81.29	337.7	12	20	0	22	29	-1				
TACUBAYA	82.09	328.5	12	20A	-4	22	44	6			15	33 PP
CANBERRA	82.30	208.2	12	26	1	22	46	6				
MBOUR	82.71	47.5	12	27K	0	22	47	2				
RIVERVIEW	83.16	210.4	12	30A	1	22	48	-1			15	43 PP

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ADELAIDE	84.87	200.2	12 39K	1	23 12	6	24 50
TANANARIVE	85.78	119.5	12 44	2			13 42
AFIAMALU	86.40	249.4	12 48	2	23 26	5	
BRISBANE	88.77	213.8	12 56	-1	23 19	-24	
NOUMEA	88.77	227.2	12 58	1			13 50
MUNDARING	90.13	181.9	13 4	1	23 39	-17	
PERTH	90.15	181.5					24 22
BERMUDA	90.27	1.1	13 40	36	23 58	1	29 58 SS
LWIRO	90.63	95.2	13 8A	2	23 51	-9	
BANGUI	90.84	83.1	13 25	18			37 7
KOUMAC	91.19	226.1	13 14	6			
COLUMBIA	92.74	347.5	13 14A	-1	23 35	-44	
FAYETTEVILLE	96.90	337.3	13 32K	-2			17 28 PP
CHARTERS TS.	97.52	210.4	13 38	1			17 41 PP
TUCSON	97.63	322.9	13 38A	0			17 40 PP
ST. LOUIS I	98.62	341.0			24 24	4	25 10 SCS
PALISADES	99.10	353.9	13 49	5	24 17	-6	17 47 PP
TAMANRASSET	99.89	62.7	13 48	0	24 21	-6	17 50 PP
LAWRENCE	99.89	337.2	13 44	-4			
PASADENA	101.84	318.0			24 37	1	18 15 PP
BOULDER CITY	102.36	321.3	13 59	0			
BREBEUF	103.56	354.5					18 8 PP
SALT LAKE C.	105.80	325.5	17 35	777			
EUREKA	105.91	321.9	18 37	777			
RAPID CITY	106.54	332.9	18 41	777			
BERKELEY	106.64	316.6			25 2	4	28 14
RENO	107.26	319.2	18 48	777			
PORT MORESBY	107.43	214.4	14 44	777	26 25	84	18 48 PP
LISBON	107.59	43.4					19 0 PP
GRANADA	108.34	48.2	14 23	777			19 31 PP
ALMERIA	108.51	49.2	14 23K	777			19 8 PP
BOZEMAN	110.06	328.1	17 22	-71			
TOLEDO	110.51	46.5	18 47	13			19 20 PP
ALICANTE	110.60	49.8	14 35	777	26 48	93	34 42 SS
ALGIERS UNI.	110.71	53.3			26 43	88	19 9 PP
BUTTE	110.81	327.2	16 34	777			
HUNGRY HORSE	113.35	327.3					19 31 P
LEMBANG	114.95	173.0					19 33 P
MESSINA	117.46	61.4	18 23	-25	26 9	28	21 2 PP
HELWAN	118.62	78.9	19 59	69			36 14
PARIS	120.55	45.6	18 58	4			37 7 SS
RATHFARNHAM	121.23	37.3					29 26 SS
KEW	121.71	42.1					28 35 PKKP
JERUSALEM	122.16	80.7	18 59	2			20 41 PP
DOURBES	122.40	46.0	19 7	10			
STRASBOURG	122.42	49.0	19 58	61			30 26 PS
UCCLE	122.88	45.4	18 56	-2	26 4	5	
STUTTGART	123.18	49.9	19 0	1			30 11 PS
DURHAM	124.00	39.1	19 2	1			21 0 PP
KSARA	124.10	79.7	19 2	1	26 13	10	20 59 PP
MEDAN	124.18	161.4	19 3	2			
DE BILT	124.23	44.9					20 26 PP
MUNSTER	125.05	46.5	20 4	61			21 2 PP
PLAUEN	125.69	50.3	19 1	-3			
JENA	125.80	49.6	19 4	0			21 6 PP
PRUHONICE	126.29	52.2	19 6	1			21 11 PP
HALLE	126.38	49.4	19 6	1			20 57 PP
COLLMBERG	126.66	50.2	19 6A	0			21 0 PP
BUCHAREST	127.27	64.1	19 29	22			28 46
RACIBORZ	127.91	54.3	19 10	2			
MADRAS	128.17	136.3					21 23
KRAKOW	128.64	55.4	19 10	1			21 19 PP
SHIRAZ	129.60	96.9	19 12	1			21 41
IASI	130.02	62.7					27 20 SKKS
LWOW	130.28	58.1	19 14	1			21 26 PP
BOMBAY	130.55	124.8					21 28
POONA	130.66	126.2	19 16	3			21 29 PP
WARSAW	130.70	54.1					21 27 PP
PORT BLAIR	130.80	152.0					22 47
GOTEBORG	131.04	44.1	19 15	1			
SIMFEROPOL	131.56	69.1	19 16	1			22 55 PKS
KARACHI	133.02	114.7	19 19	1			22 48 PKS
GORIS	133.87	83.2	19 14	-5			39 38 SS
THULE	134.40	359.2	19 18	-2			21 42 PP
UPPSALA	134.65	44.8	19 21	0			
TIFLIS	134.68	79.8	19 22	1			28 35 SKKS
COLLEGE	137.33	321.4	19 15	-11			
QUETTA	137.43	110.4	19 22	-4			22 3 PP

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HELSINKI	137.67	47.9	19 26	0					
NURMI JARVI	137.76	47.4	19 23	-4				23	0 PKS
BAGUIO CITY	137.97	189.4	20 26	59					
ASHKABAD	139.07	94.8	19 41	12					
PULKOVO	139.58	50.9	19 29	-1				22	24 PP
CALCUTTA	139.84	141.6	20 9	39					
MOSCOW	140.37	59.5	19 33	2					
KIRUNA	140.58	36.6	19 30	-2					
CHITTAGONG	140.75	146.4	19 36	4	26	42	2	23	12 PKS
NORD	142.06	10.4	19 28	-6					
LAHORE	142.13	117.3	19 44	10					
SODANKYLA	142.35	39.3	19 30	-5				22	42 PP
DEHRA DUN	142.79	122.9	20 14	39				23	36
CHATRA	143.39	137.4	19 33	-3					
SHILLONG	143.79	144.8	19 34K	-3					
HONG KONG	144.11	180.2	19 39	1	27	14	28	23	40 PP
ISFJORD	144.11	20.4	19 36	-2					
APATITY	144.76	41.0	19 37A	-2				21	24
CANTON	144.89	178.9	19 39	0					
STALINABAD	144.97	104.1	19 41	2				25	29
KUNMING	145.95	161.5	19 44	3					
TASHKENT	147.27	101.3	19 43	0					
LHASA	147.30	141.0	19 46	3					
FRUNSE	151.11	104.9	19 51	2				19	57 PKP2
CHENG TU	151.58	161.6	19 53	3					
SVERDLOVSK	151.92	69.6	19 57	7					
TUKUBASAN	152.07	229.4	20 0	9				23	32 PP
KHEYS	152.33	17.0	19 50	-1				19	57 PKP2
ZO-SE	152.43	193.3	20 4	13					
ABUYAMA	152.57	221.0	20 3K	12					
MATUSIRO	153.09	226.8	19 58	6				23	58 PP
NANKING	153.63	189.1	20 4	11					
LANCHOW	156.80	158.6	20 0	3					
SEMIPALATNSK	158.99	97.2	20 0	0					
Y.-SAKHLINSK	159.45	249.4	20 4	4					
MAGADAN	161.10	289.7	20 9	7					
PEKING	161.73	185.3	20 7	4					
CHANGCHUN	163.96	210.8	20 10	5					
TIKSI	165.23	341.4	19 59	-7					
ULAN-BATOR	168.83	154.5	20 11	2					
YAKUTSK	171.30	302.5	20 8	-2					
IRKUTSK	171.86	133.0	20 11	1				32	7 SKKS

FEBRUARY 8 18.H 54.M 27.S EPICENTRE 36.21 70.40 DEPTH= 155.KM

A= 0.27128 B= 0.76184 C= 0.58822 D= 0.9421 E=-0.3355  
G= 0.1973 H= 0.5541 K=-0.8087 HT= -0.3

DEPTH OF FOCUS= 0.019R

SE= 2.18

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
KHOROG	1.55	35.3	0	32	1	0	57	2				
KULYAB	1.76	343.0	0	34	1							
NUREK	2.34	339.0	0	40	0	1	9	-2				
CHUIAN-GARON	2.62	338.4	0	43	0	1	15	-2				
GISSAR	2.68	327.6	0	45	1							
STALINABAD	2.69	331.6	0	44	0	1	16	-2				
ZIMCHURUD	2.85	334.0	0	46	0	1	20	-2				
DZERG TAL	3.07	12.1	0	49	0	1	25	-2				
MURGAB	3.54	51.6	0	56	1	1	36	-2				
FERGANA	4.30	14.2	1	6	1	1	53	-2			1	54
SAMARKAND	4.38	322.9	1	7	1							
ANDI JAN	4.78	18.2	1	12	1	2	4	-3			1	39
NAMANGAN	4.86	11.4	1	13	1	2	7	-1			1	44
TASHKENT	5.17	350.6	1	17	1	2	12	-4				
LAHORE	5.69	143.8	1	21	-2	2	13	-15				
QUETTA	6.68	206.6	1	37A	0	2	48	-4			2	15 *SP
BAIRAM-ALI	6.78	284.2	1	36	-2	2	48	-6			3	41
NARYN	6.80	38.3	2	3	25	2	50	-5				
FRUNSE	7.37	25.0	1	46	0	3	5	-3			2	25
ALMATA	8.66	33.6	2	3	0	3	35	-4				
DEHRA DUN	8.69	130.4	2	3	0	3	37	-3			2	10 PP
PRZHEVALSK	8.80	42.3	2	4	-1	3	37	-5				



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ALMATA-2	8.85	35.2	2	5	0						
KURMENTY	9.10	39.5	2	7	-2						
ASHKABAD	9.78	283.8	2	16	-2						
KIZYL-ARVAT	11.58	289.1	2	38	-3	4	38	-10			
KARACHI	11.71	195.2	2	38	-5	4	38	-13		3	19 *SP
SEHORE	14.23	154.2	3	15	0	6	45	56		3	27 PP
SEMI PALATNSK	15.87	23.6	3	32	-4						
SHIRAZ	16.37	251.5	3	44	2						
CHATRA	17.07	118.5	3	48	-2	6	44	-9			
BOMBAY	17.38	172.3	3	55	1	7	15	15		4	38 PP
POONA	17.88	169.3	4	1	1	7	10	-1			
BOKARO	18.14	128.6	4	3K	0	7	11	-6			
LHASA	18.51	104.8	4	9	2	7	22	-2			
GORIS	19.27	287.1	4	16	1					7	44
TIFLIS	20.61	293.3	4	29	1					7	46
CALCUTTA	20.72	126.3	4	37	8	8	12	5			
SHILLONG	21.22	114.0	4	34A	0	8	18	2		5	23
SVERDLOVSK	21.65	345.4	4	40	2					8	28 PCP
CHITTAGONG	23.16	120.7	4	55	2	8	56	6		5	48 *SP
MADRAS	24.73	156.7								5	44
LANCHOW	26.93	80.3	5	29A	1	9	54	2			
KSARA	28.29	275.4	5	42	1						
CHENGTU	28.50	91.4	5	43	0	10	18	1			
SIMFEROPOL	28.71	299.0	5	51	7					6	31
IRKUTSK	28.78	45.4	5	44	-1						
ULAN-BATOR	29.25	55.0	5	48	-1						
MOSCOW	29.57	321.7	5	52	0	10	32	-2	6	23	12 2
KUNMING	29.81	102.7	5	53	-1	10	39	1			
SIAN	31.39	82.1	6	7A	-1						
PULKOVO	34.87	325.3	6	39	1	11	56	-1	7	12	7 46
PEKING	35.91	69.7	6	47	0						
LWOW	35.94	307.0	6	46	-1					7	14
HELSINKI	37.52	324.2	7	1	1					8	28 PP
APATITY	37.70	337.8	7	2	0					8	33 PP
NURMI JARVI	37.77	324.7	7	3	1	12	41	0	7	38	8 28 PP
OULU	39.13	331.6	7	13	-1						
SODANKYLA	39.79	335.3	7	19	0					9	0 PP
NANKING	39.93	81.4	7	21	1						
HONG KONG	40.29	97.8	7	23	0	13	21	2			
UPPSALA	41.00	322.2	7	29	0					9	5
MEDAN	41.64	134.6				13	27	-14			
PRUHONICE	42.07	307.1	7	41	3				8	14	9 16
KIRUNA	42.13	334.3	7	39	1					8	41
ZO-SE	42.19	81.7	7	39	0						
COLLMBERG	43.00	309.1	8	19	34					9	45
PLAUEN	43.57	308.0								9	45 PP
HALLE	43.64	309.5	7	43	-7	14	17	9	8	27	9 44 PP
GOTEBORG	43.64	318.5	7	48	-2					9	32
JENA	43.91	308.7	8	1	8	14	58	46	8	43	10 3 PP
SKALSTUGAN	44.18	327.0	7	57	2					9	25
YAKUTSK	44.50	35.4	7	55	-2						
KHEYS	44.78	357.1	8	0	0					18	51 PPP
STUTT GART	45.61	305.8	8	37	31						
TIKSI	46.21	22.0	8	10	-1						14 44
MUNSTER	46.29	310.4	8	51	40						
SETIF	51.51	290.5	8	49	-3				9	25	10 54 PP
MATUSIRO	53.51	68.1	9	4A	-2					10	9 PCP
TAMANRASSET	57.09	275.5	9	32	0				10	6	12 22
TANANARIVE	58.94	205.4	9	46	1				10	24	
BROKEN HILL	64.09	226.0	10	20	1						11 55
THULE	64.66	350.1	10	21	-2						11 16
BULAWAYO	68.58	222.3	10	48	0						11 28
RESOLUTE	68.96	355.9	10	49A	-1						
COLLEGE	74.90	15.9	11	25	0				12	4	
KIMBERLEY	77.57	220.0	11	41K	1						
MUNDARING	80.26	141.8	11	53	-2						
PORT MORESBY	84.98	105.4	12	18	-1						
CHARTERS TS.	90.87	114.3	12	46	-1						14 27
SOUTH POLE	126.03	180.0	18	43	-1						
BYRD STATION	135.90	177.5	18	53	-9						22 19 PP

FEBRUARY 8 19.H 6.M 14.S EPICENTRE -8.33 -74.43 DEPTH= 158.KM

A= 0.26556 B=-0.95329 C=-0.14393 D=-0.9633 E=-0.2684  
G=-0.0386 H= 0.1387 K=-0.9896 HT= 6.7

DEPTH OF FOCUS= 0.020R

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SE= 2.32

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	O-C S	M	S	M	S
HUANCAYO	3.80	193.4	0	59A	0	1	44	0				
LA PAZ	10.19	143.4	2	21A	-2	4	41	26			5	6
BOGOTA	12.87	1.6	3	0	2	5	15	-3				
CHINCHINA	13.27	354.8	3	4	1	5	29	2				
FUQUENE	13.73	3.0	3	31	22	5	38	0				
GALERAZAMBA	19.00	357.5				7	49	15				
CARACAS	20.14	21.9	3	44K	-39	7	14	-42				
TRINIDAD	22.89	34.8	4	50	0						5	21
GRENADA	23.86	32.1	4	58	-2						5	31
ST. VINCENT	25.04	31.6	5	11	0						5	42
BARBADOS	25.91	34.8	5	21	2							
SAN SALVADOR	26.33	326.0	5	58	35						5	57
SAN JUAN	27.78	17.1	5	35	-1				6	16		
ST. KITTS	28.01	24.4									6	13
TACUBAYA	36.81	318.7	7	6	12							
COLUMBIA	42.56	351.9	7	42	0							
LITTLE ROCK	46.10	339.4	8	8K	-2							
FAYETTEVILLE	47.94	338.4	8	23K	-1				8	57	9	32 *SP
MORGANTOWN	47.99	354.3	8	25A	0							
FORDHAM	48.94	0.6	8	32	0						9	18
ST. LOUIS 1	48.99	343.6	8	30	-2				9	8		
TUCSON TELE.	53.23	321.3	9	4	0				9	38		
TUCSON	53.24	321.1	9	4	0				9	28		
OTTAWA	53.49	358.9	9	6A	0							
BREBEUF	53.59	0.7	9	6K	-1						11	13 PP
SHAWINIGAN	54.65	1.4	9	13A	-2							
SEVEN FALLS	55.30	3.0	9	18	-1							
BOULDER CITY	58.19	321.8	9	40	0							
RAPID CITY	58.30	335.9	9	40	0				10	17		
PASADENA	59.17	318.1	9	47	1							
EUREKA	61.17	324.1	10	1	1				10	51		
MBOUR	61.30	68.7	10	0	-1							
BOZEMAN	62.98	332.0	10	12	0							
BUTTE	63.95	331.4	10	17	-1							
BYRD STATION	74.72	187.4	11	25	1							
SOUTH POLE	81.72	180.0	12	3	1							
RESOLUTE	83.81	354.6	12	12K	-1							
TAMANRASSET	84.04	66.0	12	14A	0				12	47		
THULE	84.68	1.5	12	18	1				12	56	13	14 *SP
FOLINIERE	85.81	39.6	12	26	3						12	59
COLLEGE	90.53	335.8	12	45	0				13	26	16	22 PP
STUTTGART	92.08	41.2	12	55	3				13	28		
KIMBERLEY	94.03	119.7	12	40A	-21							
BROKEN HILL	100.28	106.3	13	19	-11							
CHARTERS TS.	131.00	234.3	18	55	2							
QUETTA	137.86	53.7	19	11	5							
MATUSIRO	139.15	318.4	19	7	-1							
SHILLONG	158.46	35.6	19	40A	2							
CHITTAGONG	160.78	41.9	19	48	8							

FEBRUARY 9 11.H 56.M 13.S EPICENTRE -3.90 127.87 DEPTH= 0.KM

A=-0.61243 B= 0.78763 C=-0.06755 D= 0.7894 E= 0.6138  
G= 0.0415 H=-0.0533 K=-0.9977 HT= 7.1

SE= 2.12

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	O-C S	M	S	M	S
MANILA	19.64	340.1	4	32	0	8	0	-9				
PORT MORESBY	19.91	106.9	4	34	-2	8	25	10			8	58
LEMBANG	20.37	260.9	4	40A	0							
DJAKARTA	21.08	263.0	4	44	-4	8	37	-1				
BAGUIO CITY	21.44	340.5	4	51	0	8	48	3				
GUAM	24.04	43.9	5	16	-1	10	6	34				
CHARTERS TS.	24.09	133.4	5	19	1	9	24	-9				
RABAUL	24.24	91.6	5	19	0							
HONG KONG	29.28	333.4	6	6A	0	11	31	33				
MUNDARING	29.99	200.1	6	11	-1	11	10	0				
MEDAN	30.10	283.9	6	12K	-1						12	17
PERTH	30.11	200.7	6	12	-1	11	18	6				
CANTON	30.34	332.8	6	16A	1	11	10	-5				

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ADELAIDE	32.51	163.3	6 35	1	11 47	-2		
BRISBANE	33.33	137.0	6 43	2	12 0	-2	11	1
ZO-SE	35.38	350.1	6 59A	0	12 30	-4		
NANKING	36.79	347.1	7 12A	1	12 55	0		
RIVERVIEW	36.84	146.7	7 12A	1	12 56	0		8 12
CANBERRA	36.88	150.6	7 13A	1	12 59	2		9 33 PCP
MELBOURNE	37.22	157.4	7 16A	2	13 6	4	7 24	8 44 PP
KUNMING	37.78	321.1	7 22A	3	13 13	2		
PORT BLAIR	38.22	294.3	7 34	11	13 7	-10		
KOUMAC	39.11	118.1	7 30	0				10 31
CHENGTU	41.24	328.1	7 48A	0				
MATUSIRO	41.37	12.6	7 50A	1	14 12	7		9 47 PCP
NOUMEA	41.60	119.6	7 50	-1				9 48
CHITTAGONG	43.85	308.2	8 12A	3	14 43	2		9 57 PP
PEKING	45.02	347.3	8 18A	-1				
SHILLONG	45.57	312.0	8 23A	0	15 0	-6		10 13 PP
LANCHOW	45.67	332.5	8 25A	1	15 4	-3		
CALCUTTA	46.68	306.1	8 37	5				
VLADIVOSTOK	46.94	4.0	8 32	-2	15 25	0		
PAOTOW	47.19	341.5	8 35A	-1				
CHANGCHUN	47.57	357.5	8 36	-3	15 25	-9		
LHASA	48.55	315.9	8 49A	3	15 48	0		
BOKARO	49.37	306.1	8 51A	-2	15 56	-4		
CHATRA	49.79	310.3	8 56	0	15 51	-14		
MADRAS	50.24	290.3	9 0A	1	16 11	-1		10 52 PP
Y.-SAKHLINSK	52.37	12.8	9 16	0				
UGLEGORSK	54.19	11.5	9 30	1				
COBB RIVER	54.63	139.2	9 32	0				
ULAN-BATOR	54.78	342.9	9 34	1				
ROXBURGH	54.96	145.3			17 17	1		22 21 SSS
KARAPIRO	55.07	134.5	9 36A	0				9 47
TONGARIRO	55.62	135.9	9 40	0				
AGRA	57.13	305.8	9 47	-3	17 39	-6		
IRKUTSK	59.42	343.4	10 5	-1				
LAHORE	61.90	308.9	10 22A	-1	18 43	-3		
PETROPAVLOVK	62.35	20.4	10 26	0	18 56	4		
KARACHI	65.56	299.4	10 46A	-1				
YAKUTSK	65.75	1.0	10 48	0	19 32	-2		
MAGADAN	65.80	12.6	10 50	1				
QUETTA	67.28	304.9	10 58A	0	19 50	-3		13 24 PP
TIKSI	75.39	0.3	11 46	-1	21 33	6		
SHIRAZ	79.25	301.0	12 8	0	22 4	-4		
SVERDLOVSK	81.04	329.1	12 18	0				
MAKHACH-KALA	85.60	313.5	12 45	4				
SOUTH POLE	86.13	180.0	12 43	-1				16 4
TIFLIS	87.40	311.9	12 52	2				
BYRD STATION	90.02	170.7	13 1	-1				
KHEYS	90.58	351.1	13 4	-1				
COLLEGE	91.08	25.2	13 7	0				16 33 PP
MOSCOW	93.33	325.5	13 14	-4				
KSARA	93.80	303.5	13 19	-1				17 14 PP
JERUSALEM	94.28	301.4	13 23A	1	24 19	-13		
SODANKYLA	97.90	337.5	13 37	-2				
KIRUNA	100.14	338.4			23 59	-28		
CHORZOW	105.00	321.1	15 5	777				
RESOLUTE	105.06	10.8	14 9	777				
BRATISLAVA	106.68	319.2	18 18	777				18 47 PP
PRUHONICE	107.85	321.5	18 44	777				18 52 PP
COLLMBERG	108.42	323.1	17 53	777				18 53
JENA	109.39	323.0	18 59	777				
STUTTGART	111.50	321.4	18 37	1				
PASADENA	111.95	54.8						19 24 PP
BOZEMAN	114.16	41.2	18 44	3				
LARAMIE	119.48	44.0	18 53	2				
RAPID CITY	119.91	40.3	18 54	2				20 14 PP
TAMARASSET	121.24	294.2	18 56A	1				20 23 PP
ST. LOUIS 1	131.06	39.9						22 41 PKS
TACUBAYA	131.59	67.5						22 44
LITTLE ROCK	131.72	45.4	19 17	2				22 43 PKS
OTTAWA	133.80	23.0	19 20K	1				
SHAWINIGAN	133.89	19.7	19 19A	0				
MBOUR	143.81	289.0	19 38A	1				
HUANCAYO	152.02	124.8	20 1	11				23 43 PP
LA PAZ	154.29	142.4	19 58A	5				23 53 PP
SAN JUAN	160.14	42.5	20 46	45				24 23 PP

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FEBRUARY 9 23.H 55.M 57.S EPICENTRE -3.98 127.79 DEPTH= 61.KM

A=-0.61136 B= 0.78835 C=-0.06888 D= 0.7902 E= 0.6128  
G= 0.0422 H=-0.0544 K=-0.9976 HT= 7.1

DEPTH OF FOCUS= 0.004R

SE= 3.04

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MANILA	19.68	340.4	4	28	1							
PORT MORESBY	19.96	106.6	4	25	-5							
LEMBANG	20.28	261.1	4	33A	0	8	19	7				
D JAKARTA	20.99	263.1	4	37	-4	8	25	-1				
CHARTERS TS.	24.09	133.2	5	12A	1	9	31	10				
GUAM	24.15	43.9	5	12	0	9	43	21			5	51 PP
RABAUL	24.32	91.4	5	13	0	9	47	22				
HENGCHUN	26.72	345.3	5	40	4							
TAWU	27.02	345.8	5	42	3	11	20	70				
KAHSIUNG	27.44	344.8	5	40	-2							
HSINKONG	27.63	347.2	5	53	9							
TAINAN	27.81	344.9	5	51	5							
ALISHAN	28.17	346.3	5	55	6							
HWALIEN	28.42	348.1	5	46	-5							
TAICHUNG	28.80	346.4	6	33	38							
HONG KONG	29.32	333.5	5	58A	-1	10	46	-1				
TAIPEI	29.47	348.4	5	59	-2							
MUNDARING	29.90	200.0	6	4	0	11	2	6				
PERTH	30.01	200.6	6	6	1	11	15	17			13	19
MEDAN	30.04	284.1	6	5A	-1						8	38
CANTON	30.38	333.0	6	9A	0							
ADELAIDE	32.46	163.1	6	27A	0	11	49	13			9	7 PCP
BRISBANE	33.33	136.9	6	36	1	11	59	9				
YAKUSIMA	34.33	4.1	6	41	-2	12	17	12				
KAGOSIMA	35.44	4.1	6	55	2	12	14	-8				
ZO-SE	35.45	350.2	6	52A	-1	12	26	4				
MIYAZAKI	35.86	5.3	6	57	1	12	39	10				
TORISIMA	36.29	18.4	6	52	-8							
TOMIE	36.41	1.4	7	0	-1	12	57	20				
NAGASAKI	36.56	3.0	7	2A	0	12	43	3				
KUMAMOTO	36.70	4.1	7	2	-1							
RIVERVIEW	36.82	146.6	7	6A	2	12	53	9			9	32 PP
NANKING	36.85	347.2	7	5A	1	12	54	10				
CANBERRA	36.85	150.4	7	6A	2	12	39	-5			8	33 PP
SIMIDU	36.88	7.3	7	4	-1	12	47	2				
SAGA	37.10	3.5	7	5	-2							
MELBOURNE	37.18	157.2	7	8A	1	12	55	6			13	12 *SS
OOITA	37.18	5.3	7	9	2							
HUKUOKA	37.43	3.6	7	9A	0	12	23	-30			9	20
KOTI	37.71	7.8	7	13A	1	13	3	6			8	36 PP
KUNMING	37.80	321.2	7	14A	2	13	11	13				
MATUYAMA	37.91	6.8	7	14	1	13	4	4			8	35 PP
SIOMISAKI	37.98	10.9	7	14	0	13	31	30				
TOKUSIMA	38.38	9.1	7	18	1	13	11	4				
HIROSIMA	38.39	6.2	7	16	-1	13	9	2				
TAKAMATU	38.54	8.3	7	23	4	12	53	-17				
WAKAYAMA	38.63	9.8	7	20	1	13	14	3				
OWASE	38.66	11.2	7	20	0	13	4	-8				
SUMOTO	38.70	9.4	7	20A	0	13	14	2			8	48
HAMADA	38.88	5.6	7	23A	2	13	3	-12			21	19
KOBE	39.07	9.7	7	22	-1	13	20	2			18	7
OSAKA	39.10	10.1	7	24	1	13	32	14			7	58
KOUMAC	39.13	118.0	7	23	-1							
NARA	39.19	10.5	7	24	0							
ABUYAMA	39.33	10.1	7	25A	0							
KAMEYAMA	39.47	11.3	7	27	1	13	30	6			8	59 PP
KYOTO	39.50	10.3	7	32	5	13	8	-16				
MATSUE	39.53	6.8	7	29	2	13	30	5				
YONAGO	39.54	7.1	7	29	2						11	12
OMAESAKI	39.61	13.5	7	22	-5	13	12	-14			16	16
HIKONE	39.84	10.8	7	32	3	13	33	4				
TOYOOKA	39.85	9.0	7	29	0							
NAGOYA	39.88	11.8	7	26	-4	13	33	3				
SHIZUOKA	40.00	13.6	7	29	-2	13	13	-19				
OSIMA	40.05	14.9	7	40	9							
GIHU	40.06	11.4	7	31	0	13	34	1			14	22
MISIMA	40.28	14.2	7	32	-1							
SAIGO	40.30	6.9	7	33	0						9	15

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MEHA	40.31	15.4	7 24	-9						15	8
IIDA	40.40	12.7	7 33	-1						10	55
HUNATU	40.60	13.8	7 37	1	13 28	-13					
KOHU	40.71	13.5	7 35	-2	13 28	-14					
TOKYO C.H.O.	41.01	14.9	7 48	9	13 43	-4				8	33
TITIBU	41.13	14.0	7 39	-1							
MATUMOTO	41.13	12.5	7 40	0	13 49	0					
CHENGTU	41.26	328.2	7 41A	0	14 2	12					
OIWAKE	41.34	13.2	7 56	14	13 57	5				9	11
KUMAGAYA	41.36	14.2	7 43	1						12	9
TOYAMA	41.41	11.5	7 45	3	13 42	-11				13	2
MATUSIRO	41.46	12.7	7 41A	-2	14 11	18				9	8 PP
MAEBASI	41.53	13.8	7 49	6						10	32
NAGANO	41.59	12.6	7 43	-1	13 59	4					
TUKUBASAN	41.61	15.0	7 41A	-3	14 2	6				9	41 PP
NOUMEA	41.63	119.4	7 44	0							
MITO	41.86	15.4	7 52	6							
UTUNOMIYA	41.86	14.6	7 43	-3						13	23
PORT VILA	41.96	112.1	7 42	-5							
SIAN	41.98	336.4	7 49A	2							
SHIRAKAWA	42.49	14.8	7 54	3							
FORT NELSON	42.51	158.7	7 59	8	14 17	8					
AIKAWA	42.90	12.2	7 54	-1							
NIIGATA	42.97	13.1	7 49	-6							
HUKUSIMA	43.15	14.7	7 57	0	14 23	5					
YAMAGATA	43.60	14.4			14 31	6					
SENDAI	43.75	15.0	7 58	-3	14 26	-1				8	20
CHITTAGONG	43.83	308.3	8 4A	2	14 36	8				9	47 PP
ISINOMAKI	44.01	15.3	8 4K	0	14 21	-10					
TOCKLAI	44.18	315.6								14	7
MIZUSAWA	44.62	14.8	8 9	1	14 39	0					
AKITA	44.93	13.5	8 12A	1	14 31	-13					
MORIOKA	45.17	14.6	8 13	0	15 0	13					
MIYAKO	45.33	15.4	8 16	2	14 52	2					
LANCHOW	45.70	332.6	8 18A	1							
HATINOHE	46.05	14.6	8 15	-5	14 51	-9					
AOMORI	46.14	13.7	8 10	-11							
VLADIVOSTOK	47.02	4.1	8 27	0						9	42
HAKODATE	47.07	13.2	8 27A	-1						15	31
MORI	47.31	12.9	8 31	1	15 32	14					
CHANGCHUN	47.64	357.6	8 31	-1	15 30	8					
URAKAWA	47.89	15.0	8 28	-6							
SUTTSU	47.90	12.3	8 34	0	15 29	3				10	29
TOMAKOMAI	48.04	13.7	8 36	1							
SAPPORO	48.41	13.3	8 38	0	15 37	4				9	52
LHASA	48.55	316.0	8 41	2	15 50	15					
OBIIHRO	48.72	15.1	8 43	2							
KUSIRO	49.09	16.1	8 43A	-1	15 45	2					
NEMURO	49.75	17.0	8 48	-1	15 55	3				15	20
CHATRA	49.78	310.4	8 48	-1	15 56	4					
ABASHIRI	50.03	15.5	8 51	0							
MADRAS	50.20	290.4	8 51	-1	16 3	5	9 6			10	47 PP
WAKKANAI	50.71	12.6	8 56	0							
SUVA	51.47	110.0	9 1	-1						10	18
KODAIKANAL	52.06	286.1	9 9K	3	17 0	36				20	42 SS
Y.-SAKHLINSK	52.46	12.8	9 7	-2						12	13 PPP
HYDERABAD	53.13	295.1	9 11A	-3	16 49	11				11	10 PP
ONERAHI	53.29	132.5	9 15	0						12	52
KAIMATA	54.53	141.2	9 34	10						9	53
COBB RIVER	54.62	139.1	9 26	1							
ULAN-BATOR	54.83	342.9	9 27	0						17	36
ROXBURGH	54.94	145.3	9 21	-6	17 5	2				22	31 SSS
KARAPIRO	55.07	134.4	9 29A	1						10	16
GEBBIES PASS	55.92	141.9	9 34	0							
WELLINGTON	56.06	138.4	9 38	3	17 23	5				11	58 PP
SEHORE	56.33	301.1	9 37	0							
TUAI	56.58	134.7	9 38	-1							
AGRA	57.11	305.9	9 40	-3	17 40	8	10 6			12	1 PP
POONA	57.63	294.7	9 45	-2	17 40	2				11	55 PP
DEHRA DUN	58.48	309.3	9 53	1	17 56	7				11	58 PP
BOMBAY	58.67	294.8	9 50	-4	17 52	0				12	8 PP
IRKUTSK	59.47	343.5	9 58A	-1	18 9	7					
AFIAMALU	60.36	103.7	10 6	1	18 31	17	10 20			14	11 PPP
LAHORE	61.89	308.9	10 18	2	18 37	4					
PETROPAVLOVK	62.45	20.5	10 19	-1						12	35 PP
WILKES	63.42	187.7	10 25A	-1	18 58	6				14	18 PPP
WARSAK DAM	65.03	310.4	10 36	0							
KARACHI	65.54	299.4	10 38A	-2	19 40	22				13	2 PP

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YAKUTSK	65.83	1.0	10 41	0						13 9 PP
MAGADAN	65.89	12.6	10 42	0	19 29	6				
KERGUELEN I.	66.39	217.1	10 47	2						15 33
FRUNSE	66.84	320.2	10 47	-1						
MIRNY	66.98	194.4	10 47	-2						10 47 PSP
QUETTA	67.27	304.9	10 50A	-1	19 40	1				13 22 PP
SEMI PALATNSK	67.79	329.3	10 51	-3	19 52	6				13 17 PP
STALINABAD	68.92	313.9	11 1	0	20 7	8				
BAIRAM-ALI	73.47	311.0	11 27	-1						
TIKSI	75.47	0.4	11 39	-1	21 15	1				16 10 PPP
HONOLULU	76.71	67.2	11 48	1	22 3	36				
KIPAPA	76.80	67.0	11 48	1						
HAWAII V.OB.	79.05	69.5	12 1	1	22 59	67				
TAMANARIVE	79.50	251.6	12 3	1						12 17 PCP
GORIS	85.93	309.9	12 36	1	22 53	-9				18 1 PPP
SOUTH POLE	86.05	180.0	12 35	-1						15 44 PP
TIFLIS	87.40	311.9	12 43	1						23 26 SCS
BYRD STATION	89.96	170.7	12 55	1	23 55	15				16 29 PP
KHEYS	90.65	351.1	12 57	0						13 0 PCP
COLLEGE	91.18	25.2	12 58	-2	23 15	-36				16 35 PP
LCO. MARQUES	92.94	243.9	13 20	12						16 45 PP
MOSCOW	93.35	325.5	13 9	-1						
KSARA	93.78	303.5	13 12A	0	24 25	12				17 1 PP
JERUSALEM	94.26	301.4	13 15K	1	23 57	-20				
APATITY	95.32	337.4	13 18	-1						
SIMFEROPOL	95.39	314.6	13 20	1						
PULKOVO	97.18	329.6	13 28	1						
BULAWAYO	97.24	249.2	13 28	0						
HELWAN	97.57	299.5	13 28	-1	24 9	9				
SODANKYLA	97.95	337.5	13 30	-1					13 44	
BROKEN HILL	98.02	254.9	13 32	1						
OULU	98.78	335.2	13 36	1						
LWIRO	98.81	267.1	13 36	1	25 2	56				
ISTANBUL KA.	99.18	310.8	13 36	0						17 33 PP
KIMBERLEY	99.46	240.1	13 39	1						
HELSINKI	99.81	330.3	13 39	0						
NURMI JARVI	99.90	330.7	13 43	3						18 7 PP
NORD	100.81	355.0	13 57	13	24 22	6				26 35 PS
HERMANUS	102.93	233.5								18 14 PP
SKALNATE PL.	104.44	319.8	14 1	1						
RESOLUTE	105.15	10.8	14 3	777						18 27
BRATISLAVA	106.69	319.2	14 10	777						
THULE	107.06	3.9	14 11	777						18 40 PP
VIENNA-H.	107.14	319.4	18 37	777						
PRUMONICE	107.86	321.4	18 39	777	25 3	15				28 15 PS
PRAGUE	107.91	321.6	19 13	777						
COLLMBERG	108.44	323.1	18 45	777						18 56 PP
HALLE	109.00	323.5	17 47	777	24 49	-4				18 58 PP
CHEB	109.18	322.0	18 21	777						
JENA	109.40	323.0	18 9	777	25 11	16				18 57 PP
BANFF	109.60	36.7	18 16	777						
MESSINA	109.87	309.2	18 44	777	25 0	3				21 23 PP
SCORESBY SD.	110.76	349.6	18 28	2						29 36 PKKP
ROME	111.36	313.6	18 9	-18						21 44 PP
MUNSTER	111.37	324.9	18 26	-1						
HUNGRY HORSE	111.44	39.2	18 31	3						19 8 PP
STUTTGART	111.51	321.3	18 29	1	25 26	23				19 14 PP
WITTEVEEN	111.57	326.0								19 3 PP
TUBINGEN	111.73	321.1	18 27	-1						
PRATO	111.82	315.9	19 26	58						19 26 PP
EBINGEN	111.91	320.8	18 27	-1						
BENSBERG	112.01	324.1	19 3	34						
PASADENA	112.05	54.8	19 32	63					19 50	32 45 PS
STRASBOURG	112.52	321.5	18 21	-9						22 3 PP
EUREKA	112.64	48.8	18 32	2						19 16
DE BILT	112.70	325.7								29 3 PS
BUTTE	113.15	41.2	14 40	777						
UCCLE	113.71	324.7	14 47	777	25 17	5				
DOURBES	113.85	323.9	18 32	0						19 36 PP
BOZEMAN	114.27	41.2	18 38	5						29 20 PKKP
BOULDER CITY	114.35	52.2	18 34	1						
DURHAM	115.01	330.4	18 44K	10						19 36 PP
SALT LAKE C.	115.32	46.5	18 38	3						
PARIS	115.65	323.2	18 37	1	25 12	-7				
KEW	116.03	326.8	18 41	4	26 52	91				19 46 PP
CLERMONT-FD.	116.52	320.0								19 48 PP
FOLINIERE	117.42	324.2	18 41	2						
RATHFARNHAM	118.14	330.7	19 3	22						27 3
SETIF	118.22	309.2	18 43	2						19 58 PP





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MUNDARING	65.97	241.7	10 48	-3				
BYRD STATION	68.38	171.4	11 1	-5				
MATUSIRO	69.79	319.5	11 14A	0	20 29	6	25 58	SS
WILKES	70.31	204.7	11 39	21	20 26	-4	21 12	
LICK	71.41	40.8	11 19A	-5				
FRESNO	72.24	42.2	11 30	1				
RENO	73.89	39.9	11 40K	1				
BOULDER CITY	75.10	45.2	11 48	2				
TUCSON	76.04	50.3	11 51	0				
TUCSON TELE.	76.17	50.3	11 52	0				
EUREKA	76.27	41.7	11 53	0				
VICTORIA	77.58	31.0	12 0	0				
LEMBANG	78.35	266.2	12 2A	-2	22 2	3		
ZO-SE	78.85	306.9	12 7A	0	22 12	7		
NANKING	81.11	306.9	12 20	1	22 41	13		
BUTTE	81.96	37.6	12 23	0				
CHANGCHUN	82.04	319.8	12 24	0	22 46	8		
CANTON	82.09	296.6	12 26A	2	22 50	11		
HUNGRY HORSE	82.41	35.1	12 23	-3				
BOZEMAN	82.67	38.4	12 25	-2				
COLLEGE	82.69	10.4	12 25	-2	22 47	2	24 43	
LARAMIE	84.02	44.2	12 35	1				
PEKING	86.34	313.2	12 46A	0	23 32	11	23 15	SKS
SANTA LUCIA	91.02	125.1	13 12	4	24 8	4	16 44	PP
KUNMING	91.91	295.4	13 14A	2	24 26	14	23 51	SKS
CHENG TU	92.42	301.0	13 18	4	24 28	12	23 52	SKS
ST. LOUIS 1	93.97	51.1			23 59	-31	24 37	SCS
LANCHOW	94.12	306.2	13 24	2	24 42	11		
LA PAZ	98.87	109.9			24 25	3		
BOGOTA	99.45	87.9			24 26	1	17 46	PP
PALISADES	106.73	51.4			25 1	2	26 21	SKKS
BERMUDA	113.30	61.2			25 29	3	26 37	SKKS
QUETTA	123.93	295.9	19 2	1				
UPPSALA	135.46	352.6	19 20	-3				
SHIRAZ	136.45	296.4	19 41	17				
DURHAM	140.57	8.2	19 25	-7			22 43	PP
RATHFARNHAM	141.14	13.1					25 15	
BROKEN HILL	143.37	215.7	19 34	-3				
HALLE	144.28	355.1	19 38	0				
COLLMBERG	144.38	353.9	19 34	-4			22 48	PP
KRAKOW	144.43	346.1	19 37	-2			20 6	
RACIBORZ	144.78	347.9	19 41	2			20 24	
JENA	144.87	355.4	19 39	0			22 50	PP
BENSBERG	145.00	0.2	19 39	-1				
UCCLE	145.08	3.4	19 39	-1			22 59	PP
SKALNATE PL.	145.16	345.2	19 39	-1				
PLAUNEN	145.26	354.6	19 37	-3				
CHEB	145.65	354.3	19 42	1				
DOURBES	145.79	3.2	19 42	1			21 45	
HEIDELBERG	146.55	358.4	19 46	4			20 28	
FOLINIERE	146.57	9.5	19 45	3				
BRATISLAVA	146.82	348.1	19 47	4				
PARIS	146.91	5.9	19 45	2				
STUTTGART	147.16	357.7	19 45	2				
STRASBOURG	147.38	359.5	19 45	1				
TUBINGEN	147.41	357.9	19 46	2				
EBINGEN	147.76	358.0	19 48	4				
RAVENSBURG	148.13	357.1	19 49	4				
BESANCON	148.70	1.8	19 58	12				
KSARA	148.73	310.1	19 45	-1			23 28	PP
BELGRADE	149.11	341.7	19 53A	7			20 10	
LJUBLJANA	149.33	350.2	19 51A	4			20 19	
TRIESTE	149.84	351.1	19 54	7			20 11	PKP2
JERUSALEM	150.14	307.0	19 55A	7			20 2	PKP2
LWIRO	152.21	231.5	19 59A	8				
MONACO	152.24	359.9	20 20	29				
HELWAN	153.98	306.5	20 4K	10			21 1	
TOLEDO	154.08	20.4	20 12	18				
ALGIERS UNI.	158.84	9.7	20 2	2			20 32	
SETIF	159.68	4.6	20 8	7				
TAMANRASSET	172.91	14.1	20 11	0			25 42	PP

FEBRUARY 11 4.H 27.M 42.S EPICENTRE -14.10 170.07 DEPTH= 641.KM

A=-0.95575 B= 0.16727 C=-0.24199 D= 0.1724 E= 0.9850

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PAGE 118

G= 0.2384 H=-0.0417 K=-0.9703 HT= 5.9

DEPTH OF FOCUS= 0.096R

SE= 0.93

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PORT VILA	3.99	204.8	1	43	14							
KOUMAC	8.48	219.9	2	5	0	3	57	12				
NOUMEA	8.86	202.3	2	9	0	3	58	6				
BRISBANE	20.86	227.9	4	1	0	7	14	-1				
PORT MORESBY	22.92	279.2	4	20	0	7	51	4				
CHARTERS TS.	23.52	252.0	4	25	0	7	59	2				
KARAPIRO	24.23	169.4	4	31	0							
TONGARIRO	25.47	170.1	4	42	0							
RIVERVIEW	26.09	217.9	4	48A	1	8	38	1			6	46 *SP
COBB RIVER	26.98	175.6	4	57	2							
WELLINGTON	27.39	172.3	4	57	-2							
GEBBIES PASS	29.59	176.2	5	16	-1							
MUNDARING	52.13	240.4	8	15	0							
MATUSIRO	58.65	330.1	8	58A	-2						9	39
LEMBANG	61.69	269.8	9	20K	1							
BYRD STATION	72.84	170.1	10	26	-1							
SHASTA	82.84	45.1	11	20K	0							
PASADENA	83.30	52.5	11	23	1							
RENO	84.16	47.0	11	27K	1							
COLLEGE	84.92	16.7	11	28	-2				13	8	20	53 SCS
SHILLONG	85.68	297.5	11	34	0							
EUREKA	86.89	48.2	11	40	1							
TUCSON	88.45	56.3	11	48	1							
TUCSON TELE.	88.57	56.3	11	48	1							
HUNGRY HORSE	91.29	40.3	11	59	-1							
SODANKYLA	121.65	344.3	17	42	0							
KIRUNA	122.80	346.8	17	45	0							
NURMIJARVI	127.27	339.3	17	55	2							
HELSINKI	127.41	338.9	17	56	3							
TRINIDAD	129.68	87.8									20	27 PP
UPPSALA	130.03	342.2									20	27 PP
GOTEBORG	133.43	344.0									20	37 PP
COLLMBERG	138.54	338.3	18	18	4						20	55 *SPKP
BASLE	143.61	339.9	18	25K	1							
PARIS	143.90	346.0	18	25	1							
NEUCHATEL	144.29	340.1	18	27	2							
FOLINIERE	144.56	349.2	18	26	1							
SETIF	154.05	330.7	18	41	2						19	7 PKP2
TAMANRASSET	163.00	302.8	18	51	1						19	47 PKP2

FEBRUARY 11 12.H 54.M 2.S EPICENTRE -34.04 -70.50 DEPTH= 103.KM

A= 0.27717 B=-0.78277 C=-0.55717 D=-0.9426 E=-0.3338  
G=-0.1860 H= 0.5252 K=-0.8304 HT= 0.5

DEPTH OF FOCUS= 0.011R

SE= 2.19

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
SANTA LUCIA	0.61	349.0	0	19K	0							
BUENOS AIRES	9.96	96.6	2	20	-2	4	19	7				
LA PAZ	17.60	7.5	4	2K	2	7	21	11			4	22 PP
HUANCAYO	22.33	347.5	4	54K	4	8	3	-41				
BOGOTA	38.60	354.3				13	40	37				
CHINCHINA	39.10	351.9	7	20A	1	13	45	34				
FUQUENE	39.41	354.9	7	23	1						7	53
CARACAS	44.42	5.0	7	20A	-43						17	8 SS
ST. VINCENT	47.76	12.2	8	28	-1							
FORT FRANCE	49.31	12.0	8	40	-1							
BYRD STATION	49.94	189.9	8	45	-1							
ANTIGUA	51.56	10.6	8	55	-3							
ST. KITTS	51.63	9.5	8	56	-2						9	18
SAN JUAN	52.29	5.3	9	1	-2				9	27		
SOUTH POLE	56.14	180.0	9	30	-2						10	29 PCP
TACUBAYA	59.76	328.4	9	59	2						15	37
MBOUR	70.07	56.0	11	4	1	20	58	54				
LITTLE ROCK	71.45	341.1	11	10	-2				11	40		
WASHINGTON	72.83	354.6	11	19	-1				11	49		

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1960		PAGE 119										
FAYETTEVILLE	73.19	340.1	11	10K	-12						11	49
MORGANTOWN	73.81	352.4	11	25A	-1						11	55
ST. LOUIS I	74.59	344.1	11	28	-2	20	55	-1			11	58
FLORISSANT	74.78	344.0	11	30	-1	20	57	-1				
WINDHOEK	75.83	107.7	11	39	2						11	59
TUCSON	76.08	325.6	11	38	0						12	9
TUCSON TELE.	76.11	325.7	11	38	0						12	8
LAWRENCE	76.18	340.4	11	37	-2						14	31
GRAHAMSTOWN	77.35	121.6	11	32	-13						12	8
KIMBERLEY	78.49	116.8	11	52	0							
HALIFAX	78.54	5.0	11	52K	0							
OTTAWA	79.21	356.3	11	55K	-1							
BREBEUF	79.22	357.8	11	56A	0	21	34	-12				
SHAWINIGAN	80.24	358.4	12	1K	0							
SEVEN FALLS	80.79	359.8	12	4K	0							
BOULDER CITY	81.03	325.0	12	6	1						12	36
PASADENA	81.23	321.7	12	7	1						12	36
LARAMIE	81.63	334.0	12	9	1						12	40
RAPID CITY	83.26	336.9	12	16	-1						12	46
SALT LAKE C.	83.63	329.7	12	18	-1						12	48
FRESNO	84.10	322.3	12	21	0							
EUREKA	84.38	326.3	12	23	1						12	54
CHATEAU	84.91	225.5	12	25A	0							
TONGARIRO	84.92	225.5	12	25	0							
COBB RIVER	85.30	222.6	12	27	0							
LICK	85.48	321.5	12	30A	2						12	59
KARAPIRO	85.73	226.4	12	28	-1							
BULAWAYO	86.15	111.6	12	33A	2						12	56
BERKELEY	86.21	321.5	12	32	1						13	2
RENO	86.25	324.0	12	33K	1						13	3
BOZEMAN	87.41	332.9	12	37	0						13	6
BUTTE	88.28	332.2	12	41	0						13	11
SHASTA	88.41	323.2	12	40K	-2							
BROKEN HILL	89.27	106.9	12	50	4						13	11
HUNGRY HORSE	90.77	332.6	12	53	0						13	22
TAMANRASSET	91.68	63.6	12	59	2	23	58	11			13	21
BANGUI	91.69	85.9				23	44	-3				
LWIRO	96.45	97.1									17	16
COLLEGE	115.21	332.6	18	27	-3						19	5
SODANKYLA	123.62	27.5	18	47	1							
PORT MORESBY	123.94	226.6									23	48
SHIRAZ	131.92	78.8	19	3A	1						22	27
TIKSI	140.97	350.4	19	10	-9							
QUETTA	143.94	84.2	19	25	1					19	50	22
WARSAK DAM	148.66	79.2	19	37	5							
YAKUTSK	149.18	341.4	19	38	6							
LAHORE	150.42	84.9	19	41	7							
MATUSIRO	156.47	284.3	20	13A	30							
SHILLONG	162.54	114.2	19	42K	-8							

FEBRUARY 11 20.H 56.M 9.S EPICENTRE -11.61 166.36 DEPTH= 0.KM

A=-0.95217 B= 0.23106 C=-0.19995 D= 0.2358 E= 0.9718  
G= 0.1943 H=-0.0472 K=-0.9798 HT= 6.3

SE= 2.09

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
PORT VILA	6.37	162.9	1	58	20	3	1	9				
NOUMEA	10.63	179.5	2	39	2	4	50	12				
RABAUL	15.86	296.5	3	51	4	6	46	2				
PORT MORESBY	19.02	274.8	4	29K	3	8	4	8				
BRISBANE	20.22	217.2	4	40	0	8	21	-1				
CHARTERS TS.	21.08	243.9	4	49	0	8	38	-1				
AFIAMALU	21.44	98.5	4	56K	4	9	2	16				
RIVERVIEW	26.12	209.7	5	38A	0	10	7	-1			5	55
KARAPIRO	27.47	164.1	5	50	0							
CANBERRA	28.38	210.9	5	59A	1	10	41	-4			6	59
CHATEAU	28.66	165.0	6	0	-1						6	15
TUAI	28.73	162.3	5	59	-3							
WELLINGTON	30.46	167.4									7	41
MELBOURNE	32.38	212.6	6	34A	0							
GEBBIES PASS	32.43	171.5	6	32	-2							
ROXBURGH	33.85	176.3									12	13
ADELAIDE	34.22	222.7	6	50	0						7	43

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1960										PAGE 120
MUNDARING	50.28	238.0	8 59A	-2	16	6	-7			
PERTH	50.60	238.1	9 5	2						
MANILA	51.91	299.1	9 12	-1						11 25
MATUSIRO	54.74	332.3	9 32K	-2	17	8	-6			13 1
LEMBANG	58.10	269.1	9 56A	-2	17	58	0			
ZO-SE	60.68	315.7	10 14A	-2	18	29	-3			
HONG KONG	61.26	303.4	10 19A	-1	18	35	-4			
CANTON	62.31	303.8	10 28A	1	18	55	3			
NANKING	62.90	315.2	10 30A	-1	18	58	-2			
WUHAN	65.05	311.6	10 45A	0						
CHANGCHUN	66.62	328.8	10 54A	-1						
MEDAN	68.96	278.4	11 9K	-1						12 21
PEKING	69.29	320.9	11 11A	-1	20	15	-3			
SIAN	71.05	312.4	11 22A	0						
KUNMING	71.93	301.3	11 28A	0	20	49	1			
MAGADAN	72.02	351.7	11 26	-2						
CHENG TU	73.12	307.1	11 35A	0	20	59	-3			
LANCHOW	75.57	312.1	11 50A	1	21	29	0			
BYRD STATION	75.90	170.0	11 48	-3						
SOUTH POLE	78.47	180.0	11 52	-13						12 47
YAKUTSK	78.79	343.3	12 4	-3						
ULAN-BATOR	79.23	323.9	12 9	0						
SHILLONG	81.33	298.3	12 13A	-7						
BERKELEY	82.80	49.1	12 30	2						
IRKUTSK	82.84	326.8	12 27	-1						
LHASA	83.24	302.0	12 32A	2	22	51	1			
COLLEGE	83.64	17.9	12 29	-3						13 6
SHASTA	83.71	46.4	12 35A	3						
FRESNO	84.27	50.8	12 36	1						
CORVALLIS	84.51	42.5	12 33	-4						
PASADENA	84.71	53.7	12 39	1	23	3	-2			24 33
RENO	85.17	48.2	12 56	16						
CHATRA	85.73	298.3	12 44	1	23	4	-11			
TIKSI	86.74	348.9	12 46	-2						
BOULDER CITY	87.86	52.8	12 53	0						
EUREKA	87.98	49.2	12 53	-1						
TUCSON	90.13	57.2	13 7	3						13 31
TUCSON TELE.	90.24	57.1	13 7	3						
SALT LAKE C.	91.36	48.8	13 9	0						
HUNGRY HORSE	91.78	41.0	13 12	1						
BUTTE	92.15	43.5	13 14	1						
BOZEMAN	93.09	44.1	13 17	0						
DEHRA DUN	94.33	299.9	13 28	5						
POONA	95.96	287.6	13 31	0						
LAHORE	97.69	300.6	13 37	-1						
WARSAK DAM	100.34	302.7	13 48	-2						
QUETTA	103.81	298.4	14 6	0						
ST. LOUIS 1	107.60	53.1			26	53	111			
SHIRAZ	116.30	297.4								18 16
PALISADES	119.90	49.3								20 17 PP
NURMI JARVI	123.66	338.4	19 1	1						
HELSINKI	123.78	338.0	19 4	3						
BULAWAYO	127.81	233.1	19 9A	1						
KSARA	129.82	304.5	19 9	-3						21 26 PP
JERUSALEM	130.83	302.0	19 14A	0						21 32 PP
BROKEN HILL	130.89	239.2	19 16	2						
HELWAN	134.52	300.6	19 23	2						21 55 PP
LWIRO	135.62	254.6	19 17	-6						22 54
BANGUI	147.28	260.0								20 7
SETIF	150.08	328.1	19 53	5						20 16 PKP2
TOLEDO	150.59	344.9	19 53	4						
ALGIERS UNI.	150.78	331.8	19 50	1						
TAMARRASSET	158.62	303.8	20 0A	0						24 17 PP
MBOUR	175.74	49.3	20 13	1						

FEBRUARY 13 15.H 41.M 8.S EPICENTRE 1.15 127.32 DEPTH= 0.KM

A=-0.60618 B= 0.79508 C= 0.01996 D= 0.7952 E= 0.6063  
G=-0.0121 H= 0.0159 K=-0.9998 HT= 7.2

SE= 2.86

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MANILA	14.78	335.6	3	40	8	6	18	1				
BAGUIO CITY	16.56	336.7	4	0	5	6	56	-3				

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1960										PAGE 121	
GUAM	21.14	53.9	4 53	5	8 39	-1					
LEMBANG	21.20	247.8	4 52K	3	8 42	1					
HENGCHUN	21.69	343.3			8 46	-5					
DJAKARTA	21.72	250.2	4 56A	2	8 51	1					
TAITUNG	22.29	344.8	5 1	1	8 54	-7					
PORT MORESBY	22.36	118.4	5 3	2	9 0	-2					
HWALIEN	23.35	346.7	5 25	15	8 59	-21					
TAICHUNG	23.75	344.8			9 1	-26					
ILAN	24.09	347.5	5 31	13	9 25	-8					
TAIPEI	24.39	347.2	5 28	8	9 43	5					
HONG KONG	24.61	329.6	5 24	1	9 32	-10					
RABAU	25.39	102.2	5 32	2					6 3		
CANTON	25.69	329.1	5 33K	0	9 48	-12					
CHARTERS TS.	28.11	139.7	5 57	2	10 25	-15					
MEDAN	28.72	275.3	6 1A	1	11 43	54					
ZO-SE	30.35	349.5	6 16	1	11 3	-12			6 53	*SP	
WUHAN	31.63	338.7	6 28K	2	11 25	-10			7 4	*SP	
NANKING	31.78	346.1	6 28	0	11 26	-12			7 5	*SP	
KUNMING	33.63	317.1	6 45K	1	11 56	-11					
MUNDARING	34.58	196.8	6 52	0	12 10	-11					
PORT BLAIR	35.89	288.4	7 7	4	13 3	21			8 24		
MATUSIRO	36.63	14.8	7 6	-3					9 17		
CHENG TU	36.74	325.2	7 11K	1	12 42	-13			8 39	PP	
TUKUBASAN	36.85	17.4	7 9	-2							
SIAN	37.15	334.3	7 12K	-2	12 49	-12					
BRISBANE	37.48	141.1	7 18	1	12 55	-11					
ADELAIDE	37.48	164.5	7 18A	1	12 56	-10			18 46	PP	
CHITTAGONG	40.45	304.0	7 43K	2	13 57	6			9 20	PP	
LANCHOW	41.00	330.5	7 47K	1	13 48	-11			8 23	*SP	
RIVERVIEW	41.39	149.4	7 50A	1	13 56	-9	8 25		9 29	PP	
CANBERRA	41.56	152.9	7 52A	2							
SHILLONG	41.91	308.4	7 52K	-1	13 59	-13					
VLADIVOSTOK	41.98	5.0	8 25	31							
MELBOURNE	42.08	159.0	7 57A	2					9 35	PP	
KOLMAC	42.12	122.9	7 56	1	14 12	-4					
PAOTOW	42.27	340.3	7 55K	-1	14 3	-15					
CHANGCHUN	42.53	357.8	7 58	0							
CALCUTTA	43.41	302.2	8 13	7	14 25	-9					
LHASA	44.65	312.9	8 17K	1	14 40	-12					
NOUMEA	44.70	123.8	8 17	1	15 8	15					
BOKARO	46.09	302.6	8 25K	-2	14 57	-16			10 17		
CHATRA	46.23	307.1	8 26	-2	15 1	-14					
Y.-SAKHLINSK	47.62	14.2	8 38	-1							
COLOMBO	47.65	278.2			15 20	-16					
MADRAS	48.14	286.4	8 42K	-1	15 30	-12			10 30	PP	
ULAN-BATOR	49.83	342.1	8 55	-1	15 52	-14					
HYDERABAD	50.67	291.6	9 0K	-3	16 3	-14			19 45	SS	
IRKUTSK	54.46	342.8	8 30	-61							
DEHRA DUN	54.96	306.8	9 34	-1	17 2	-14					
POONA	55.18	291.8	9 34	-2	17 6	-13					
BOMBAY	56.22	292.0	9 41	-3	17 16	-17			11 48	PP	
COBB RIVER	58.83	141.0	10 1	-1					11 54		
KAIMATA	58.84	143.0	10 3	1					12 31		
KARAPIRO	59.03	136.6	10 2A	-2					10 59		
TONGARIRO	59.66	137.8	10 7	-1					10 57		
WELLINGTON	60.23	140.2	10 9	-3					11 43		
GEBBIES PASS	60.26	143.6	10 11	-1					12 41		
TUAI	60.56	136.7	10 13	-1					11 23		
MAGADAN	61.04	13.4	10 36	19							
WARSAK DAM	61.42	308.5	10 18K	-2	18 28	-12					
KARACHI	62.70	297.4	10 28K	0	18 45	-11			12 44	PP	
QUETTA	64.03	303.1	10 35K	-2	18 59	-14			12 54	PP	
TIKSI	70.38	0.5	11 13	-4					22 11		
HONOLULU	75.22	68.4	11 46	0							
SHIRAZ	76.23	300.1	11 21	-31					11 49		
TANANARIVE	80.70	250.7	12 16A	0					13 1		
MAKHACH-KALA	81.77	313.1	12 18	-4	22 17	-17					
GORIS	82.31	309.5	12 22	-2	22 26	-14					
TIFLIS	83.65	311.7	12 30	-1	22 36	-17					
KHEYS	85.54	351.1	12 38	-3					13 23		
COLLEGE	86.77	25.2	12 43	-4					16 37	PP	
MOSCOW	88.88	325.5	12 20	-37	23 8	-36					
APATITY	90.44	337.5	13 1	-3	23 19	-39	13 45		24 49	*SS	
KSARA	90.57	303.7	13 14	9	23 51	-8			16 41	PP	
SOUTH POLE	91.14	180.0	13 6	-2					14 56		
JERUSALEM	91.19	301.6	13 5	-3					16 46	PP	
SIMFEROPOL	91.47	314.8			23 25	-42			16 55	PP	
SODANKYLA	93.06	337.6	13 12	-4							



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1960					PAGE 122		
BYRD STATION	95.06	170.7	13 25	-1			17 10 PP
HELSINKI	95.14	330.6	14 3	37			
NURMI JARVI	95.23	331.0	14 2	36	23 44	-18	17 16 PP
KIRUNA	95.27	338.6	13 23	-3			13 55
LWIRO	98.56	267.9					17 38 PP
UPPSALA	98.79	331.3	14 16	34			
BROKEN HILL	98.86	255.6	13 38	-5			
RESOLUTE	100.23	10.5	13 45	-4	24 2	-26	
PRUHONICE	103.57	322.2					18 22 PP
COLLMBERG	104.06	323.9	18 3	777			18 24
HALLE	104.61	324.3					18 34
PLAUEN	104.84	323.3					18 29 PP
JENA	105.03	323.8	18 19	777			19 23
STUTT GART	107.22	322.3					18 31 PP
HUNGRY HORSE	107.75	37.9	17 57	777			
BANGUI	108.55	275.0			25 13	7	19 15 PP
EUREKA	109.58	47.2	18 32	777			19 35 PP
SETIF	114.57	311.0					19 54 PP
RAPID CITY	116.38	38.4	19 28	43			20 34 PP
TAMANRASSET	118.59	296.7	18 48	-2	25 32	-13	20 0 PP
LAWRENCE	124.16	39.6	18 59	-1			
FAYETTEVILLE	126.49	41.9	19 3	-2			
BREBEUF	129.98	19.2					22 18
MBOUR	141.43	294.9					22 56 PP
SANTA LUCIA	143.73	154.2	19 36	0			
HUANCAYO	155.06	116.7	20 6A	12			20 23 PKP2
SAN JUAN	156.52	33.6	20 24	28			
LA PAZ	158.45	135.9	19 59A	0			20 9 PKP2

FEBRUARY 13 20.H 40.M 12.S EPICENTRE -17.21 -69.34 DEPTH= 179.KM

A= 0.33715 B=-0.89437 C=-0.29398 D=-0.9357 E=-0.3527  
G=-0.1037 H= 0.2751 K=-0.9558 HT= 5.3

DEPTH OF FOCUS= 0.023R

SE= 1.65

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
LA PAZ	1.36	59.1	0	32K	1	0	58	3			1	24
HUANCAYO	7.73	310.7	1	49K	-1	2	59	-18				
SANTA LUCIA	16.21	183.9	3	37K	-2	6	38	6			7	8 SS
CARACAS	27.63	5.1	5	35K	2	10	5	5				
SAN JUAN	35.50	5.3	6	38	-3				7	19		
COMITAN	40.12	324.7									19	50
TACUBAYA	46.73	319.8	8	19	6							
ARGENTINE I.	48.13	177.1	8	23	0							
BERMUDA	49.50	5.2									15	20
LITTLE ROCK	56.13	337.2	9	22	-1							
FAYETTEVILLE	57.99	336.3	9	34K	-2							
PALISADES	58.07	355.9				17	21	0			22	1 SS
ST. LOUIS I	58.90	341.0	9	40	-2	17	30	-2				
MBOUR	60.47	61.9	10	5	12							
LAWRENCE	60.92	337.1	8	54	-62							
HALIFAX	61.75	4.7	9	59A	-2							
BREBEUF	62.52	356.6	10	5A	-2						10	46 PCP
OTTAWA	62.57	354.9	10	5	-2							
TUCSON TELE.	63.21	321.2	10	11	0				10	53		
TUCSON	63.22	321.0	10	11	0				10	53		
SHAWINIGAN	63.53	357.4	10	12	-1							
BYRD STATION	66.66	188.4	10	34	1				11	12		
LARAMIE	67.20	331.1	10	37	0							
BOULDER CITY	68.19	321.5	10	43	0				11	25		
RAPID CITY	68.39	334.4	10	44	0							
PASADENA	69.05	318.1	10	49	1				11	31		
EUREKA	71.22	323.5	11	3	2				11	45		
SOUTH POLE	72.90	180.0	11	11	0				11	46		
BOZEMAN	73.10	330.8	11	13	1							
LICK	73.24	318.8	11	14A	1				11	56		
RENO	73.50	321.5	11	16	1							
BERKELEY	73.95	318.9	11	18	1				12	1		
BUTTE	74.07	330.2	11	18	0							
MINERAL	75.07	321.3	11	5A	-19							
SHASTA	75.76	321.2	11	27	0							
HUNGRY HORSE	76.45	331.1	11	32	1							
CORVALLIS	78.68	323.9	11	45A	2							

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1960					PAGE 123				
BANFF	79.16	332.4	11 43	-3					
WINDHOEK	80.39	110.7	11 54	1					
VICTORIA	81.18	327.0	11 57	0					
TOLEDO	83.13	44.8	12 7	0				12 47	
TAMANRASSET	83.27	63.8	12 9	1	22 19	8	12 53	13 9	*SP
RELIZANE	84.48	50.1	12 14	0			13 1	13 51	*SP
KIMBERLEY	85.39	118.5	13 2A	44					
ALGIERS UNI.	86.74	50.1	12 25	0			13 8		
SETIF	88.25	51.3	12 32	0					
FOLINIERE	89.57	38.1	12 38	0					
BROKEN HILL	93.04	106.0	12 52	-2					
RESOLUTE	93.10	353.4	12 54	0	23 47	5			
THULE	93.43	0.2	12 56	0					
CHARTERS TS.	129.05	224.8	18 49	2				19 33	
QUETTA	138.19	63.8	19 8	4					
POONA	144.98	82.1	19 17	1					
MATUSIRO	148.95	313.8	19 27	5				20 13	
SHILLONG	160.64	61.3	20 23	45					

FEBRUARY 15 7.H 36.M 11.S EPICENTRE 11.99 -86.88 DEPTH= 0.KM

A= 0.05320 B=-0.97702 C= 0.20642 D=-0.9985 E=-0.0544  
G= 0.01'2 H=-0.2061 K=-0.9785 HT= 6.3

SE= 3.05

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
COMITAN	6.62	310.4	1	55	14						3	19
MERIDA	9.29	343.9				3	58	-7			5	16 SG
CHINCHINA	13.14	121.1	3	13	2							
TACUBAYA	13.95	303.4	3	21	-1	6	0	2				
FUQUENE	14.52	115.4	3	27	-2						3	37 PPP
BOGOTA	14.64	119.0	3	34	4	6	6	-9			6	33 SS
CARACAS	19.63	92.3	4	28K	-5	8	7	-2				
SAN JUAN	21.01	69.9	4	48	0							
COLUMBIA	22.55	12.8	5	7	4							
LITTLE ROCK	23.22	348.5	5	10	0	8	56	-23				
CHAPEL HILL	24.85	15.3	5	30	4							
FAYETTEVILLE	24.88	345.8	5	30A	4							
HUANCAYO	26.50	153.9	5	36	-5	10	13	-1				
ST. LOUIS I	26.71	354.2	5	42K	-1						11	26 SS
LAWRENCE	27.88	346.0	5	52	-2							
MORGANTOWN	28.20	11.4	5	59K	2							
TUCSON TELE.	29.83	316.5	6	12	1						9	12 PCP
TUCSON	29.85	316.3	6	11	0						9	14 PCP
LARAMIE	33.49	334.0	6	43	0							
LA PAZ	33.84	146.4	6	53	7	12	9	-2				
OTTAWA	34.63	13.9	6	53A	0							
RAPID CITY	34.93	339.3	6	56	0							
BREBEUF	35.26	16.2	6	59K	0							
PASADENA	36.02	312.9	7	6	1						9	1
SHAWINIGAN	36.46	16.5	6	59	-10							
SEVEN FALLS	37.54	18.1	7	17	-1							
EUREKA	37.58	321.9	7	18	0							
FRESNO	38.50	315.5	7	27	1							
BOZEMAN	39.36	333.1	7	34	1							
RENO	40.01	319.2	7	40	2							
LICK	40.06	315.1	7	39K	0							
BUTTE	40.32	332.2	7	38	-3							
BERKELEY	40.75	315.4	7	46	1						14	5
SHASTA	42.30	319.0	7	56	-1							
RESOLUTE	62.83	357.6	10	25A	-5							
THULE	65.18	4.8	10	43	-2							
COLLEGE	67.07	336.1	10	55	-2							
QUETTA	131.09	30.4	19	14	0						22	48 PKS
SHILLONG	142.65	1.9	19	26	-9							
CHITTAGONG	145.84	2.1	19	41	0						23	13 PKS
MUNDARING	150.90	223.3	19	49	0							

FEBRUARY 16 13.H 14.M 32.S EPICENTRE 21.84 -45.58 DEPTH= 0.KM

A= 0.65032 B=-0.66356 C= 0.36982 D=-0.7142 E=-0.6999

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1960

PAGE 124

G= 0.2589 H=-0.2641 K=-0.9291 HT= 4.2

SE= 2.63

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
SAN JUAN	19.59	263.6	4	31	-1							
CARACAS	23.37	244.5	5	7	-4	9	32	12				
MBOUR	28.15	100.4	5	56	1	10	42	2				
SEVEN FALLS	32.43	327.1	6	34	1							
BREBEUF	32.90	322.5	6	39A	2							
SHAWINIGAN	33.07	324.7	6	39	0							
GRANADA	39.27	57.6				13	8	-25				
ST. LOUIS 1	41.62	304.0	7	53	2							
LITTLE ROCK	42.79	298.0	8	2	1							
LA PAZ	44.05	212.0	8	11	0	14	59	15				
FAYETTEVILLE	44.40	299.7	8	14	0							
LAWRENCE	45.54	303.6	8	24	1							
SETIF	46.32	60.3	8	31	2							
TAMANRASSET	47.09	78.7	8	34A	-1	15	30	3			10	5
STUTTGART	50.87	44.2	9	1	-3						10	2
RAPID CITY	52.05	309.5	9	13	0							
LARAMIE	53.62	305.9	9	25	0							
LJUBLJANA	53.99	48.3	9	33	6						10	2
THULE	55.82	353.7	9	41	0							
BRATISLAVA	55.93	45.9	9	40	-2							
BOZEMAN	57.72	311.0	9	54	0							
TUCSON TELE.	58.16	295.3	9	58	0						10	45
TUCSON	58.27	295.2	9	59	1							
HUNGRY HORSE	59.79	314.1	10	8	-1							
NORD	60.96	4.7	10	15	-2							
EUREKA	61.61	304.0	10	22	1							
SODANKYLA	63.20	24.4	10	25	-7							
PASADENA	64.08	298.4	10	38	0							
HELWAN	68.53	65.4	11	3	-3							
COLLEGE	75.51	334.5	11	46	-1							
LWIRO	76.37	98.0	12	1K	9							
KIMBERLEY	84.42	123.8	12	32	-3							
SHIRAZ	86.10	59.7	12	45	1							
MATUSIRO	121.83	356.4				25	13	-43			27	15

FEBRUARY 17 12.H 32.M 12.S EPICENTRE -29.85-111.90 DEPTH= 0.KM

A=-0.32411 B=-0.80607 C=-0.49518 D=-0.9273 E= 0.3731  
G= 0.1847 H= 0.4594 K=-0.8688 HT= 1.9

SE= 2.35

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
HUANCAYO	38.26	70.3	7	27	3	13	27	9				
LA PAZ	42.13	81.6	7	58A	2	14	25	9			9	48 PP
PORT STANLEY	45.16	134.7	8	21	1							
CHINCHINA	49.07	51.3	8	50	-1	16	5	9				
BOGOTA	49.88	53.1	8	58K	1	16	21	14			10	58 PP
TACUBAYA	50.47	15.6	8	55K	-7	16	8	-7			11	1 PP
FUQUENE	50.73	52.6	9	6	2						10	59 PP
VERA CRUZ	51.08	19.3	9	7	1	16	20	-4				
CARACAS	59.02	54.2	9	59K	-5	18	8	-2				
TONGARIRO	59.07	239.8	10	5	0						11	13
KARAPIRO	59.40	241.2	10	7	0							
SOUTH POLE	60.32	180.0	10	11	-2						10	38
TUCSON	61.77	1.0	10	23	0	18	54	9				
TUCSON TELE.	61.86	1.1	10	23	-1							
ROXBURGH	61.91	231.5				18	54	7			23	0
PASADENA	63.93	354.2	10	37	0	19	22	9			23	42 SS
SAN JUAN	65.16	48.6	10	42	-3							
BOULDER CITY	65.54	357.4	10	48	0							
FRESNO	66.68	353.1	10	55	0							
LICK	67.46	351.6	11	0A	0							
FAYETTEVILLE	67.67	15.5	11	0K	-1							
BERKELEY	68.06	351.2	11	4	0	20	11	8			29	12
EUREKA	69.08	356.6	11	10	0						39	28 PKPPKP
RENO	69.42	353.5	11	14	2							
UKIAH	69.43	350.6	11	17	5						11	29
SALT LAKE C.	70.26	0.0	11	17	0							
SHASTA	70.86	351.6	11	21	0							

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1960		PAGE 125									
ST. LOUIS 1	71.07	17.8	11 21K	-1	20 42	4					
NOUMEA	72.32	254.1	11 30	0						11 44	
RAPID CITY	74.00	6.5	11 40	1							
CORVALLIS	74.80	351.6	11 44A	0							
BOZEMAN	75.16	0.6	11 46	0							
MORGANTOWN	75.24	25.0	11 47K	0							
BUTTE	75.51	359.5	11 48	0							
BERMUDA	76.39	39.7	11 51	-2						26 48 SS	
PENNSYLVANIA	77.04	25.8	11 57	0	21 47	2					
FORT NELSON	77.46	227.7			21 57	7					
HUNGRY HORSE	77.86	358.5	12 1	0						15 0 PP	
VICTORIA	78.69	352.2	12 6	0							
PALISADES	78.79	28.4	12 15	9	22 27	23				22 9 SKS	
RIVERVIEW	79.23	237.3	12 5A	-4	22 17	8				15 12 PP	
CANBERRA	80.06	235.1	12 15	2							
BRISBANE	81.08	243.7	12 16	-3	22 29	1					
BREBEUF	82.67	26.1	12 26K	-1							
SHAWINIGAN	83.87	26.0	12 33	0							
SEVEN FALLS	85.09	26.8	12 39	0	23 12	4					
CHARTERS TS.	89.91	246.9	13 4	2	24 4	10					
RABAU	93.06	263.4	13 18	1						13 55	
PORT MORESBY	94.73	256.4	13 27	2	24 52	16				24 10 SKS	
COLLEGE	98.47	345.3	13 40	-2							
MBOUR	101.22	79.8								32 59 SS	
SCORESBY SD.	117.78	22.3			25 43	-16					
TAMANRASSET	124.05	81.4	19 1	0						20 44 PP	
KHEYS	128.96	2.1	19 8	-2							
STUTTGART	131.99	49.6	19 16	0							
HALLE	133.56	45.7	19 19	0							
SODANKYLA	135.12	21.3	19 26	4							
HELSINKI	138.23	30.9	19 32	4							
PEKING	139.73	297.9	19 40	10							
IRKUTSK	145.22	320.5	19 40	0							
SIAN	145.28	288.0	19 41	1							
MOSCOW	146.30	31.1	19 43	1							
ISTANBUL KA.	146.55	59.7	19 43A	1							
HELWAN	148.20	80.6	19 47	2						22 12	
KUNMING	148.98	269.7	19 50	4							
CHENG TU	149.05	280.7	19 43	-3							
SIMFEROPOL	149.35	51.1	19 53	6							
LANCHOW	149.50	291.2	19 54	7							
JERUSALEM	151.76	77.7	19 52	2						23 30 PP	
KSARA	152.41	73.4	19 57	6						23 47 PP	
SOTCHI	153.59	51.0	20 4	11							
CHITTAGONG	157.45	256.3	20 0	2	27 5	3				24 31 PP	
SEMI PALATNSK	157.52	339.4	19 58	0							
TIFLIS	157.77	51.5	20 1	3							
SHILLONG	158.54	264.3	20 1	2							
MAKHACH-KALA	158.95	45.9	20 31	31							
LHASA	160.08	275.1	20 4	3							
SHIRAZ	166.46	87.0	20 8	1						24 13	
POONA	167.57	206.2	20 12	4							
BOMBAY	168.28	202.6								23 41	
DEHRA DUN	171.36	275.6								24 28	
KARACHI	174.91	169.1	20 15	3							
QUETTA	178.95	71.3	20 12	0	27 10	-4				25 51 PP	

FEBRUARY 17 16.H 27.M 46.S EPICENTRE 43.41 146.04 DEPTH= 57.KM

A=-0.60449 B= 0.40714 C= 0.68471 D= 0.5586 E= 0.8294  
G=-0.5679 H= 0.3825 K=-0.7288 HT= -3.0

DEPTH OF FOCUS= 0.004R

SE= 3.61

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
NEMURO	0.34	257.4	0	10K	-2	0	16	-5				
KUSIRO	1.27	251.0	0	21K	-2	0	36	-4				
ABASHIRI	1.42	296.3	0	25	0	0	42	-1				
HIROO	2.29	241.6	0	34	-3	1	1	-3				
ASAHI GAWA	2.69	279.2	0	44	1	1	18	4				
URAKAWA	2.71	243.5	0	42	-1	1	15	0				
TOMAKOMAI	3.36	258.2	0	58	6	1	31	0				
SAPPORO	3.44	266.0	0	54	1	1	32	-1				
MURORAN	3.87	255.5	1	2	3	1	40	-4				

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HAKODATE	4.21	249.5	1	3	-1	1	49	-3	1 42
MORI	4.23	253.9	1	5	1	1	50	-3	
SUTTSU	4.30	263.9	1	8	3	1	58	3	
Y. -SAKHLINSK	4.31	328.2	1	10	5				
HATINOHE	4.42	231.0	1	1	-6	1	47	-11	
AOMORI	4.69	238.3	1	16	5	2	2	-2	
MIYAKO	4.84	220.5	1	4	-9	1	54	-14	
MORIOKA	5.20	226.3	1	13	-5	2	6	-11	
MIZUSAWA	5.65	222.5	1	31	7	2	16	-12	
AKITA	5.78	232.4				2	24	-8	
ISINOMAKI	6.12	217.3	1	23K	-7	2	26	-14	
SENDAI	6.44	218.9	1	43	8	2	34	-14	
YAMAGATA	6.72	221.9				2	42	-13	
HUKUSIMA	7.06	218.7	1	37	-7	2	50	-13	
SHIRAKAWA	7.69	217.3							3 8
UTUNOMIYA	8.32	216.7	2	1	0	3	18	-17	
KAKIOKA	8.46	214.1	1	53	-10	3	17	-21	
TUKUBASAN	8.51	214.5	1	55A	-9	3	23	-16	
MAEBASI	8.81	219.7	3	38	90				
KUMAGAYA	8.87	217.5				3	26	-22	4 3
NAGANO	9.02	224.4	2	34	23				
OIWAKE	9.11	221.7	2	21	9				
TOKYO C.M.O.	9.11	214.3	3	37	85				
MATUJIRO	9.11	223.8	2	6K	-6	3	52	-2	4 12
YOKOHAMA	9.37	213.9				3	46	-14	
KOHU	9.64	219.3				3	53	-14	
HUNATU	9.69	217.8				3	58	-10	
MISIMA	9.93	215.9				3	57	-17	
CHANGCHUN	15.02	278.8	3	18	-13				
PEKING	22.49	271.6	4	56	0				
NANKING	24.24	251.3	5	17	4				
WUHAN	28.07	253.3	5	50	1				
HONG KONG	33.74	241.7	6	36	-3	11	57	0	
CHENG TU	35.52	263.2	7	8	14				
COLLEGE	41.84	35.8	7	46	0				
LHASA	45.51	271.3	8	20	4				
SHILLONG	47.21	266.2	8	27	-2				
CHITTAGONG	49.20	262.8	8	44	-1				
RESOLUTE	55.53	16.4	9	29	-3				
APATITY	58.36	335.4	9	51	-1				
SODANKYLA	60.47	337.2	10	5	-2				10 24
CORVALLIS	61.77	54.2	10	16	1				
KIRUNA	61.81	339.5	10	14	-2				
QUETTA	62.49	286.5	10	18	-2				
MOSCOW	64.25	323.4	10	31	-1				
SHASTA	64.56	57.3	10	34	0				
HUNGRY HORSE	64.77	46.6	10	35	0				
NURMI JARVI	65.97	332.5	10	43	0				11 49
HELSINKI	66.11	332.1	10	43	-1				
RENO	66.84	57.0	10	49	1				
SKALSTUGAN	67.24	339.5	10	52	1				
BOZEMAN	68.04	47.5	10	56	0				
UPPSALA	68.75	334.9	10	59	-1				
EUREKA	69.20	55.1	11	4	1				
TIFLIS	69.66	308.5	11	7	1				
PASADENA	71.24	60.6	11	15	0				
SHIRAZ	72.66	294.5	11	23	-1				11 48
RAPID CITY	73.23	44.7	11	28	1				
KRAKOW	75.73	327.5	11	42	3				11 56 PCP
RACIBORZ	76.37	328.4	11	45	2				
TUCSON	77.10	57.8	11	50	1				
TUCSON TELE.	77.10	57.7	11	50	1				
COLLMBERG	77.25	331.9	11	46A	-4				
HALLE	77.44	332.6	11	51	0				
PRUHONICE	77.81	330.3	11	54A	1				
JENA	78.05	332.5	11	53	-2				
KSARA	80.20	307.5	12	2	-4				
STUTTGART	80.67	332.7	12	9	0				
JERUSALEM	82.05	306.5	12	17	1				
FOLNIERE	83.61	338.5	12	24	0				
FAYETTEVILLE	83.77	45.0	12	24A	-1				28 29 SS
SHAWNI GAN	84.06	25.8	12	26	0				
OTTAWA	84.10	28.1	12	26	0				
BREBEUF	84.71	26.8	12	29A	0				12 43
KARAPIRO	85.27	157.0	12	46	14				

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FEBRUARY 18 21.H 35.M 10.S EPICENTRE 52.59 160.22 DEPTH= 0.KM

A=-0.57413 B= 0.20650 C= 0.79230 D= 0.3384 E= 0.9410  
G=-0.7455 H= 0.2681 K=-0.6101 HT= -6.4

SE= 2.45

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PETROPAVLOVK	1.05	295.1	0	27	6	0	42	5			0	33
SEVERO-KUR.	3.20	234.8	0	53	1	1	31	-1			1	6 *SP
KLYUCHI	3.76	5.5	1	5	5	1	50	4				
MAGADAN	8.74	326.7	2	14	4						4	35
OKHA	10.45	282.2	2	38	4						4	49
KURILSK	10.95	232.7									6	32
UGLEGORSK	12.00	260.2	2	59	4						5	43
Y.-SAKHLINSK	12.59	250.7	3	5	2	5	28	3				
VLADIVOSTOK	21.11	254.7	4	46	-2	8	31	-8				
MATUSIRO	22.30	232.7	5	0A	0	9	2	1				
TIKSI	23.56	335.6	5	13	1	9	23	-1			5	48 PP
CHANGCHUN	24.65	263.2	5	21	-2	9	43	0				
ABUYAMA	24.92	234.5	5	27A	1							
COLLEGE	28.72	44.4	6	0	-1							
PEKING	32.40	265.0	6	31	-2	11	47	0				
ULAN-BATOR	33.75	283.9	6	46	1							
NANKING	36.21	252.1	7	8	2							
WUHAN	39.79	254.6	7	37	1							
KHEYS	40.50	345.7	7	43	1	14	43	52			16	32 SS
SIAN	40.55	263.9	7	42	0							
LANCHOW	42.45	270.2	7	58A	0							
RESOLUTE	43.77	21.8	8	8A	-1	14	36	-4				
CHENGTU	46.02	264.4	8	26	-1							
HONG KONG	46.28	247.3	8	44	15	15	38	22				
SEMI PALATNSK	47.40	301.1	8	35	-3						14	1 PCS
THULE	47.60	13.9	8	37	-2							
ISFJORD	48.02	351.1	8	42	0							
CORVALLIS	48.99	67.0	9	26	36							
KUNMING	50.81	260.5	9	5	1							
HUNGRY HORSE	51.65	58.0	9	8	-2							
SHASTA	51.98	70.4	9	18	5							
SVERDLOVSK	52.70	317.0	9	15	-3							
APATITY	53.76	337.6	9	25	-1							
RENO	54.23	69.8	9	39A	10							
LHASA	54.64	273.9	9	36	4							
LICK	54.66	73.0	9	41K	9							
BOZEMAN	54.95	58.9	9	35	0							
FRUNSE	55.17	296.7	9	35	-1							
SODANKYLA	55.41	340.1	9	37	-1						12	1 PP
FRESNO	56.12	72.3	9	57	14							
KIRUNA	56.21	342.9	9	43	-1							
EUREKA	56.45	67.4	9	45	0							
RABAUL	56.98	189.6	9	48	-1						10	0
SHILLONG	57.08	269.9	9	48A	-2							
SCORESBY SD.	57.23	0.9	9	50	-1							
OULU	57.66	339.1	9	53	-1							
ANDI JAN	57.82	296.2	9	25	-30							
SALT LAKE C.	57.85	63.7	9	54	-1							
PASADENA	58.90	73.4	10	2	-1						10	45
CHATRA	59.03	274.5	10	3	-1							
CHITTAGONG	59.50	267.4	10	8	1							
RAPID CITY	60.08	55.7	10	11	0							
LARAMIE	60.83	59.4	10	15	-1							
PULKOVO	60.96	333.6	10	17	0							
STALINABAD	61.32	296.7	10	20	1						19	4 PS
SKALSTUGAN	61.49	344.3	10	20K	0							
NURMI JARVI	61.77	336.8	10	22	0						12	47 PP
HELSINKI	62.00	336.5	10	24	0							
MOSCOW	62.13	327.4	10	24	-1							
LAHORE	63.26	287.5	10	25	-7							
UPPSALA	63.94	340.0	10	36	-1							
TUCSON TELE.	64.52	69.7	10	41	1						13	43
TUCSON	64.52	69.8	10	46	6							
ASHKABAD	67.29	303.0	10	58	0							
QUETTA	68.52	291.7	11	5	-1							
COPENHAGEN	68.86	341.1	11	8	0							
ST. LOUIS 1	70.56	51.5	11	17	-1	20	28	-4				
FAYETTEVILLE	70.62	55.8	11	17A	-2							
TIFLIS	70.78	314.3	11	21	1						11	41 PCP
OTTAWA	71.25	38.1	11	21	-2							



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SHAWINIGAN	71.35	35.6	11 22	-1	
LWOW	71.43	331.8	11 23	-1	
BREBEUF	71.94	36.7	11 25K	-2	
KRAKOW	72.36	334.4	11 30	1	12 19
SIMFEROPOL	72.39	323.0	11 29	0	
KARACHI	72.53	288.0	11 29	-1	
LITTLE ROCK	72.58	55.4	11 31	0	
IASI	72.68	328.3	11 30	-1	
RACIBORZ	72.78	335.5	11 32	0	
COLLMBERG	72.86	339.2	11 32A	0	
HALLE	72.90	339.9	11 30	-2	11 46 PCP
MUNSTER	73.30	342.7	11 35	0	
CHARTERS TS.	73.38	193.7	11 35	0	
JENA	73.51	339.9	11 36	0	14 29 PP
PRUHONICE	73.75	337.7	11 38A	1	11 51 PCP
PLAUEN	73.81	339.4	11 37	-1	
BRATISLAVA	74.82	335.4	11 45	1	11 57 PCP
DOURBES	75.63	344.1	11 49	1	12 3 PCP
STUTTGART	76.04	340.7	11 51	0	
HALIFAX	76.10	30.6	11 49K	-2	
STRASBOURG	76.52	341.6	11 53	0	
SHIRAZ	76.79	301.6	11 55K	0	22 0
PARIS	77.22	345.1	11 57	0	
FOLINIERE	77.69	347.1	12 0	0	
KSARA	81.23	315.9	12 20	1	
ATHENS	82.20	326.7	12 10	-14	
ISOLA	82.56	334.9	12 18	-8	
JERUSALEM	83.27	315.4	12 30K	1	
HELWAN	86.57	317.4	12 46	0	
SETIF	88.90	339.9	12 58	1	
RELIZANE	90.26	343.6	13 42	38	17 7 PP
TAMANRASSET	101.78	336.2	13 54	-2	17 54 PP
BROKEN HILL	126.16	296.5	19 6	2	
LA PAZ	127.78	65.1	19 10	3	
BYRD STATION	139.65	164.6	19 11	-18	

FEBRUARY 19 2.H 30.M 14.S EPICENTRE 45.52 10.59 DEPTH= 0.KM

A= 0.69115 B= 0.12918 C= 0.71107 D= 0.1837 E=-0.9830  
G= 0.6990 H= 0.1306 K=-0.7031 HT= -3.7

SE= 3.16

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PAVIA	1.05	251.9									0 25	PG
BOLOGNA	1.14	152.3									0 30	PG
CHUR	1.52	331.6	0 27K		-1						0 50	
OROPA	1.84	274.2	0 31		-2						1 0	SG
TRIESTE	2.23	85.4	0 39		1	0 48	-19				0 43	PG
RAVENSBURG	2.36	344.0	0 41A		1						1 19	SG
LJUBLJANA	2.80	77.6	0 47		0	1 23	1				0 53	PG
MONACO	2.88	232.7									0 58	PG
EBINGEN	2.89	338.0	0 47		-1	1 24	0				0 53	PG
BASLE	2.89	315.2	0 48		0						1 30	
NEUCHATEL	2.93	301.8	0 48		0						1 34	
TUBINGEN	3.19	341.6	0 51		-1	1 29	-3				0 59	PG
STUTTGART	3.38	345.2	0 54		-1						1 50	SG
STRASBOURG	3.62	328.9	0 56A		-2	1 38	-4				1 10	PG
BESANCON	3.63	300.2	1 2		4	1 39	-4				1 9	PG
ZAGREB	3.79	83.5				2 3	16				1 13	PG
HEIDELBERG	4.09	342.6	1 3		-2						2 8	SG
CHEB	4.72	14.2				2 2	-8				1 35	PG
SONNEBERG	4.89	4.6									1 32	PG
PLAUEN	5.09	11.4	1 31		12						2 37	SG
BRATISLAVA	5.20	57.0	1 19		-2	2 8	-14				1 37	PG
PRUHONICE	5.21	29.5	1 8A		-13	2 17	-5				1 41	PG
CLERMONT-FD.	5.24	275.4	1 21		0	2 21	-2					
JENA	5.46	6.6				2 17	-12				1 44	PG
HURBANOVO	5.74	63.1									1 55	PG
BENSBERG	5.91	338.5	1 31		0						3 6	SG
COLLMBERG	6.01	14.6	1 32		0	3 4	21				2 8	PG
HALLE	6.06	8.1	1 40		7	2 34	-10				1 55	PG
DOURBES	6.11	320.8	1 33		-1	2 43	-2					
PARIS	6.43	303.7	1 36		-2						2 34	SG

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UCCLE	6.73	324.0	1 44	2	2 58	-3		
MUNSTER	6.75	344.2	1 41	-2			3 26	
RACIBORZ	6.86	45.6			3 36	32	2 27	PG
POTSDAM	7.06	12.5			2 58	-11	3 48	SG
WITTEVEEN	7.75	342.1	2 10	13				
KRAKOW	7.76	50.9	1 52	-5	3 51	25	4 8	SG
FOLINIERE	8.22	297.3	2 1	-2				
TAMANRASSET	23.05	192.0	5 8	0				
JERUSALEM	23.51	117.1	5 15	3				
SHIRAZ	36.36	101.1	7 7	0				

FEBRUARY 19 5.H 9.M 22.S EPICENTRE 60.94-150.57 DEPTH= 0.KM

A=-0.42520 B=-0.23987 C= 0.87273 D=-0.4913 E= 0.8710  
G=-0.7601 H=-0.4288 K=-0.4882 HT= -9.2

SE= 1.72

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
COLLEGE	4.14	16.5	1	10	4	2	4	8				
SITKA	8.78	109.6	2	7	-4							
VICTORIA	19.83	116.6	4	34	-1							
CORVALLIS	22.99	123.0	5	8	1							
RESOLUTE	23.86	32.9	5	16	0							
HUNGRY HORSE	24.24	104.7	5	19	0	8	59	-37				
SHASTA	26.61	126.7	5	42K	0							
BUTTE	26.62	106.7	5	41	-1							
BOZEMAN	27.59	105.5	5	49	-2							
RENO	28.63	124.4	6	OK	0							
BERKELEY	29.12	129.5	6	4A	0							
LICK	29.81	129.2	6	10K	-1							
EUREKA	30.27	119.3	6	14	-1							
THULE	30.28	27.7	6	14	-1							
FRESNO	31.02	127.1	6	21	0							
RAPID CITY	32.51	99.4	6	33	-1							
LARAMIE	33.49	105.1	6	41	-2							
PASADENA	33.95	127.3	6	46	-1							
TUCSON TELE.	38.57	119.5	7	26	0						7 45	
TUCSON	38.60	119.7	7	26	0						7 44	
ST. LOUIS I	42.95	92.9	8	0A	-2							
FAYETTEVILLE	43.05	98.9	8	OK	-3							
OTTAWA	44.83	74.7	8	15	-2							
LITTLE ROCK	44.99	98.2	8	17	-2							
SHAWINIGAN	45.35	71.5	8	18	-4							
BREBEUF	45.74	73.1	8	22	-3	15	7	-1				
SEVEN FALLS	45.82	69.6	8	24	-1							
MATUSIRO	49.91	274.7	8	59A	2						27 2	
HALIFAX	51.00	66.6	9	3A	-2							
KIRUNA	51.36	4.4	9	8	0						9 20	
APATITY	51.78	358.0	9	10	-1							
SODANKYLA	51.97	1.4	9	12	-1							
SKALSTUGAN	55.12	9.3	9	41	5							
NURMIJARVI	58.82	2.8	10	2	0							
HELSINKI	59.17	2.6	10	5	0							
UPPSALA	59.19	6.9	10	4	-1						10 21	
HALLE	67.04	11.8	10	57	0				11 14			
COLLMBERG	67.34	11.1	10	58	-1						11 16	
DOURBES	67.52	17.0	11	1	1							
JENA	67.56	12.1	10	59	-1						11 16	
FOLINIERE	68.01	20.8	11	2	-1							
PLAUEN	68.06	11.8	11	0	-3						11 18	
PARIS	68.46	18.8	11	5	-1							
PRUMONICE	68.78	10.2	11	8K	0						12 1	
STUTTGART	69.44	14.1	11	12	0							
STRASBOURG	69.44	15.2	11	12	0							
SHILLONG	80.18	305.6	12	13	0							
QUETTA	84.19	328.0	12	35	1							
HUANCAYO	93.40	108.6	13	17	-1							
TAMANRASSET	94.35	22.0	13	21	-2							
CHARTERS TS.	95.21	237.4	13	15	-12							
BYRD STATION	141.85	171.6	19	28	-6							

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FEBRUARY 19 10.H 36.M 53.S EPICENTRE 36.57 71.04 DEPTH= 208.KM

A= 0.26162 B= 0.76134 C= 0.59322 D= 0.9457 E=-0.3250  
G= 0.1928 H= 0.5610 K=-0.8050 HT= -0.4

DEPTH OF FOCUS= 0.028R

SE= 2.25

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
KHOROG	0.99	23.4	0	31	1	0	53	-1				
KULYAB	1.68	322.7	0	37	1							
GARM	2.49	346.7	0	45	0	1	17	-2				
CHUIAN-GARON	2.55	325.0	0	46	1	1	19	-1				
WARSAK DAM	2.60	170.5	0	45	-1							
DZERGETAL	2.65	3.3	0	48	2	1	22	0				
STALINABAD	2.69	318.6	0	48	1	1	22	-1				
GISSAR	2.73	314.8	0	47	0							
MURGAB	2.92	51.2	0	50	1	1	27	-1				
FERGANA	3.85	8.5	1	1	0	1	46	-2				
ANDIJAN	4.30	13.6	1	6	0	1	55	-3				
NAMANGAN	4.43	6.2	1	8	0							
SAMARKAND	4.45	315.3	1	7	-1							
LUNACHARSKOE	4.93	344.9	1	12	-2							
TASHKENT	4.94	344.4	1	15	1	2	11	-1				
LAHORE	5.71	150.4	1	23	-1	2	23	-7				
TCHIMKENT	5.83	349.5	1	25	-1							
NARYN	6.20	37.0	1	29	-1							
FRUNSE	6.83	22.7	1	39	0							
BAIRAM-ALI	7.20	280.9	1	41	-2							
QUETTA	7.23	209.4	1	44	0	3	0	-5			2	30 *SP
FABRICHNAYA	7.75	30.7	1	50	0						2	23
ALMATA	8.09	32.4	1	55	0	3	19	-7				
PRZHEVALSK	8.20	41.7	1	55	-1						2	57
DEHRA DUN	8.55	134.8	1	58	-3	3	33	-3			2	6 PP
ASHKABAD	10.21	281.5	2	22	0							
AGRA	11.12	145.8	2	12K	-22							
KIZYL-ARVAT	11.96	287.1	2	43	-2							
KARACHI	12.20	197.4	2	45	-3	4	53	-7			3	36 *SP
SEHORE	14.34	157.0	3	13	-1						3	24 PP
SEMI PALATNSK	15.34	22.8	3	26	-1						6	16
CHATRA	16.80	120.8	3	44	0	6	38	-5				
SHIRAZ	16.97	251.3	3	46	0							
BOMBAY	17.67	174.4	3	53	-1	7	0	-1			4	47 *SP
BOKARO	17.97	130.9	3	57K	0	7	10	3			4	48 PP
LHASA	18.11	106.7	3	59K	1	7	13	3				
POONA	18.14	171.4	3	42	-17	6	58	-13			3	56 PP
GORIS	19.66	286.0	4	15	1						5	15 *SP
HYDERABAD	20.16	159.1	4	19A	0	7	49	0			4	43 PP
CALCUTTA	20.52	123.2	4	24A	1	8	9	14				
SHILLONG	20.90	115.8	4	27K	0	8	8	6			5	8
TIFLIS	20.95	292.2	4	29	2						5	5 PP
VIZIANAGRAM	21.40	145.9	3	44	-48	8	24	13			5	0 PP
SVERDLOVSK	21.44	344.2	4	32	0	8	10	-2			5	35 *SP
TOCKLAI	22.40	109.2	4	41	0	8	28	0			8	58 SS
CHITTAGONG	22.91	122.5	4	51A	5	8	45	8	5	29	5	35 PP
MADRAS	24.87	158.4	5	7K	2	9	13	3			5	31 PP
LANCHOW	26.37	81.3	5	19A	1	9	37	3	6	8		
KODAIKANAL	26.86	165.9	5	40K	17	10	3	21			8	48
CHENG TU	28.00	92.5	5	33A	0	10	3	2	6	21		
IRKUTSK	28.17	45.6	5	34A	-1	10	7	4	6	19	11	31 *SS
ULAN-BATOR	28.62	55.4	5	38	-1	10	10	-1				
KSARA	28.76	275.0	5	42	2	10	18	5			6	31 PP
SIMFEROPOL	28.99	298.3	5	44A	2	10	15	-1	6	27	6	42 PP
KUNMING	29.39	103.9	5	35A	-11	10	24	1	6	31	6	48 PP
MOSCOW	29.62	320.9	5	48	0	10	27	1	6	28		
JERUSALEM	29.90	271.4	5	51	1	10	24	-7				
PAOTOW	30.58	70.4	5	56A	0	10	40	-1				
COLOMBO	30.62	162.6	5	56	0						11	57
SIAN	30.84	82.9	5	57A	-1						7	6 *SP
PORT BLAIR	31.57	136.3	6	6	1	10	56	-1			8	0 PP
ISTANBUL KA.	32.77	290.9	6	15	0	11	15	0				
IASI	33.66	302.2	6	24	1	11	37	8	7	7	7	24 *SP
HELWAN	33.70	270.3	6	22A	-1	11	31	1				
FOCSANI	33.89	299.5	7	25	60						8	43
BUCHAREST	34.70	297.2	6	34	3	11	56	11	7	19	7	41 *SP
PULKOVO	34.87	324.7	6	33	0	11	48	0	7	10	7	45 *SP
PEKING	35.30	70.3	6	36A	-1	11	51	-3	7	22	8	3 PP
CAMPULUNG	35.42	298.8	6	45	7				7	25	7	49 *SP

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LWOW	36.14	306.6	6 45	1	12 8	1	7 29	8 10	PP		
WUHAN	36.53	86.6	6 47A	0	12 15	2	7 33	7 55	*SP		
ATHENS	37.36	286.8	6 54K	0	12 27	1	7 39				
HELSINKI	37.53	323.8	6 55	0	12 29	1	7 41	13 42	*SS		
APATITY	37.56	337.4	6 54A	-1	12 26	-3	7 39	8 26	PP		
NURMIJARVI	37.78	324.2	6 58	1	12 31	-1	7 41	8 8	*SP		
TIMISOARA	38.07	299.8	7 5	5	12 37	1	7 48	8 37	PP		
WARSAW	38.19	310.3	7 2	1	12 41	3	7 29	8 38	PP		
SKALNATE PL.	38.59	305.4	7 7	3	12 44	0	7 52	8 44	PP		
BELGRADE	38.69	298.4	7 6A	1	12 49	3		8 14	PP		
CANTON	38.78	98.3	7 6A	0	12 45	-2	7 57	8 13	*SP		
KRAKOW	38.80	306.8	7 7	1	12 47	0	7 34	9 13	PPP		
OULU	39.06	331.2	7 6	-2			7 51				
NANKING	39.37	82.2	7 10A	0	12 56	0	7 57	8 19	*SP		
CHORZOW	39.40	307.2	7 13	2			7 56	8 45	PP		
SODANKYLA	39.68	334.9	7 13	0	13 0	-1	7 59	8 46	PP		
HONG KONG	39.84	98.7	7 14	0	12 39	-24	7 54	9 57	PPP		
RACIBORZ	39.91	306.9	7 16	1				8 54	PP		
HURBANOVO	40.00	303.4	7 18	2	13 7	2	8 5	9 4	PP		
BRATISLAVA	40.72	303.9	7 20A	-1			8 8	8 53	PP		
UPPSALA	41.03	321.9	7 23A	-1							
VIENNA-H.	41.20	304.1	7 27A	2			8 14	8 51	PP		
CHANGCHUN	41.45	62.6	7 27A	0	13 27	1	8 17	9 21	PCP		
MEDAN	41.53	135.7	7 26A	-2	13 26	-2					
ZO-SE	41.63	82.4	7 28A	-1	13 28	-1	8 10	9 8	PP		
ZAGREB	41.71	300.5	7 33	3			8 18	9 50			
TARANTO	41.72	292.4	7 24	-6				10 24	PPP		
KIRUNA	42.03	334.0	7 32	0				8 17			
PRUHONICE	42.27	306.8	7 34A	0	13 35	-3	8 21	9 18	PP		
PRAGUE	42.34	307.0	7 37A	2	13 44	5	8 23	8 43	*SP		
LJUBLJANA	42.69	301.1	7 38A	0			8 25	9 22	PP		
POTSDAM	43.08	310.5	7 42	1	13 54	4	8 30	17 23	SS		
COLLMBERG	43.17	308.9	7 41K	0	13 52	0	8 28	9 36	PP		
TRIESTE	43.28	300.6	7 41A	-1	13 53	0	8 28	9 31	PP		
COPENHAGEN	43.40	315.3	7 44A	1	13 57	2	8 30	9 29	PP		
REGGIO CALA.	43.51	289.4	7 44	0	14 1	5		10 40			
MESSINA	43.56	289.6	7 45	1	13 57	0	8 30	9 28	PP		
CHEB	43.66	307.1	7 47	2				8 55	*SP		
PLAUEN	43.76	307.8	7 43	-3							
HALLE	43.82	309.2	7 46	-1	14 0	-1	8 34	9 34	PP		
JENA	44.09	308.4	7 49	0	14 5	0	8 33	9 16	PP		
ISOLA	44.14	293.6	8 22A	33				10 21	PP		
TAICHUNG	44.15	91.9	7 33	-16							
SKALSTUGAN	44.16	326.7	7 48	-1							
SONNEBERG	44.38	307.7	7 50	-1			8 38	8 59	*SP		
TAIPEI	44.42	90.3	7 54	3							
KHEYS	44.45	357.0	7 53	1			8 39	10 21	PPP		
ALISHAN	44.54	92.6	7 56	4							
ILAN	44.72	90.5	7 57	3							
ROME	44.91	295.6	7 55	0	14 14	-3	8 41	10 30	PPP		
HWALIEN	44.99	91.6	8 5	9							
BOLOGNA	45.17	299.4	8 0	3				11 12			
TAWU	45.20	94.0	8 6	9				14 29			
TAITUNG	45.20	93.4	8 1	3				10 34			
TIKSI	45.69	22.0	8 0	-1			8 46	9 48	PP		
RAVENSBERG	45.75	304.2	8 0	-2			8 48	11 31			
STUTTGART	45.82	305.6	8 3	1	14 27	-2	8 48	15 40	*SS		
CHUR	45.97	303.0	8 3K	-1				8 50			
TUBINGEN	46.00	305.3	8 4	0			8 50	9 15			
HEIDELBERG	46.09	306.6	8 5A	0			8 51	11 9			
EBINGEN	46.12	304.9	8 5A	0			8 52	10 39			
VLADIVOSTOK	46.29	62.2	8 5	-1	14 36	0	8 52	15 58	*SS		
MUNSTER	46.45	310.2	8 8	1				9 0			
PAVIA	46.54	300.8			13 47	-53	8 40	11 7	PPP		
CHIAVARI	46.62	299.6			14 40	-1	9 10	10 4	PP		
STRASBOURG	46.84	305.6	8 10A	0	14 47	3	8 57	9 57	PP		
BENSBERG	46.86	308.9	8 9	-1			8 57				
WITTEVEEN	46.93	311.5	8 7	-4			8 59				
BASLE	47.15	304.2	8 11A	-2			8 59	10 42	*PPP		
OROPA	47.27	301.6			13 44	-66	8 41				
NEUCHATEL	47.68	303.6	8 16	-1			9 3				
ISFJORD	47.89	346.3	8 18	-1			9 6				
NAGASAKI	47.91	76.4	8 19A	0	15 2	3					
DE BILT	47.93	310.7	8 19	0	15 5	6	9 5	19 7	SS		
HUKUOKA	47.99	75.1	8 19A	0	15 6	6		11 3			
SAGA	48.05	75.6	8 34	14							
MONACO	48.08	299.2	8 20	0			9 7				
BAGUIO CITY	48.09	101.1	8 20	0	15 5	4					

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BESANCON	48.27	304.1	8 21A	0				9 7	9 28	*SP	
KUMAMOTO	48.52	75.9	8 24	1	15 11	4					
DOURBES	48.62	308.1	8 25	1	15 25	16					
UCCLE	48.65	309.1	8 25	1	15 11	2					
HAMADA	48.83	72.8	8 27	1	15 13	1					
KAGOSIMA	48.88	77.5	8 23	-3	14 31	-41					
OOITA	49.08	75.1	8 29K	1							
YAKUSIMA	49.28	78.9	8 28	-1					1 34		
HIROSIMA	49.29	73.3	8 28	-1	15 24	6					
MATSUE	49.40	71.8	8 30	0							
MIYAZAKI	49.42	76.7	8 29	-1	15 23	3			11 35		
MANILA	49.49	102.6	8 29	-2	15 21	0					
PARIS	50.23	306.8	8 37K	1	15 27	-4					
KOTI	50.45	73.9	8 38	0	15 32	-2		9 29	16 47	*SS	
CLERMONT-FD.	50.54	302.9	8 40	1	15 26	-9					
TAKAMATU	50.56	72.8	8 39	0	15 34	-2			9 27		
TOYOOKA	50.71	71.0	8 40	0	15 39	1			17 1	*SS	
TOKUSIMA	51.06	72.8	8 42A	-1					17 3		
MUROTO	51.06	74.0	8 44	1					17 7		
SUMOTO	51.21	72.4	8 43A	-1	15 44	-1			17 8	SS	
KOBE	51.29	71.9	8 43	-1					17 9		
ABERDEEN	51.34	318.1			14 59	-47			11 39	PPP	
KEW	51.40	310.7	8 44A	-1	15 48	1		9 32	9 55	PCP	
DURHAM	51.48	315.0	8 45A	-1	15 32	-16		9 33	10 50	PP	
ABUYAMA	51.52	71.5	8 47A	1							
OSAKA	51.57	71.8	8 47	1					16 11		
KYOTO	51.59	71.3	8 45	-1					15 29		
HUKUI	51.59	69.8	8 47	1							
NARA	51.79	71.6	179								
SETI F	51.87	290.5	8 48	-1				9 35	10 33		
HIKONE	51.89	70.8	8 47	-2							
TOYAMA	52.09	68.7	9 15	25					16 20		
FOLINIERE	52.14	307.4	8 50	-1							
SIOMI SAKI	52.21	73.1	8 51	0					17 25		
KAMEYAMA	52.21	71.2	8 54	3	16 1	3					
GIHU	52.24	70.4	8 51A	0	15 57	-1			10 19		
SUTTSU	52.26	60.5	8 51	0	15 56	-3			11 40		
OWASE	52.30	72.2	8 53	1	16 1	2			17 23		
NAGOYA	52.47	70.6	8 54	1					15 54		
MATUMOTO	52.83	69.0	8 57	1							
NAGANO	52.85	68.4	8 56	0	16 7	0					
MATUSIRO	52.90	68.5	8 54A	-2	16 7	0		9 43	19 53	SS	
MURORAN	52.94	60.8	8 55	-1							
HAKODATE	52.95	61.5	8 55	-2	16 7	-1			9 44		
SAPPORO	52.96	59.8	8 55	-2	16 1	-7					
IIDA	53.00	69.9	8 59	2					17 34		
JERSEY	53.07	308.2	8 51	-6	16 6	-4					
AKITA	53.17	64.2	8 53	0					16 12		
OIWAKE	53.24	63.7	8 57	-2	16 12	0			17 35		
TOMAKOMAI	53.26	60.3	9 2	3							
AOMORI	53.29	62.6	9 4	5							
ALGIERS UNI.	53.42	292.0	8 58	-2	16 12	-2		9 44	10 0	PCP	
KOHU	53.49	69.4	9 0	-1							
MAEBASI	53.60	68.4	9 1	0					10 50		
SHIZUOKA	53.64	70.3	9 1	-1	16 16	-1					
OMASAKI	53.64	70.8	9 4	2	16 19	2			13 41		
HUNATU	53.71	69.5	9 1	-1							
NORD	53.74	349.5	9 1A	-1	16 20	1		9 49	20 0	SS	
TITIBU	53.76	68.9	9 2	-1							
TORTOSA	53.85	297.6	9 7	4	16 20	0					
YAMAGATA	53.87	65.8	9 4	1	16 23	3					
HATINOHE	53.92	62.7	9 1	-3	16 18	-3					
KUMAGAYA	53.92	68.5	9 6	2							
MISIMA	53.99	69.9	9 2	-2							
MIZUSAWA	54.12	64.5	9 5	0	16 25	1					
HUKUSIMA	54.14	66.3	9 5	0	16 26	2					
UTUNOMIYA	54.14	67.9	9 5	0	16 22	-2			9 59		
DJAKARTA	54.14	134.1	9 9	4							
SHIRAKAWA	54.19	67.1	9 6	0							
URAKAWA	54.26	60.5	9 7	1	16 23	-3					
SENDAI	54.27	65.6	8 59	-7	16 23	-3			10 18		
OBIHIRO	54.29	59.4	9 15	9							
TOKYO C.M.O.	54.38	68.9	9 7	0	16 27	0			10 12		
YOKOHAMA	54.40	69.3	9 8	1							
TUKUBASAN	54.44	68.2	9 5A	-2	16 25	-3			11 10	PP	
KAKIOKA	54.49	68.2	9 6	-2							
ISINOMAKI	54.51	65.2	9 8	0							
MIYAKO	54.55	63.6	9 6	-2	16 29	0					

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MITO	54.65	67.9	9 8K	-1	16 33	2						
ONAHAMA	54.76	67.1	9 9K	-1	16 31	-1						
LWIRO	55.08	235.0	9 12A	0	16 41	4						
KUSIRO	55.10	59.0	9 10	-2	16 30	-7						
LEMBANG	55.12	133.8	9 7A	-5	16 31	-6						
ALICANTE	55.44	295.1	9 1	-14	16 43	2				11 9	PP	
RELIZANE	55.68	291.8	9 13A	-3			10 0			11 23	PP	
NEMURO	55.79	58.3	9 14A	-3	16 39	-7				18 10		
SCORESBY SD.	57.00	336.4	9 26	0	17 6	4	10 13					
TOLEDO	57.43	298.1	9 27A	-2	17 9	1	10 17			11 48	PP	
ALMERIA	57.48	294.2	9 27A	-2	17 5	-3	10 16			18 36	SCS	
SIDA	57.51	328.2	9 31	2			10 19			10 42	*SP	
TAMANRASSET	57.57	275.6	9 27A	-3	17 7	-2	10 15			10 37	*SP	
BANGUI	57.68	249.2	9 49	19						36 37		
GRANADA	58.18	295.0	9 30K	-4	17 12	-5	10 24			11 55	PP	
REYKJAVIK	59.00	329.3	9 42	2			10 28					
TANANARIVE	59.49	206.0	9 46A	3			10 58					
SERRA PILAR	60.12	301.0	9 39K	-8	17 31	-11	10 29			11 55	PP	
COIMBRA	60.39	300.0			17 41	-5	10 36			19 12		
LISBON	61.52	298.7	10 42K	45	19 21	81	11 7			12 22	PP	
THULE	64.40	350.2	10 13A	-2	18 19	-17	11 3			12 40	PP	
BROKEN HILL	64.70	226.5	10 18A	1								
RESOLUTE	68.64	356.0	10 41A	-1	19 17	-10	11 31					
GUAM	69.09	88.5	10 43	-2								
BULAWAYO	69.19	222.7	10 46A	1								
LOME	70.18	262.8	10 51	-1	20 37	52						
LUANDA	70.54	242.5	10 53	-1	19 51	2				11 10	PCP	
IVIGTUT	70.81	333.4			19 55	3				14 15	PP	
PRETORIA	73.98	219.7	11 14	0								
COLLEGE	74.41	16.1	11 15	-1	20 33	1	12 4			14 50	*PPP	
KIMBERLEY	78.18	220.4	11 38	1								
MBOUR	80.01	280.5	11 47A	0			12 45					
PERTH	80.02	142.5	11 47	0						12 39	PP	
MUNDARING	80.23	142.3	11 47	-1			12 39					
GRAHAMSTOWN	80.98	216.4	11 54	2						12 48		
SITKA	84.11	14.1	12 11	3			13 1					
PORT MORESBY	84.58	105.8	12 10A	-1	22 17	-1	13 4			22 11	SKS	
RABAUL	85.38	98.6	12 13	-2	22 17	-9				15 11		
KERGUELEN I.	85.55	180.6	13 7	52	23 56	88						
HALIFAX	89.35	329.5	12 34	0			13 29					
SEVEN FALLS	89.95	335.1	12 37	1								
CHARTERS TS.	90.55	114.7	12 38A	-1						22 45		
SHAWINIGAN	91.09	335.9	12 41A	-1								
BREBEUF	92.30	336.0	12 47K	0	23 31	2						
OTTAWA	93.06	337.2	12 51	0								
ALBERNI	93.38	10.3	13 1	9			13 53					
VICTORIA	94.31	9.6	12 57	1			13 50					
ADELAIDE	95.02	130.3	12 58	-2			13 51			16 53	PP	
HUNGRY HORSE	95.34	3.4	13 1A	0			13 53			16 46	PP	
PALISADES	96.37	334.1	13 5	-1	23 13	-8	13 59			17 1	PP	
BUTTE	97.72	2.5	13 12	0			14 5					
PENNSYLVANIA	97.89	336.7			23 29	0				27 15	SPS	
BOZEMAN	98.12	1.5	13 13	-1			14 6			17 58	PP	
CORVALLIS	98.19	10.3	13 17K	3			14 8			14 8		
RAPID CITY	99.56	355.8	13 20	0			14 13			30 35	PKKP	
MORGANTOWN	99.60	337.7	13 21K	1								
BRISBANE	99.71	116.8	13 22	1								
BERMUDA	99.87	323.2	13 15	-7	23 43	4	14 13			26 7	PS	
MELBOURNE	100.71	129.2	13 24	-1						17 35	PP	
CANBERRA	101.78	125.2	13 29K	-1						17 50	PP	
SHASTA	102.12	10.4	14 34	62								
RIVERVIEW	102.34	122.9	13 35K	2	23 48	-3				17 56	PP	
LARAMIE	102.43	357.4	13 34	1			14 27					
SALT LAKE C.	102.99	2.2	13 36	0			14 29					
ST. LOUIS I	103.19	345.0	13 38K	2	23 57	2						
RENO	103.61	8.6	14 32A	54						18 1		
EUREKA	104.05	5.6	13 41	1						29 28	PKKP	
MIRNY	104.17	171.1			25 36	97				18 18	PP	
RUTH	104.37	4.8	14 36	54						26 56		
BERKELEY	104.92	10.9	14 36	52	27 4	182				18 6		
FORT NELSON	105.23	132.3			25 32	88				18 25	PP	
LICK	105.53	10.5	14 39	777								
FRESNO	106.34	9.1	14 44	777								
FAYETTEVILLE	106.42	347.6	13 49A	777	24 5	-4				18 13	PP	
WILKES	106.98	164.4			25 49	98				28 49	PS	
LITTLE ROCK	107.35	345.7			24 42	29				18 55	PP	
BOULDER CITY	107.61	5.0	13 57	777			14 50					
PASADENA	109.12	8.1			24 25	4				18 41	PP	
TUCSON TELE.	111.43	1.6	18 12	3						19 33	*PPP	



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1960						PAGE 134	
TUCSON	111.52	1.7	18 11	2		19 30	*PPP
SAN JUAN	112.00	315.9	18 31	21		19 42	PP
CARACAS	118.73	311.3	19 14	51	26 7 70		
TACUBAYA	123.57	348.9	18 31	-1		19 59	
SOUTH POLE	126.39	180.0	18 17	-21		19 16	20 26 PP
FUQUENE	126.76	314.2	18 40	2		19 36	20 38 PP
CAPE HALLETT	127.16	157.7	18 44	5		19 56	21 39 PP
BOGOTA	127.64	313.9	18 42	2	25 44 19		20 42 PP
CHINCHINA	128.24	315.8	18 38	-3		19 34	20 44 PP
LA PAZ	138.74	288.0	19 2A	1	25 33 -16		21 54 PP
HUANCAYO	141.14	300.3	19 3	-3			22 17 PP
PORT STANLEY	141.17	230.6	19 1	-5			
ARGENTINE I.	141.17	208.2	18 57	-9			

FEBRUARY 21 0.H 46.M 57.S EPICENTRE -42.21 173.16 DEPTH= 49.KM

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G= 0.6646 H=-0.0797 K=-0.7429 HT= -2.5

DEPTH OF FOCUS= 0.003R

SE= 1.65

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
COBB RIVER	1.17	343.9	0	21	1							
KAIMATA	1.33	255.9	0	23	0							
WELLINGTON	1.52	52.9	0	27K	2	0	46	2			15	22 SCS
GEBBIES PASS	1.54	194.0	0	25	0	0	43	-2				
ROXBURGH	4.29	219.1	1	1	-3	2	3	9			1	28
TUAI	4.57	43.1	1	5	-3	1	59	-2			2	24 S*
KARAPIRO	4.65	23.9	1	9A	0						8	14 PCP
ONERAHI	6.50	8.7	1	36	1	2	45	-4				
FORT NELSON	19.01	259.1	4	26A	6	7	57	11				
RIVERVIEW	19.22	288.6	4	23A	1	8	2	11	4	32	4	38 PP
CANBERRA	20.02	282.1	4	31A	0	8	9	1			4	52 PP
MELBOURNE	21.98	272.1	4	50	-1	8	54	9	5	3		
BRISBANE	22.25	305.1	4	53	-1	8	54	4				
KOUMAC	22.85	338.1	5	0	1	9	6	5				
SUVA	24.40	12.2	5	15	1	9	10	-18			8	48
ADELAIDE	27.74	273.6	5	45	-1						6	46
CAPE HALLETT	30.21	181.8									11	35 SS
CHARTERS TS.	31.65	305.9	6	20A	0	11	26	1				
PORT MORESBY	39.88	317.5	7	30A	0	13	34	3	7	44	13	55 *SS
WILKES	41.39	212.8				13	58	4			14	21 PPS
RABAUL	42.23	327.9	7	49A	-1							
BYRD STATION	44.84	166.8	8	12	1				8	25	9	53 PP
MUNDARING	45.81	263.5	8	17	-1							
SOUTH POLE	47.98	180.0	8	37	2				8	50	10	19 PP
ARGENTINE I.	63.97	156.7	10	30	0							
LEMBANG	67.39	281.7	10	51A	-1	19	41	-1				
PORT STANLEY	76.52	150.2	11	47	1							
MEDAN	80.97	283.2	12	10	-1							
HONG KONG	84.15	307.1	12	41K	14	22	45	-1				
MATUSIRO	84.63	332.4	12	28K	-1						12	59
LA PAZ	98.83	121.6	13	3	-32						24	17 PS
BOULDER CITY	101.85	52.0									18	2 PP
YAKUTSK	109.62	339.9									18	57 PP
BULAWAYO	109.85	215.4	18	28	777							
HUNGRY HORSE	110.62	42.9	18	40	13						29	36 PKKP
COLLEGE	11 .02	16.7	18	52	25							
RAPID CITY	113.87	51.6	18	38	5						19	28 PP
BROKEN HILL	114.92	218.1	18	38	3							
LAWRENCE	115.80	59.9	18	58	21							
QUETTA	120.96	284.2	18	48	1				19	4	20	21 PP
TRINIDAD	123.12	107.0	18	55	4							
LWIRO	125.26	225.5	18	57	2							
SHIRAZ	131.23	275.2	18	55	-12						21	34
OTTAWA	131.58	61.5	19	7A	0						22	28
BREBEUF	132.99	62.1	19	11A	1							
SHAWINIGAN	133.91	61.0	19	12A	0						22	36 PKS
SEVEN FALLS	135.35	60.9	19	16A	2						22	40 PKS
THULE	137.25	17.8	19	18	0						22	9 PP
TIFLIS	142.09	287.2	19	31	5						21	18 PP
JERUSALEM	145.14	266.6	19	33	1							
KSARA	145.61	270.2	19	35	2						19	47 PKP2

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1960					PAGE 135	
SOTCHI	146.21	288.4	19 44	10		
HELWAN	147.04	260.6	19 36	1		
MOSCOW	148.42	310.8	19 40	3		
SODANKYLA	148.99	335.5	19 39	1		
KIRUNA	150.45	339.4	19 49	9		
MBOUR	150.92	159.5	19 50	9		
PULKOVO	151.28	320.5	19 47	5		
ISTANBUL KA.	153.26	279.8			20 3	PKP2
NURMIJARVI	153.52	324.6	19 52	7	20 18	
HELSINKI	153.55	323.7	19 52	7		
SKALSTUGAN	155.88	339.0			20 16	PKP2
UPPSALA	156.81	327.9			20 17	PKP2
TAMANRASSET	158.04	211.9	19 53	2	24 18	PP
BELGRADE	160.07	286.8	20 48A	55	21 31	
RACIBORZ	161.01	303.1			20 7	PP
BRATISLAVA	162.14	297.7	19 54	-1	24 27	PP
PRUMONICE	163.29	305.0	20 17A	21	24 25	PP
COLLMBERG	163.69	310.7	20 48	51	21 4	24 34 PP
HALLE	164.18	312.4	20 49	52	21 5	24 49 PP
LJUBLJANA	164.20	291.3	19 54	-3		20 52 PKP2
ISOLA	164.39	271.6			21 29	PKP2
JENA	164.65	310.9	20 9	11	20 52	24 32 PP
TRIESTE	164.78	290.0			20 14	24 46 PP
MUNSTER	166.16	319.8				22 0 PKP2
STUTTGART	166.94	305.6			21 4	PKP2
TUBINGEN	167.16	304.9			21 6	PKP2
EBINGEN	167.36	303.6			21 6	PKP2
STRASBOURG	167.93	306.8			21 9	PKP2
SETIF	168.77	241.7			21 24	PKP2
RELIZANE	171.36	224.1	20 13	11		21 48 PKP2
ALMERIA	173.67	213.7	20 3	0	20 35	
GRANADA	174.39	207.5				25 44 PP
TOLEDO	176.86	223.1	20 8	4		21 48 PKP2

FEBRUARY 21 8.H 13.M 33.S EPICENTRE 35.87 4.17 DEPTH= 0.KM

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G= 0.5818 H= 0.0424 K=-0.8123 HT= -0.2

SE= 3.00

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
SETIF	1.05	71.2	0	19A	-3							
ALGIERS UNI.	1.27	315.4	0	23K	-2							
RELIZANE	2.94	268.8	0	49	0							
ALICANTE	4.46	305.1	1	13	2	1	59	-5				
ALMERIA	5.44	282.3	1	21A	-4	2	35	6			1	49 PG
TORTOSA	5.72	330.9	1	31	3	2	44	8				
GRANADA	6.39	284.1	1	38A	0						2	49 SG
TOLEDO	7.63	304.1	1	56K	1	3	26	2			2	19 P*
ROME	8.85	44.6				3	43	-11			4	22 S*
ISOLA	9.07	54.6	2	6	-9	3	39	-20				
CHIAVARI	9.32	23.5				4	27	21				
MESSINA	9.40	72.3	2	12	-8	3	55	-12			2	20 PP
REGGIO CALA.	9.46	73.0	1	47	-34							
PRATO	9.61	31.5	2	40	17	4	47	34				
CLERMONT-FD.	9.93	355.8	2	49	22						5	19 SG
SERRA PILAR	11.30	301.6	2	43K	-3	4	51	-3			2	52 PP
NEUCHATEL	11.32	9.8									2	46 PP
BESANCON	11.45	6.2	2	46	-2						3	3
CHUR	11.69	18.5									2	56 PP
BASLE	11.93	11.3									3	4 PPP
TRIESTE	12.17	33.6	3	0	2						6	55 SS
RAVENSBURG	12.58	17.1	3	5	2						3	51
EBINGEN	12.81	14.6	3	7	1							
LJUBLJANA	12.82	34.3	3	7	1						3	48
STRASBOURG	12.98	10.7	3	8	-1	5	27	-8			4	12
PARIS	12.99	355.1	3	10	1							
TAMANRASSET	13.09	174.5	3	7	-3	5	25	-13			3	17 PP
TUBINGEN	13.16	14.5	3	19	8							
FOLINIERE	13.34	346.6	3	11	-2							
ZAGREB	13.36	38.3	3	18	4						6	10
STUTTGART	13.43	14.7	3	14	-1	5	49	3			3	23 PPP
HEIDELBERG	13.93	12.4	3	21	0						4	46
JERSEY	14.08	342.9									6	48
DOURBES	14.23	1.1	3	25	0	6	6	1				

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1960		PAGE 136					
UCCLE	14.93	0.5	3 36	2	6 21	0	
BENSBERG	15.24	7.2	3 44	6			4 46
BELGRADE	15.28	49.2	3 40K	1	6 37	7	4 31
SONNEBERG	15.38	17.2	3 30	-10			
CHEB	15.41	20.3	3 39	-2	6 33	0	
BRATISLAVA	15.58	33.9	3 45	2	6 45	8	
PLAUEN	15.72	19.1	3 46	1			
ATHENS	15.78	76.6	3 52K	7			
HURBANOVO	15.88	36.6	3 43	-4			
KEW	15.93	349.7	3 50	3	6 57	12	
JENA	15.98	17.3	3 48	0	6 45	-1	5 20
PRUMONICE	16.00	25.0	3 45A	-3	6 34	-13	4 29
PRAGUE	16.04	24.6	4 1	22			
MUNSTER	16.29	7.6	3 54	2			
HALLE	16.59	17.2	3 56	0	6 46	-14	4 10 PP
COLLMBERG	16.68	19.6	3 58	1			4 45
WITTEVEEN	17.04	5.2	4 8	7			
RACIBORZ	17.49	31.3	3 53	-14			4 9 PP
POTSDAM	17.68	18.2	4 11	2			
SKALNATE PL.	17.77	36.6	4 12A	1			
KRAKOW	18.22	34.1	4 19	3			4 45 PPP
BUCHAREST	18.78	56.3	4 24K	1	8 0	10	6 47
DURHAM	19.32	349.9	4 25	-4	7 59	-3	
LWOW	20.08	39.9	4 36	-2	8 33	14	
ISTANBUL KA.	20.15	67.5	4 36	-3	8 22	2	
WARSAW	20.27	31.0	4 40	0			8 40 SS
COPENHAGEN	20.61	13.4			8 39	9	
IASI	20.78	49.8	4 44	-1			5 42
ABERDEEN	21.72	350.8			8 12	-39	
GOTEBORG	22.46	11.0	5 0	-2			
HELWAN	23.55	96.9	5 14K	1			5 51 PP
SIMFEROPOL	24.43	59.0	5 17	-4			9 45 PS
UPPSALA	25.54	15.8	5 30	-2			
KSARA	26.05	85.2	5 38	1			6 20 PP
JERUSALEM	26.06	90.0	5 39	2	10 12	5	
NURMI JARVI	27.95	21.7	5 51	-3			9 10 PCP
SKALSTUGAN	28.19	7.7	5 54	-2			
SOTCHI	28.25	63.2	6 5	8			
MBOUR	28.58	226.9	6 7	7			7 3 PP
PULKOVO	29.30	27.1	6 7	1			
MOSCOW	30.20	38.3	6 14	0			
TIFLIS	31.99	67.0	6 30	0	11 54	12	
KIRUNA	33.32	11.2	6 40	-2			
BANGUI	34.05	153.6					19 8
SODANKYLA	34.07	15.3	6 45	-3			
APATITY	35.83	18.7	7 5	2	12 42	1	
SHIRAZ	40.80	84.5	7 43	-2			
SVERDLOVSK	42.78	42.4	8 0	-1			
LWIRO	44.35	143.4	8 15	1			
NORD	46.48	355.9	8 28	-3			
KHEYS	49.16	10.1	8 51	-1			
THULE	51.35	343.2	9 6	-2			
NAMANGAN	51.95	62.7					14 29 PCS
QUETTA	52.16	77.2	9 11	-4	16 41	2	11 10 PP
BROKEN HILL	55.07	150.9	9 36	0			
SEVEN FALLS	55.27	306.6	9 36	-2			
SHAWINIGAN	56.71	306.5	9 46	-2			
BREBEUF	57.62	305.5	9 55K	1			
RESOLUTE	58.11	342.0	9 55	-3			
OTTAWA	59.04	306.0	10 3	-1			
WINDHOEK	59.39	166.1	10 8	1			
PALISADES	59.45	300.7			18 48	32	
BULAWAYO	60.32	153.4	10 14A	1			
SAN JUAN	63.70	274.3	10 37	1			
TRINIDAD	64.06	264.4	10 42	4			
MORGANTOWN	64.22	301.4	10 39A	0			
PRETORIA	65.35	156.2	10 46	0			
TIKSI	66.01	16.6					24 51
KIMBERLEY	67.14	160.4	10 56K	-2			
COLUMBIA	67.59	296.4	11 1	0			
IRKUTSK	68.15	40.7					11 27 PP
TANANARIVE	68.23	135.6					3 22
ST. LOUIS I	71.70	304.7	11 22	-4			
YAKUTSK	73.05	23.6	11 34	0			
SHILLONG	73.75	70.1	11 36A	-2			
LITTLE ROCK	75.21	302.2	11 46	0			
CHITTAGONG	75.44	72.9	11 49	1	21 32	4	14 38 PP
RAPID CITY	76.72	315.0	11 54	-1			

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1960					PAGE 137
COLLEGE	77.22	348.1	11 56	-2	19 15
HUNGRY HORSE	79.72	323.3	12 10	-1	
BUTTE	80.58	320.9	12 15	-1	
SALT LAKE C.	83.75	316.6	12 31	-1	
VICTORIA	83.90	328.0	12 35	2	
LA PAZ	85.85	246.4	12 45	2	
EUREKA	86.92	317.9	12 29	-19	
VLADIVOSTOK	88.09	35.4			17 7
HUANCAYO	88.63	254.2	13 0	4	
TUCSON TELE.	88.79	309.8	12 59	2	
TUCSON	88.92	309.8	12 58	0	
RENO	88.92	320.1	13 1K	3	
MINERAL	89.23	321.7	13 0	1	
FRESNO	90.96	318.2	13 8	1	
PASADENA	91.97	315.5	13 13	1	
HONG KONG	92.14	60.6	13 21	8	23 17 -57
MATUSIRO	96.26	35.6	13 44	12	15 1
MUNDARING	124.50	107.1			20 59 PP
ADELAIDE	143.21	102.3	19 34	-2	
CHARTERS TS.	143.28	75.0	19 36	0	
MELBOURNE	148.73	105.4	19 50	4	
CANBERRA	151.49	99.3	19 57	7	
BRISBANE	152.06	81.3	20 1	10	

FEBRUARY 21 9.H 29.M 16.S EPICENTRE 38.44 41.54 DEPTH= 0.KM

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	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
TIFLIS	4.12	36.3	1	7	1							
SOTCHI	5.32	345.6	1	22	-1	2	22	-4				
MAKHACH-KALA	6.40	43.1	2	12	34							
KSARA	6.50	226.5	1	40	0	3	0	4				
JERUSALEM	8.42	219.8	2	8	1							
SIMFEROPOL	8.55	321.9	2	20	12							
ISTANBUL KA.	9.96	289.2	2	28A	0	4	45	23				
HELWAN	12.02	227.7	2	55	-1	6	29	77				
SHIRAZ	12.63	130.7	3	2	-2	6	31	64				
BUCHAREST	13.03	302.2	3	14	4						7	0
IASI	13.47	315.0	3	15	0						6	59
ATHENS	14.03	273.6	3	25	2						3	38 PP
LWOW	16.91	317.9	4	0	0						8	10
BELGRADE	16.99	298.8	4	2A	1	7	36	26			4	43
MOSCOW	17.50	352.6	4	5	-2	7	19	-2				
SKALNATE PL.	18.68	311.9	4	21	-1							
BRATISLAVA	20.20	306.7	4	11	-29	8	58	36				
RACIBORZ	20.28	312.6	4	40	0						4	50 PP
ZAGREB	20.29	299.5	4	44	4						6	30
REGGIO CALA.	20.32	277.1	4	40	-1	8	32	8				
MESSINA	20.38	277.5	4	39A	-2	8	19	-6	4	58	5	4 PP
LJUBLJANA	21.33	299.6	4	51A	0						5	35
ISOLA	21.40	284.9	5	40	48							
TRIESTE	21.79	298.2	5	10	14						5	57
SVERDLOVSK	22.31	28.3	4	59	-2	9	7	5				
PRUHONICE	22.40	309.7	5	2A	0	9	11	7			5	30 PP
QUETTA	22.50	103.8	5	4	1	9	9	3			5	37 PP
PRAGUE	22.50	309.9	5	20	17							
PULKOVO	22.52	345.1	5	2	-1	9	9	3				
NAMANGAN	23.26	74.2	5	12	2	9	28	9				
PRATO	23.48	293.1	5	36	24							
COLLMBERG	23.80	312.0	5	21A	5							
ANDI JAN	23.81	74.7	5	19	3	9	21	-8				
PLAUE	24.02	309.6	5	16	-2						5	52 PP
HELSINKI	24.15	339.6	5	20	1							
POTSDAM	24.17	314.5	5	19	0							
HALLE	24.48	311.8	5	22	0						7	15
JENA	24.51	310.4	5	22	0						6	1 PP
NURMIJARVI	24.52	339.7	5	23	0	9	54	13				
SONNEBERG	24.56	308.9	5	24	1							
CHIAVARI	24.78	294.1	5	27	2	9	26	-20			10	34
CHUR	24.87	300.1	5	25	-1						6	16 PP
RAVENSBERG	24.95	302.3	5	26	-1							



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HUNGRY HORSE	89.07	36.9	11 53	-2	
SODANKYLA	130.28	347.7	18 2	-3	20 33 SKP
BULAWAYO	132.02	214.9			20 44
WINDHOEK	134.90	200.2			20 45
NURMIJARVI	136.60	343.7	18 7	-9	20 55 SKP
HELSENKI	136.81	343.2	18 7	-10	
UPPSALA	138.82	347.9	18 12	-8	
POTSDAM	146.72	347.3	18 36	2	
COLLMBERG	147.75	346.7	18 39	3	
MUNSTER	147.99	353.1	18 40	4	
JENA	148.39	348.1	18 41	4	
PRUHONICE	148.61	344.0	18 42K	5	
PLAUEN	148.69	347.1	18 39	2	
STUTTGART	150.88	349.7	18 47	7	18 57 PKP2
FOLINIÈRE	151.47	3.1	18 48	7	
LJUBLJANA	152.18	340.7	18 50A	8	
ISOLA	157.06	335.7	19 19	30	

FEBRUARY 22 O.H 54.M 33.S EPICENTRE -20.18-178.44 DEPTH= 598.KM

A=-0.93904 B=-0.02558 C=-0.34285 D=-0.0272 E= 0.9996  
G= 0.3427 H= 0.0093 K=-0.9394 HT= 4.6

DEPTH OF FOCUS= 0.089R

SE= 2.12

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
SUVA	3.58	303.7	1	24	1	2	32	3				
APIA	8.99	46.2	2	7	-2	3	45	-7				
RAOUL ISLAND	9.05	177.1	2	59	50	3	45	-8				
PORT VILA	12.76	278.8	2	32	-14	4	58	-1				
NOUMEA	14.25	258.8	3	1	1						4	31
KOUMAC	16.21	265.6	4	19	60	6	9	9				
KARAPIRO	18.45	195.2	3	42	2							
TUAI	18.95	190.7	3	44	-1	6	42	-4				
WELLINGTON	21.82	193.9	4	10	-1							
COBB RIVER	22.15	197.9	4	13	-1	7	38	-1				
GEBBIES PASS	24.61	195.6	4	34	-2	8	13	-5			10	38
BRISBANE	27.26	249.2	5	0	1	8	57	-2				
RIVERVIEW	30.19	236.9									14	54 SCS
CANBERRA	32.35	235.3	5	45A	2							
RABAUL	32.73	295.1									11	2
CHARTERS TS.	33.11	263.9	5	50	1	10	27	-2				
PORT MORESBY	34.88	282.8	6	5	1	10	55	0			11	10 SCP
ADELAIDE	40.42	239.5	6	50	1	12	17	0			15	49 SCS
GUAM	49.28	309.7	7	57	0						12	9 SCP
MUNDARING	59.09	244.2	9	5	-1							
BYRD STATION	65.03	170.5	9	44	0				11	55		
MATUSIRO	69.70	323.9	10	11K	-1						12	17
SOUTH POLE	69.95	180.0	10	14	0				12	18	10	29 PCP
HONG KONG	78.16	299.1	10	49	-10	20	47	41				
BERKELEY	78.22	42.2	11	1K	1							
LICK	78.29	42.9	11	1K	1							
PASADENA	78.77	47.2	11	3	0							
FRESNO	79.15	44.3	11	5	0							
SHASTA	79.85	39.8	11	9K	1							
RENO	80.75	42.0	11	14A	1							
ARGENTINE I.	81.43	157.1	11	17	1	20	42	3				
CORVALLIS	81.73	36.3	11	19A	1							
TUCSON	83.04	52.1	11	26	2							
TUCSON TELE.	83.17	52.1	11	27	2				13	34		
EUREKA	83.17	43.7	11	25	0							
MAGADAN	83.33	344.8	11	24	-2							
COLLEGE	87.98	12.6	11	46	-2	21	36	-5	13	57		
BUTTE	88.76	39.5	11	52	0							
HUNGRY HORSE I	89.13	37.0	11	53	-1							
YAKUTSK	91.64	338.2	12	3	-2							
PORT STANLEY	91.66	147.6	12	5	0							
ULAN-BATOR	94.96	319.4									21	58
LAWRENCE	97.35	51.3									22	1
PALISADES	113.73	53.2									29	24 PPS
QUETTA	120.68	293.7	17	47A	2						19	22 PP
APATITY	128.53	345.0	17	59	-1						20	25
SODANKYLA	130.20	347.6	17	59	-4						20	31 SKP





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1960										PAGE 141
TUBINGEN	12.67	322.9								5 58
STUTT GART	12.75	324.1	3	2	-4					5 11
STRASBOURG	13.33	320.4	3	23	9					
KSARA	13.36	107.7	3	17	3	5	57	13		
COLLMBERG	13.46	339.2	3	29	14					
JERUSALEM	13.93	116.3	3	17	-4	5	48	-10		
HALLE	13.94	337.2	3	21	0					3 35 PPP
DOURBES	15.90	319.8	3	55	8					
PARIS	16.30	313.1	3	44	-8					
UCCLE	16.47	321.4								7 32
FOLINIÈRE	18.02	309.9	4	16	2					
TIFLIS	18.69	73.7	4	28	6					
GOTEBORG	19.60	346.2	4	18	-15					4 44
MOSCOW	20.31	28.6	4	41	0	8	32	8		
TAMANRASSET	20.58	222.9	4	45	2					4 54 PP
UPPSALA	21.02	355.9	4	46	-2					
HELSINKI	21.44	6.1	4	53	1					
NURMIJARVI	21.75	5.5	4	54	-1	8	52	0		
PULKOVO	21.76	13.4	4	52	-3	8	42	-10		
DURHAM	21.76	323.9	5	13K	17					
RATHFARNHAM	23.32	316.8	5	36	25					
SKALSTUGAN	25.17	351.3	5	29	0					
SHIRAZ	27.88	99.6	5	54	0					
SODANKYLA	28.69	4.9	5	59	-2					
KIRUNA	28.95	359.9	6	2	-1					
APATITY	29.56	10.0	6	7	-2					
SVERDLOVSK	31.70	42.3	6	25	-3					
SHILLONG	60.38	79.8	10	6	-8					
HUNGRY HORSE	84.20	331.5	12	30	-5					

FEBRUARY 23 0.H 30.M 59.S EPICENTRE 39.03 20.58 DEPTH= 0.KM

A= 0.72923 B= 0.27374 C= 0.62713 D= 0.3514 E=-0.9362  
G= 0.5871 H= 0.2204 K=-0.7789 HT= -1.3

SE= 3.31

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ATHENS	2.68	112.2									0	47 P*
TARANTO	2.94	300.4	0	46	-2						1	46
REGGIO CALA.	3.97	258.0	1	9	6	1	51	0				
MESSINA	4.02	259.7	1	5	1	1	49	-3			1	19 PG
BELGRADE	5.79	359.1	1	28K	-1						3	21
TIMI SOARA	6.74	3.9	2	3	21	3	44	43			4	2 SG
BUCHAREST	6.79	35.7	1	44	1	3	3	1			3	29
ROME	6.81	297.5									3	10
ISTANBUL KA.	6.83	69.9	1	45	1						3	35 SG
CAMPULUNG	7.06	26.5	2	25	38						3	33
ZAGREB	7.59	334.9	2	10	16						3	40
LJUBLJANA	8.32	329.5	2	7	3	3	33	-7			4	45 SG
TRIESTE	8.32	324.8	2	9	5	3	37	-3			4	44 SGSG
PRATO	8.61	307.3	2	27	19	4	7	20				
HURBANOVO	9.01	349.7	2	54	40							
BRATISLAVA	9.48	345.7	2	18	-2	4	1	-8			5	1 SG
IASI	9.63	29.8	2	19	-4						4	32
CHIAVARI	9.94	305.7	3	44	77						7	5 PCP
KRAKOW	11.03	357.8	2	47	5						2	53 PP
RACIBORZ	11.18	352.1									2	53 PP
SIMFEROPOL	11.68	55.2	2	52	1							
PRUHONICE	11.76	340.6	2	51A	-1	5	12	7				
RAVENSBERG	11.82	321.3	2	51	-1						5	22
PRAGUE	11.87	340.4									4	17
EBINGEN	12.41	321.2	3	1	1							
CHEB	12.49	334.9									4	42
TUBINGEN	12.61	322.6	3	1	-2							
STUTT GART	12.68	323.8	3	0	-4						5	11
PLAUEN	12.92	335.3	3	7	0							
SONNEBERG	13.15	332.7									7	52
STRASBOURG	13.28	320.1	3	13	1						3	36
KSARA	13.37	108.2	3	16	3							
COLLMBERG	13.37	339.0	3	23	10						7	16
JENA	13.48	334.9	3	14	-1	5	46	0			4	59
HALLE	13.86	337.0	3	20	0	5	51	-4			3	27 PP
JERUSALEM	13.95	116.7	3	16	-5	5	47	-11				
POTSDAM	14.33	341.1	3	33	7							

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1960						PAGE 142	
DOURBES	15.84	319.5	3 50	4			4 2 PP
UCCLE	16.41	321.1	3 48	-5	6 44	-11	
ALICANTE	16.46	274.3	3 51	-2	6 52	-5	
FOLINIÈRE	17.98	309.6	4 14	1			
TIFLIS	18.64	74.0	4 26	5	7 56	10	
GOTEBORG	19.51	346.1	4 34	3			
MOSCOW	20.22	28.7	4 40	1	8 25	4	
MAKHACH-KALA	20.66	70.4			8 39	9	
TAMANRASSET	20.67	222.8	4 43	-1	8 38	8	
UPPSALA	20.93	355.8	4 43	-3			
HELSINKI	21.35	6.0	4 48	-2			
NURMI JARVI	21.66	5.5	4 52	-2	8 54	5	
PULKOVO	21.66	13.4	4 53	-1	8 53	4	
DURHAM	21.70	323.8	4 58A	4			
RATHFARNHAM	23.26	316.6	5 51	41			
SKALSTUGAN	25.08	351.2	5 25	-2			
SHIRAZ	27.87	99.8	5 33	-20			6 22
SODANKYLA	28.60	4.9	5 56	-3			
KIRUNA	28.86	359.9	6 0	-2			
APATITY	29.46	10.0	6 5	-2			
THULE	52.19	342.6	9 10	-4			
LAWRENCE	82.63	315.0	12 27	1			
RAPID CITY	82.95	322.9	12 25	-3			
HUNGRY HORSE	84.13	331.5	12 33	-1			

FEBRUARY 23 2.H 9.M 48.S EPICENTRE 36.54 71.03 DEPTH= 194.KM

A= 0.26176 B= 0.76159 C= 0.59285 D= 0.9457 E=-0.3250  
G= 0.1927 H= 0.5607 K=-0.8053 HT= -0.4

DEPTH OF FOCUS= 0.025R

SE= 2.11

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C		*PP		SUPP.	
			M	S		M	S	M	S	M	S		
KHOROG	1.02	23.0	0 31	1	0 51	-2							
KULYAB	1.70	323.3	0 37	1	1 4	0							
OBI-GARM	2.40	334.2	0 44	0	1 15	-2							
GARM	2.52	346.9	0 45	0	1 18	-1							
CHUIAN-GARON	2.57	325.4	0 46	1	1 19	-1							
WARSAK DAM	2.57	170.4	0 44K	-2	1 15	-5							
DZERGETAL	2.68	3.3	0 47	0	1 22	0							
STALINABAD	2.71	319.1	0 48	1	1 21	-2							
MURGAB	2.94	50.8	0 50	0	1 28	0							
FERGANA	3.87	8.5	1 2	1	1 46	-2							
ANDIJAN	4.33	13.6	1 7	0	1 57	-1							
NAMANGAN	4.46	6.2	1 7	-2	1 58	-3						1 16	
SAMARKAND	4.47	315.5	1 8	-1									
LUNACHARSKOE	4.96	345.0	1 13	-2								2 8	
TASHKENT	4.96	344.6	1 14	-1								1 58	
LAHORE	5.68	150.3	1 24	0	2 19	-11							
TCHIMKENT	5.85	349.5	1 26	-1	2 30	-4						2 25	
NARYN	6.23	36.9	1 33	2									
FRUNSE	6.86	22.7	1 39	-1	2 57	0						2 35	
BAIRAM-ALI	7.20	281.1	2 1	17									
QUETTA	7.21	209.4	1 44K	0	3 2	-3						2 30	*SP
FABRI CHNAYA	7.78	30.6	1 51	-1									
ALMATA	8.11	32.3	1 57	1	3 26	0						3 55	
PRZHEVALSK	8.22	41.6	1 58	1									
KURMENTY	8.52	38.6	2 0	-1									
ASHKABAD	10.21	281.7	2 22	-1								4 28	
KIZYL-ARVAT	1.96	287.2	2 44	-2	4 57	1						2 54	
KARACHI	12.17	197.5	2 46	-2	4 53	-8						3 33	*SP
SEMI PALATNSK	15.36	22.8	3 26	-2	6 16	3						4 19	
CHATRA	16.79	120.7	3 45	0	7 6	21							
SHIRAZ	16.95	251.4	3 47K	0								6 55	PP
SHILLONG	20.89	115.7	4 28	0	8 10	5							
TIFLIS	20.96	292.3	4 32	3								5 33	*SP
SVERDLOVSK	21.46	344.3	4 35	1	8 21	6						5 35	
CHITTAGONG	22.90	122.4	4 50	2	8 48	8							
ULAN-BATOR	28.64	55.3	5 40	-1									
KSARA	28.76	275.1	5 41	-1									
SIMFEROPOL	29.00	298.4	5 46	2					6 29			6 35	
MOSCOW	29.64	321.0	5 50	0	10 30	0			6 31			6 50	PP
JERUSALEM	29.90	271.4	5 53	1								8 52	PCP

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1960										PAGE 143	
PULKOVO	34.89	324.8	6 35	0						7 46	
ATHENS	37.37	286.8	6 55	-1				7 39			
HELSINKI	37.55	323.8	6 57	0							
APATITY	37.59	337.4	6 58	0	12 32	0					
NURMIJARVI	37.80	324.2	7 0	0	12 35	0		7 44		8 30	PP
KRAKOW	38.81	306.8	7 9	1				7 52		8 41	PP
SODANKYLA	39.71	334.9	7 15	0				7 59		8 51	PP
HONG KONG	39.84	98.7	7 18	2	12 46	-20				8 46	
RACIBORZ	39.93	306.9									
ADDIS ABABA	40.08	235.0	7 22	4							
BRATISLAVA	40.73	304.0	7 35	11				8 29			
UPPSALA	41.05	321.9	7 26	0						8 33	
KIRUNA	42.06	334.0	7 35	1							
PRUHONICE	42.28	306.9	7 38	2						9 18	PP
LJUBLJANA	42.70	301.1	7 43	3						8 30	
POTSDAM	43.09	310.5	7 43	0						10 30	
COLLMBERG	43.19	308.9	7 45	1						8 28	
COPENHAGEN	43.42	315.3	7 47	2							
GOTEBORG	43.74	318.2	7 49	1						8 33	
HALLE	43.83	309.3	7 49	0				8 33		8 56	*SP
YAKUTSK	43.93	35.5	7 48	-2	14 2	-4					
JENA	44.11	308.5	7 51	0						9 28	PP
ISOLA	44.15	293.6	8 25	34						9 46	PCP
SKALSTUGAN	44.18	326.7	7 50	-2						8 36	
STUTT GART	45.84	305.7	8 6	1						11 7	
EBINGEN	46.13	304.9	8 8	1						8 52	
STRASBOURG	46.85	305.6	8 23	10							
ISFJORD	47.92	346.3	8 20	-1							
PARIS	50.24	306.8	8 38	-1				9 24			
SETIF	51.88	290.5	8 50	-1						9 36	
FOLINIERE	52.16	307.4	8 53	0							
MATUSIRO	52.92	68.5	8 57A	-2						9 44	
NORD	53.76	349.5	9 4A	-1						10 6	
TAMANRASSET	57.57	275.7	9 30	-2						10 18	
BANGUI	57.67	249.2	9 53	20							
TANANARIVE	59.46	206.0	9 47	2							
THULE	64.42	350.2	10 16	-2				11 4			
BROKEN HILL	64.68	226.5								10 20	PCP
RESOLUTE	68.67	356.0	10 43	-2						11 32	
BULAWAYO	69.17	222.7								10 49	PCP
PRETORIA	73.96	219.7	11 18	2							
COLLEGE	74.44	16.1	11 18	-1				12 7			
PIETERMZBURG	76.08	215.7	11 28	0							
WINDHOEK	77.76	229.9	11 38	1							
KIMBERLEY	78.15	220.4	11 39A	-1							
MUNDARING	80.21	142.3	11 49	-2							
PORT MORESBY	84.58	105.8	12 12	-1							
CHARTERS TS.	90.54	114.6	12 41A	0						13 36	
SHAWINIGAN	91.12	335.9	12 44	0							
HUNGRY HORSE	95.36	3.4	13 4	0				13 54		16 55	PP
BYRD STATION	136.21	177.4	18 46	-13						22 11	SKP
LA PAZ	138.75	287.9	19 6	3							
HUANCAYO	141.16	300.2	19 12	4							

FEBRUARY 23 7.H 34.M 31.S EPICENTRE 38.99 20.57 DEPTH= 0.KM

A= 0.72968 B= 0.27378 C= 0.62659 D= 0.3513 E=-0.9363  
G= 0.5867 H= 0.2201 K=-0.7794 HT= -1.3

SE= 4.23

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
ATHENS	2.68	111.3	0	45K	0						1 26	SG
TARANTO	2.95	301.1	1	14	25	1	50	25			2 6	S*
REGGIO CALA.	3.96	258.6	1	3	0	1	49	-2			1 16	PG
MESSINA	4.01	260.3	1	4	0	1	48	-4			3 19	SS
BELGRADE	5.83	359.2	1	29A	0	2	41	3				
TIMI SOARA	6.78	3.9	1	52	9	3	5	3			2 22	PG
ROME	6.82	297.8	2	6	23							
BUCHAREST	6.83	35.6	1	47	4	3	0	-3			2 25	PG
I STANBUL KA.	6.85	69.6	1	41	-3						3 33	SG
CAMPULUNG	7.10	26.4	1	56	9	3	20	10				
ZAGREB	7.62	335.1	1	49	-6						3 37	
KECSKEMET	7.95	355.7	2	41	42	3	45	14				
FOCSANI	8.31	34.1	2	21	17						2 59	
LJUBLJANA	8.35	329.7	2	1	-4	3	37	-4			4 26	SG

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1960		PAGE 144							
TRIESTE	8.35	325.0	2	5	0	3	44	3	
BUDAPEST	8.56	352.9	2	13	5				3 50 SG
PRATO	8.63	307.5	2	12	3	4	9	21	
BOLOGNA	8.83	311.5	2	17	6				3 23
BACAU	8.89	29.5	2	19	7				3 14
HURBANOVO	9.04	349.8				3	56	-2	4 53 SG
BRATISLAVA	9.52	345.8	2	18	-3	3	58	-12	5 7 SG
IASI	9.67	29.7	1	55	-28				3 9
VIENNA-H.	9.74	343.2	2	10	-14	4	2	-13	3 0 PGPG
CHIAVARI	9.96	305.9	1	57	-30				2 11 PG
SKALNATE PL.	10.19	358.8	2	29	-1	4	21	-5	
PAVIA	10.48	309.8	2	45	11	4	55	21	
KRAKOW	11.07	357.9	2	41	-1				2 52 PP
LWOW	11.11	11.7	2	45	2	4	50	1	
RACIBORZ	11.22	352.1	2	45	1				2 49 PP
CHUR	11.27	317.8	2	43	-2				4 55 SS
DROPA	11.43	309.5	2	50	3	5	5	8	5 53
SIMFEROPOL	11.71	55.1	2	51	0	5	6	2	
PRUHONICE	11.79	340.7	2	48	-4				4 1
RAVENSBERG	11.85	321.4	2	49	-4	5	32	25	
PRAGUE	11.91	340.5	2	52	-2	5	46	38	
SETIF	12.35	261.7	3	3	3				3 14 PP
EBINGEN	12.44	321.4	2	59	-2	5	19	-2	
CHEB	12.52	335.0							5 49
TUBINGEN	12.64	322.7	2	59	-4				5 54
HELWAN	12.70	132.5	3	0	-4	5	47	19	
STUTTGART	12.71	323.9	3	0	-4	5	22	-6	7 17
BASLE	12.73	316.3	3	3A	-2				8 40 PCP
PLAUEN	12.95	335.4	3	17	9	5	39	5	4 4
SONNEBERG	13.18	332.8							7 17
WARSAW	13.25	1.2							3 32 PPP
STRASBOURG	13.30	320.3				5	46	4	5 4
KSARA	13.37	108.0	3	16	3	5	48	4	
COLLMBERG	13.41	339.1	3	25	11	6	7	22	7 27
BESANCON	13.46	312.5	3	17	3				
JENA	13.52	335.0	3	11	-4	5	47	0	3 45
HALLE	13.89	337.0	3	21	1	5	58	2	3 29 PP
JERUSALEM	13.94	116.6	3	17	-4	5	44	-13	
ALGIERS UNI.	14.01	266.4	3	21	-1				
POTSDAM	14.37	341.2	3	32	6	6	26	18	
CLERMONT-FD.	14.55	303.4	3	46	17				
SOTCHI	15.11	66.2	3	38	2				
BENSBERG	15.24	326.1	3	47	9				
MUNSTER	15.81	329.4	3	52	7				
DOUBES	15.87	319.6	3	46	0				4 2 PP
RELIZANE	16.24	264.7	3	55	4				4 7 PP
PARIS	16.28	313.0	3	54	3				
UCCLE	16.43	321.2	4	5	12	6	59	3	
ALICANTE	16.45	274.4	3	51	-2				
COPENHAGEN	17.56	344.6	4	7	0	7	29	7	
FOLINIÈRE	18.00	309.7	4	13	0				
TIFLIS	18.66	73.9	4	25	4	8	0	13	
TOLEDO	19.03	280.5	4	23	-2	7	52	-3	4 33 PP
KEW	19.21	317.3				8	9	10	
GOTEBORG	19.55	346.1	4	34	3				4 58
MOSCOW	20.26	28.7	4	36	-3	8	20	-2	
TAMANRASSET	20.63	222.8	4	42	-1	8	23	-7	5 2 PP
MAKHACH-KALA	20.68	70.3	4	52	8	8	38	7	
UPPSALA	20.97	355.9	4	42	-5				
HELSINKI	21.39	6.0	4	47	-4	8	49	5	
NURMI JARVI	21.70	5.5	4	51	-3	8	53	3	9 30 SS
PULKOVO	21.70	13.4	4	51	-3	8	41	-9	
DURHAM	21.73	323.8	4	55	1				5 27 PP
RATHFARNHAM	23.29	316.7	5	18	8				
ABERDEEN	23.48	328.2							10 57
SKALSTUGAN	25.12	351.3	5	24	-4				
SHIRAZ	27.87	99.8	5	52	-1	10	55	19	
SODANKYLA	28.64	4.9	5	56	-4				
KIRUNA	28.90	359.9	5	58	-4				
APATITY	29.50	10.0	6	7	-1	10	59	-3	
SVERDLOVSK	31.65	42.4	6	23	-4				
ADDIS ABABA	34.00	146.5	6	43	-4				
SCORESBY SD.	38.44	338.6	7	27	2				
NAMANGAN	38.75	70.3	7	25	-2				
QUETTA	38.84	88.6	7	25	-3	13	27	1	8 57 PP
ISFJORD	39.29	357.7	7	33	1				
KARACHI	41.47	95.8	7	53	3				
LWIRO	41.73	167.6	7	51	-1				

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1960					PAGE 145				
KHEYS	43.98	8.3	8	2	-8				
NORD	44.68	352.7	8	12	-4				
THULE	52.23	342.6	9	11	-3				
BULAWAYO	59.30	171.2	10	9	4				
HALIFAX	60.32	305.1	10	12A	0				
CHITTAGONG	62.04	83.0	10	20	-4	18	41	-7	12 37 PP
TANANARIVE	62.90	151.2	10	34	4				
SEVEN FALLS	63.59	310.3	10	32	-2				
YAKUTSK	64.41	29.6	10	41	1				
SHAWINIGAN	65.03	310.5	10	43	-1				
BREBEUF	66.08	309.9	10	51K	1				
OTTAWA	67.39	310.7	10	58	-1				
MORGANTOWN	73.25	307.5	12	37K	63				24 54 SS
COLLEGE	76.08	354.9	11	52	1				
SAN JUAN	76.16	282.5	11	55	4				
LAWRENCE	82.65	315.0	12	25	-1				
RAPID CITY	82.98	322.9	12	29	1				
FAYETTEVILLE	84.08	312.3	12	33	0				
HUNGRY HORSE	84.16	331.5	12	33	-1				
BOZEMAN	85.19	328.3	12	42	3				
MATUSIRO	85.40	45.7	12	38	-2				12 59
BUTTE	85.52	329.3	12	42	1				
EUREKA	92.35	327.8	13	19	6				
TUCSON TELE.	95.84	320.3	12	33	-56				
CHARTERS TS.	129.89	84.2	19	14	3				
CANBERRA	139.18	101.5	19	31	2				

FEBRUARY 23 7.H 47.M 51.S EPICENTRE 38.86 20.61 DEPTH= 0.KM

A= 0.73076 B= 0.27488 C= 0.62484 D= 0.3521 E=-0.9360  
G= 0.5848 H= 0.2200 K=-0.7807 HT= -1.3

SE= 4.34

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ATHENS	2.60	109.0	0	45K	1	1	18	1			0	49 PG
TARANTO	3.05	302.8	1	53	63						2	43
REGGIO CALA.	3.97	260.5	1	11	8						1	49
MESSINA	4.03	262.2	1	4	0	1	49	-4			1	16 PG
ISOLA	5.50	292.2									2	51 S*
BELGRADE	5.96	358.9	1	32K	0	3	19	38			2	26
ISTANBUL KA.	6.86	68.6	1	43	-1						3	51 SG
TIMISOARA	6.90	3.5	2	3	18	3	23	18			2	40 PG
BUCHAREST	6.91	34.7	1	48	3						2	12
ROME	6.91	298.6									3	56 SG
CAMPULUNG	7.20	25.7	1	57	8							
ZAGREB	7.75	335.2	2	5	8							
LJUBLJANA	8.48	329.9	2	3	-4	3	19	-25				
TRIESTE	8.48	325.4	2	5	-2	3	43	-1			4	43 SGSG
BUDAPEST	8.69	352.8	3	21	71							
PRATO	8.73	308.1	2	34	24	4	20	29				
HURBANOVO	9.18	349.8	2	9	-8	4	21	19				
IASI	9.76	29.1	1	15	-70						2	4
CHIAVARI	10.06	306.4	3	1	32	4	21	-3				
LWOW	11.23	11.4	2	48	3						5	56
CHUR	11.39	318.1	2	39	-8	4	40	-16				
SIMFEROPOL	11.75	54.5	2	57	5							
PRUMONICE	11.93	340.7	2	52	-2						5	24
RAVENSBURG	11.97	321.7	2	58	3							
SETIF	12.37	262.3	3	2	2							
EBINGEN	12.56	321.6	3	2	-1						6	21
HELWAN	12.59	132.2	2	57	-6	5	9	-16				
CHEB	12.66	335.1	2	57	-7							
TUBINGEN	12.76	323.0	3	6	1						6	28
STUTTGART	12.84	324.2	3	2	-4							
BASLE	12.85	316.6				5	0	-32			7	58
PLAUE	13.08	335.5	3	19	9							
KSARA	13.29	107.5	3	9	-3							
STRASBOURG	13.42	320.5	3	13	-1						2	44
COLLMBERG	13.54	339.2	3	22	6						6	34
JENA	13.65	335.1	3	15	-2	5	39	-12			6	23
JERUSALEM	13.85	116.2	3	11	-9	5	44	-12				
HALLE	14.02	337.1									3	31 PP
ALGIERS UNI.	14.04	266.9	3	21	-1							
POTSDAM	14.50	341.3	3	33	5							



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1960					PAGE 146				
MUNSTER	15.94	329.6	4 2	15					
DOURBES	15.99	319.8	3 50	2					
PARIS	16.39	313.2	3 56	3					
UCCLE	16.56	321.4			6 43	-16		4 9	PPP
FOLINIÈRE	18.11	310.0	4 16	2					
TIFLIS	18.66	73.5	4 26	5					
GOTEBORG	19.68	346.2	4 38	5					
MOSCOW	20.35	28.4	4 36	5					
TAMANRASSET	20.57	223.2	4 42	-1	8 12	-17		5 9	PP
MAKHACH-KALA	20.69	69.9	4 51	7	8 35	4			
UPPSALA	21.10	355.8	4 43	-5					
HELSINKI	21.51	5.9	4 48	-4					
PULKOVO	21.82	13.3	4 51	5					
NURMIJARVI	21.82	5.4	4 51	5	8 53	0		5 19	PP
DURHAM	21.85	324.0	4 58	2					
RATHFARNHAM	23.41	316.9	5 14	3					
SKALSTUGAN	25.25	351.3	5 25	-4					
SHIRAZ	27.81	99.6	5 57	4					
SODANKYLA	28.76	4.8	5 55	-6					
KIRUNA	29.02	359.9	6 3	-1					
APATITY	29.62	9.9	5 16	-53					
SVERDLOVSK	31.72	42.2	6 23	-5					
LWIRO	41.60	167.6	7 51A	0					
THULE	52.36	342.6	9 12	-4					
BULAWAYO	59.16	171.2	10 6	1					
HALIFAX	60.42	305.2	10 14	0					
TANANARIVE	62.77	151.2	10 31	2					
SEVEN FALLS	63.70	310.4	10 34	-1					
SHAWINIGAN	65.14	310.6	10 45	0					
BREBEUF	66.19	309.9	10 55	3					
OTTAWA	67.50	310.7	10 59	-1					
COLLEGE	76.21	354.9	11 57	5					
LAWRENCE	82.77	315.0	12 26	-1					
RAPID CITY	83.11	322.9	12 27	-2					
HUNGRY HORSE	84.29	331.5	12 33	-2					
MATUSIRO	85.46	45.7	12 43	2					
EUREKA	92.48	327.8	13 20	6					
CHARTERS TS.	129.87	84.3	19 17	5					

FEBRUARY 23 8.H 10.M 30.S EPICENTRE 23.60 121.68 DEPTH= 0.KM

A=-0.48171 B= 0.78068 C= 0.39812 D= 0.8510 E= 0.5251  
G=-0.2091 H= 0.3388 K=-0.9173 HT= 3.7

SE= 2.99

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
HWALIEN	0.37	352.0	0	14A	2	0	21	1				
HSINKONG	0.57	209.4	0	15	0	0	22	-3				
YUSHAN	0.68	259.8	0	16	0	0	25	-2				
TAITUNG	0.98	209.8	0	22	2	0	34	-1				
TAICHUNG	1.06	301.1	0	22K	0	0	36	-1				
ILAN	1.16	3.3	0	26	3	0	43	3				
HSINCHU	1.36	331.7	0	28	2	0	48	3				
TAIPEI	1.43	354.3	0	29	2	0	49	3				
TAWU	1.44	210.0	0	31	4	0	50	3				
TAINAN	1.47	246.2	0	30	3	0	58	11				
KAHSIUNG	1.62	233.2	0	33	3	0	52	1				
HENGCHUN	1.81	208.4	0	37	5	0	58	2				
PENGHU	1.95	268.3	0	59	25	1	30	30				
HONG KONG	7.04	260.9	1	44	-2	3	8	0				
BAGUIO CITY	7.22	188.4	1	49	0	3	9	-4				
ZO-SE	7.48	356.7	1	57	4							
CANTON	7.68	267.8	1	54	-1							
NANKING	8.81	343.7	2	18	7	4	11	19				
MANILA	8.90	183.7	2	12	0	3	52	-3				
WUHAN	9.37	319.0	2	15	-4							
SIAN	15.39	316.4	3	40	0							
PEKING	17.03	345.4	4	4	3	7	20	10				
CHENG TU	17.21	297.9	4	4	1	7	19	5				
KUNMING	17.32	278.9				7	27	11				
MATUSIRO	19.22	44.1	4	24	-4						7	16
PAOTOW	19.56	332.7	4	33	2							
LANCHOW	19.80	312.8	4	34	0	8	17	5				
CHANGCHUN	20.40	7.6	4	45	4	8	38	13				
VLADIVOSTOK	21.22	21.0	5	6	17						7	28

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1960					PAGE 147				
GUAM	24.05	1 0.7	5 18	1					
ULAN-BATOR	26.97	337.8	5 43	-2					
CHITTAGONG	27.49	273.4	5 49	0	10 28	-2		6 36	PP
MEDAN	29.83	231.6	6 1 K	1					
CHATRA	31.33	283.2	6 24	0					
RABAU	40.59	128.9	7 39	-3					
PORT MORESBY	41.19	139.9	7 48	1	13 59	-3	8 6	17 18	
ANDI JAN	44.50	304.7	8 14	0					
NAMANGAN	45.05	305.0	8 19	0				17 49	
TIKSI	48.23	3.1	8 40	-4					
QUETTA	48.86	290.2	8 47A	-2	15 50	-2		10 39	PP
KARACHI	49.56	283.2	8 52	-2					
CHARTERS TS.	49.60	149.1	8 53	-1				9 36	
SVERDLOVSK	54.78	323.9	9 31	-2					
SHIRAZ	61.31	292.0	10 16K	-3					
CANBERRA	64.07	155.3	10 36	-1					
MELBOURNE	64.91	159.8	10 41	-2					
TIFLIS	65.17	306.6	10 44	-1					
MOSCOW	67.53	322.5	10 57	-3					
APATITY	67.77	335.5	11 6	5					
COLLEGE	69.11	27.2	11 8	-2					
SODANKYLA	70.37	335.8	11 15	-2					
KIRUNA	72.52	337.0	11 34	4					
NURMIJARVI	73.11	329.1	11 32	-2					
UPPSALA	76.63	329.8	11 51	-3					
ISTANBUL KA.	76.76	309.1	11 51A	-3					
SKALSTUGAN	77.30	334.4	12 17	20					
RESOLUTE	79.17	9.3	12 3	-5					
KARAPIRO	79.39	139.5	12 19	10					
THULE	80.02	2.4	12 7	-5					
GOTEBORG	80.22	329.1	12 13	0					
PRUHONICE	82.55	321.5	12 24	-2					
COLLMBERG	82.79	323.2	12 23	-4					
TANANARIVE	83.73	246.4	12 33	1				13 2	
VICTORIA	87.68	37.1	12 52	1					
HUNGRY HORSE	92.76	33.5	13 14	-1					
EUREKA	97.34	41.2	13 43	7				17 38	PKP
TAMARASSET	102.71	301.9						18 4	PP
TRINIDAD	145.83	5.4						19 45	PKP2
HUANCAYO	160.17	57.5						20 43	PKP2
LA PAZ	168.39	54.3	20 10	2				21 22	PKP2

FEBRUARY 23 9.H 23.M 46.S EPICENTRE 35.63 140.08 DEPTH= 75.KM

A=-0.62485 B= 0.52277 C= 0.57990 D= 0.6417 E= 0.7670  
G=-0.4448 H= 0.3721 K=-0.8147 HT= -0.1

DEPTH OF FOCUS= 0.007R

SE= 2.22

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
HONGO	0.27	288.3	0	10A	-3	0	20	-3				
TOKYO C.M.O.	0.28	281.3	0	12A	-1	0	21	-2				
YOKOHAMA	0.40	241.2	0	15K	1	0	24	-1				
TUKUBASAN	0.59	1.3	0	14A	-2	0	23	-5				
YOKOHAMA	0.40	241.2	0	15K	1	0	24	-1				
TUKUBASAN	0.59	1.3	0	14A	-2	0	23	-5				
KAKI OKA	0.61	7.4	0	16A	0	0	24	-4				
TYOSI	0.63	81.2	0	15A	-1	0	23	-5				
MERA	0.73	196.5	0	15	-2	0	26	-4				
KUMAGAYA	0.77	312.7	0	16K	-1	0	28	-2				
MITO	0.82	22.5	0	17	-1	0	29	-2				
TITIBU	0.89	293.7	0	18	0	0	30	-2				
UTUNOMIYA	0.94	349.5	0	18	-1	0	30	-3				
AJIRO	0.99	234.7	0	19	0	0	31	-3				
OSIMA	1.03	214.2	0	18K	-2	0	30	-5				
MISIMA	1.05	241.7	0	18K	-2	0	31	-4				
HUNATU	1.08	263.7	0	19	-1	0	23	-13				
MAEBASI	1.13	313.5	0	20K	-1	0	36	-1				
KOHU	1.24	272.5	0	22K	0	0	38	-1				
OIWAKE	1.43	299.9	0	25	0	0	44	0				
ONAHAMA	1.48	26.3	0	26K	0	0	44	-1				
SHIRAKAWA	1.50	4.2	0	29	3							
SHIZUOKA	1.52	245.1	0	28	2	0	44	-2				

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1960							PAGE 148
MATUSIRO	1.77	301.6	0 29K	0	0 51	0	
MATUMOTO	1.82	290.6	0 31	1	0 54	1	
OMAESAKI	1.84	236.7	0 30	0	0 54	1	
IIDA	1.84	267.4	0 31	1	0 53	0	
NAGANO	1.85	304.9	0 31	1	0 52	-1	
TAKADA	2.09	315.4	0 34	0			
HAMAMATU	2.14	245.7	0 36	2			
HUKUSIMA	2.14	8.2	0 36	2	1 4	4	
TAKAYAMA	2.36	283.6	0 37	0			
NIIGATA	2.44	340.4	0 40	2	1 10	3	
HATIDYOZIMA	2.53	185.6	0 46	6	1 10	0	
TOYAMA	2.57	295.5	1 8	28			1 32
NAGOYA	2.58	260.8	0 40	-1	1 15	4	
YAMAGATA	2.63	4.6	0 42	1	1 15	3	
GIHU	2.71	266.2	0 42K	0	1 16	2	1 52
SENDAI	2.72	13.7	0 43A	1	1 12	-2	
AIKAWA	2.81	328.9	0 44K	0	1 16	-1	
KANAZAWA	2.92	289.0	1 54	69			
ISINOMAKI	2.97	19.1	0 45K	-1	1 20	-1	
KAMEYAMA	3.06	256.4	0 49	2	1 36	13	
TU	3.06	253.5	0 50	3	1 34	11	
HIKONE	3.15	264.6	0 48	0	1 31	6	
HUKUI	3.16	278.8	0 55	6			
TSURUGA	3.27	271.6	0 51	1	1 32	4	
MIZUSAWA	3.60	13.1	0 56	1	1 35	-1	
NARA	3.61	256.1	0 55	0	1 52	15	
KYOTO	3.61	261.6	0 55	0			2 20
ABUYAMA	3.77	259.8	0 56K	-1			
MAIZURU	3.83	269.0	0 59	1			
AKITA	4.09	0.2	1 30	29			
KOBE	4.13	258.2	2 1	59	3 6	77	
MORIOKA	4.16	11.6	1 2	0	1 50	0	
SIOMISAKI	4.17	239.9	1 2	-1	1 46	-5	
MIYAKO	4.29	19.9	1 4	0	1 44	-9	
TOYOOKA	4.29	270.2	1 14	10			
SUMOTO	4.44	254.7	1 6	0	2 19	22	
TOKUSIMA	4.78	252.6	1 10	-1			2 36
HIMEJI	4.79	258.1	1 11	0			
HATINOHE	5.03	12.7	1 10	-4	2 9	-3	
TAKAMATU	5.12	257.0	1 14	-2			
OKAYAMA	5.14	261.2	1 16	0			
YONAGO	5.49	269.9	2 48	87			
KOTI	5.79	250.9	1 20	-5	2 37	6	
HAKODATE	6.20	4.7	1 52	21			
MORI	6.48	3.2	2 2	28			
HAMADA	6.60	266.0	1 44	8	2 57	6	
URAKAWA	6.85	17.1	1 39	-1	2 53	-4	2 19
HIROO	7.11	19.8			2 52	-13	
SAPPORO	7.50	7.1	2 30	41			3 20
OBHIRO	7.67	17.4			3 12	-7	
KUSIRO	8.07	23.2	2 0	4	3 18	-9	
HUKUOKA	8.26	258.5	2 57	58			
VLADIVOSTOK	9.80	322.2	2 20	0			
YAKUTSK	27.21	349.3	5 36	-2			
CHITTAGONG	43.83	265.9	7 57	-3			
COLLEGE	50.85	31.6	8 56	1			
CHARTERS TS.	55.72	173.0	9 30	-1			
QUETTA	60.35	287.5	10 2	-1			
ISFJORD	62.20	349.1	10 15	-1			
BRISBANE	63.81	167.4	11 28	62			
RESOLUTE	64.23	14.0	10 28A	-1			
SODANKYLA	65.84	337.1	10 38	-1			
THULE	66.79	7.0	10 44	-1			
KIRUNA	67.45	339.1	10 48	-1			
NURMIJARVI	70.68	331.7	11 9	0			
HELSINKI	70.77	331.4	11 10	0			
MUNDARING	70.87	201.4	11 10	-1			
CANBERRA	71.07	172.3	11 10	-2			11 46
SKALSTUGAN	72.83	338.3	11 21	-1			
HUNGRY HORSE	73.55	42.0	11 28	2			11 52
UPPSALA	73.75	333.7	11 26	-1			
GOTEBORG	77.33	334.3	11 48	0			
EUREKA	77.57	50.3	11 51	2			
GOTEBORG	77.33	334.3	11 48	0			
EUREKA	77.57	50.3	11 51	2			
KARAPIRO	80.22	152.3	12 4	0			
STUTTGART	85.26	329.8	12 29	0			
TUCSON TELE.	85.30	53.3	12 32	2			

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TAMANRASSET 107.72 316.3  
 BYRD STATION 126.63 167.7 18 56 1  
 LA PAZ 148.47 60.1 19 34 0

18 40 PP

FEBRUARY 23 11.H 31.M 7.S EPICENTRE -19.17-177.67 DEPTH= 489.KM

A=-0.94442 B=-0.03848 C=-0.32648 D=-0.0407 E= 0.9992  
 G= 0.3262 H= 0.0133 K=-0.9452 HT= 4.9

DEPTH OF FOCUS= 0.072R

SE= 1.40

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
SUVA	3.84	284.8	1	19	2						2	23
AFIAMALU	7.70	48.0	1	52	-2	3	21	-4				
NOUMEA	15.18	255.4	3	11	-2	5	43	-5				
KOUMAC	17.04	262.3	3	35	4	6	32	10				
KARAPIRO	19.60	196.2	3	57	1						5	11
BRISBANE	28.30	247.7	5	12	-3	9	22	-4				
RABAU	32.99	293.0				10	37	-7			8	25 PCP
CANBERRA	33.52	234.5	5	59A	0						7	33 PP
CHARTERS TS.	33.95	262.3	6	2	-1	10	49	-5				
PORT MORESBY	35.39	280.9	6	16K	1	11	14	-1				
MELBOURNE	37.41	232.3	6	30A	-2							
ADELAIDE	41.56	238.6	7	5	0							
MUNDARING	60.18	243.6	8	21	-61							
BYRD STATION	65.89	170.7	9	58	0							
MATUSIRO	69.33	323.2	10	18K	-1							
SOUTH POLE	70.94	180.0	10	29	0				12	14	10	40 PCP
LEMBANG	73.38	268.4	10	43K	0							
PASADENA	77.56	47.0	11	6	0							
HONG KONG	78.32	298.6	11	10	0							
TUCSON	81.86	51.9	11	30	2							
EUREKA	81.95	43.5	11	29	0				13	31		
TUCSON TELE.	81.98	51.9	11	31	2				13	25		
ARGENTINE I.	82.06	157.0	11	30	1							
COLLEGE	86.85	12.3	11	52	-1				13	43		
BUTTE	87.53	39.2	11	57	1							
HUNGRY HORSE	87.89	36.7	11	57	-1							
RAPID CITY	92.52	44.0	12	19	0							
QUETTA	120.94	294.2	17	57	1						20	13
SCORESBY SD.	126.66	9.9	18	7A	0							
KIMBERLEY	127.65	205.1	18	10	1							
SODANKYLA	129.38	348.1	18	10	-3						20	49 SKP
KIRUNA	130.02	351.1	18	13	-1							
BULAWAYO	133.20	214.8	18	23A	3							
NURMI JARVI	135.75	344.4	18	19	-5						21	16 SKP
HELSINKI	135.96	343.9	18	22	-3							
UPPSALA	137.91	348.5	18	21	-7							
GOTEBORG	140.87	351.8	18	38	3							
ADDIS ABABA	143.32	259.2	18	39	0							
DURHAM	144.34	3.9	18	40A	0							
LWOW	144.84	335.4	18	41K	0							
RATHFARNHAM	145.29	9.1	18	51K	9							
KRAKOW	146.14	339.5	18	46	3							
LWIRO	146.38	233.6	18	47	4							
RACI BORZ	146.66	341.3	18	47	3							
KSARA	146.79	302.9	18	48	4							
COLLMBERG	146.85	347.7	18	47K	3							
HALLE	146.86	349.0	18	45	1							
MUNSTER	147.01	354.0	18	48	4							
JERUSALEM	147.90	299.5	18	51	5							
BENSBERG	148.05	354.2	18	50	4							
UCCLE	148.40	357.6	18	52	6							
DOURBES	149.09	357.2	18	53	6							
STUTTGART	149.95	350.8	18	50	1				21	0		
TUBINGEN	150.21	351.0	18	55	6							
STRASBOURG	150.34	352.7	18	56	7							
FOLINIERE	150.39	3.8	18	50	1							
PARIS	150.44	359.8	18	56	7							
EBINGEN	150.57	350.9	18	57	7							
LJUBLJANA	151.37	342.1	18	58K	7							
HELWAN	151.63	297.6	18	52	1							
BESANCON	151.84	354.7	19	0	9							
MONACO	155.15	351.2	19	9	13							

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ISOLA 156.32 337.7 19 6 8  
TAMANRASSET 175.34 320.9 19 14K 2 24 47 PP

FEBRUARY 23 16.H 4.M 52.S EPICENTRE -6.41 154.24 DEPTH= 0.KM

A=-0.89503 B= 0.43199 C=-0.11094 D= 0.4347 E= 0.9006  
G= 0.0999 H=-0.0482 K=-0.9938 HT= 6.9

SE= 3.10

	DELTA DEG.	AZ. DEG.	M	S	O-C S	M	S	O-C S	*PP M S	SUPP. M S
RABAUL	3.01	316.8	0	48	-2					
PORT MORESBY	7.62	246.6	1	55K	0					
CHARTERS TS.	15.65	208.9	3	43	-1	6	45	7		
KOUMAC	17.11	146.2	4	5	3					5 29
NOUMEA	19.71	144.5	4	33	-1	8	10	-1		
BRISBANE	20.91	183.6	4	46	-1	8	40	4		
GUAM	21.88	334.5	4	57	0					
RIVERVIEW	27.43	185.6	5	49A	-1	10	29	0	6 2	6 53 PP
CANBERRA	29.17	188.8	6	5	0	10	48	-9		12 38 SS
ADELAIDE	31.82	204.6	6	26	-3	13	15	96	6 42	9 17
MELBOURNE	32.39	193.8	6	33A	-1	11	47	-1		
AFIAMALU	34.24	105.3	6	45	-5					15 28 SS
KARAPIRO	36.86	151.4	7	12A	0					9 44
COBB RIVER	38.27	157.2	7	25	1					
TUAI	38.32	150.6	7	31	7					
MANILA	38.98	302.7	7	27	-3	13	23	-6		
WELLINGTON	39.25	155.3	7	35	3					
BAGUIO CITY	40.29	304.7	7	38	-3	13	46	-3		
GEBBIES PASS	40.51	159.3	7	43	0					
MUNDARING	43.63	229.4	8	6K	-2	14	31	-7		
PERTH	43.91	229.6				14	49	7		9 59 PCP
MATUSIRO	45.29	341.8	8	18	-4	14	51	-11		9 53 PP
LEMBANG	46.29	266.7	8	28	-1	15	18	1		
HONG KONG	48.51	307.3	8	46	-1	15	48	0		
ZO-SE	48.89	321.6	8	52	2	15	47	-7		
CANTON	49.57	307.6	9	0	5	16	2	-1		
NANKING	51.04	320.7	9	10	4	16	21	-2		
WUHAN	52.85	316.3	9	23	3	16	46	-2		
VLADIVOSTOK	53.31	339.7	9	25	2					
CHANGCHUN	56.43	335.2	9	45	-1	17	28	-8		
PEKING	58.01	326.1	10	1	4	17	54	-3		
SIAN	58.89	316.5	10	0	-3	18	4	-5		
KUNMING	59.07	304.2	10	10	5	18	11	0		
CHENG TU	60.55	310.5	10	19	4	18	27	-3		
LANCHOW	63.36	315.7	10	32	-2	19	4	-2		
MAGADAN	65.81	358.1	9	25	-85					
WILKES	66.96	197.6				19	47	-3		27 26 SSS
CHITTAGONG	67.42	297.3	11	3A	3	19	55	0		13 29 PP
ULAN-BATOR	68.23	327.8	10	2	-63					
IRKUTSK	72.20	330.4	11	23	-6					
CHATRA	72.77	300.5	11	40	8					
MADRAS	76.04	285.0	11	52	1					21 31
TIKSI	79.66	352.1	12	7	-4					
COLLEGE	82.82	21.4	12	22	-6					
BYRD STATION	83.07	169.9	12	28	-1					
SOUTH POLE	83.63	180.0	12	30	-2					13 2
ANDI JAN	88.01	311.2	12	53	-1	23	55	19		
NAMANGAN	88.57	311.3	12	56	0	23	20	-22		
BERKELEY	88.79	51.9	12	57	0					
SHASTA	89.13	49.1	13	0	1					
LICK	89.19	52.5	13	3K	4					
MINERAL	89.67	49.5	13	3K	1					
FRESNO	90.57	53.2	13	37	31					
QUETTA	90.84	300.1	13	4A	-3	24	0	-2		30 2 SS
RENO	90.92	50.5	13	12	5					
PASADENA	91.57	56.0	13	8	-2	23	50	-19		30 26 SS
EUREKA	93.87	50.9	13	17	-4					
RUTH	94.61	51.2	13	27	3					
HUNGRY HORSE	95.90	42.1	13	26	-4					
TUCSON TELE.	97.65	58.3	13	38	0					
THULE	106.31	9.6	18	18	777					
MOSCOW	110.08	327.4	19	9	35					
KSARA	117.03	304.7	18	47	0					20 1 PP
KIMBERLEY	120.10	231.6	18	52A	-1					
BULAWAYO	120.39	242.3	18	58	4					





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OIWAKE	46.27	340.6	8 30	1						
TAIPEI	46.30	315.0	8 32	3					9 55	
OOITA	46.35	331.6	8 30	1						
MATUMOTO	46.39	340.0	8 29	-1						
KUMAMOTO	46.46	330.4	8 31	1						
SHIRAKAWA	46.48	342.8	8 31	1						
TAKAYAMA	46.55	339.2	8 31	0						
MATUSIRO	46.57	340.4	8 30A	-1	15 13	-7			10 25	PP
NAGANO	46.70	340.5	8 32A	0					10 3	
NAGASAKI	46.79	329.6	8 34A	1	15 20	-3				
HUKUI	46.83	338.1	8 34	1						
TOYOOKA	46.91	336.4	8 34A	0					10 7	
HUKUSIMA	46.99	343.3	8 35A	0						
SAGA	47.00	330.4	8 35K	0						
TOYAMA	47.06	339.5	9 3A	28						
TAKADA	47.07	340.7	8 34	-1						
HUKUOKA	47.23	330.8	8 36A	0	15 27	-3			11 43	
SENDAI	47.36	344.0	8 37A	0	15 26	-5				
ISINOMAKI	47.39	344.5	8 38A	0	15 30	-2				
YAMAGATA	47.49	343.4	8 39	1						
HAMADA	47.53	333.3	8 39K	0	15 24	-10				
MATSUE	47.56	334.7	8 38	-1						
LEMBANG	47.83	267.3	8 39A	-2	15 33	-5				
AIKAWA	47.91	341.3	8 44	2						
SAIGO	48.10	335.4	8 44	1						
MIZUSAWA	48.10	344.6	8 43	0						
DJAKARTA	48.65	268.1	8 44A	-4					16 56	
HONG KONG	50.26	306.8	9 1A	1	16 23	11				
ZO-SE	50.52	320.8	9 2A	0	16 14	-2			10 19	PCP
URAKAWA	50.57	347.4	9 4	2						
HAKODATE	50.72	345.5	9 3	0					9 30	
MORI	51.04	345.4	9 9	3						
KUSIRO	51.04	349.2	9 6A	0	16 21	-2				
NEMURO	51.18	350.4	9 6	-1	16 3	-22			21 14	
OBHIRO	51.22	348.1	9 8	1						
TOMAKOMAI	51.30	346.5	9 8	0						
CANTON	51.32	307.2	9 9A	1	16 27	0	9 20		11 7	PP
SAPPORO	51.77	346.5	9 12	1					21 31	
SUTTSU	51.78	345.4	9 12	1						
NANKING	52.68	320.0	9 19A	1	16 46	1			10 27	PCP
HONOLULU	53.37	56.8	9 22	-1	17 1	6				
KIPAPA	53.49	56.7	9 24	0						
WUHAN	54.53	315.7	9 31A	-1	17 9	-1			9 45	*SP
VLADIVOSTOK	54.63	338.6	9 28	-5					17 29	PS
Y.-SAKHLINSK	55.26	349.1	9 36	-1					13 9	PPP
CHANGCHUN	57.84	334.3	9 55A	-1	17 50	-4			12 7	PP
MEDAN	58.03	278.8	9 55K	-2	17 47	-10				
PEKING	59.58	325.4	10 7A	-1	18 13	-4			10 21	*SP
PETROPAVLOVK	60.07	2.0	10 10	-1					18 32	
SIAN	60.57	316.0	10 12A	-2						
KUNMING	60.83	303.9	10 16A	0	18 34	1			10 30	*SP
CHENG TU	62.29	310.1	10 26A	0	18 48	-4			10 39	*SP
LANCHOW	65.05	315.2	10 44A	0	19 22	-4	10 55		11 1	*SP
PORT BLAIR	65.51	286.3	10 51	4	19 28	-4			11 23	PCP
CAPE HALLETT	65.61	175.2	10 55A	7	19 31	-2			13 39	PP
WILKES	66.67	198.2	10 56K	1	19 40	-6	11 5		13 24	PP
MAGADAN	66.69	357.2	10 53	-2					19 53	
TOCKLAI	68.08	302.5	11 10K	7						
CHITTAGONG	69.19	297.1	11 11A	1	20 16	0			13 46	PP
ULAN-BATOR	69.76	327.3	11 15	1	20 23	0				
SHILLONG	70.14	300.4	11 16	0	20 25	-2			13 51	PP
YAKUTSK	71.95	347.4	11 27	0					11 45	PCP
LHASA	72.16	304.2	11 29A	1	20 49	-1				
IRKUTSK	73.69	329.9	11 37	0					11 52	PCP
CHATRA	74.54	300.3	11 43	1	21 14	-3				
BOKARO	74.92	297.0	11 43A	-1	21 17	-5				
MADRAS	77.77	284.9	12 0	0					21 51	
KODAIKANAL	79.92	281.7	12 12	0						
HYDERABAD	80.22	289.0	12 12A	-2	22 12	-7			22 45	PS
KERGUELEN I.	81.80	221.2	12 21	-1			12 51		15 32	PP
BYRD STATION	81.99	169.9	12 21	-2	22 36	-1				
AGRA	82.53	298.5	12 24A	-2	22 37	-5				
SOUTH POLE	82.81	180.0	12 25	-2	22 48	3			13 41	
COLLEGE	83.01	21.0	12 26	-2	22 37	-10			38 37	PKPPKP
DEHRA DUN	83.18	301.7	12 31	2	22 46	-3			15 52	PP
POONA	84.73	289.4	12 36	-1	23 2	-2				
SITKA	84.79	30.8	12 37	0						
BOMBAY	85.75	289.6	12 40	-2	23 12	-2			16 6	PP

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SEMI PALATNSK	86.44	321.6	12 44	-2			23 31 SCS
LAHORE	86.55	302.2	12 48A	2			23 20 SKKS
UKIAH	87.55	50.2	12 50	-1			
BERKELEY	88.05	51.6	12 53	0			16 23 PP
LICK	88.44	52.2	12 55A	0			16 22 PP
FRUNSE	88.46	313.3	12 55	0	23 37	-5	
SHASTA	88.48	48.8	12 55	0			
CORVALLIS	88.57	44.9	12 58	2			
MINERAL	89.01	49.3	12 57	-1			
VICTORIA	89.28	41.0	12 57	-2			
FRESNO	89.80	53.0	13 1	-1			
RENO	90.23	50.3	13 3A	-1			16 38 PP
PASADENA	90.72	55.8	13 6	0	24 18	17	16 49 PP
KARACHI	91.90	294.6	13 10A	-1			23 58 SKKS
TASHKENT	92.13	311.2	13 10	-2			25 27 PS
STALINABAD	92.16	308.4	13 11	-2	24 0	-14	
QUETTA	92.62	299.9	13 14A	-1	24 14	-4	16 58 PP
EUREKA	93.16	50.8	13 17	0			30 26 PKKP
BOULDER CITY	93.67	54.4	13 42A	23			17 26 PP
RUTH	93.90	51.1	13 23	2			25 51
HUNGRY HORSE	95.44	42.1	13 26	-2			17 11 PP
BUTTE	96.26	44.5	13 30	-1			
SALT LAKE C.	96.43	49.8	13 31	-1			
TUCSON	96.63	58.4	13 35	2			17 16 PP
TUCSON TELE.	96.73	58.3	13 35	2			17 28 PP
KHEYS	98.36	350.5	13 38	-3			19 44 PPP
SVERDLOVSK	98.85	326.4	13 40	-3			24 31 SKKS
ASHKABAD	100.29	307.2					17 54 PSP
LARAMIE	101.18	49.4					17 48 PP
RESOLUTE	101.99	14.9	13 54	-3			27 13
RAPID CITY	102.88	46.5	14 1	0			18 14 PP
SHIRAZ	105.09	298.7	14 8K	777			17 23
TACUBAYA	106.46	72.0					18 34 PP
THULE	106.85	9.9	14 16	777			18 47 PP
APATITY	108.64	340.0	14 24	777	25 18	12	28 20 PS
LAWRENCE	109.22	51.3	17 54	777			
GORIS	109.60	309.3	14 29	777			19 5 PP
FAYETTEVILLE	110.37	54.3					19 8 PP
TIFLIS	110.45	311.8	14 36	777			19 16 PP
SODANKYLA	110.98	341.3	18 34	-1			19 20 PP
MOSCOW	111.61	327.6	14 38	777			19 18 PP
LITTLE ROCK	112.00	55.5	18 37	0		19 19	
KIRUNA	112.57	343.2	18 38	0			18 45
PULKOVO	113.54	333.3	14 44	777			19 32 PP
NURMI JARVI	115.58	335.6	18 44	0			19 48 PP
HELSINKI	115.65	335.2	18 43	-1			19 46 PP
SCORESBY SD.	116.81	359.2	18 46K	0			29 48 PS
SIMFEROPOL	117.28	317.2					19 59 PP
ADDIS ABABA	117.73	276.4	18 52	4			
COLUMBUS	118.35	48.4	19 11A	22			
UPPSALA	118.77	337.4	18 49	-1			20 13
KSARA	118.79	304.6	18 52	2	26 9	23	20 12 PP
PRETORIA	119.50	235.1	18 53	1			
JERUSALEM	119.72	302.4	18 53	1			20 10 PP
IASI	120.69	321.5	18 53K	-1			20 22
KIMBERLEY	120.81	230.5	18 54	0			
COLUMBIA	121.35	54.5	18 55	0			20 20 PP
BULAWAYO	121.40	241.2	18 57	2			
OTTAWA	121.57	40.4	18 54A	-2			
LWOW	121.57	325.5					18 56 PSP
HERMANUS	121.70	221.9					20 42 PP
PENNSYLVANIA	121.83	46.1					30 44 PS
ISTANBUL KA.	122.06	314.4	18 53	-4			
GOTEBORG	122.39	338.0	19 0	3			
CHAPEL HILL	122.44	51.9	18 57	0			20 32 PP
BUCHAREST	122.79	319.0					20 37 PP
BREBEUF	122.86	39.5	18 57K	-1			
SHAWINIGAN	122.92	38.1	18 57	-1			
WASHINGTON	123.04	47.9	18 58	0			
HELWAN	123.37	301.0	18 59	0			20 36 PP
BROKEN HILL	123.52	247.5	19 2	3			
KRAKOW	123.70	327.4	19 0	0			20 50 PP
SEVEN FALLS	123.81	36.7	18 59	-1			
SKALNATE PL.	124.01	326.3	19 0	0			
PALISADES	124.55	44.5	19 0	-1	26 22	18	20 44 PP
RACIBORZ	124.60	328.2	19 2	0			21 51
FORDHAM	124.63	44.7	19 0	-2			
HUANCAYO	125.65	110.3	19 6A	2			20 55 PP
POTSDAM	125.66	332.8	19 4	0			20 55 PP

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1960					PAGE 154				
WESTON	125.73	42.0	19 4	0					35 4 SS
BELGRADE	126.19	321.7	19 5A	0					26 25
BRATISLAVA	126.30	326.8	19 4A	-1					
LWIRO	126.31	261.9	19 6	1					38 9
COLLMBERG	126.42	331.9	19 5A	0					21 1 PP
PRUHONICE	126.53	329.8	19 5A	0					21 4 PP
PRAGUE	126.53	330.0	19 5	0					
HALLE	126.77	332.6	19 6	0					20 56 PP
ATHENS	127.04	312.7	18 52	-14					
JENA	127.33	332.3	19 5	-2					21 2 PP
PLAUEN	127.36	331.6	19 3	-4					21 3 PP
SONNEBERG	127.88	332.0	19 8	0					21 10 PP
WITTEVEEN	128.05	336.7	19 8	0					
ZAGREB	128.30	324.9	19 49	40					
MUNSTER	128.31	335.5	19 10	1					
CHINCHINA	128.82	89.4	19 10	0					21 18 PP
LJUBLJANA	128.98	325.9	19 10A	0					22 29
HALIFAX	129.41	35.9	19 11	0					
TRIESTE	129.65	325.9	19 10A	-1					21 23 PP
STUTTGART	129.90	331.6	19 5	-7					21 24 PP
WINDHOEK	129.90	232.6	19 13	1					
TUBINGEN	130.17	331.5	19 12	0					21 26 PP
BOGOTA	130.32	90.1	19 15	2	26 19	-2			22 35 SKP
RAVENSBURG	130.43	330.5	19 11	-2					
EBINGEN	130.46	331.3	19 9	-4					
UCCLE	130.53	336.5	19 13	0	26 23	2			
LA PAZ	130.53	118.8	19 15	2	28 25	124			21 28 PP
STRASBOURG	130.74	332.4	19 13	0					21 30 PP
DOURBES	130.98	335.8	19 14	0	26 22	0			
CHUR	131.11	329.6	19 15K	1					22 37 SKP
BASLE	131.58	331.5	19 13A	-2					21 34 PP
KEW	131.70	340.2	19 15	0					21 20 PP
BOLOGNA	131.71	326.2	19 35	20					23 7
RATHFARNHAM	131.82	345.7	19 55	40					
NEUCHATEL	132.26	331.4	19 10	-6					22 42 PKS
PAVIA	132.43	328.2	19 13	-3					32 4 PS
ISOLA	132.43	320.6	19 13	-4					
BESANCON	132.53	332.3	19 16	-1					19 44 PKP2
ROME	132.64	322.7	19 16A	-1			19 36		21 53 PP
MESSINA	132.71	316.7	19 16	-1					21 46 PP
OROPA	132.74	329.4	19 17	0					32 18 PS
PARIS	132.84	336.1	19 18K	1					21 51 PP
CHIAVARI	132.92	327.3	19 56	39					29 40
MONACO	134.32	327.9	19 20	0					
BERMUDA	134.83	50.8	19 19	-2					22 5 PP
CLERMONT-FD.	134.95	333.0	19 22	1					
BANGUI	137.34	268.6	19 48	22					
CARACAS	137.66	82.4	19 20	-6					22 6
SAN JUAN	137.73	70.7	19 27	1					22 13 PP
TORTOSA	139.97	330.5	20 16	46					
SETIF	140.49	321.1	19 23	-8					22 22 PP
ST. KITTS	141.09	71.4	19 33	1					
ALGIERS UNI.	141.53	323.8	19 27	-6					22 36 PP
ALICANTE	142.34	328.9	19 25	-9	26 41	-2			22 43 PP
GRENADA	142.69	79.7	19 27	-8					
TOLEDO	142.82	334.0	19 32K	-3					22 44 PP
ST. VINCENT	143.05	77.8	19 31	-5					
TRINIDAD	143.09	81.9	19 34	-2					
SERRA PILAR	143.51	340.1	19 5A	-31					
RELIZANE	143.69	324.9	19 33A	-4					22 44 PP
ALMERIA	144.50	329.3	19 35A	-3					22 52 PP
GRANADA	144.80	330.9	19 43A	4	26 55	9			23 1 PP
LISBON	145.84	338.8	19 43A	2					19 51 PKP2
TAMANRASSET	147.52	301.6	19 44A	1					23 12 PP
MBOUR	169.98	315.7	20 11A	2					25 14 PP

FEBRUARY 26 2.H 8.M 34.S EPICENTRE -1.33 138.24 DEPTH= 0.KM

A=-0.74571 B= 0.66587 C=-0.02306 D= 0.6661 E= 0.7459  
G= 0.0172 H=-0.0154 K=-0.9997 HT= 7.2

SE= 2.38

DELTA AZ. P O-C S O-C \*PP SUPP.  
DEG. DEG. M S S M S S M S M S

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1960		PAGE 155									
PORT MORESBY	11.95	132.4	2	56	2	5	14	4	3	16	PPP
RABAU	14.20	101.9	3	25	1	6	20	16	6	55	
GUAM	16.05	23.5	3	52	4						
CHARTERS TS.	20.23	157.7	4	37	-2	8	13	-9			
MANILA	23.26	313.7	5	11	1	9	25	6			
BAGUIO CITY	24.80	316.0	5	26	1	9	44	-1			
BRISBANE	29.43	153.0	6	7	0	11	17	16			
LEMBANG	31.01	259.0	6	23	2	11	33	7			
HONG KONG	33.21	316.4				11	55	-5			
ADELAIDE	33.47	179.3	6	42K	-1	12	3	-1	13	32	
RIVERVIEW	34.52	160.8	6	56A	4	12	25	4			
CANBERRA	35.27	164.7	6	56	-2	12	42	10	8	46	PPP
ZO-SE	36.10	334.7	6	39	-26						
MELBOURNE	36.85	171.1	7	11	0						
MUNDARING	36.89	212.1	7	9	-3				14	38	
PERTH	37.07	212.5	7	14	1	13	5	5			
MATUSIRO	37.68	360.0	7	17A	-1	12	46	-23	9	36	PCP
NANKING	37.98	332.6	7	22	1	13	12	-2			
WUHAN	38.89	326.5	7	28	-1	13	29	1			
MEDAN	39.84	277.2	7	36K	-1	13	42	0			
KUNMING	43.27	309.8	8	8	3	14	27	-6			
VLADIVOSTOK	44.61	353.4	8	10	-6						
PEKING	45.84	336.3	8	24	-1	15	4	-6			
CHANGCHUN	46.43	347.1	8	28	-2	15	13	-5			
LANCHOW	49.09	322.7	8	51	0						
KARAPIRO	49.99	141.3	8	56A	-2				9	30	
CHATEAU	50.77	142.6	9	3	-1						
AFIAMALU	50.97	106.8	9	1	-4						
CHITTAGONG	51.00	300.4	9	12	7						
TUAI	51.52	141.2	9	12	3						
GEBBIES PASS	52.12	148.7	9	33	19				10	18	
SHILLONG	52.18	304.2	9	13A	-1						
LHASA	54.55	308.4	9	33	1	17	10	-1	11	37	PP
CHATRA	56.56	303.6	9	44	-2						
IRKUTSK	60.55	336.8	10	14	0	18	31	2			
YAKUTSK	63.51	355.5	10	32	-2	19	4	-3			
KIPAPA	66.19	66.0	10	57	6						
POONA	66.25	290.8	10	51	-1						
BOMBAY	67.27	291.0	10	59	1				19	52	
WILKES	67.77	191.7	11	2	1	20	5	6			
WARSAK DAM	71.59	306.5	11	24	-1						
TIKSI	73.09	356.9	11	33	-1	20	56	-5			
CAPE HALLETT	73.67	170.3	11	41	4						
QUETTA	74.56	301.7	11	42	0	21	17	0	21	51	SCS
SVERDLOVSK	84.34	327.3	12	35	0						
COLLEGE	84.42	24.4	12	33	-2						
SOUTH POLE	88.68	180.0	12	54	-2				13	56	
BYRD STATION	90.82	170.2	13	6	0						
APATITY	96.86	338.0	13	48	14						
MOSCOW	97.07	325.9							17	36	
SHASTA	97.98	49.2	13	38	-1						
LICK	98.86	52.6	13	51A	8						
RESOLUTE	100.47	12.5	13	50	0	24	27	-2			
PASADENA	101.99	55.5				24	41	5			
HUNGRY HORSE	102.73	40.6	14	5	5						
EUREKA	103.01	49.9	14	4	2				18	12	PP
THULE	103.52	6.2	14	5	1						
LARAMIE	110.33	46.1	18	50	16				20	59	PP
SETIF	124.29	314.1	19	1	0				20	59	PP
BREBEUF	127.85	28.0	19	16	8						
TAMANRASSET	129.41	298.6	19	11	0				21	33	PP
BERMUDA	142.32	32.6							29	38	SKKS
HUANCAYO	144.11	112.7	19	40K	3						
LA PAZ	148.52	125.3	19	52	7						
SAN JUAN	150.70	53.2	19	54	6						
MBOUR	152.28	299.1	20	1	10				23	18	SS

FEBRUARY 26 6.H 32.M 36.S EPICENTRE -20.00-173.59 DEPTH= 0.KM

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SE= 2.41

DELTA	AZ.	P	O-C	S	O-C	*PP	SUPP.
DEG.	DEG.	M S	S	M S	S	M S	M S

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1960										PAGE 156
AFIAMALU	6.30	16.3	1 31K	-6	2 37	-13				
SUVA	7.76	282.4	2 4	7					5 59	
NOUMEA	18.75	259.5	4 22	-1	8 4	15				
ONERAHI	18.94	211.5	4 25	0						
KARAPIRO	20.21	205.6	4 36	-3						
TUAI	20.37	201.2	4 41	0	8 10	-15				
CHATEAU	21.31	203.8	4 47	-4					9 6	
WELLINGTON	23.41	202.5	5 14	3						
COBB RIVER	24.03	206.0	5 22	5	9 33	1			5 40	
KAIMATA	25.77	206.1	5 42	8						
GEBBIES PASS	26.29	202.9	5 40	1	10 15	5				
BRISBANE	31.59	250.1	6 21	-6	12 6	31				
RIVERVIEW	34.14	238.9			12 17	2				
CANBERRA	36.24	237.2	7 4A	-3					8 50	PPP
CHARTERS TS.	37.65	262.8	7 16A	-3	13 7	-2				
PORT MORESBY	39.31	279.7	7 31A	-1	13 10	-24			9 41	PCP
MELBOURNE	40.01	234.6	7 36K	-2						
KIPAPA	43.89	21.2	8 9	-1						
ADELAIDE	44.44	240.1	8 12	-2						
MUNDARING	63.26	243.6	10 31	-2						
BYRD STATION	64.47	171.0	10 39	-2						
SOUTH POLE	70.12	180.0	11 15	-1					11 48	PCP
MATUSIRO	72.34	320.9	11 30A	0					22 2	
MANILA	72.88	293.0	11 32	-1					15 0	PP
VINEYARD	74.92	41.1	11 46	1						
BERKELEY	75.10	39.7	11 45	-1					11 57	
LICK	75.13	40.5	11 46A	0					11 58	
PASADENA	75.37	44.9	11 47	0	21 31	4				
FRESNO	75.91	41.9	11 50	0						
SHASTA	76.87	37.5	12 8K	12						
MINERAL	77.10	38.2	11 57	0						
LEMBANG	77.19	267.3	11 57A	0	21 47	0				
RENO	77.64	39.7	12 1K	1						
TUCSON	79.39	50.0	12 11	2						
TUCSON TELE.	79.52	50.0	12 11	1						
EUREKA	79.95	41.6	12 12	-1						
VLADIVOSTOK	80.31	322.8	12 14	0	22 22	2				
HONG KONG	82.10	297.1	12 26	2					15 40	PP
NANKING	82.86	307.7	12 29	1	23 0	14				
CANTON	83.13	297.5	12 30	1	23 5	16				
SALT LAKE C.	83.28	42.3	12 31	1					13 2	
MAGADAN	84.44	342.7	12 36	0						
CHANGCHUN	84.59	320.5	12 38A	1	23 18	15			23 5	SKS
WUHAN	85.36	304.7	12 42A	2						
BUTTE	85.78	37.7	13 17	35						
HUNGRY HORSE	86.30	35.2	12 44	-1						
BOZEMAN	86.47	38.6	12 23	-23						
COLLEGE	86.89	10.7	12 48	0						
LARAMIE	87.61	44.4	12 36	-15						
PEKING	88.49	313.7	12 57A	1	23 58	17			23 34	SKS
MEDAN	89.07	274.1	13 0	2					17 6	
RAPID CITY	90.47	42.8	13 6	1						
SIAN	91.24	306.0	13 10	2						
KUNMING	92.84	295.6	13 17	1	24 36	16			23 58	SKS
YAKUTSK	93.22	336.7	13 15	-3						
FAYETTEVILLE	93.40	52.9	13 18A	0						
HUANCAYO	93.54	104.1	13 21	2						
LAWRENCE	93.72	49.9	13 20	0						
LANCHOW	95.78	306.1	13 31	2						
LA PAZ	98.31	110.9	13 47	6						
CHITTAGONG	101.43	289.7							18 3	PP
QUETTA	124.79	293.4	19 4	2						
SODANKYLA	130.92	349.8	19 14	0					22 33	SKP
BULAWAYO	134.57	209.9	19 11	-10						
MOSCOW	137.33	334.4	19 27	1						
NURMIJARVI	137.51	346.7	19 25	-1					23 6	PKS
DURHAM	144.76	8.0	19 40A	1						
RATHFARNHAM	145.35	13.4	19 41A	1						
SIMFEROPOL	146.16	323.6	19 44	3						
LWOW	147.10	338.8	19 46A	3					20 13	
POTSDAM	147.27	352.4	19 47	4						
MUNSTER	148.08	358.6	19 49	5						
COLLMBERG	148.34	352.1	19 50A	5					20 44	
RACIBORZ	148.55	345.4	19 51	6					20 41	
LWIRO	148.82	227.3	19 51K	5						
SKALNATE PL.	148.84	342.3	19 50K	4						
JENA	148.87	353.7	19 48	2					20 1	
BENSBERG	149.10	359.1	19 52	6					20 16	
UCCLE	149.22	2.5	19 43	-3					23 27	PP

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1960					PAGE 157
PLAUEN	149.24	352.8	19 48	2	20 9
PRUHONICE	149.39	349.7	19 52	5	
DOURBES	149.93	2.3	19 55	8	
KSARA	150.45	303.8	19 53	5	20 34
FOLINIÈRE	150.77	9.3	19 55	6	
STUTT GART	151.21	356.1	19 50	1	
STRASBOURG	151.47	358.1	19 58	8	20 15 PKP2
ISTANBUL KA.	151.48	322.4	19 57A	7	20 30
JERUSALEM	151.64	300.2	19 52	2	23 36 PP
BESANCON	152.82	0.6	19 57	5	
LJUBLJANA	153.18	347.4	19 54	2	20 20
TRIESTE	153.71	348.3			20 14 PKP2
HELWAN	155.40	298.4	19 54	-1	20 12
ALGIERS UNI.	163.04	9.3	20 5	1	
SETIF	163.84	2.9	20 6	1	21 0 PKP2
TAMANRASSET	177.11	16.5	20 14A	2	25 50 PP

FEBRUARY 26 23.H 29.M 24.S EPICENTRE 51.32-177.97 DEPTH= 0.KM

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G=-0.7781 H=-0.0276 K=-0.6275 HT= -5.9

SE= 1.78

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PETROPAVLOVK	14.43	285.9	3	28	0							
MAGADAN	19.38	307.3	4	31	1							
COLLEGE	20.65	37.5	4	43	-1	8	46	16				
SITKA	25.27	60.1	5	32	2							
Y.-SAKHLINSK	25.84	276.0	5	38	3	10	10	7				
YAKUTSK	29.83	311.4	6	10	-1	11	8	0				
TIKSI	30.94	330.4	6	20	-1							
TUKUBASAN	33.33	259.6	6	41A	-1	12	2	0			7	59 PP
ALBERNI	33.40	72.2	6	46	3	11	57	-7				
KIPAPA	33.67	145.0	6	44	-1							
HONOLULU	33.75	145.2	6	46	0	12	8	-1				
MATUSIRO	34.29	261.8	6	50A	0	12	15	-2			8	2 PP
VICTORIA	34.56	72.7	6	54	1							
CORVALLIS	36.49	78.6	7	12K	3							
ABUYAMA	37.01	262.0	7	15A	2							
ARCATA	38.00	84.3	7	16	-6							
BANFF	38.02	65.0	7	38K	16							
CHANGCHUN	38.14	281.6	7	23A	0	13	17	0	7	37	8	53 PP
SHASTA	39.16	83.4	7	33A	2							
UKIAH	39.55	86.0	7	37	2						9	49 PCP
RESOLUTE	39.58	24.5	7	34	-1	13	36	-2			9	10
MINERAL	39.85	83.3	7	37	0							
HUNGRY HORSE	40.19	68.2	7	41	1	13	47	0				
BERKELEY	40.91	86.8	7	46	0	13	57	-1				
RENO	41.44	83.0	7	52	2							
LICK	41.62	87.0	7	52	0							
VINEYARD	42.15	87.5	7	57	1							
BUTTE	42.23	70.5	7	57	0	14	17	-1				
FRESNO	43.13	86.3	8	4	0							
BOZEMAN	43.31	70.1	8	6	1	14	36	2			9	0
EUREKA	43.86	80.5	8	10	0							
KHEYS	44.72	348.9	8	17	0	14	54	0				
THULE	45.04	18.3	8	18	-1						10	1 PP
SALT LAKE C.	45.62	76.3	8	25	1						8	39
PASADENA	45.83	87.9	8	26	0	15	10	0			9	43 PCP
IRKUTSK	45.87	303.2	8	26	0							
PEKING	45.90	282.7	8	26A	0	15	12	1	9	39	18	18 SCS
BOULDER CITY	46.74	83.6	8	45	12	15	44	21				
NORD	46.94	3.7	8	35	1							
ZO-SE	48.52	269.8	8	46A	-1	15	49	1	9	0	10	42 PP
RAPID CITY	48.81	67.5	8	48	-1	15	54	2				
LARAMIE	49.08	71.9	8	51	0							
PAOTOW	49.29	287.1	8	54A	1	16	3	4				
NANKING	49.37	272.6	8	53A	0	16	1	1	9	6	18	44 SCS
TUCSON	51.68	84.4	9	11	0	16	32	0			11	12 PP
TUCSON TELE.	51.69	84.2	9	11	0							
WUHAN	53.06	274.3	9	20	-1	16	50	-1	9	34	11	30 PP
SIAN	54.04	281.7	9	28A	-1							
LANCHOW	55.93	286.7	9	43A	1	17	30	0				
LAWRENCE	56.66	67.8	9	44	-4							



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SCORESBY SD.	57.28	9.3	9	53K	1						
CANTON	59.10	268.9	9	59A	-6	18	2	-9	10	13	19 48 SCS
APATITY	59.12	346.5	10	4	-1	18	11	-1			18 33 PS
HONG KONG	59.15	267.7	10	5	0	18	16	4			12 14 PP
FAYETTEVILLE	59.22	69.6	10	3	-3	18	8	-5			
CHENGTU	59.51	282.0	10	7A	-1	18	16	-1	10	22	12 22 PP
BAGUIO CITY	59.56	257.9	10	5	-3	18	19	2			
FLORISSANT	59.57	64.9	10	7	-1	18	15	-2			
ST. LOUIS 1	59.76	64.9	10	7A	-2	18	16	-4			
SODANKYLA	60.19	349.3	10	12	0						10 59 PCP
KIRUNA	60.37	352.1	10	12	-1						14 58
MANILA	60.60	256.2	10	15	0	18	35	4			
LITTLE ROCK	61.21	69.5	10	18	-1	18	37	-1			
SVERDLOVSK	61.92	327.9	10	24	0	18	49	2			
OTTAWA	62.69	50.8	10	28	-1						
SHAWINIGAN	63.26	48.2	10	30	-3						
BREBEUF	63.63	49.5	10	34K	-1						
SEVEN FALLS	63.74	46.7	10	35	-1						
KUNMING	64.25	278.5	10	38A	-1	19	15	-2	10	52	
MORGANTOWN	64.72	57.7	10	43A	1						
PENNSYLVANIA	64.96	55.6	10	44	0	19	27	2			
SKALSTUGAN	65.16	355.0	10	44	-1						11 17
AFIAMALU	65.18	173.4	12	58K	133						14 28
WASHINGTON	66.77	56.5	10	57	1						
PALISADES	66.82	53.0	10	56	0	19	46	-2			12 24 PP
PULKOVO	66.92	344.9	10	56	-1						
FORDHAM	66.96	53.1	10	56	-1						
NURMI JARVI	67.04	348.1	10	57	0						11 26 PCP
WESTON	67.07	50.4	10	57	0						
HELSINKI	67.33	347.8	10	59	0						11 30 PCP
PORT MORESBY	67.57	217.6	10	36	-25	19	56	-1			
CHAPEL HILL	67.93	59.9	11	3	0						20 2
LHASA	68.06	290.2	11	5A	1	20	8	5	11	20	
TACUBAYA	68.13	86.0	11	2	-2	19	54	-10			
COLUMBIA	68.26	62.6	11	4	-1						
UPPSALA	68.47	351.6	11	5	-1						14 24
HALIFAX	68.89	44.2	11	9K	0						
NAMANGAN	69.92	310.9	11	14	-1						
SHILLONG	70.57	286.7	11	18	-1	20	36	4			
GOTEBORG	71.03	354.4	11	23	1						
CHATRA	72.42	290.9	11	32	2	20	55	1			
CHITTAGONG	73.00	284.5	11	35A	1	21	3	3			14 20 PP
COPENHAGEN	73.02	353.9	11	39	5						
DURHAM	74.24	2.2	11	36K	-5	21	8	-6			
DEHRA DUN	74.93	299.7	11	45	0	21	19	-3			13 56 PP
CALCUTTA	74.95	287.2	11	48	3	21	26	4			
WARSAK DAM	75.46	306.5	11	48A	0						
BOKARO	75.50	289.9	11	49	1	21	31	3			
RATHFARNHAM	75.52	5.1	11	47A	-1						
LAHORE	75.96	303.0	11	52	1	21	33	0			21 58 SCS
POTSDAM	76.25	353.1	11	52	0						
MUNSTER	76.97	356.5	11	57	1						12 38
HALLE	77.21	353.7	11	57	-1						12 13 PCP
COLLMBERG	77.33	353.0	11	57A	-1						12 13
AGRA	77.42	297.6	12	0A	1	21	46	-3			
LWOW	77.50	345.6	12	0	1						
KEW	77.56	1.5	11	59	-1						
CHARTERS TS.	77.72	214.2	11	59	-1	21	48	-5			
JENA	77.80	353.8	12	0	-1						14 57 PP
KRAKOW	77.86	348.3	12	2	1						12 17 PCP
BENSBERG	78.00	356.7	12	3	1						12 18
MAKHACH-KALA	78.12	327.7	12	3	0						
BERMUDA	78.17	52.6	12	2	-1	21	56	-1			27 4 SS
PLAUEN	78.20	353.4	12	1	-2						
UCCLE	78.24	358.5	12	4	1	21	55	-3			
PRUHONICE	78.51	351.8	12	6	1						15 4 PP
DOURBES	78.93	358.3	12	8	1						15 9 PP
IASI	79.43	342.6	12	11	1	22	17	6			12 35
VIENNA-H.	80.05	350.3	12	14	1						
BRATISLAVA	80.05	349.8	12	13A	0						12 6 PCP
STUTTGART	80.09	355.1	12	13	0	22	23	5			27 51 SS
TIFLIS	80.13	328.9	12	15	1	22	21	3			
BACAU	80.16	342.9	12	29	15						
SIMFEROPOL	80.17	337.5	12	15	1						
PARIS	80.25	359.7	12	14	0						12 22 PCP
FOLINIERE	80.26	1.7	12	15	1						
STRASBOURG	80.36	356.1	12	15	0						28 6 SS
BUDAPEST	80.50	348.4	12	11	-5						

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PORT BLAIR	80.57	276.8	12 19	3							22 44
EBINGEN	80.70	355.3	12 18	1							
QUETTA	80.84	307.4	12 18A	1	22 25	0					15 23 PP
RAVENSBURG	81.06	354.8	12 18	-1							
BASLE	81.41	356.2	12 19A	-1							16 11
BESANCON	81.75	357.3	12 23	1							12 36 PCP
NEUCHATEL	81.97	356.6	12 24	1							
BUCHAREST	82.38	342.9	12 26A	1	22 44	3	12 44				23 28 PS
LJUBLJANA	82.41	351.3	12 26	0							
BRISBANE	82.50	206.0	12 39	13	22 40	-3					
TRIESTE	82.88	351.7	12 30	2	22 53	7					
BELGRADE	82.92	346.9	12 30K	2							23 44
MEDAN	83.06	267.1	12 29	0							
CLERMONT-FD.	83.28	359.2	12 32	2							
HYDERABAD	84.77	291.3	12 34A	-4	23 11	6					16 7 PP
ISTANBUL KA.	85.01	339.8	12 38A	-1							14 56 PP
KARACHI	85.17	304.3	12 40	0							
MONACO	85.21	356.1	12 41	1							12 55 PCP
LEMBANG	85.67	253.6	12 38	-4	23 1	-13					
POONA	86.55	295.4	12 48	2	23 21	-1					
ROME	86.71	352.2	11 48A	-59	23 26	2	13 2				16 20 PP
BOMBAY	86.83	296.4	12 49	1	23 22	-3					
MADRAS	87.22	287.2									29 32 SS
ISOLA	87.72	351.0	12 39	-13							15 58 PP
SAN JUAN	88.73	61.8	12 58	1							16 18 PP
TOLEDO	89.02	4.7	12 59K	1	23 40	-6					30 4
RIVERVIEW	89.04	205.3	13 3K	5	23 47	1					
KARAPIRO	89.06	185.1	12 56	-2							16 29 PP
ATHENS	89.07	343.0	12 57	-2							
MESSINA	90.07	349.4	13 0	-3	23 54	-1					25 0 PS
KSARA	90.14	332.4	13 3	-1	23 57	1					16 41 PP
KODAIKANAL	91.02	287.7			23 57	-7					
CANBERRA	91.03	206.5	13 10A	2							13 22
ST. KITTS	91.43	59.8	13 12	3							
GRANADA	91.73	4.5	13 13K	2	24 23	13					16 59 PP
ALMERIA	92.11	3.6	13 10	-3	24 5	-8					13 27
COLOMBO	92.20	283.8			24 6	-8					
JERUSALEM	92.24	332.2	13 14	1							16 19 PP
ALGIERS UNI.	92.28	359.2	13 13	0							25 38 PS
SETIF	92.80	357.3	13 15	-1	23 53	-26					
RELIZANE	93.29	1.2	13 25	7							13 34
CARACAS	94.62	67.1	13 22	-2	23 51	-44					
BOGOTA	95.05	76.3	13 36	10	23 51	-11					26 36 PPS
HELWAN	95.13	334.7	13 27	0	24 0	-2					
TAMANRASSET	106.16	356.6	14 17	777	25 7	11					18 32 PP
LA PAZ	115.09	85.2									19 54 PP
LWIRO	126.17	326.1	19 7	2							32 43
BYRD STATION	135.19	167.8	19 15	-7							22 50 SKP
BROKEN HILL	137.51	320.3	19 22	-4							
SOUTH POLE	141.13	180.0	19 29	-4							21 27
BULAWAYO	142.54	316.3	19 35	0							
PORT STANLEY	143.64	114.7	19 39	2							
ARGENTINE I.	144.34	138.6	19 36	-2							
WINDHOEK	149.00	332.2	19 46	0							
PIETERMZBURG	149.73	304.8	19 54A	7							
KIMBERLEY	151.73	314.2	19 58A	8							
GRAHAMSTOWN	154.64	305.7									20 19 PKP2

FEBRUARY 27 8.H 10.M 4.S EPICENTRE 51.53-177.96 DEPTH= 0.KM

A=-0.62432 B=-0.02223 C= 0.78085 D=-0.0356 E= 0.9994  
G=-0.7804 H=-0.0278 K=-0.6247 HT= -6.0

SE= 2.64

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PETROPAVLOVK	14.39	285.1	3	28	1	6	15	7				
MAGADAN	19.26	306.8	4	31	3							
COLLEGE	20.48	37.8	4	43	1	8	46	19				
SITKA	25.17	60.5	5	32	4							
Y.-SAKHLINSK	25.82	275.6	5	36	2	10	6	3				
YAKUTSK	29.70	311.1	6	10	0							
TIKSI	30.76	330.3	6	18	-1							
TUKUBASAN	33.38	259.2	6	39A	-3	12	0	-2				13 57 SS
KIPAPA	33.83	145.2	6	42	-4							

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1960		PAGE 160									
HONOLULU	33.91	145.4	6 42	-5							
MATU IRO	34.33	261.5	6 48A	-2	12 15	-3				7 58	PP
VLADIVOSTOK	34.41	276.0	6 52	1	12 20	1					
CORVALLIS	36.44	78.9	7 9	1							
ABUYAMA	37.04	261.7	7 45A	32							
BANFF	37.93	65.2	7 19	-2							
CHANGCHUN	38.10	281.3	7 22	0	13 16	0	7 37			8 54	PP
SHASTA	39.13	83.6	7 31	0							
RESOLUTE	39.39	24.6	7 34	1						9 41	
MINERAL	39.82	83.5	7 36	0							
HUNGRY HORSE	40.11	68.5	7 42	3							
BERKELEY	40.89	87.1	7 46	1	14 0	2					
RENO	41.41	83.3	7 55	5							
LICK	41.61	87.2	7 50	-1						8 21	
VINEYARD	42.14	87.7	7 59	3							
FRESNO	43.11	86.5	8 6	3							
BOZEMAN	43.24	70.3	8 6	1							
EUREKA	43.82	80.7	8 8	-1							
KHEYS	44.52	348.8	8 15	0							
THULE	44.84	18.4	8 13	-4							
SALT LAKE C.	45.57	76.5	8 26	3							
IRKUTSK	45.76	303.1	8 24	-1	15 8	-1					
PASADENA	45.81	88.1	8 24	-1	15 8	-1	8 51				
PEKING	45.86	282.5	8 24	-2	15 8	-2					
ULAN-BATOR	46.72	296.7	8 32	0							
NORD	46.74	3.7	8 32	0							
ZO-SE	48.52	269.6	8 46	-1	15 50	2	9 1				
RAPID CITY	48.73	67.7	8 47	-1	15 51	0					
LARAMIE	49.01	72.0	8 49	-1							
PAOTOW	49.24	287.0	8 51	-1	16 3	5					
NANKING	49.37	272.4	8 52	-1	15 59	-1	9 6	18 41	SCS		
TUCSON	51.66	84.5	9 9	-1							
TUCSON TELE.	51.66	84.4	9 9	-2							
WUHAN	53.05	274.1	9 19	-2	16 50	0	9 35	19 7	SCS		
SIAN	54.01	281.6	9 25	-3							
LANCHOW	55.88	286.6	9 40	-2	17 27	-1					
LAWRENCE	56.57	67.9	9 46	-1							
SCORESBY SD.	57.07	9.4	9 51	1							
APATITY	58.71	346.6	10 2	0							
CANTON	59.11	268.8	10 3	-1	18 9	-2					
FAYETTEVILLE	59.15	69.7	10 3A	-2							
HONG KONG	59.17	267.5	10 3	-2	18 13	1					
CHENG TU	59.48	281.9	10 5	-2	18 15	-1	10 20	12 20	PP		
FLORISSANT	59.48	65.0	10 5	-2	18 12	-4					
ST. LOUIS 1	59.67	65.0	10 7	-1	18 17	-1					
SODANKYLA	59.99	349.3	10 9	-1							
KIRUNA	60.17	352.1	10 12	0							
MANILA	60.66	256.1	10 15	0							
LITTLE ROCK	61.14	69.6	10 18	0	18 35	-2					
SVERDLOVSK	61.75	327.8	10 22	0							
OTTAWA	62.56	50.9	10 26	-2							
SHAWINIGAN	63.12	48.3	10 32K	0							
BREBEUF	63.50	49.6	10 31	-3							
SEVEN FALLS	63.59	46.8	10 32	-3							
KUNMING	64.23	278.4	10 39	0	19 16	0	10 54				
MORGANTOWN	64.61	57.8	10 42K	1							
SKALSTUGAN	64.95	355.0	10 44	0						11 5	
PALISADES	66.69	53.1	10 52	-3	19 48	2	1 10	25 0	SS		
PULKOVO	66.73	344.9	10 56	1	19 56	10					
NURMI JARVI	66.84	348.1	10 55	-1						11 24	PCP
FRUNSE	66.96	310.3	10 55	-1							
HELSINKI	67.13	347.8	10 58	0							
PORT MORESBY	67.73	217.6	11 7	6	19 52	-7					
CHAPEL HILL	67.82	60.0	11 0	-2							
LHASA	67.99	290.1	11 3	0	20 4	2	11 18				
COLUMBIA	68.16	62.7	11 3	-1							
UPPSALA	68.27	351.6	11 2	-3							
HALIFAX	68.74	44.3	11 8	0							
MOSCOW	69.11	339.4	11 8	-2							
ANDI JAN	69.64	310.3	11 14	1							
SHILLONG	70.52	286.7	11 17	-1	20 32	0					
CHATRA	72.35	290.9	11 29	0	20 58	5					
CHITTAGONG	72.95	284.5	11 34	1	21 2	2				14 19	PP
NOUMEA	74.77	194.9	11 53	9						12 11	
DEHRA DUN	74.83	299.6	11 54	10	21 23	2					
RATHFARNHAM	75.31	5.2	11 48A	1						13 32	
WARSAK DAM	75.35	306.4	11 45	-2							
POTSDAM	76.05	353.1	11 52	1							

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MUNSTER	76.77	356.5	12	0	5						
HALLE	77.01	353.7	11	57	1						12 13 PCP
COLLMBERG	77.13	353.0	11	58	1						
LWOW	77.31	345.6	11	58	0						
AGRA	77.33	297.6	11	58A	0	21	45	-3			
JENA	77.60	353.8	11	59	0						13 23
BENSBERG	77.80	356.7	12	32	31						
CHARTERS TS.	77.89	214.2	11	58	-3						
MAKHACH-KALA	77.95	327.7	11	59	-2						
PLAUEN	78.00	353.4	12	0	-2						
UCCLE	78.03	358.5	12	2	0	21	53	-3			
BERMUDA	78.04	52.6	12	2	0	21	56	0			
PRUHONICE	78.31	351.8	12	3A	0						12 18 *SP
SKALNATE PL.	78.47	347.9	12	5	1						
DOURBES	78.73	358.3	12	6	0						
IASI	79.24	342.6	12	10	2						12 30
SOTCHI	79.80	333.2	12	7	-4						
VIENNA-H.	79.85	350.3	12	13	1						
BRATISLAVA	79.85	349.8	11	59	-13						12 15 PCP
STUTTART	79.89	355.1	12	11	-1						12 59
TIFLIS	79.96	328.9	12	13	1						
SIMFEROPOL	79.98	337.5	12	13	1						
PARIS	80.04	359.7	12	15	2						
FOLINIÈRE	80.06	1.7	12	12	-1						
STRASBOURG	80.15	356.1	12	14	1						12 45
EBINGEN	80.50	355.3	12	18	3						
QUETTA	80.72	307.4	12	16A	0	22	22	-2			15 22 PP
CAMPULUNG	81.56	343.8	12	26	5						
BUCHAREST	82.19	342.8	12	24	0						12 52
BRISBANE	82.69	206.0	12	38	11	22	42	-2			
CLERMONT-FD.	83.08	359.2	12	33	4						
HYDERABAD	84.70	291.3				23	1	-3			
ISTANBUL KA.	84.82	339.8	12	35	-2						
KARACHI	85.06	304.3	12	38	-1						
POONA	86.47	295.4	12	45	-1	23	23	2			
BOMBAY	86.75	296.4	12	47	0	23	23	-1			
ISOLA	87.52	351.0	12	37	-14						
SHIRAZ	87.81	317.8	12	57	5						
SAN JUAN	88.62	61.8	12	57	1						
RIVERVIEW	89.22	205.3	13	7A	8	23	45	-2			
KARAPIRO	89.26	185.1	12	57	-2						13 9 PCP
KSARA	89.96	332.4	13	3	1						
CHATEAU	90.53	185.0	13	32	27						
CANBERRA	91.21	206.5	13	9	1						
JERUSALEM	92.07	332.2	13	13	1						
ALGIERS UNI.	92.07	359.2	13	12	0						
SETIF	92.60	357.3	13	16	1						
CARACAS	94.54	67.1	13	20	-3	23	48	-46			
TAMANRASSET	105.96	356.7									18 40 PP
LA PAZ	115.07	85.1									19 54 PP
LWIRO	126.00	326.2									21 0
BYRD STATION	135.39	167.8	19	20	-2						22 50 SKP
SOUTH POLE	141.34	180.0	19	38	5						
PORT STANLEY	143.72	114.5	19	44	7						
ARGENTINE I.	144.48	138.4	19	32	-6						
PRETORIA	147.47	312.4	19	17	-26						
KIMBERLEY	151.59	314.5	19	32	-18						19 55

FEBRUARY 27 8.H 55.M 56.S EPICENTRE -30.18-179.47 DEPTH= 0.KM

A=-0.86591 B=-0.00795 C=-0.50014 D=-0.0092 E= 1.0000  
G= 0.5001 H= 0.0046 K=-0.8659 HT= 1.8

SE= 3.83

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
RAOUL ISLAND	1.64	56.0	0	57	27							
ONERAHI	7.60	221.2	1	55	0	3	23	0				
KARAPIRO	8.77	206.8	2	13K	2						4	36
TUAI	9.04	197.0	2	16	1						4	20
CHATEAU	9.89	203.2	2	26	0							
WELLINGTON	12.02	201.3	2	55	-1	6	21	69				
SUVA	12.12	350.5	2	59	2	4	49	-25				
NOUMEA	14.86	298.6	3	31	-2	6	33	14				
KOUMAC	17.51	299.4	4	2	-5	13	51	390				
BRISBANE	24.45	269.6	5	21	0	9	39	-1				

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RIVERVIEW	25.14	254.0	5 33A	5	9 52	1				6 4 PP
CANBERRA	26.94	250.7	5 47	2						
FORT NELSON	29.34	235.1	6 54	48	11 14	14				
MELBOURNE	30.31	245.8	6 16	1						
CHARTERS TS.	32.50	279.9	6 32	-2	11 58	9				
ADELAIDE	35.37	251.1	7 3	4	12 48	14				9 34 PCP
PORT MORESBY	37.37	296.6	7 21	5						8 30
CAPE HALLETT	42.55	184.6			14 30	8				
MUNDARING	54.37	250.4	9 29	-2						15 27
WILKES	54.75	207.7			17 8	-5				
BYRD STATION	55.38	169.4	9 36	-2	17 28	6				10 23 PCP
SOUTH POLE	59.99	180.0	10 9	-2						10 47 PCP
LEMBANG	71.83	272.6	10 54A	-32						
MANILA	72.53	299.1	11 30	-1						
ARGENTINE I.	72.64	156.5	11 28	-3						
MATUSIRO	77.34	326.2	11 54	-4						
PORT STANLEY	83.74	147.8	12 30	-2						
Y. -SAKHLINSK	84.07	335.1	12 43	9						
MEDAN	84.75	277.2	12 28	-9						16 24
BERKELEY	86.25	41.8	12 49	4	23 23	4				
LICK	86.25	42.5	12 43	-2						
PASADENA	86.25	46.8	12 50	5	24 22	63				23 22 SKS
FRESNO	86.96	44.0	12 13	-35						
SHASTA	88.12	39.7	12 59	5						
MINERAL	88.32	40.4	12 48	-7						
RENO	88.79	41.9	13 2	5						
TUCSON	89.91	52.1	13 1	-1						
TUCSON TELE.	90.04	52.1	13 1	-2						
EUREKA	91.02	43.8	13 5	-2						
COLLEGE	97.90	13.1	13 35	-4						
YAKUTSK	100.54	338.2								17 50 PP
ULAN-BATOR	101.88	318.7								19 4
TIKSI	107.70	344.9								21 40
KIMBERLEY	117.00	203.9								21 19 PP
BULAWAYO	123.14	211.9								21 2 PP
QUETTA	123.37	288.1	19 12	13						
BROKEN HILL	128.10	215.2								21 4 PP
SVERDLOVSK	130.92	320.9								20 54 PP
APATITY	137.82	341.9								22 23
MOSCOW	143.43	325.1	19 39	3						
PULKOVO	144.26	334.5	19 41	3						
NURMI JARVI	145.65	339.0	19 39	-1						
SKALSTUGAN	145.75	350.7	19 41	1						
HELSINKI	145.82	338.4	19 46	5						
SOTCHI	146.23	304.3	19 52	11						
UPPSALA	148.16	343.7	19 45	1						
BANGUI	149.17	217.2	20 36	50						22 58
SIMFEROPOL	149.81	308.6	19 59	12						
KSARA	149.89	286.2	20 3	16						23 46 PP
JERUSALEM	150.28	282.1	20 0	12						
IASI	153.09	316.8	20 19	27						
LNOW	153.56	324.5	20 23	30						22 21
BUCHAREST	155.31	312.2	20 36	41						
SKALNATE PL.	155.82	327.3	19 59	3						
COLLMBERG	156.94	339.7	20 33	36						
HALLE	157.07	341.5	20 24	27						24 18 PP
PRUMONICE	157.57	335.8	20 22	24						
JENA	157.68	341.4	20 37	39						
PLAUE	157.91	340.0	20 38	40						
BRATISLAVA	157.99	329.4	19 49	-9						
VIENNA-H.	158.25	330.5	20 40	41						
UCCLE	159.20	353.2	19 59	-1						
STUTTGART	160.27	342.7	20 48	47						
LJUBLJANA	160.75	329.3	20 52	51						
TAMANRASSET	171.38	212.4	20 17	7						25 41 PP
SETIF	172.74	327.1	20 19	8						25 38 PP
ALMERIA	172.89	19.8	20 18	7						21 57 PKP2
ALGIERS UNI.	173.10	342.9	21 47	96						25 40 PP
RELIZANE	174.44	359.8	20 10	-1						21 37 PKP2

FEBRUARY 28 23.H 5.M 44.S EPICENTRE -3.05 142.62 DEPTH= 0.KM

A=-0.79349 B= 0.60628 C=-0.05283 D= 0.6071 E= 0.7946  
G= 0.0420 H=-0.0321 K=-0.9986 HT= 7.1

SE= 3.02

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	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PORT MORESBY	7.75	144.7	1	55	-2							
RABAU	9.60	97.1	2	24	2						3	37
GUAM	16.54	7.3	3	51	-4							
CHARTERS TS.	17.31	168.4	4	6	2							
BRISBANE	26.08	159.1	5	36	-1	11	34	87				
MANILA	27.66	310.1	5	50	-1	9	50	-43				
BAGUIO CITY	29.13	312.3				11	16	20				
RIVERVIEW	31.64	166.4	7	13	46	11	36	0				
ADELAIDE	31.97	186.1	6	28	-2	11	40	-1				
CANBERRA	32.65	170.3	6	34	-2							
MELBOURNE	34.68	176.7	6	52K	-1							
LEMBANG	35.06	262.5	6	54A	-2	13	20	51				
HONG KONG	37.51	313.6	7	17	0	13	4	-3			8	34 PP
MUNDARING	38.00	217.9	7	19	-2						8	41
CANTON	38.60	313.8	7	27K	1	13	25	2	7	36	8	53 PP
MATUSIRO	39.60	354.4	7	32	-3	13	30	-8			9	47 PCP
ZO-SE	39.63	330.6	7	36	1	13	39	0	7	46		
NANKING	41.61	328.9	7	52K	1	14	11	3	8	1	9	36 PP
WUHAN	42.80	323.3	8	3	2	14	30	4	8	12		
MEDAN	44.40	278.2	8	14	0	15	6	17				
KARAPIRO	45.96	143.3	8	24A	-2							
CHATEAU	46.80	144.6	8	42	9							
VLADIVOSTOK	46.96	349.3				15	25	-1				
TUAI	47.48	143.1	8	42	4							
KUNMING	47.75	308.3	8	42K	2	15	39	2	8	51		
WELLINGTON	47.78	147.2	8	46	5							
GEBBIES PASS	48.44	151.0	8	43	-3							
CHANGCHUN	49.19	343.5	8	52	0							
PEKING	49.26	333.2	8	52	0	15	59	1	9	1	10	46 PP
CHENG TU	49.79	315.2	8	57	1	16	7	2	9	6		
LANCHOW	53.14	320.6	9	23	1	16	54	2				
CHITTAGONG	55.65	299.7	9	44	4	17	37	12			11	51 PP
SHILLONG	56.77	303.3	9	48K	0							
LHASA	59.05	307.3	10	6	2	18	15	5				
ULAN-BATOR	59.58	332.9	10	37	29							
CHATRA	61.16	302.8	10	19	1							
KI PAPA	62.94	64.2	10	27	-3							
MADRAS	63.99	286.0	10	38	1							
YAKUTSK	65.64	353.4	10	36	-12							
POONA	70.95	290.7	11	20	-1							
WARSAK DAM	76.13	306.0	11	52K	1							
NAMANGAN	77.74	312.9	12	0	0	22	12	20				
QUETTA	79.19	301.3	12	9K	1	22	13	5			15	11 PP
COLLEGE	84.20	23.7	12	31	-3							
SOUTH POLE	86.97	180.0	12	46	-2						13	4
BYRD STATION	88.38	170.0	12	53	-2							
SHIRAZ	91.57	299.4	13	8	-2	23	16	-52				
KHEYS	92.10	350.6	13	10	-2							
CORVALLIS	95.03	45.7	13	32	6							
MINERAL	96.37	49.9	13	38	6							
LICK	96.40	52.9	13	32	0							
PASADENA	99.33	56.1	13	45	0							
APATITY	100.07	338.4	13	49	0							
EUREKA	100.74	50.5	13	55	3							
RESOLUTE	101.16	13.2	13	51	-2							
SODANKYLA	102.59	339.1	13	56	-4							
TUCSON TELE.	105.69	57.4	18	36	777							
LARAMIE	108.31	47.5	18	29	777							
COLLMBERG	116.16	327.4	18	45	0							
FAYETTEVILLE	118.28	50.3	18	54	5							
OTTAWA	126.11	32.7	19	4	0							
SHAWINIGAN	126.88	30.0	19	6	0							
MORGANTOWN	126.98	40.8	19	12K	6							
SEVEN FALLS	127.42	28.3	19	6	-1							
COLUMBIA	129.03	47.6	19	11	1							
CHAPEL HILL	129.52	44.4	19	10	-1							
PALISADES	129.93	36.0	19	18	6						39	20 SS
TAMANRASSET	134.06	299.0	19	20	1						21	47 PP
HUANCAYO	139.41	112.4	19	30	1							
LA PAZ	143.94	123.6	19	38	1							
SAN JUAN	148.00	59.5	19	47	3							
CARACAS	149.76	74.4	19	44	-3							



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FEBRUARY 29 5.H 22.M 56.S EPICENTRE 14.00 120.72 DEPTH= 132.KM

A=-0.49579 B= 0.83449 C= 0.24045 D= 0.8597 E= 0.5108  
G=-0.1228 H= 0.2067 K=-0.9707 HT= 5.9

DEPTH OF FOCUS= 0.016R

SE= 2.30

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
MANILA	0.75	28.0	0	20	-2	0	35	-4				
BAGUIO CITY	2.41	356.9				1	9	-1			0	39 P*
HONG KONG	10.33	323.9	2	25	-1	4	20	0				
CANTON	11.42	323.4	2	51A	11	5	10	24				
ZO-SE	17.02	1.4	3	52A	1	7	20	25				
WUHAN	17.40	342.0	3	57A	0	7	12	11			4	36
NANKING	18.06	354.7	4	4A	1	7	25	8			4	53
KUNMING	20.20	305.9	4	29	3	8	6	6			4	52 PP
CHENG TU	22.61	319.9	4	51A	1	8	48	4			5	21
SIAN	22.81	334.1	4	53A	1	8	52	5				
GUAM	23.34	88.4	5	0	3							
MEDAN	24.09	246.6	5	6K	2	9	16	7				
LEMBANG	24.44	212.9	5	7K	-1	9	19	4				
ABUYAMA	24.73	30.3	5	12A	2							
PEKING	26.23	352.1	5	25A	1	9	49	4			6	9 PP
LANCHOW	26.67	328.4	5	30A	2	9	55	3				
MATUSIRO	27.36	31.8	5	33A	-2	10	17	14	5	54	6	21 PP
CHITTAGONG	28.64	291.1	5	46	0	10	25	1				
SHILLONG	29.41	297.5	5	46K	-7							
CHANGCHUN	29.98	6.7	5	58	0							
VLADIVOSTOK	30.57	16.2	6	39	36							
LHASA	31.51	304.5	6	13	2	11	12	3				
IRKUTSK	40.37	344.5	7	26	0							
CHARTERS TS.	42.18	142.9	7	42	1							
POONA	45.12	282.3	8	2	-3							
MUNDARING	45.91	185.3	8	9	-2							
YAKUTSK	48.38	5.7	8	29	-1							
WARSAK DAM	48.61	303.1	8	36	4							
MAGADAN	50.60	19.3	8	46	-1							
ADELAIDE	51.61	161.1	8	54	-1							
QUETTA	51.90	297.4	8	57	0							
CANBERRA	55.90	152.1	9	29	3							
TIKSI	57.81	3.0	9	38	-2							
SVERDLOVSK	62.16	327.4									11	47
SHIRAZ	64.39	296.3	10	23K	-1	18	52	2				
KHEYS	71.92	351.2	11	10	-1							
KARAPIRO	72.84	137.4	11	16	0						11	45
MOSCOW	74.67	324.4	11	25	-2							
APATITY	76.13	336.7	11	34	-1							
SIMFEROPOL	77.86	313.5	11	45	1							
COLLEGE	78.06	25.9	11	45	-1				12	17		
KSARA	78.11	302.1	11	50	4							
SODANKYLA	78.76	336.8	11	49	0							
NURMIJARVI	80.89	330.1	12	1	0	21	54	-3				
KIRUNA	80.99	337.8	12	0	-1							
NORD	82.37	354.2	12	8A	0							
HELWAN	82.63	298.9	12	11	1						12	39
UPPSALA	84.45	330.4	12	17	-2							
SKALSTUGAN	85.54	334.8	12	24	0							
KRAKOW	86.17	320.6	12	29	2						13	12
ATHENS	86.91	308.2	12	29	-2							
RACIBORZ	87.23	321.0	12	32	0							
RESOLUTE	88.74	8.9	12	39A	-1							
PRUHONICE	89.48	321.7	12	44A	1				13	25	16	15 PP
COLLMBERG	89.90	323.3	12	45A	0				13	20	14	44
HALLE	90.43	323.7	12	48	0							
PLAUEN	90.70	322.7	12	46	-3							
JENA	90.87	323.3	12	50	0						13	5
LJUBLJANA	90.92	318.0	12	50K	0							
STUTT GART	93.12	321.9	13	0	0							
ISOLA	93.27	313.2									17	4
EUREKA	105.09	42.1	13	57	777						17	5 PKKP
TAMANRASSET	106.79	299.3									18	6 PP
TUCSON	112.57	45.9									19	11 PP
TUCSON TELE.	112.60	45.8									19	11 PP

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FEBRUARY 29 23.H 40.M 16.S EPICENTRE 30.57 -9.43 DEPTH= 0.KM

A= 0.85088 B=-0.14133 C= 0.50599 D=-0.1638 E=-0.9865  
G= 0.4992 H=-0.0829 K=-0.8625 HT= 1.6

SE= 2.88

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
AVERROES	2.89	36.2	0	53	0	1	39	15				
LISBON	8.14	1.5	2	1A	-1	3	29	-7			2	10 PP
GRANADA	8.18	34.7	2	7	4	3	39	2			4	3 SS
ALMERIA	8.54	40.9	2	6K	-2	4	18	32			2	15 PP
RELIZANE	9.83	55.7	2	23	-3	4	18	0			2	35
TOLEDO	10.28	23.9	2	29A	-3	4	15	-14			5	16 SG
SERRA PILAR	10.56	3.4	2	26A	-10	4	28	-8			2	38 PP
ALICANTE	10.71	41.2	2	38	0	4	50	10				
ALGIERS UNI.	12.09	55.9	2	53	-4	5	11	-3			5	31 SS
TORTOSA	13.10	35.5	3	10	0	5	50	12				
PONTA DELGDA	15.22	302.3	3	40A	2							
TAMANRASSET	15.44	116.6	3	35A	-6	6	18	-16				
MARSEILLES	17.40	38.8	4	4	-2							
CUGLIERI	17.51	51.9	4	14	7							
MBOUR	17.54	205.0	3	58	-10	7	7	-15				
CLERMONT-FD.	18.07	29.4	4	16	2	7	51	17				
MONACO	18.75	40.9	4	24	1						4	44 PP
GARCHY	19.27	26.5	4	26A	-3	7	57	-4				
CHIAVARI	20.19	42.0	5	50	71						8	47
OROPA	20.27	37.3	4	41	1	8	41	18			5	43
PARIS	20.35	23.1	4	41	0	8	34	9				
BESANCON	20.46	31.2	4	43	1						5	11 PP
PAVIA	20.63	39.8	4	47	3	8	49	19			6	18
NEUCHATEL	20.72	33.1	4	46	1						8	52 PCP
ROME	20.92	51.3	4	46A	-1	8	46	10			5	11 PP
PRATO	21.00	45.0	4	48	-1	8	44	7				
BASLE	21.40	32.9	4	52K	0	8	55	10				
ISOLA	21.45	55.4	4	26	-26						4	49
BOLOGNA	21.47	43.9	4	53	1	8	58	11				
CHUR	21.89	36.7	4	58K	1						12	24 SCP
MESSINA	21.94	63.0	4	55	-2	9	11	16			5	29 PP
KEW	21.95	15.4	4	58A	1	9	2	6			5	30 PP
REGGIO CALA.	21.99	63.3	4	59	1	9	11	15				
DOURBES	22.18	24.4	5	1	1	9	8	8				
STRASBOURG	22.26	31.2	4	58	-2	9	8	7			5	30 PP
EBINGEN	22.52	33.5	5	1	-2							
RAVENSBURG	22.56	35.0	5	2	-1	9	13	6				
UCCLE	22.68	23.1	5	5	0	9	12	3				
TUBINGEN	22.82	33.0	5	6	0	9	14	3				
RATHFARNHAM	22.83	4.9	5	33A	27	10	3	51			7	55
STUTTGART	23.09	32.8	5	6	-2	9	15	-1			5	42 PP
HEIDELBERG	23.29	31.0	5	12	2						5	30
TRIESTE	23.54	43.7	5	22	9	9	34	10			5	58 PP
TARANTO	23.78	58.2	5	24	9	9	16	-12				
BENSBERG	23.84	26.6	5	17K	1	9	44	15				
DE BILT	24.06	22.4	5	44	26						9	44
LJUBLJANA	24.20	43.6	5	19A	0	9	44	8			5	59 PP
MUNSTER	24.81	25.6	5	27	2						8	31
DURHAM	24.84	10.9	5	28K	3	10	3	17			5	58 PP
ZAGREB	24.97	45.3	5	24	-3	9	57	8			5	57 PP
SONNEBERG	25.11	32.1	5	29	1	10	0	9			7	13
WITTEVEEN	25.16	23.3	5	31	2							
CHEB	25.46	33.8	5	29	-2	9	59	2				
PLAUEN	25.63	32.9	5	31	-2	10	7	7			11	19 SS
JENA	25.67	31.6	5	32	-1	10	5	5			5	58 PP
HALLE	26.23	31.0	5	34	-5	10	4	-6			6	16 PP
LOME	26.30	155.5	5	44	5	10	1	-10				
VIENNA-H.	26.44	40.8	5	40	-1	10	17	4			6	26 PP
PRAGUE	26.46	35.8	5	42	1							
PRUHONICE	26.47	36.1	5	39	-2	10	16	2			6	34 PP
COLLMBERG	26.57	32.4	5	44A	2	10	21	6			6	25 PP
BRATISLAVA	26.81	41.5	5	40A	-4	10	31	12			6	43 PPP
HAMBURG	27.01	25.8	5	44A	-1							
ABERDEEN	27.08	8.8	6	53K	67	10	23	-1			11	38 SS
HURBANOVO	27.30	42.9	5	48	0	10	38	11				
POTSDAM	27.34	30.7	5	49	0						6	31 PP
BELGRADE	27.41	50.4	5	52	3	10	49	20			6	48 PPP
BUDAPEST	27.60	44.2	5	55	4	10	34	2				
KECSKEMET	27.64	45.8	5	59	8						6	54 PPP
TIMISOARA	28.26	48.9	5	56	-1						11	48

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ATHENS	28.27	65.9	5 57K	0						
RACIBORZ	28.44	38.9	6 0	1	11 9	23				6 48 PP
SKALNATE PL.	29.13	41.9	6 6	1	10 59	2				
KRAKOW	29.37	40.1	6 7	0	10 57	-4				7 9 PP
COPENHAGEN	29.50	25.4	6 11	3	11 11	8				
CAMPULUNG	30.63	51.7	6 21	3						7 21 PP
GOTEBORG	30.90	22.4	6 19	-2						
WARSAW	31.10	37.1	6 23	1	11 32	4				7 35 PPP
BERGEN	31.42	14.0			11 42	9				
LWOW	31.61	42.9	6 29K	2	11 40	4				
FOCSANI	32.22	51.7	6 50	18						
BACAU	32.25	50.0	6 32	-1	11 54	8				6 51
ISTANBUL KA.	32.70	60.6	6 34	-2						13 33
IASI	32.88	49.1	6 36	-2	11 58	2				7 36
KASTAMONU	34.01	60.3	7 6	18						
UPPSALA	34.46	23.9	6 51	-1						7 59
REYKJAVIK	34.49	350.4	6 54	2						
HELWAN	35.09	80.5	6 57	0	12 34	4				
SKALSTUGAN	35.80	16.4	7 3	0						
SIMFEROPOL	36.85	54.7	7 14	2	12 59	2				
BANGUI	37.12	129.0	7 37	23						19 49
HELSINKI	37.44	27.7	7 19	2						
NURMI JARVI	37.52	27.1	7 18	0						8 51 PP
JERUSALEM	38.02	76.3	7 23	1	12 40	-35				
KSARA	38.25	72.9	7 25	1	13 25	7				8 57 PP
PULKOVO	39.47	30.6	7 35	1	13 37	0				
KIRUNA	41.23	16.7	7 48	0						
MOSCOW	41.44	38.7	7 51	1	14 10	4				
SODANKYLA	42.57	19.7	7 58	-1						
HALIFAX	44.37	304.1	8 11	-3						
TIFLIS	44.53	60.0	8 14	-1						
APATITY	44.76	21.8	8 16	-1	14 53	-2				10 3 PP
GORIS	45.89	63.0	8 26	0						
MAKHACH-KALA	46.44	58.1	8 29	-2	15 20	1				
BERMUDA	46.71	287.2			15 23	0				10 48 PP
ISFJORD	48.69	6.2	8 49	1						
LWIRO	48.91	124.9	8 50	0	15 55	1				
SEVEN FALLS	49.34	307.8	8 50	-3						
ADDIS ABABA	49.70	105.1	8 57	1						
WESTON	50.14	301.6	8 59	0						
SHAWINIGAN	50.71	307.2	9 4	0						
NORD	51.22	358.6	9 6	-2	16 25	-1				
BREBEUF	51.40	305.9	9 11A	2						10 23 PCP
PALISADES	52.27	300.3	9 16	1	16 38	-2				
FORDHAM	52.27	300.1	9 13	-3						
OTTAWA	52.88	306.0	9 17	-3						
THULE	53.34	345.4	9 21	-2						
SVERDLOVSK	54.24	39.6	9 29	-1	17 8	1				
WASHINGTON	55.08	298.3	9 39	3						
PENNSYLVANIA	55.25	300.8	9 35	-2	17 24	4				
KHEYS	56.40	10.5	9 44	-2						
CARACAS	56.81	262.4	9 58	9	17 33	-8				
MORGANTOWN	57.07	299.8	9 50K	-1						
BROKEN HILL	57.73	135.3	9 55A	0						
WINDHOEK	58.65	151.1	9 59	-3						
COLUMBIA	59.48	293.8	10 5	-2						
RESOLUTE	59.61	342.1	10 5	-3						
BULAWAYO	62.28	139.2	10 25A	-1						
QUETTA	64.60	68.7	10 39	-3	19 12	-9				13 6 PP
ST. LOUIS 1	65.00	301.5	10 43	-1	19 21	-5				
FLORISSANT	65.05	301.7	10 44	-1						
FRUNSE	65.71	53.2	10 51	3	19 41	7				
BOGOTA	65.87	260.7	10 52	2	19 33	-4				23 9 SS
PRETORIA	66.57	143.1	10 52	-2						
WARSAK DAM	66.80	63.2	10 53	-3						
CHINCHINA	67.02	261.9	11 4	7	19 57	7				
LITTLE ROCK	67.99	298.2	10 57	-6						
LAHORE	69.91	64.6	11 9	-6	20 23	-2				
HERMANUS	70.06	155.1								13 40 PP
RAPID CITY	71.95	310.9	11 24	-3						14 17 PP
GRAHAMSTOWN	72.08	148.9	11 29	1						
LA PAZ	73.32	238.8			20 57	-7				
DEHRA DUN	73.32	64.4	11 37	1	21 4	0				
TANANARIVE	73.63	124.2	11 41	4						13 3
TIKSI	74.00	12.7	11 41	2	21 15	3				
BOMBAY	74.16	77.2	11 40	0	21 11	-2				
POONA	75.19	77.1	11 45	-1	21 21	-4				
HUANCAYO	76.14	246.9	11 50A	-2						

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BOZEMAN	76.18	315.0	11 52	0					
HUNGRY HORSE	76.59	318.4	11 52	-2					
BUTTE	76.92	315.8	11 57	1					
IRKUTSK	79.30	34.9	12 10	1	22	1	-8		
COLLEGE	79.51	343.2	12 10	0	22	9	-3		22 54
VICTORIA	81.67	322.1	12 24	2					
ALBERNI	81.95	323.3	12 27	4					
CHATRA	82.04	63.7	12 21	-3					
EUREKA	82.51	311.6	12 25	-1					13 50
TUCSON TELE.	82.74	303.2	12 27	0					16 0 PP
TUCSON	82.86	303.2	12 28	0					
MADRAS	83.18	79.0	12 34	4	22	56	7		23 48 PS
LHASA	83.54	59.5	12 34	3					
RENO	84.92	313.3	12 40A	2					
MINERAL	85.55	314.8	12 40	-2					
SHILLONG	86.30	62.6	12 40A	-5	23	7	-13		
PASADENA	86.97	308.1	12 49	1					23 35 PS
LICK	87.38	312.4	12 51A	1					
MAGADAN	88.74	9.9	13 3	6					
LANCHOW	88.83	48.1	13 0	3					
CHENG TU	92.23	52.3	13 16	3					
PEKING	93.52	38.7							17 3 PP
KUNMING	94.67	57.4	13 27	3					
CHANGCHUN	95.18	31.1							17 15 PP
WUHAN	99.23	46.5							17 42 PP
NANKING	100.70	42.8							17 58 PP
CANTON	103.45	52.8							18 12 PP
MATUSIRO	106.67	26.7							18 43 PP
TUKUBASAN	107.67	25.5							18 38 PP
BYRD STATION	123.36	191.3	18 59	0					
CHARTERS TS.	155.73	70.3	20 3	12					20 24
RIVERVIEW	163.24	106.3	19 59A	-5					31 26 SKKS

MARCH 2 21.H 56.M 25.S EPICENTRE 52.10 -30.08 DEPTH= 0.KM

A= 0.53376 B=-0.30911 C= 0.78712 D=-0.5012 E=-0.8654  
G= 0.6811 H=-0.3945 K=-0.6168 HT= -6.2

SE= 3.67

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
RATHFARNHAM	14.46	75.8	3	25K	-3							
SERRA PILAR	18.31	118.3	4	13A	-4							
KEW	18.37	80.2	4	20	2	7	53	12				
SCORESBY SD.	18.81	8.5	4	24	1	8	3	12				
FOLINIÈRE	19.08	88.3	4	27	0							
PARIS	20.90	86.1	4	45	-1	8	42	7				
UCCLE	21.38	79.8	4	49	-2	8	55	10				
TOLEDO	21.69	114.0	4	54	-1	9	4	13				
DOURBES	21.75	81.5	4	56	1	9	11	19				
WITTEVEEN	22.25	73.5	5	0	0							
CLERMONT-FD.	22.57	93.1	5	5	2							
MUNSTER	23.02	75.3	5	8	0							
BENSBERG	23.04	78.0	5	5	-3							
BESANCON	23.66	87.4	5	14	0							
TORTOSA	23.71	106.3				9	25	-2				
GRANADA	23.85	118.3	5	4A	-12							
STRASBOURG	24.22	83.2	5	18	-1	9	51	15			5	51
HEIDELBERG	24.50	80.8	5	25	3							
GOTEBORG	24.50	60.1	5	28	6						8	50
ALMERIA	24.71	117.2	4	56	-28						5	34 PP
ALICANTE	24.76	112.0	5	24	-1	9	44	-1			6	0 PP
SKALSTUGAN	24.79	46.0	5	34	9						5	56
COPENHAGEN	25.02	64.8	5	29	2							
TUBINGEN	25.04	82.5	5	23	-4							
STUTTGART	25.07	81.9	5	27	-1	10	0	10			6	3 PP
EBINGEN	25.12	83.4	5	29	1							
RAVENSBERG	25.68	83.8	5	35	2							
JENA	25.70	75.9	5	33	0	10	11	10			6	20 PP
HALLE	25.74	74.5	5	34	0							
POTSDAM	26.14	72.1	5	37	-1							
PLAUEN	26.19	76.6	5	35	-3							
COLLMBERG	26.42	74.5	5	41A	1						6	19 PP
PAVIA	26.58	89.4									11	42
SEVEN FALLS	26.61	275.6	5	40	-2							

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RELIZANE	27.18	114.9	5 47	0			6 27
UPPSALA	27.25	54.6	5 54	6			
PRUHONICE	27.81	76.4	5 52	-1			6 44 PP
SHAWINIGAN	28.06	275.7	5 53	-2			
THULE	28.44	342.1	5 58	-1			
BREBEUF	29.07	274.4	6 9	5			
TRIESTE	29.18	85.1	6 7	2			
LJUBLJANA	29.46	83.9	6 8	0			
VIENNA-H.	29.60	78.8	6 9	0			
SETIF	29.64	108.4	6 16	7			
BRATISLAVA	30.07	78.5	6 13	0			
OTTAWA	30.41	275.7	6 14	-2			
NURMIJARVI	30.66	52.4	6 18	0			
SODANKYLA	31.04	38.9	6 20	-2			
SKALNATE PL.	31.53	75.0	6 22	-4			
PULKOVO	33.58	52.7			12 9	3	
APATITY	33.65	38.3	6 45	0			
RESOLUTE	34.05	334.5	6 48	0	12 7	-7	
MESSINA	34.45	95.5					14 37
MOSCOW	38.61	57.0	7 28	1			
TAMANRASSET	40.01	123.3	7 38K	0			9 16 PP
LARAMIE	50.66	289.4	8 26	-37			
HUNGRY HORSE	50.97	301.4	9 3	-2			
COLLEGE	53.90	332.1	9 29	2			
EUREKA	57.82	294.2	9 54	-2			
TUCSON TELE.	59.74	284.8	10 8	-1			
RENO	59.91	296.7	10 30	20			
MINERAL	60.32	298.4	10 12	-1			
SHASTA	60.50	299.2	10 12	-2			
FRESNO	61.87	294.4	10 24	0			
LICK	62.49	296.1	10 38	10			
PASADENA	62.82	291.3	10 28	-2			
QUETTA	70.83	65.5	11 14	-7			
LWIRO	73.27	116.7	11 45A	10			
HUANCAYO	74.84	226.0	11 52	8			
BROKEN HILL	83.30	123.7	11 34	-56			
MELBOURNE	165.31	15.6	18 15A-111				

MARCH 3 14.H 15.M 4.S EPICENTRE 40.77 78.08 DEPTH= 0.KM

A= 0.15693 B= 0.74311 C= 0.65051 D= 0.9784 E=-0.2066  
G= 0.1344 H= 0.6365 K=-0.7595 HT= -2.0

SE= 1.83

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
NARYN	1.70	293.4	0	30	-1	0	59	5			0	33
KURMENTY	2.23	3.9	0	40	2	1	13	6				
ALMATA-2	2.55	348.3	0	45	2	1	17	2				
ALMATA	2.63	341.8	0	47	3	1	23	6				
FABRICHNAYA	2.66	333.0	0	46	1	1	23	5			1	33
CHILIK	2.81	5.1	0	48	1	1	24	2				
FRUNSE	3.30	309.7	0	56	2	1	43	9			2	6
ANDIJAN	4.33	271.6	1	21	13	1	59	-1			2	21
FERGANA	4.81	267.4	1	34	19							
KHOROG	6.06	239.2	1	36	3							
TCHIMKENT	6.54	286.3	1	39	-1	2	57	1			2	1
LUNACHARSKOE	6.64	277.7	1	41	0						2	15
TASHKENT	6.67	277.6	1	42	1	3	17	18			2	41
KULYAB	7.06	248.7	1	45	-2						3	38
STALINABAD	7.51	256.0	1	53	0						4	3
WARSAK DAM	8.52	219.6	2	9	2	3	43	-2				
LAHORE	9.69	199.4	2	11	-12	3	51	-23				
SEMIPALATNSK	9.75	8.2	2	24	0							
DEHRA DUN	10.43	180.1	2	37	3	4	30	-2			4	41 SS
BAIRAM-ALI	12.78	260.8									10	30
AGRA	13.61	180.2	3	11A	-5							
QUETTA	13.91	224.0	3	17	-3	5	48	-9				
ASHKABAD	15.52	265.9									8	35
CHATRA	15.81	148.8	3	45	0	6	36	-6				
KIZYL-ARVAT	16.78	271.7	3	58	0						9	40
KARACHI	18.38	213.5	4	20	2	7	38	-3				
SHILLONG	19.02	138.6	4	22K	-3	7	58	3			4	45 PP
CALCUTTA	20.16	151.4	4	57	19	8	27	7			13	45
LANCHOW	20.69	94.8	4	44A	0	8	38	7				

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IRKUTSK	21.28	48.5	4	49	-1	8	49	7		
CHITTAGONG	21.72	143.5	4	56	2	8	55	4		5 21 PP
ULAN-BATOR	21.73	61.2	4	55	0					
BOMBAY	22.26	193.2	5	2	2	9	11	10		10 6 SS
POONA	22.46	190.5	5	5	3					10 17
CHENG TU	23.27	107.5	5	12	2	9	33	14		
PAOTOW	24.17	79.9	5	20	2					
TIFLIS	24.96	283.2								5 57 PP
SIAN	25.23	95.0	5	30	1					
KUNMING	25.80	119.6	5	34	0	10	20	18		
MADRAS	27.73	175.6								11 10
MOSCOW	30.30	313.3	6	16	1					13 50 SS
PULKOVO	34.97	319.2	6	57	1					
APATITY	36.08	332.7	7	3	-2					
HELSINKI	37.69	319.2	7	18	-1					
NURMIJARVI	37.88	319.7	7	20	0					8 46 PP
LWOW	38.33	302.3	7	25	1					8 54 PP
SODANKYLA	38.46	330.9	7	24	-1					
TIKSI	39.72	22.6	7	34	-2					
KHEYS	40.64	355.1	7	45	2					8 12
KIRUNA	40.88	330.7	7	44	-1					
UPPSALA	41.35	318.3	7	48	-1					
SKALSTUGAN	43.86	323.9	8	8	-1					
PRUHONICE	44.33	304.2	8	13K	0					9 14
GOTEBORG	44.44	315.5	8	13	-1					10 1
COLLMBERG	44.99	306.4	8	19	0					10 4 PP
HALLE	45.58	306.8	8	23	0					10 6 PP
JENA	45.94	306.1	8	26	0					10 30
ISOLA	47.60	292.2	9	9	30					
STUTT GART	47.97	303.9	8	41	-1					
NORD	50.64	349.1	9	0	-3					
ALMERIA	60.76	294.9								19 38
THULE	61.14	351.4	10	16	-2					
TAMANRASSET	62.58	277.3	10	25	-3					
RESOLUTE	64.74	357.9	10	40	-2					
COLLEGE	68.75	19.2	11	6	-1					
BROKEN HILL	71.61	231.0	11	24	-1					
HUNGRY HORSE	90.62	8.0	13	4	-1					
RAPID CITY	95.53	0.9	13	33	5					
BYRD STATION	140.07	175.3	19	28	-2					

MARCH 4 2.H 15.M 58.S EPICENTRE 50.60-176.85 DEPTH= 0.KM

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G=-0.7695 H=-0.0424 K=-0.6373 HT= -5.6

SE= 2.42

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PETROPAVLOVK	15.33	288.6	3	48	8	6	48	17				
MAGADAN	20.38	308.5	4	41	0							
COLLEGE	20.80	35.7	4	45	-1	8	47	13				
SITKA	25.03	58.9	5	30	3							
Y.-SAKHLINSK	26.63	278.1	5	43	1							
YAKUTSK	30.84	312.4	6	18	-2	11	20	-4				
TIKSI	31.92	330.9	6	50	20							
ALBERNI	32.95	71.7	6	41	2							
VICTORIA	34.09	72.3	6	55	6							
MATUSIRO	34.91	263.8	6	55K	-1	11	37	-50	7	16	9	27 PCP
VLADIVOSTOK	35.22	278.1	6	57	-1							
CORVALLIS	35.94	78.3	7	7	3							
BANFF	37.69	64.6	7	18	-1							
SHASTA	38.53	83.2	7	27K	1							
CHANGCHUN	38.99	283.1	7	28	-2							
MINERAL	39.23	83.2	7	32	0							
HUNGRY HORSE	39.80	68.0	7	37	0						9	43 PCP
RESOLUTE	39.95	24.2	7	37	-1							
SAN FRANCISCO	40.18	87.1	7	40K	0							
BERKELEY	40.24	86.8	7	40	0							
RENO	40.82	83.0	7	46K	1							
LICK	40.95	87.0	7	46	0							
VINEYARD	41.47	87.5	7	51	1							
BUTTE	41.80	70.4	7	51	-2							
FRESNO	42.47	86.3	7	59	0							
BOZEMAN	42.89	70.0	8	3	1							



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1960					PAGE 170				
EUREKA	43.28	80.5	8 4	-1					8 30
SALT LAKE C.	45.10	76.4	8 20	0					
PASADENA	45.14	88.1	8 20	0					10 0 PP
THULE	45.50	18.3	8 22	-1					10 18 PP
KHEYS	45.57	349.2	8 23	-1					
BOULDER CITY	46.11	83.7	8 28	0					
PEKING	46.76	284.1	8 32	-1	15 26	3			15 32 PS
NORD	47.62	3.9	8 39	-1					
ULAN-BATOR	47.77	298.1	8 42	1					
RAPID CITY	48.43	67.6	8 45	-1					
LARAMIE	48.62	71.9	8 47	-1					
ZO-SE	49.24	271.3	8 53	1	16 0	2			
NANKING	50.13	274.0	8 57	-2					
TUCSON	51.04	84.6	9 6	0					
TUCSON TELE.	51.05	84.4	9 6	0					
WUHAN	53.83	275.6	9 26	-1					
SIAN	54.89	283.0	9 32	-3					
LAWRENCE	56.27	68.0	9 43	-2					
LANCHOW	56.83	287.9	9 49	0	17 45	4			
SCORESBY SD.	57.87	9.7	9 55	-1					
FAYETTEVILLE	58.81	69.9	10 OK	-3					10 16 PCP
FLORISSANT	59.23	65.2	10 4	-2					
ST. LOUIS 1	59.42	65.2	10 5	-2	18 20	5			
APATITY	59.99	347.1	10 11	0					
CHENGTU	60.37	283.2	10 21	8					
RABAU	60.74	216.1	10 4	-12					
SODANKYLA	61.03	349.9	10 18	0					
MANILA	61.13	257.5	10 20	1					
KIRUNA	61.18	352.6	10 17	-2					
OTTAWA	62.60	51.1	10 27K	-1					
SVERDLOVSK	62.91	328.6	10 30	-1	19 4	4			
SHAWINIGAN	63.21	48.6	10 31K	-2					
BREBEUF	63.56	49.9	10 32K	-3					
SEVEN FALLS	63.71	47.1	10 34	-2					
KUNMING	65.07	279.7	10 44	-1	19 26	-1			
SKALSTUGAN	65.94	355.5	10 49	-1					11 10
ALMATA	66.64	310.2	10 56	1					
PALISADES	66.69	53.4	10 55	0	20 5	19	11 7		24 57 SS
PORT MORESBY	67.44	218.9	10 42	-18					
CHAPEL HILL	67.67	60.4	11 1	0					
PULKOVO	67.80	345.6	11 2	0	20 9	9			
NURMI JARVI	67.89	348.7	11 2	-1	20 2	1			
COLUMBIA	67.96	63.1	11 2	-1					
HELSINKI	68.18	348.5	11 4	0					
HALI FAX	68.91	44.7	11 7K	-2					
LHASA	68.98	291.2	11 11	2	20 16	2			
UPPSALA	69.28	352.2	11 10	-1					11 36
MOSCOW	70.23	340.1	11 16	-1	20 31	3			
NAMANGAN	70.93	311.8	11 23	2					
GOTEBORG	71.82	355.0	11 27	0					
CHATRA	73.35	291.9	11 36	0					
COPENHAGEN	73.81	354.5	11 39A	1					
CHITTAGONG	73.87	285.6	11 39K	0	21 10	0			14 25 PP
STALINABAD	74.20	312.1	11 42	1					
DURHAM	74.93	2.8	11 39A	-6					
RATHFARNHAM	76.17	5.8	11 52A	0					
WITTEVEEN	76.91	357.8	11 58	2					
CHARTERS TS.	77.53	215.3	11 58K	-1					
MUNSTER	77.74	357.2	12 1	0					12 39
HALLE	78.00	354.4	12 2	0					12 16 PCP
COLLMBERG	78.13	353.7	12 8K	5					12 20 PCP
KEW	78.26	2.2	12 3	0					
LWOW	78.38	346.4	12 5A	1					
JENA	78.59	354.6	12 5	0					13 7
KRAKOW	78.71	349.1	12 6	0					12 19 PCP
BENSBERG	78.76	357.4	12 6	0					12 18 PCP
RACIBORZ	78.88	350.2	12 7	0					12 19 PCP
UCCLE	78.97	359.2	12 7	0	22 9	3			
PLAUEN	79.00	354.2	12 5	-3					
MAKHACH-KALA	79.11	328.5	12 9	1					
SONNEBERG	79.16	354.8	12 8	0					
PRUHONICE	79.33	352.5	12 9K	0					15 14 PP
CHEB	79.39	354.0	12 9	-1					
SKALNATE PL.	79.53	348.7	12 11A	1					
DOURBES	79.67	359.1	12 12	1					15 14 PP
HEIDELBERG	80.27	356.3	12 14	0					
IASI	80.33	343.4	12 6	-9					
STUTTGART	80.87	355.9	12 18	0					
FOLINIÈRE	80.96	2.4	12 18	0					

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PARIS	80.97	0.4	12 19	1				12 30	PCP
BACAU	81.06	343.7	12 21	2					
SIMFEROPOL	81.11	338.3	12 19	0	22 32	4			
TIFLIS	81.12	329.8	12 20	1	22 32	4			
TUBINGEN	81.12	356.0	12 19	0					
STRASBOURG	81.12	356.9	12 19K	0				12 24	PCP
EBINGEN	81.47	356.1	12 21	0					
RAVENSBURG	81.84	355.6	12 24	1					
QUETTA	81.85	308.3	12 23K	0	22 38	2			
BASLE	82.18	357.0	12 24A	0					
BESANCON	82.50	358.1	12 26	0				12 39	PCP
CAMPULUNG	82.64	344.6	12 33	6					
NEUCHATEL	82.73	357.4	12 28	1					
TOLMEZZO	83.01	353.1	12 30	1					
LJUBLJANA	83.23	352.1	12 29	-1					
BUCHAREST	83.28	343.7	12 11K	-19					
TRIESTE	83.69	352.5	12 33	1					
CLERMONT-FD.	84.01	0.0	12 36	2					
POONA	87.50	296.3	12 52K	1					
KARAPIRO	88.41	186.0	12 54	-1					
SAN JUAN	88.43	62.7	12 57	1				13 32	
ISOLA	88.54	351.9	12 47	-9				13 59	
TOLEDO	89.68	5.5	13 1	0					
CANBERRA	90.70	207.3	13 6	0					
KSARA	91.11	333.2	13 9	1					
JERUSALEM	93.21	333.1	13 18	0					
RELIZANE	93.99	2.1	13 26	5					
TAMANRASSET	106.92	357.7						18 30	PP
BYRD STATION	134.33	168.2	19 18	-2					
BROKEN HILL	138.52	321.3						17 2	
BULAWAYO	143.55	317.2	19 35	-2					
PRETORIA	148.62	312.9	19 51	6					
WINDHOEK	149.97	333.6	19 50	2					
PIETERMZBURG	150.73	305.4	19 55	6					

MARCH 4 3.H 53.M 11.S EPICENTRE 31.15 130.39 DEPTH= 141.KM

A=-0.55561 B= 0.65297 C= 0.51471 D= 0.7616 E= 0.6480  
G=-0.3336 H= 0.3920 K=-0.8574 HT= 1.4

DEPTH OF FOCUS= 0.017R

SE= 2.52

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
KAGOSIMA	0.44	17.5	0 20		-1	0 35		-2				
YAKUSIMA	0.70	172.6	0 19A		-3	0 34		-6				
MIYAZAKI	1.16	48.5	0 24A		-2	0 42		-4				
UNZENAKE	1.58	355.6	0 31		1	0 54		0				
NAGASAKI	1.64	344.6	0 31A		0	0 55		0				
KUMAMOTO	1.69	8.8	0 29A		-2	0 53		-3				
ASOSAN	1.84	18.0	0 32A		-1	0 58		-1				
TOMIE	2.01	317.1	0 35K		0	0 58		-4				
SAGA	2.10	357.8	0 36A		0	1 5		1				
OOITA	2.32	26.3	0 37A		-2	1 6		-3				
HUKUOKA	2.42	359.7	0 40A		0	1 7		-4				
SIMIDU	2.73	52.7	0 41A		-3	1 11		-7				
UWAZIMA	2.76	40.8	0 41		-4	1 13		-6				
SIMONOSEKI	2.83	9.1	0 44		-2	1 16		-4				
ITUHARA	3.18	343.1	0 51		1	1 30		1				
MATUYAMA	3.36	36.3	0 51A		-1	1 23		-10				
KOTI	3.57	47.1	0 53A		-2	1 31		-7				
HIROSIMA	3.64	27.6	0 54A		-2	1 37		-2		15 4	SCS	
MUROTO	3.83	55.9	0 56		-3	1 36		-8				
HAMADA	4.00	20.2	1 1K		0	1 45		-3				
TSURUGISAN	4.07	41.7	0 59		-3	1 47		-2				
TAKAMATU	4.41	43.3	1 3A		-3	1 52		-6				
TOKUSIMA	4.58	49.4	1 6A		-3	1 57		-4				
OKAYAMA	4.60	39.2	1 7A		-2	1 57		-5				
HIMEJI	4.75	44.2	1 15		4	2 10		5				
MATSUE	4.84	26.9	1 13		1					2 2		
YONAGO	4.93	29.3	1 12		-1	2 5		-5				
SUMOTO	4.96	48.9	1 11A		-3	2 4		-7		1 29		
WAKAYAMA	5.06	51.4	1 13		-2	2 6		-7				
SIOMISAKI	5.10	61.8	1 12K		-3	2 5		-9				

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KOBE	5.35	47.5	1 16A	-3	2 14	-6	
TOTTORI	5.38	35.1	1 17	-2	2 16	-5	
OSAKA	5.55	49.7	1 21K	-1	2 23	-2	2 17
SAIGO	5.60	25.1	1 25	3	2 51	25	
OWASE	5.70	57.7	1 22K	-1	2 23	-5	
ABUYAMA	5.71	48.1	1 21A	-3			
TOYOOKA	5.73	39.1	1 22	-2	2 25	4	
NARA	5.77	51.0	1 22	-2	2 24	-6	
KYOTO	5.91	47.8	1 24	-2	2 28	-5	
MAIZURU	6.00	42.8	1 26	-2	2 30	-6	
TU	6.25	53.9	1 31	0	2 37	-5	
KAMEYAMA	6.30	52.5	1 31	0	2 38	-5	
HIKONE	6.40	48.5	1 31A	-2	2 38	-7	
TSURUGA	6.53	45.1	1 36K	1	2 47	-1	
GIHU	6.82	49.9	1 37A	-2	2 51	4	
NAGOYA	6.82	52.2	1 38K	-1	2 51	4	
HUKUI	6.90	43.3	1 40	0	2 56	-1	
HAMAMATU	7.11	58.0	1 45	2	3 1	-1	
OMAESAKI	7.43	60.3	1 45	-2	3 9	-1	
KANAZAWA	7.47	42.4	1 46	-1			
TAKAYAMA	7.58	47.1	1 49	0	3 9	-5	
SHIZUOKA	7.72	58.3	1 49K	-2	3 21	4	
ZO-SE	7.90	272.0	1 54K	1	3 22	1	
TOYAMA	7.91	43.8	1 55K	2	3 15	-7	
MATUMOTO	8.10	49.1	1 58	2	3 25	-1	
KOHU	8.18	54.4	1 56	-1	3 28	0	
MISIMA	8.19	58.8	1 54	-3	3 23	-5	
WAZIMA	8.22	39.1	2 0	3	3 23	-6	
AJIRO	8.27	59.7	1 58	0	3 28	-2	
OSIMA	8.37	62.1	2 0	1	3 31	-2	
MATUSIRO	8.43	48.3	1 59	-1	3 34	0	2 46
NAGANO	8.51	47.6	2 3	2	3 48	12	
OIWAKE	8.53	50.5	2 3	2	3 46	10	
TORISIMA	8.55	91.9	2 4	2	3 49	12	
TITIBU	8.70	54.1	2 7	3	3 52	12	
HERA	8.77	62.1	2 11	6	3 54	12	
TAKADA	8.81	45.5	2 5	0	3 44	1	
YOKOHAMA	8.84	58.7	2 7A	1	3 47	3	
MAEBASI	8.92	51.7	2 7	0	3 45	-1	3 12
KUMAGAYA	9.00	53.9	2 8	0	3 52	4	
TOKYO C.M.O.	9.03	57.5	2 11	3	3 54	6	2 30
HONGO	9.06	57.4	2 10	2	4 5	16	
AIKAWA	9.43	41.2	2 13	0	3 56	-2	
TUKUBASAN	9.54	55.4	2 14K	-1	3 55	-5	2 54 *SP
UTUNOMIYA	9.54	53.1	2 16	1	4 3	3	2 44
KAKIOKA	9.60	55.5	2 15	-1	4 11	9	
NIIGATA	9.82	44.2	2 17	-2	4 11	4	
TYOSI	9.85	59.7	2 20	1			
MITO	9.87	55.4	2 21	2	4 13	5	
TAIPEI	9.93	234.3	2 19A	-1	4 26	16	
ILAN	9.94	232.4	2 39	19	4 53	43	
NANKING	9.95	278.3	2 22A	2	4 21	11	2 55 *SP
SHIRAKAWA	10.08	51.2	2 23	1	4 23	10	
HSINCHU	10.46	235.1	2 29	2	5 1	39	
ONAHAMA	10.46	53.6	2 26	-1	4 28	6	
HWALIEN	10.57	229.5	2 35	7			
HUKUSIMA	10.60	48.9	2 29	0	4 33	7	
YAMAGATA	10.83	46.4	2 33	1			4 55
SAKATA	10.93	42.4	2 43	10	4 49	16	
TAICHUNG	11.08	233.4	2 46	11			
SENDAI	11.18	47.7	2 36	-1	3 43	-56	
ALISHAN	11.42	230.6	2 43	3			
ISINOMAKI	11.54	48.1	2 41A	0	4 50	2	
AKITA	11.64	40.1	2 47	4	4 54	4	
TAITUNG	11.74	226.8	2 42	-2	6 33	101	
MIZUSAWA	11.85	44.9	2 48	3	4 59	4	
TAINAN	12.16	230.6	3 25	36			
TAWU	12.19	226.3	3 2	12			
MORIOKA	12.24	42.9	2 50	0	5 6	2	
HENGCHUN	12.54	225.7	3 2	8			
MIYAKO	12.68	44.9	2 55	-1	5 15	0	
AOMORI	12.79	38.2	3 0	3	5 24	7	
HATINOHE	13.00	40.9	2 56	-4	5 37	15	
CHANGCHUN	13.28	343.8	3 8K	4	5 40	11	3 41 *SP
HAKODATE	13.51	35.2	3 9	2			3 30
WUHAN	13.62	271.5	3 11	3	5 47	11	
MORI	13.63	33.9	3 16	8	5 46	9	
SUTTSU	14.02	31.3	3 16	3	5 50	4	
TOMAKOMA I	14.52	34.8	3 25	5			



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UPPSALA	73.93	331.0	11	19	-2						
IASI	75.72	316.7	11	22	-9						
ALBERNI	75.78	40.8	11	33	1						
LWOW	76.37	320.2	11	35	0	21	7	0	12	2	11 47 PCP
BACAU	76.43	316.4	11	38	3						
WARSAW	76.65	323.4	11	36	-1	21	14	4	11	58	14 22 PP
FOCSANI	76.70	315.5	11	48A	11						
SCORESBY SD.	76.73	350.8	11	37A	0						
KSARA	76.76	301.5	11	36	-1	21	16	5	12	24	14 35 PP
VICTORIA	76.96	41.0	11	39	1						
GOTEBORG	77.57	331.1	11	42	0						
BUCHAREST	78.03	314.8	11	46	2	21	26	1			19 8
CAMPULUNG	78.23	315.9	11	49	4						12 44
JERUSALEM	78.23	300.0	11	47A	2	21	37	10			
KRAKOW	78.45	321.9	11	46	-1	21	28	-1			12 0 PCP
COPENHAGEN	78.66	329.3	11	48A	0	21	30	-1			22 30 PS
SKALNATE PL.	78.78	321.1	11	49K	1	21	34	1	12	24	14 49 PP
CORVALLIS	79.16	44.3	11	52A	2						
BANFF	79.64	35.8	11	52K	-1						
BUDAPEST	80.43	320.2	11	58	1	21	53	3			
POTSDAM	80.48	326.5	11	58	1	21	50	-1	12	33	15 4 PP
KARAPIRO	80.61	145.4	11	58A	0				12	32	
HURBANOVO	80.65	320.8	12	16	18	22	15	23			
ARCATA	80.70	47.8	11	59A	0						
BRATISLAVA	81.06	321.5	12	0K	-1				12	34	
COLLMBERG	81.20	325.7	12	7A	6	22	4	6	12	26	15 17 PP
PRUHONICE	81.27	324.0	12	2A	0	22	1	2	12	35	15 8 PP
PRAGUE	81.27	324.1	12	2A	0						22 59 PS
HALLE	81.58	326.2	12	3	0	22	2	0	12	28	15 7 PP
SHASTA	81.87	47.2	12	4K	-1						
HELWAN	82.08	300.0	12	6A	0	22	7	0			
JENA	82.12	326.0	12	6	0	22	7	0	12	40	15 35 PP
PLAUEN	82.13	325.4	12	4	-2				12	23	15 16
HUNGRY HORSE	82.15	37.4	12	7	1				12	40	15 4 PP
CHEB	82.29	325.0	12	7	0	22	5	-4			23 10 PS
MINERAL	82.56	47.1	12	8A	0						
SONNEBERG	82.67	325.7	12	8	-1	22	14	1			
ZAGREB	83.10	320.1	12	11K	0						15 20 PP
MUNSTER	83.27	328.4	12	12	0						
BERKELEY	83.55	49.5	12	13A	0	22	24	2	12	46	15 53 *PPP
LJUBLJANA	83.76	320.9	12	15A	1						15 32
ROXBURGH	84.06	153.6				22	27	0			
RENO	84.16	47.0	12	17A	1						
BENSBERG	84.17	327.9	12	16A	0				12	46	
LICK	84.26	49.6	12	17	0						15 20 PP
TOLMEZZO	84.33	321.9	12	16	-1	22	21	-8			15 40 PP
BUTTE	84.40	38.6	12	18	0						
TRIESTE	84.42	321.0	12	17A	-1	22	34	4	12	47	15 37 PP
HEIDELBERG	84.52	326.0	12	18A	0						
STUTTGART	84.67	325.3	12	19A	0	22	35	2	12	44	15 38 PP
VINEYARD	84.76	50.0	12	20	1						
TUBINGEN	84.94	325.2	12	20A	0						
DURHAM	85.00	334.4	12	20A	-1	22	36	0			
RAVENSBERG	85.17	324.4	12	21	0						
EBINGEN	85.22	325.0	12	21A	-1						
BOZEMAN	85.43	38.2	12	25	2				12	58	
STRASBOURG	85.53	325.9	12	23A	0	22	43	2	12	38	23 39 SP
UCCLE	85.55	329.0	12	23	0	22	40	-1			
FRESNO	85.78	49.2	12	25A	1						
CHUR	85.85	323.8	12	24K	-1						
DOURBES	85.94	328.4	12	24	-1	22	35	-10			
BASLE	86.35	325.2	12	26	-1	22	45	-4			
BOLOGNA	86.48	321.2	12	32	4	22	59	9			
EUREKA	86.57	45.3	12	28	0				13	3	
ADDIS ABABA	86.78	278.5	12	33	4						
PRATO	87.01	320.8	12	30	0	22	55	0			
NEUCHATEL	87.03	325.1	12	30	0						
KEW	87.03	331.7	12	29	-1						15 56 PP
PAVIA	87.16	322.7	12	33	2	23	1	4	13	4	
RUTH	87.32	45.0	12	31	-1	23	47	49			16 25 PP
BESANCON	87.32	325.8	12	31A	-1						
ISOLA	87.47	317.1	12	43	10						16 4 PP
OROPA	87.48	323.6	12	28	-5	23	4	4			
ROME	87.55	318.7	12	34A	1	23	1	1			16 1 PP
PARIS	87.82	328.5	12	33	-1						16 4
RATHFARNHAM	87.86	335.7	12	35K	1						
MESSINA	88.10	314.3									20 30
SALT LAKE C.	88.19	42.3	12	37	1						

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PASADENA	88.41	50.6	12 37A	0	22 55 -13	12 58	16 5	PP			
MONACO	89.06	322.5	12 30	-10							
FOLINIÈRE	89.15	330.0	12 40	0							
BOULDER CITY	89.45	47.4	12 42	0							
CLERMONT-FD.	89.76	326.2	12 43A	0							
RAPID CITY	90.57	35.5	12 47	0							
LARAMIE	91.31	38.6	12 52	1					13 25		
TUCSON	94.38	48.1	13 6	1	23 29 -32	13 37	17 23	PP			
TUCSON TELE.	94.39	48.0	13 6	1							
SETIF	95.45	318.3	13 10	0		13 43	17 2	PP			
ALGIERS UNI.	96.36	320.0	13 13	-1					17 0	PP	
ALICANTE	97.07	323.2	13 5	-12	24 13 34						
TOLEDO	97.66	326.3	13 19	-1					17 10	PP	
LAWRENCE	98.33	34.3	13 23	0							
RELIZANE	98.48	320.8	13 27	4		13 54	17 30	PP			
SERRA PILAR	98.71	329.9	13 17	-7					17 19	PP	
ALMERIA	99.24	323.4	13 21K	-6	24 33 43				17 25	PP	
GRANADA	99.55	324.4							17 48	PP	
SEVEN FALLS	99.78	14.5	13 29	0							
ST. LOUIS I	100.93	31.3			23 58 -1				17 42		
LWIRO	101.08	274.1	13 36	1					17 43		
FAYETTEVILLE	101.11	35.4	13 35A	0							
TAMARRASSET	104.73	308.5	13 52	1					18 11	PP	
PALISADES	104.77	18.8			24 18 2				18 22	PP	
BROKEN HILL	107.41	263.4	14 5	777							
BULAWAYO	109.92	258.0	14 16	777							
SOUTH POLE	120.98	180.0	18 35	-1					21 5	PKS	
BYRD STATION	123.93	168.6	18 42	1					20 26	PP	
MBOUR	124.93	320.4							20 35	PP	
SAN JUAN	128.26	20.1	18 52	2							
CHINCHINA	136.33	39.3	19 13	8					22 32	*SPP	
FUQUENE	136.91	36.6	19 9	3					22 26	*SPP	
BOGOTA	137.45	37.6	19 11	4					22 45	*SPP	
ARGENTINE I.	144.69	169.4	19 19	-1							
HUANCAYO	149.58	57.0	19 31A	3					19 37	PKP2	
LA PAZ	157.69	53.4	19 43A	4					23 53	PP	
PORT STANLEY	158.58	165.8	20 18	38							
SANTA LUCIA	162.07	102.9	19 42	-2		20 19	24 49	PP			

MARCH 4 16.H 25.M 24.S EPICENTRE 71.87 -1.28 DEPTH= 0.KM

A= 0.31305 B=-0.00697 C= 0.94971 D=-0.0223 E=-0.9998  
G= 0.9495 H=-0.0211 K=-0.3131 HT=-12.2

SE= 2.60

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
SCORESBY SD.	6.82	268.2	1	35	-8							
ISFJORD	7.30	25.0	1	49	-1							
KIRUNA	8.48	107.8	2	5	-1							
SKALSTUGAN	9.75	141.7	2	23	-1						4	6
NORD	10.33	347.4	2	29	-3							
SODANKYLA	10.64	101.3	2	33	-3							
BERGEN	11.81	163.9	2	48	-4	4	51	-15				
APATITY	12.65	92.8	3	0	-3							
UPPSALA	14.22	138.2	3	22	-2						6	7
GOTEBORG	15.24	152.1	3	35	-3							
NURMI JARVI	15.28	124.8	3	37	-1	6	23	-6			6	43
KHEYS	15.62	31.6	3	50	7	6	48	11			4	0 PP
HELSINKI	15.65	125.0	3	41	-2							
DURHAM	17.16	180.6	4	0	-2	6	30	-43				
COPENHAGEN	17.26	153.1	4	5	2							
PULKOVO	17.42	117.7	4	5	-1						4	15 PP
THULE	17.88	314.9	4	7	-4							
RATHFARNHAM	18.77	189.4	4	23	1						4	49
MUNSTER	20.36	164.0	5	38	58							
KEW	20.47	178.3	4	46	5	8	22	-4				
POTSDAM	20.56	154.4	4	42	0						5	0 PP
HALLE	21.28	156.8	4	49	-1						5	25 PPP
UCCLE	21.29	170.1	4	50	0	8	48	6				
BENSBERG	21.32	165.2	4	50	0							
COLLMBERG	21.61	155.1	4	49A	-4						5	22 PP
JENA	21.79	157.7	4	55	0	9	0	8			5	26
DOURBES	22.00	169.9	5	0	3	9	0	4				
SONNEBERG	22.29	158.6	5	1	1							



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1960										PAGE 176	
PLAUEN	22.29	157.0	4	58	-2						
CHEB	22.72	156.8	5	5	1						
MOSCOW	22.93	114.2	5	6	0					5	26
PRAGUE	23.00	153.5	5	13	6						
PRUHONICE	23.11	153.3	5	9A	1					5	51
PARIS	23.20	173.7	5	10	1						
RACIBORZ	23.57	147.5	5	14	2					5	48 PP
STUTTART	23.68	162.4	5	14	1	9	40	14			
STRASBOURG	23.73	165.0	5	16	2					5	54 PP
TUBINGEN	23.90	162.9	5	16	0						
KRAKOW	23.91	144.9	5	16	0					5	43 PP
EBINGEN	24.23	163.1	5	20	1						
BASLE	24C	1 5C	5	24	0						
SKALNATE PL.	24.80	145.0	5	21	-3						2
LWOW	24.92	138.9	5	28K	2					6	12
BESANCON	24.93	168.2	5	28	2						
NEUCHATEL	25.24	166.7	5	29	0						
BRATISLAVA	25.25	150.3	5	29A	0						
CLERMONT-FD.	26.26	173.0	5	40	2						
SIMFEROPOL	31.79	128.7				11	43	5			
TIKSI	33.21	26.3	6	41	1						
TIFLIS	37.60	117.9	7	20	2					8	41 PP
COLLEGE	41.65	339.3	7	54	3						
YAKUTSK	42.22	32.0	7	55	-1						
KSARA	42.79	132.2	8	1	1					9	39 PP
JERUSALEM	44.59	133.8	8	17	2					9	59 PP
PALISADES	46.25	269.2				15	32	17			
TAMANRASSET	49.26	171.7	8	53A	1					10	46 PP
HUNGRY HORSE	51.19	307.9	9	5	-2						
QUETTA	54.86	100.5	9	36	2						
EUREKA	59.99	305.7	10	10	0						
TUCSON TELE.	65.33	298.6	10	49	3						
PASADENA	65.59	305.7	10	50	3						
KARAPIRO	145.95	4.5	19	42	2						

MARCH 4 21.H 5.M 47.S EPICENTRE 7.45 94.24 DEPTH= 0.KM

A=-0.07336 B= 0.98896 C= 0.12877 D= 0.9973 E= 0.0740  
G=-0.0095 H= 0.1284 K=-0.9917 HT= 6.8

SE= 3.01

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PORT BLAIR	4.46	340.4	1	18	8	2	8	4			1	33 PG
MEDAN	5.85	130.8	1	29	-1	2	37	-2				
COLOMBO	14.27	268.7	3	24	-1	7	14	69			9	29
MADRAS	14.89	292.9	3	33	0	6	36	16			3	46 PP
CHITTAGONG	15.01	351.3	3	35K	0	6	20	-3			3	44 PP
CALCUTTA	16.03	340.0	3	59	11	6	59	12				
KODAIKANAL	16.80	280.7	4	7	9							
SHILLONG	18.16	353.1	4	10A	-5	7	35	-1			4	23 PP
BOKARO	18.19	334.5	4	7	-8	7	32	-4			4	29 PPP
HYDERABAD	18.32	304.3	4	15A	-2	7	43	4			4	31 PP
KUNMING	19.36	23.8	4	34	5	8	17	14				
LEMBANG	19.47	136.4	4	37	6							
CHATRA	20.41	341.6	4	38K	-3	8	26	1				
LHASA	22.28	352.6	5	0	0	9	4	3				
POONA	22.69	301.0	5	7A	3	9	24	15				
BOMBAY	23.73	300.8	5	17	3	9	35	8			6	4 PPP
CANTON	24.06	47.6	5	20	3							
HONG KONG	24.22	50.3	5	22K	3	9	49	14				
CHENG TU	24.84	20.4	5	27	2	9	52	6				
AGRA	24.90	323.8	5	26A	0	9	52	5			11	20 SSS
BAGUIO CITY	27.24	68.5	5	51	4							
MANILA	27.28	72.4	5	45	-3	13	42	196				
DEHRA DUN	27.36	328.3	5	54	6	10	55	27			7	8
TAWU	29.64	57.1	16	17	608							
LANCHOW	29.79	15.8	6	11	1							
WUHAN	29.83	37.0	6	11	0	11	11	4				
SIAN	29.91	24.9	6	11	-1							
NANKING	33.49	39.7	6	44	1	12	10	5				
WARSAK DAM	33.72	324.7	6	45	0	12	7	-1				
QUETTA	34.15	315.0	6	49	0	12	16	1				
ZO-SE	34.46	43.4	6	50	-1	12	21	1				
PAOTOW	35.88	20.7	7	3	0							

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PEKING	37.92	27.8	7 22	1	13 21	8			
ANDI JAN	38.47	332.9	7 57	32					
STALINABAD	38.58	327.3	7 25	-1	13 18	-5			
ALMATA	38.78	339.7	7 28	0					
NAMANGAN	38.97	332.5	7 31	2	13 27	-2			
FRUNSE	39.25	337.0	7 32	0					
ULAN-BATOR	41.74	12.8	7 52	0					
MUNDARING	44.45	153.0	8 13	-1					
CHANGCHUN	45.28	31.7	8 22	1	15 2	0			
IRKUTSK	45.45	8.7	8 21	1	15 8	4			
VLADIVOSTOK	48.51	36.7	8 48	2					
MATUSIRO	49.37	47.5	8 53	0	15 58	-2	10 15	PCP	
MAKHACH-KALA	54.11	318.7					18 54		
ADDIS ABABA	54.88	275.8	9 39	5					
TIFLIS	55.38	316.3	9 37	-1					
SVERDLOVSK	55.84	338.4	9 40	-1	17 23	-5			
CHARTERS TS.	58.02	119.1	9 54	-3					
ADELAIDE	59.49	138.1	10 5	-2					
KSARA	59.71	304.8	10 12	3					
JERUSALEM	59.85	302.4	10 10	0					
YAKUTSK	60.37	18.4	10 12	-1	18 22	-5			
HELWAN	62.87	299.7	10 29K	-1					
MELBOURNE	65.27	137.6	10 45	-1					
MOSCOW	65.49	328.7	10 47	0	19 26	-5			
LWIRO	65.99	264.2	10 51	1					
CANBERRA	66.81	133.4	10 53A	-2			11 36	PCP	
MAGADAN	67.10	27.5	10 57	0			11 9	PCP	
BROKEN HILL	68.76	251.4					11 16	PCP	
BULAWAYO	70.10	245.5							
ATHENS	70.11	307.6	11 7	-9					
PULKOVO	70.63	331.2	11 18	-1	20 28	-5			
PRETORIA	72.11	240.0	11 40	12					
APATITY	72.26	339.4	11 27	-2					
HELSINKI	73.32	330.8	11 33	-2					
NURMI JARVI	73.56	331.1	11 35	-1	21 1	-5			
SKALNATE PL.	73.94	319.0	11 36	-3					
KRAKOW	74.26	319.8	11 40	-1			11 52	PCP	
SODANKYLA	74.64	338.2	11 41	-2					
KHEYS	75.03	354.2	11 43	-2					
BRATISLAVA	75.91	317.7	11 49A	-1					
VIENNA-H.	76.41	317.8	11 53	0					
UPPSALA	76.88	329.7	11 53	-2					
KIRUNA	77.05	338.0	11 56	0					
LJUBLJANA	77.55	315.4	11 59	0					
PRUHONICE	77.71	319.5	11 59	-1			15 1	PP	
ISOLA	77.87	310.0	12 33	32					
TOLMEZZO	78.60	315.8	12 12	7					
COLLMBERG	78.75	320.8	12 3	-3			14 51	PP	
PLAUEN	79.26	319.9	12 6	-3					
COPENHAGEN	79.26	325.2	12 9	0					
HALLE	79.42	320.9	12 9	0			12 17	PCP	
GOTEBORG	79.61	327.3	12 7	-3					
JENA	79.64	320.4	12 10	-1	22 13	0	15 17		
SKALSTUGAN	79.79	333.3	12 10	-1					
ISFJORD	80.81	348.0	12 16	-1					
CHUR	81.00	316.2	12 17K	-1					
WINDHOEK	81.09	245.8	12 22	4					
STUTT GART	81.13	318.2	12 18	0					
MUNSTER	82.11	321.4	12 24	0					
BASLE	82.31	316.9	12 22	-3					
SETIF	84.73	305.7	12 39	2					
PARIS	85.61	318.5	12 41	0					
NORD	85.68	352.1	12 39	-3					
TAMANRASSET	85.99	292.3	12 44	1			16 3	PP	
ALGIERS UNI.	86.55	306.5			23 0	-22			
FOLINIERE	87.56	318.7	12 50	-1					
KARAPIRO	87.72	128.5	12 51	-1					
RELI ZANE	88.68	305.7	13 1	5					
ALMERIA	90.92	307.2	13 8A	1	23 42	-21	20 33		
TOLEDO	91.59	310.4					18 44	SSS	
GRANADA	91.75	307.7					19 55		
COLLEGE	94.70	22.2	13 24	0					
THULE	95.65	355.9	13 27	-1			17 17	PP	
RESOLUTE	97.83	2.4	13 37	-1					
HUNGRY HORSE	119.12	21.2	18 48	-3					
EUREKA	125.57	28.6	19 5	2					
PALISADES	130.57	348.2					36 35	PKPPKP	
SAN JUAN	147.84	323.2	19 49	5					

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MARCH 5 11.H 25.M 3.S EPICENTRE 29.49 81.19 DEPTH= 0.KM

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G= 0.0750 H= 0.4840 K=-0.8719 HT= 2.0

SE= 2.53

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.		
			M	S	S	M	S	S	M	S	M	S	
DEHRA DUN	2.85	287.7	0	53	6	1	28	5			1	1	PP
AGRA	3.65	230.7	1	1K	2	1	43	0			1	12	PP
CHATRA	5.91	115.2	1	32A	1	2	38	-2					
LAHORE	6.26	290.9	1	39	3	2	45	-4					
BOKARO	6.98	142.7	1	46	0	3	1	-6			3	41	SG
SEHORE	7.29	211.3	1	46	-4	3	11	-4			1	52	PP
LHASA	8.58	86.6	2	10	2								
WARSAK DAM	9.36	301.2	2	20	1	4	4	-2					
CALCUTTA	9.47	135.4	2	26	6	4	16	7					
SHILLONG	10.25	109.8	2	26A	-5	4	14	-14			2	40	PPP
VIZIANAGRAM	11.50	169.1	2	59	11								
CHITTAGONG	11.91	124.1	2	55	1	4	59	-10					
HYDERABAD	12.26	192.4	2	54	-4	5	2	-15					
TOCKLAI	12.30	99.6	2	53	-6								
QUETTA	12.38	276.7	2	57	-3	5	9	-11					
POONA	12.80	213.2	3	3K	-3	5	19	-11					
BOMBAY	13.01	217.7	3	8	0	5	24	-11			5	39	SS
ANDI JAN	13.34	329.7	3	12	-1	5	34	-9					
KARACHI	13.42	253.1	3	12	-2	5	32	-13					
STALINABAD	13.70	314.6	3	13	-5								
NAMANGAN	13.84	328.4	3	19	0	5	46	-9					
FRUNSE	14.32	340.1	3	26	0								
MADRAS	16.43	183.5	3	54	1	6	52	-4			4	11	PPP
KODAI KANAL	19.47	191.0				8	5	0					
KUNMING	19.63	97.7	4	31	-1	8	10	1					
CHENG TU	19.78	80.9	4	34	0	8	17	5					
LANCHOW	20.11	65.1	4	36	-2	8	19	0					
PORT BLAIR	20.73	146.4	4	51	7	8	45	13					
SIAH	23.99	71.4	5	17	0	9	37	6					
PAOTOW	25.97	57.0	5	37	1								
ULAN-BATOR	27.03	40.0	5	46	1								
WUHAN	28.86	79.5	6	1	-1								
MAKHACH-KALA	30.11	305.7									12	37	SS
PEKING	30.43	60.4	6	19	3	12	10	53					
SVERDLOVSK	30.92	337.9	6	30	10								
TIFLIS	31.77	302.5	6	29	1								
ZO-SE	34.44	77.1	6	51	0								
CHANGCHUN	37.73	55.4	7	19	0								
MOSCOW	40.42	323.0	7	39	-2								
HELWAN	43.04	283.4	8	4A	1						9	54	
ADDIS ABABA	44.59	251.6	8	19	4								
YAKUTSK	45.24	29.8							9	8	10	9	PP
PULKOVO	45.51	326.6	8	24	1								
LWOW	47.20	312.1	8	37A	1								
APATI TY	47.37	337.3	8	37	0								
MATUSIRO	47.74	65.9	8	39A	-1								
HELSINKI	48.20	326.1	8	44	0								
NURMI JARVI	48.43	326.5	8	46	0	15	42	-4					
TIKSI	49.41	18.0	8	53	0								
SODANKYLA	49.67	335.6	8	55	0								
RACIBORZ	50.97	312.4	9	6	1								
UPPSALA	51.78	324.9	9	10A	-1								
KIRUNA	52.07	335.2	9	13	0								
KHEYS	52.08	355.3	9	14	1								
PRUHONICE	53.33	312.4	9	23A	0						11	26	PP
PRAGUE	53.40	312.5	9	27	4						11	26	PP
LJUBLJANA	53.71	307.5	9	26A	1						10	32	PCP
POTSDAM	54.12	315.4	9	30	1								
COLLMBERG	54.23	314.1	9	27A	-2						11	32	PP
TRIESTE	54.29	307.1	9	29	-1								
COPENHAGEN	54.36	319.5	9	30	0								
GOTEBORG	54.60	322.0	9	30	-2						9	46	
SKALSTUGAN	54.66	329.2	9	32	-1								
TOLMEZZO	54.70	308.1	9	33	0						10	33	
PLAUEN	54.82	313.1	9	31	-3								
HALLE	54.87	314.4	9	34	0						11	36	PP

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ISOLA	54.96	301.1	10 1	26	
JENA	55.15	313.7	9 36	0	10 21
RAVENSBURG	56.80	310.1	9 48	0	
STUTT GART	56.88	311.3	9 49A	0	11 59 PP
TUBINGEN	57.05	311.1	9 49	-1	
HEIDELBERG	57.16	312.1	9 50	-1	
EBINGEN	57.17	310.7	9 51	0	
MUNSTER	57.50	315.3	9 55	2	
CHIAVARI	57.61	306.1	11 32	98	13 3 PPP
STRASBOURG	57.90	311.3	9 55	-1	
BASLE	58.21	310.1	9 57A	-1	
NEUCHATEL	58.72	309.6	10 1	-1	
MONACO	59.06	305.8	10 4A	0	
LWIRO	59.16	247.2	10 5	0	
BESANCON	59.33	310.0	10 5	-1	
DOURBES	59.68	313.5	10 9	1	
UCCLE	59.70	314.3	10 11	3	18 17 -1
CLERMONT-FD.	61.58	308.9	10 21	0	
NORD	62.17	350.5	10 23	-2	
KEW	62.44	315.7	10 26	-1	
SETIF	62.54	297.9	10 28K	0	
RATHFARNHAM	65.49	318.8	11 17	30	
RELIZANE	66.41	298.9	10 51A	-2	12 24 PP
BROKEN HILL	67.03	236.8	10 57	0	
TAMANRASSET	67.19	284.0	10 58A	0	13 29 PP
ALMERIA	68.30	300.9	11 4A	-1	13 28 PP
TOLEDO	68.38	304.4	11 5A	0	
MUNDARING	69.59	148.6	11 10	-3	
BULAWAYO	70.72	232.2	11 19A	0	
THULE	72.64	352.8	11 29	-2	
PRETORIA	74.84	228.3	12 7	23	
RESOLUTE	76.06	358.9	11 49A	-2	
COLLEGE	78.54	19.2	12 4	0	14 59 PP
CHARTERS TS.	79.74	120.0	12 11	0	
ADELAIDE	83.97	135.8	12 33	0	
MELBOURNE	89.66	134.7	13 1	0	
CANBERRA	90.72	130.8	13 7K	1	
HUNGRY HORSE	101.32	10.3	17 50	777	
EUREKA	109.55	14.0	18 35	3	19 3 PP
TUCSON TELE.	117.48	11.4	18 51	4	
TUCSON	117.55	11.5	18 50	2	
BYRD STATION	128.64	175.5	19 10	1	22 26 SKP
LA PAZ	149.04	287.9	19 51	5	20 2 PKP2
HUANCAYO	152.11	303.6			20 2 PKP2

MARCH 5 13.H 49.M 19.S EPICENTRE 0.74 128.78 DEPTH= 0.KM

A=-0.62634 B= 0.77944 C= 0.01287 D= 0.7795 E= 0.6264

G=-0.0081 H= 0.0100 K=-0.9999 HT= 7.2

SE= 3.24

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
MANILA	15.80	331.5	3	43	-2							7 39 PPP
BAGUIO CITY	17.55	333.0	4	5	-2	7	33	11				
GUAM	20.23	50.7	4	38K	-1	8	25	4				
PORT MORESBY	20.88	119.3	4	42	-4	8	44	9				
LEMBANG	22.42	250.1	5	3K	2	9	8	5				
HENGCHUN	22.53	340.2	5	7	5	9	17	11				
TAWU	22.81	340.9	5	8	3	9	15	4				
DJAKARTA	22.97	252.3	5	6K	-1	9	19	5				
TAITUNG	23.10	341.8	5	10	2	9	15	-1				
KAHSIUNG	23.27	339.7	6	14	64							
TAINAN	23.64	340.0	5	58	45	10	13	48				
YUSHAN	23.85	342.0	5	23	8	10	48	79				
ALISHAN	23.93	341.7	5	23	7	9	36	6				
HWALIEN	24.11	343.8	5	19	1	9	45	12				
TAICHUNG	24.56	341.9	5	22	0	9	47	6				
ILAN	24.84	344.6	5	27	2	9	51	5				
HSINCHU	25.08	343.1	5	32	5	9	56	6				
TAIPEI	25.14	344.3	5	32	4	9	56	5				
HONG KONG	25.72	327.4	5	33A	0	10	13	12				6 5 PP
CANTON	26.81	327.1	5	42	-1	10	18	-1				5 59 *SP
CHARTERS TS.	26.87	141.4	5	42K	-2	10	16	-4				
YAKUSIMA	29.59	3.0	6	5	-3	10	56	-7				

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1960		PAGE 180									
MEDAN	30.21	275.8	6 15A	1	11 9	-4					
KAGOSIMA	30.71	3.0	6 20	2	11 22	1					
ZO-SE	31.04	347.3	6 19	-2	11 21	-5	6 28				
MIYAZAKI	31.11	4.3	6 23	1	11 28	1					
TORISIMA	31.53	19.2	6 31	5							
TOMIE	31.71	360.0	6 32	5	11 31	-6					
NAGASAKI	31.83	1.8	6 25	-3	11 33	-6					
KUMAMOTO	31.96	3.0	6 53	24						7 36	
SIMIDU	32.11	6.6	6 26	-5	11 40	-3				7 39	
SAGA	32.37	2.4	6 33	0	11 47	0				8 39	
OOITA	32.43	4.4	6 30A	-3	11 43	-5					
NANKING	32.55	344.1	6 32A	-3	11 48	-2	6 42				
WUHAN	32.56	336.8	6 34A	-1	11 45	-5					
HUKUOKA	32.70	2.5	6 33	-3	11 48	-4				7 41	PP
MUROTO	32.73	8.4	6 36	0	11 51	-2					
KOTI	32.94	7.3	6 37	-1	11 50	-6				7 45	PP
SIMONOSEKI	33.09	3.3	6 38	-1	11 41	-17				14 47	
MATUYAMA	33.14	6.1	6 40	0	11 57	-2				7 43	
SIOMISAKI	33.19	10.7	6 56	16	11 57	-3					
TOKUSIMA	33.60	8.7	6 42	-2	12 3	-3					
HIROSIMA	33.63	5.4	6 43	-1	12 3	-4				7 51	PP
TAKAMATU	33.76	7.9	6 49	4	12 7	-2					
WAKAYAMA	33.85	9.5	6 51	5	12 3	-7				12 22	
OWASE	33.87	11.1	6 31	-15	12 8	-2					
SUMOTO	33.91	9.1	6 43A	-3	12 1	-10				7 59	PP
OKAYAMA	34.10	7.6	6 49	1							
HAMADA	34.12	4.8	6 47K	-1	12 6	-8				7 59	PP
KOBE	34.29	9.4	6 50	0	12 13	-4					
OSAKA	34.32	9.9	6 50	0	12 16	-1				8 29	
NARA	34.40	10.3	6 48	-3							
ABUYAMA	34.54	9.9	6 50A	-2							
MUNDARING	34.65	199.0	6 51A	-2	12 23	1					
KAMEYAMA	34.68	11.1	6 55	2	12 19	-4				8 39	PP
KYOTO	34.71	10.0	6 54	1	12 21	-2					
PERTH	34.75	199.5	6 53	-1	12 32	8				12 13	
MATSUE	34.76	6.1	6 52	-2	12 23	-1					
YONAGO	34.77	6.5	6 55	1	12 15	-9				8 4	
OMAESAKI	34.82	13.7	6 51	-3	12 18	-7					
TOTTORI	34.95	7.7	6 53	-2						16 57	
HIKONE	35.05	10.7	6 55	-1	12 26	-3				8 15	PP
TOYOOKA	35.06	8.6	6 53	-3	12 26	-3					
NAGOYA	35.09	11.7	6 55	-2	12 27	-2					
MAIZURU	35.09	9.4	7 0	3	12 27	-2				8 13	
SHIZUOKA	35.21	13.8	6 56	-2							
OSIMA	35.27	15.2	7 1	3						8 4	PP
GIHU	35.27	11.3	6 55A	-3	12 27	-5					
TSURUGA	35.39	10.3	7 0	1							
AJIRO	35.46	14.7	7 5	5						8 34	
MISIMA	35.49	14.4	6 54	-6						14 56	
SAIGO	35.53	6.3	6 53	-7	12 34	-2				8 18	
NERA	35.53	15.7	8 11	71						11 58	
IIDA	35.61	12.7	7 2	1	12 25	-12				16 18	
HUKUI	35.80	10.3	7 9	6							
HUNATU	35.81	14.0	7 6	3	12 47	7					
KOHU	35.92	13.6	6 53	-11	12 34	-8					
YOKOHAMA	35.96	15.2	8 2	58						15 36	
TOKYO C.M.O.	36.23	15.2	7 26	20	12 45	-2				8 43	
BRISBANE	36.26	142.3	7 6	0	12 46	-1					
HONGO	36.26	15.2			12 44	-3				8 35	
TITIBU	36.34	14.2	7 11	4							
MATUMOTO	36.34	12.6	7 6	-1	12 37	-12					
OIWAKE	36.55	13.3	7 9	0	12 51	-1				8 38	
KUMAGAYA	36.58	14.5	7 10	1						11 50	
TOYAMA	36.62	11.4	7 7	-2	12 49	-4				15 30	
MATUSIRO	36.67	12.8	7 6A	-4	12 46	-8				8 31	PP
ADELAIDE	36.72	166.3	7 10	0	12 55	1				8 35	PP
MAEBASI	36.74	13.9	7 10	0						8 47	
NAGANO	36.80	12.7	7 9	-2	12 48	-8				8 53	PP
TUKUBASAN	36.83	15.3	7 4A	-7	12 40	-16				9 20	PCP
KAKIOKA	36.86	15.4	7 10	-1							
MITO	37.08	15.7	7 24K	11							
UTUNOMIYA	37.08	14.9	7 15	2	12 51	-9				8 40	
WAZIMA	37.22	10.7	7 15	0	12 58	-4				8 39	
TAKADA	37.22	12.6	7 16	1							
PORT BLAIR	37.40	288.3	7 18	2	13 4	-1				8 46	PP
SHIRAKAWA	37.71	15.0	7 17	-2	13 6	-4					
ONAHAMA	37.73	15.9	7 18	-1	13 6	-4				8 34	PP
CHENG TU	37.92	324.0	7 20	0	13 10	-3	7 30				

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AIKAWA	38.10	12.2	7 19	-3	13 10	-6	8 48 PP
SIAN	38.17	332.9	7 20	-2			
NIIGATA	38.18	13.2	7 26	3			
HUKUSIMA	38.37	15.0	7 22	-2	13 17	-3	
YAMAGATA	38.81	14.6	7 27	-1	13 27	1	
SENDAI	38.97	15.2	7 26	-3	13 24	-5	16 14 SS
ISINOMAKI	39.23	15.6	7 32A	1	13 37	4	
SAKATA	39.30	13.7	7 39	7	13 34	0	
MIZUSAWA	39.84	15.0	7 41	5	13 42	0	
AKITA	40.14	13.6	7 45	6	13 46	0	
RIVERVIEW	40.31	150.7	7 40A	0	13 49	0	9 16 PP
MORIOKA	40.39	14.8	7 40	-1	13 47	-3	
CANBERRA	40.54	154.2	7 42A	0	13 53	1	9 25 PP
MIYAKO	40.55	15.7	7 43	1	13 44	-8	15 1
KOLMAC	40.68	123.4	7 40	-3			9 51 PCP
PEKING	40.76	345.1	7 42A	-2	14 36	41	7 53
MELBOURNE	41.19	160.4	7 48A	0	13 59	-3	9 29 PP
HATINOME	41.26	14.8	7 50	2	14 2	-1	
AOMORI	41.35	13.8	7 49	0	14 5	1	
TOCKLAI	41.68	311.2	7 55	3			
CHITTAGONG	41.89	303.5	7 50	-3	14 10	-2	9 31 PP
LANCHOW	42.08	329.3	7 55	0	14 14	-1	
VLADIVOSTOK	42.28	3.4	7 55	-1	14 16	-2	9 37 PP
HAKODATE	42.28	13.3	7 56	-1	14 39	21	9 46
MORI	42.52	13.0	7 57	-1	14 18	-3	10 18
MURORAN	42.82	13.3	8 16	15			
CHANGCHUN	43.01	356.3	7 59A	-3	14 24	-5	8 11
URAKAWA	43.10	15.3	8 6	3	14 33	3	
SUTTSU	43.11	12.3	8 7	4	14 26	-4	8 48
PAOTOW	43.16	339.0	8 1	-3	14 29	-2	
TOMAKOMAI	43.25	13.8	8 9	5			
NOUMEA	43.27	124.3	9 4	59			
SHILLONG	43.32	307.7	8 3A	-2	14 30	-3	13 53 PCS
SAPORO	43.62	13.4	8 9	2	14 36	-2	17 59 SS
OBIIRO	43.93	15.3	8 12	2			
KUSIRO	44.32	16.4	8 12	-1	14 43	-5	
ASAHIGAWA	44.53	14.0	8 14	-1			
CALCUTTA	44.86	301.8	8 16	-1	15 1	5	
NEMURO	44.98	17.4	8 19	1	15 2	5	18 9
ABASHIRI	45.25	15.7			14 50	-11	
WAKKANAI	45.92	12.6	8 35	9	15 15	4	
LHASA	46.00	312.2	8 28	2	15 12	0	
FORT NELSON	46.57	161.2	8 42A	11	15 38	18	
BOKARO	47.54	302.2	8 40	1	15 33	-1	11 13 PPP
CHATRA	47.64	306.6	8 39K	0			
Y.-SAKHLINSK	47.67	12.9	8 37	-3	15 32	-4	11 22 PPP
COLOMBO	49.16	278.4	8 51	0			15 53
MADRAS	49.66	286.4	8 55K	0	16 3	-1	10 53 PP
ULAN-BATOR	50.68	341.1	9 1	-2			14 46 PCS
KODAIKANAL	51.87	282.4	9 10K	-2	16 34	0	12 10 PPP
HYDERABAD	52.18	291.5	9 12K	-2	16 37	-1	11 6 PP
AGRA	55.28	302.9	9 37K	0	17 16	-4	20 34 SS
IRKUTSK	55.29	342.0	9 34A	-3			17 20
ONERAHI	55.83	135.4	10 11	30			13 7
DEHRA DUN	56.38	306.5	9 49	4	17 35	0	12 0 PP
POONA	56.69	291.7	9 47K	0	17 34	-5	
COBB RIVER	57.60	141.6	9 54	0			10 7
KAIMATA	57.64	143.6	10 5	11			
PETROPAVLOVK	57.72	20.8	9 57	3			
BOMBAY	57.72	291.9	9 53	-2	17 50	-3	18 6 PPS
KARAPIRO	57.73	137.1	9 53	-2			
ROXBURGH	58.30	147.5	10 5	6	17 57	-3	22 10 SS
TONGARIRO	58.38	138.3	9 57	-2			10 11
CHATEAU	58.39	138.3	9 58	-1			
WELLINGTON	58.99	140.8	10 9	6	18 4	-5	24 0
GEBBIES PASS	59.07	144.1	10 6	2			
TUAI	59.27	137.2	10 7	2			
LAHORE	59.80	306.5	10 11	2	18 21	1	
AFIAMALU	60.62	106.3	10 12A	-3	18 23	-7	22 23 SS
MAGADAN	61.10	12.6	10 17	-1	18 37	1	
WARSAK DAM	62.82	308.3	10 29	0			
FRUNSE	63.94	318.4	10 39	2	19 11	-1	
KARACHI	64.18	297.2	10 37K	-1	19 13	-2	
SEMI PALATNSK	64.30	327.8	10 38	-1	19 13	-4	
QUETTA	65.47	303.0	10 45K	-2	19 29	-2	13 15 PP
STALINABAD	66.44	312.2	10 51	-2	19 41	-2	
TASHKENT	67.00	315.2	10 55	-1	19 48	-2	20 54
WILKES	68.20	187.8			20 6	2	24 48 SS
TIKSI	70.78	0.0	11 16	-4	20 31	-3	13 49 PP



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MIRNY	71.77	194.3	11	24	-2	20	45	-1		
HONOLULU	74.01	68.2	11	40A	1	21	9	-2		
KIPAPA	74.10	68.0	11	38	-1					
ASHKABAD	74.18	309.3	11	40	0					
CAPE HALLETT	77.47	168.0	12	7	8	21	53	4	11	58 PCP
SVERDLOVSK	77.57	328.5	11	56	-3	21	46	-4	14	21 PP
SCOTT BASE	81.12	172.4	12	19	1					
GORIS	83.70	309.5	12	30	-2				18	0
TIFLIS	85.01	311.6	12	38	0	23	6	-1	12	42 PCP
COLLEGE	86.52	25.1	12	45A	-1	23	21	-1	26	51
MOSCOW	90.04	325.6	13	1	-2				16	34 PP
SOUTH POLE	90.74	180.0	13	5	-1	23	38	-23	14	22
APATITY	91.37	337.5	13	5	-4	24	1	-5	16	47 PP
KSARA	92.01	303.7	13	14	2	24	27	15	17	7 PP
JERUSALEM	92.65	301.7	13	19	4	24	20	2		
SIMFEROPOL	92.79	314.9	13	17A	2				24	22
PULKOVO	93.63	329.9	13	19	0				17	54 PSP
SODANKYLA	93.99	337.7	13	18	-3	23	56	-33	17	9 PP
ISFJORD	94.35	349.1	13	25	3					
BYRD STATION	94.43	170.6	13	22	-1	23	34	-59	17	20 PP
LCO. MARQUES	95.89	244.1				24	5	-1	31	35 SS
HELWAN	96.10	300.0	13	32	2	24	5	-2		
KIRUNA	96.18	338.8	13	28	-3				17	1
NORD	96.22	355.2	13	29	-2	23	59	-8	25	54 PS
NURMI JARVI	96.29	331.1	13	31	0	24	43	35	24	6 SKS
IASI	97.08	317.6				24	12	0		
BACAU	97.63	317.1	18	11	777					
BUCHAREST	98.53	315.0	13	50	9	25	6	47	24	26 SKS
LWOW	98.92	320.7	13	46	3				18	11 PSP
CAMPULUNG	99.14	316.0	18	30	777					
SKALSTUGAN	99.67	335.4	13	54	7					
BULAWAYO	99.81	249.8	13	47	0					
UPPSALA	99.85	331.5	13	46	-1				18	3
LWIRO	100.01	267.9	13	54	6				14	26
BROKEN HILL	100.17	255.5	13	50	1					
WARSAW	100.22	323.5				24	29	1	27	31 PPS
RESOLUTE	100.36	10.8	13	47	-3					
GRAHAMSTOWN	100.61	236.4	13	56	5					
ATHENS	101.39	308.9	13	54A	0					
KRAKOW	101.45	321.5	13	55	0	25	17	43	20	20 PPP
SKALNATE PL.	101.47	320.6	13	59	4					
TIMISOARA	101.66	317.0	14	47	51	24	49	14	25	13
CORVALLIS	102.17	44.1	14	7	9					
THULE	102.32	4.1	13	54A	-4				18	9 PP
BELGRADE	102.40	316.2	18	18A	777	24	49	31	18	18 PP
RACIBORZ	102.51	321.8	16	57	777				28	56
BUDAPEST	102.70	319.1				24	46	6	18	9
HURBANOVO	103.13	319.7							19	24
GOTEBORG	103.37	330.5	14	7	4				17	30
SHASTA	103.71	47.8	14	5	0					
BRATISLAVA	103.75	320.2							17	40
COPENHAGEN	103.92	328.5							18	41 PP
MINERAL	104.37	48.0	14	18	10				17	37
BERKELEY	104.43	50.6	14	53	45	24	48	0	18	17 PP
PRUHONICE	104.78	322.5	14	6	-3	24	42	-7	18	21 PP
POTSDAM	104.82	325.2	14	13	4	26	3	74	18	34 PP
PRAGUE	104.83	322.6				26	2	73	18	26 PP
LICK	105.03	51.0	14	20	777				18	27 PP
ZAGREB	105.18	318.1				24	50	-1	18	19 PP
BERGEN	105.23	334.6				26	0	69	27	2 PS
COLLMBERG	105.25	324.1	18	24	777	26	3	72	18	42 PP
TARANTO	105.76	312.5	19	36	777	26	16	82		
HALLE	105.79	324.6	14	10	777	24	47	-7	18	37 PP
RENO	105.90	48.5	14	9	777					
PLAUEN	106.04	323.5	17	53	777				18	34 PP
CHEB	106.06	323.1	18	17	777	26	12	77	18	47 PP
LJUBLJANA	106.08	318.6							18	30 PP
JENA	106.22	324.1	14	18	777	26	14	78	18	43 PP
SCORESBY SD.	106.33	350.1				26	5	69	17	57 PP
HERMANUS	106.49	234.3				25	6	9	20	28 PP
FRESNO	106.59	51.3	14	28	777				19	4
SONNEBERG	106.65	323.7	18	26	777					
TRIESTE	106.72	318.4				25	0	2	18	50 PP
TOLMEZZO	106.95	319.3	18	22	777	25	19	20	20	14 PP
HUNGRY HORSE	107.17	38.4	14	25A	777				18	50 PP
MESSINA	107.63	310.6	18	53	777					
MUNSTER	108.06	326.2	18	9	777				19	16
ISOLA	108.14	313.5	18	44	777				19	29 PP



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BAGUIO CITY	17.40	332.8	4	7	2	7	37	19					
GUAM	20.15	51.0	4	39	1								
PORT MORESBY	20.98	119.6	4	47	0	8	41	4					
HENGCHUN	22.37	340.1	5	8	7								
LEMBANG	22.45	249.7	5	4	2	9	11	7					
TAWU	22.65	340.8	5	9	5	9	32	24					
DJAKARTA	23.00	251.9	5	11A	4	9	24	10					
RABAU	23.93	102.4	5	21	5								
HWALIEN	23.95	343.7	5	13	-3								
ILAN	24.68	344.6	5	26	3								
HONG KONG	25.57	327.3	5	33A	1	10	7	9			6	1	PP
CANTON	26.66	326.9	5	42A	0	10	17	1					
CHARTERS TS.	27.01	141.5	5	43	-2	10	21	-1					
MEDAN	30.17	275.5	6	14A	0	11	14	1					
ZO-SE	30.88	347.3	6	19	-1	11	24	0					
NANKING	32.39	344.1	6	33	0	11	48	1					
WUHAN	32.40	336.7	6	34	1	11	48	1					
ABUYAMA	34.38	9.9	6	50	0								
MUNDARING	34.79	198.9	6	51	-3						7	55	
KUNMING	34.80	315.8	6	55	1	12	29	4					
BRISBANE	36.40	142.4	7	5	-3	12	46	-3					
MATUSIRO	36.52	12.8	7	4	-5	12	48	-3	7	32	8	30	PP
TUKUBASAN	36.68	15.4	7	4A	-6	12	48	-6			9	0	PPP
ADELAIDE	36.88	166.3	7	10	-2						8	38	PP
PORT BLAIR	37.33	288.1	8	20	65								
CHENG TU	37.78	323.9	7	18A	-1	13	10	0					
SIAN	38.01	332.8	7	21	0	13	15	1					
MIZUSAWA	39.69	15.1	7	38	3	13	41	2					
RIVERVIEW	40.46	150.8	7	46K	5	14	1	10			9	19	PP
PEKING	40.60	345.1	7	42A	-1	13	53	0					
CANBERRA	40.70	154.3	7	43K	0						9	20	PP
MELBOURNE	41.35	160.5	7	48K	-1								
CHITTAGONG	41.78	303.4	7	53K	1	14	13	2			9	30	PP
LANCHOW	41.93	329.3	7	55	1								
CHANGCHUN	42.85	356.3	8	1	0	14	28	2					
PAOTOW	43.00	339.0	8	1	-1	14	31	3					
SHILLONG	43.20	307.6	8	2K	-2	14	30	-1			9	47	PP
CALCUTTA	44.76	301.7	7	48	-29	13	57	-57			15	11	
LHASA	45.87	312.1	8	27	2	15	17	7					
FORT NELSON	46.73	161.2									18	36	
BOKARO	47.44	302.1	8	38	0	15	40	8					
Y.-SAKHLINSK	47.52	12.9	8	38	0	15	37	4					
CHATRA	47.53	306.5	8	39K	1	15	4	-30					
COLOMBO	49.11	278.3	8	27	-24								
MADRAS	49.59	286.3	8	56	2	16	15	12			12	0	PPP
ULAN-BATOR	50.52	341.1	9	0	-2								
KODAIKANAL	51.81	282.2	9	6	-5								
AGRA	55.18	302.8	9	35A	-1								
DEHRA DUN	56.27	306.4	9	48	4	17	31	-2			21	1	SS
POONA	56.61	291.6	9	47	0	17	36	-2					
PETROPAVLOVK	57.57	20.9	9	54	1								
BOMBAY	57.64	291.8	9	54	0	17	50	-1			18	2	PS
KARAPIRO	57.87	137.1	9	54	-1								
CHATEAU	58.52	138.4	10	3	3								
AFIAMALU	60.68	106.4	10	17	2								
MAGADAN	60.95	12.6	10	17	0	18	47	13					
YAKUTSK	60.97	0.5	10	3	-14	18	41	6					
ALMATA	62.47	319.7	10	25	-2								
WARSAK DAM	62.71	308.2	10	26	-3								
FRUNSE	63.80	318.4	10	36	0								
KARACHI	64.09	297.2	10	37K	-1								
ANDIJAN	64.49	315.5	10	40	0	19	20	1					
NAMANGAN	65.07	315.5	10	45	1	19	34	8					
QUETTA	65.37	302.9	10	44K	-2	19	22	-8			13	7	PP
STALINABAD	66.31	312.2	10	53	1								
WILKES	68.35	187.8				20	3	-3					
TIKSI	70.62	0.0	11	17	-2	20	28	-4					
MIRNY	71.92	194.2	11	29	2								
SVERDLOVSK	77.42	328.5	11	57	-1								
SHIRAZ	77.60	300.0	11	56A	-3	20	47	-64					
TANANARIVE	81.98	250.9	12	23	0						13	30	
TIFLIS	84.89	311.6	12	39	1	23	7	1					
KHEYS	86.01	351.1	12	43	0								
COLLEGE	86.38	25.2	12	46	1						15	44	PP
SOTCHI	88.69	313.4	12	54	-2	23	36	-6					
MOSCOW	89.90	325.6	13	1	-1								
SOUTH POLE	90.90	180.0	13	5	-1								
APATITY	91.22	337.5	13	6	-2								
KSARA	91.90	303.7	13	10	-1	24	11	0			16	56	PP

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PULKOVO	93.48	329.9	13 18	0					
SODANKYLA	93.83	337.7	13 19	-1					
BYRD STATION	94.59	170.6	13 23	0					
KIRUNA	96.02	338.8	13 28	-2					
HELSINKI	96.06	330.8	13 30	0					
NURMI JARVI	96.14	331.1	13 29	-2					
BULAWAYO	99.84	249.8	13 47	0					
BROKEN HILL	100.19	255.6	13 49A	0					
RESOLUTE	100.21	10.7	13 46	-3					
PRUHONICE	104.64	322.5						18 25	PP
COLLMBERG	105.11	324.2						18 35	PP
JENA	106.08	324.1	14 21	777				18 42	PP
HUNGRY HORSE	107.05	38.4	18 53	777					
ISOLA	108.01	313.5						19 21	
STUTT GART	108.29	322.7	18 0	777	26 36	91		19 1	PP
SETIF	115.82	311.4	18 47	3					
ALGIERS UNI.	117.34	312.8	18 52	5					
RELIZANE	119.60	312.7	18 48	-4				20 0	
TAMANRASSET	119.99	297.0	18 56K	4				29 10	PKKP
SHAWINIGAN	129.09	19.0	19 12	2					
SEVEN FALLS	129.19	17.2	19 12	2					
PALISADES	133.47	23.7						22 55	PKS
HUANCAYO	153.66	115.8	20 1	9				23 55	PP
CHINCHINA	154.95	76.3	19 58	4					
SAN JUAN	155.89	36.7	20 0	5				23 58	PP
BOGOTA	156.54	76.3	20 3	7				23 2	SKP
LA PAZ	157.26	133.9	20 5	8					
CARACAS	160.71	53.6	20 36	35	27 9	4			

MARCH 6 4.H 11.M 54.S EPICENTRE 23.88-108.52 DEPTH= 0.KM

A=-0.29081 B=-0.86799 C= 0.40251 D=-0.9482 E= 0.3177  
G=-0.1279 H=-0.3817 K=-0.9154 HT= 3.7

SE= 2.91

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MAZATLAN	2.07	109.2	0	36	-1	0	58	-6				
CHIHUAHUA	5.22	24.3	1	28	6	2	30	7				
GUADALAJARA	5.77	122.4	1	29	0	2	48	11				
MANZANILLO	6.19	140.1	1	40	5	2	52	4				
LEON	6.91	112.1	1	50	5	3	14	8			2 17	
TUCSON	8.59	346.8	2	9	0							
TUCSON TELE.	8.65	347.5	2	10	0							
TACUBAYA	9.75	115.4	2	27	2	3	56	-20			4 16	
VERA CRUZ	12.43	109.6	3	3	1	5	31	9			6 1	SS
OAXACA	12.95	119.6	3	8	-1						6 54	
BOULDER CITY	13.24	337.1	3	14	2	5	33	-8				
PASADENA	13.26	322.7	3	12	-1						5 45	
FRESNO	16.10	325.5	3	51	1							
RUTH	16.26	341.8	3	54	2	7	9	16				
EUREKA	16.78	339.7	4	0	2							
VINEYARD	16.94	322.2	4	1	1							
SALT LAKE C.	17.07	351.4	4	3	1							
COMITAN	17.16	113.2				7	30	16			5 18	
FAYETTEVILLE	17.36	42.2	4	2K	-4						5 7	PP
LICK	17.51	323.0	4	9K	1							
LARAMIE	17.56	7.4	4	8	0							
MERIDA	17.72	95.8	4	13	3						9 8	
LITTLE ROCK	17.78	48.7	4	8	-3							
BERKELEY	18.23	323.1	4	14	-3	7	49	11				
RENO	18.30	331.2	4	3K	-14							
LAWRENCE	18.80	33.7	4	21	-2							
UKIAH	19.66	324.1	4	36	2							
MINERAL	19.77	329.3	4	36A	1							
SHASTA	20.42	328.5	4	40K	-2							
RAPID CITY	20.62	10.9	4	44	0	8	54	24				
ARCATA	21.39	326.1	4	53	1							
ST. LOUIS 1	21.41	42.3	4	49	-3	8	50	4				
FLORISSANT	21.43	41.8	4	49	-3	8	51	5				
BOZEMAN	21.84	355.2	4	56	0						5 24	PP
BUTTE	22.33	352.6	5	0	-1							
TERRE HAUTE	23.64	44.3	4	26	-48	9	16	-10				
CORVALLIS	23.92	333.3	5	18A	1							
HUNGRY HORSE	24.81	351.2	5	24	-1							

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COLUMBIA	26.02	61.0	5	42	5	10	18	12			
VICTORIA	27.27	338.1	5	47	-1						
CHAPEL HILL	28.12	57.9	6	4	8					6	58
PENNSYLVANIA	30.70	49.3				11	26	5			
PALISADES	33.56	51.0	6	51	7	12	12	6		12	40
OTTAWA	34.13	42.9	6	45	-4						
BREBEUF	35.50	43.9	6	58A	-3	12	37	1			
SHAWINIGAN	36.49	42.7	7	12	3						
CHINCHINA	36.84	115.5	7	10	-2	13	22	25			
SEVEN FALLS	37.93	42.8	7	21	0						
FUQUENE	38.14	113.1	7	24	1						
BOGOTA	38.31	114.6	7	24	0	13	23	4		9	1 PPP
SAN JUAN	39.82	89.6	7	34	-3						
CARACAS	41.74	101.3	7	46K	-7	14	1	-10			
COLLEGE	48.20	338.7	8	43	-2						
HUANCAYO	48.25	134.1	8	44	-1					9	18
RESOLUTE	51.35	4.6	9	5	-4	16	26	-2			
THULE	56.20	10.6	9	46	2						
LA PAZ	56.27	131.6	9	42	-3						
NORD	66.81	9.2	10	59	3						
SANTA LUCIA	67.46	146.2				19	57	2			
MAGADAN	74.93	328.8	11	44	-1						
TIKSI	76.98	344.1	11	54	-3						
DURHAM	80.01	34.3								15	33 PP
YAKUTSK	82.66	336.2	12	30	3						
SODANKYLA	83.11	16.0	12	29	0						
FOLINIERE	83.44	39.3	12	29	-2						
GOTEBORG	84.83	27.7	12	38	0						
UPPSALA	85.71	24.1	12	36	-6						
NURMI JARVI	87.72	21.2	12	54	2						
COLLMBERG	89.27	32.4	13	3	3						
PULKOVO	90.09	19.5	12	47	-17						
MATUSIRO	93.02	312.2	13	14	-3	24	25	3		13	38
QUETTA	126.08	4.9	19	2	-3						
BROKEN HILL	138.44	85.0	19	16	-12						

MARCH 7 0.H 51.M 40.S EPICENTRE 34.48 55.35 DEPTH= 0.KM

A= 0.46970 B= 0.67954 C= 0.56356 D= 0.8226 E=-0.5686  
G= 0.3204 H= 0.4636 K=-0.8261 HT= 0.3

SE= 3.63

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ASKABAD	4.23	34.2	1	8	0	1	56	-2			2	18 SG
SHIRAZ	5.38	207.2	1	24	0	1	42	-46				
GORIS	8.78	307.4	2	13	1							
QUETTA	10.71	110.4	2	37	-1							
TIFLIS	11.01	314.1	2	46	4	5	10	23				
TASHKENT	12.94	54.1	3	6	-2	5	34	0				
KSARA	16.13	273.2	3	52	2	7	9	19				
JERUSALEM	17.07	266.5	4	3A	1	7	5	-7				
FRUNSE	17.18	55.3	4	1	-2						8	40 SCP
SIMFEROPOL	19.34	309.1	4	29A	-1						4	57 PP
DEHRA DUN	19.60	95.9	4	36	3	8	11	2			8	38 SS
HELWAN	20.83	263.9	4	45A	-1	8	38	4				
BOMBAY	21.96	130.5	5	3	5	8	59	3				
SVERDLOVSK	22.64	7.6	5	3	-1	9	24	16			5	58 PPP
POONA	22.89	129.3	5	6	-1							
IASI	24.41	309.7	5	22	0							
MOSCOW	24.51	335.5	5	22	-1						6	18 PP
BACAU	24.62	307.9	5	32	8							
ATHENS	25.69	287.0	5	33A	-1						6	16 PP
LWOW	27.57	313.3	5	55	4	10	46	14			7	1 PPP
CHATRA	28.33	96.9	5	59A	1	10	45	1				
BOKARO	28.53	103.7									10	49
SKALNATE PL.	29.68	310.4	6	20	10							
PULKOVO	30.14	334.8	6	14	0						7	31 PPP
BRATISLAVA	31.47	307.4	6	20	-6							
HELSINKI	32.40	331.8	6	37	3							
SHILLONG	32.70	95.8	7	34A	57							
NURMI JARVI	32.73	332.2	6	35	-2							
ISOLA	33.19	293.3	7	29	48						9	0 PP
PRUHONICE	33.48	310.1	6	43	0						7	50 PP
TOLMEZZO	33.96	303.5	6	48	0						7	59 PP

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1960					PAGE 187
COLLMBERG	34.72	312.1	6 52	-2	8 4 PP
UPPSALA	35.28	327.7	7 10	11	8 1
HALLE	35.40	312.2	7 0	0	7 34
APATITY	35.44	345.7	7 5	5	8 13
STUTTGART	36.70	307.1	7 8	-3	8 17 PP
SODANKYLA	36.87	341.9	7 15	3	9 27 PCP
BASLE	37.75	305.0	7 13	-7	
NEUCHATEL	38.16	304.1	7 21	-2	
KIRUNA	38.88	339.7	7 30	1	
SKALSTUGAN	39.29	331.2	7 49	16	8 54
DOURBES	39.85	308.9	7 31	-6	
SETIF	40.42	287.3	7 45	3	9 23 PP
FOLINIÈRE	43.15	306.8	8 6	2	
LWIRO	44.24	219.8	8 14	1	
TAMANRASSET	44.86	268.6	8 17A	-1	10 8 PP
BROKEN HILL	54.96	212.3	9 35K	-1	
BULAWAYO	59.98	209.2	10 9	-2	
THULE	63.93	347.4	10 32	-5	
PRETORIA	65.21	207.0	10 44	-2	
COLLEGE	79.32	9.8	12 8	-1	
PALISADES	91.56	324.1			12 52

MARCH 7 5.H 13.M 25.S EPICENTRE 1.57 125.40 DEPTH= 119.KM

A=-0.57912 B= 0.81479 C= 0.02715 D= 0.8151 E= 0.5793  
G=-0.0157 H= 0.0221 K=-0.9996 HT= 7.2

DEPTH OF FOCUS= 0.013R

SE= 2.08

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MANILA	13.70	342.1	3 11	1	5 43	4						
BAGUIO CITY	15.51	342.4	3 33	0	6 9	-12						
LEMBANG	19.61	244.6	4 17	-4	7 50	0						
DJAKARTA	20.08	247.3	4 49	23	8 56	56						
GUAM	22.49	57.4	4 46	-4	8 45	2					5 14	PP
HONG KONG	23.33	332.9	4 57A	-1	9 0	2					5 29	PP
PORT MORESBY	24.25	117.1	5 6	-1	9 25	11						
CANTON	24.39	332.2	5 8A	0	9 16	0	5 33				5 46	PP
MEDAN	26.77	274.8	5 30A	0	10 9	14						
RABAUL	27.35	102.2	5 35	0							6 47	
ZO-SE	29.64	352.7	6 5	9								
CHARTERS TS.	29.69	137.5	5 56	0	10 42	0						
WUHAN	30.59	341.4	6 9	5								
NANKING	30.97	349.0	6 25	17								
KUNMING	32.04	318.8	6 17A	0	11 21	2	6 43				6 56	*SP
MUNDARING	34.47	193.9	6 38	0	11 57	0						
CHENG TU	35.33	327.1	6 44A	-1	12 5	-5	7 10				8 6	PP
MATUSIRO	36.76	17.4	6 56A	-1	12 28	-4					8 18	PP
ADELAIDE	38.43	162.3	7 13	2	12 57	0					8 38	PP
CHITTAGONG	38.63	304.9	7 14	1								
BRISBANE	39.03	139.5	7 17	1	13 7	1						
PEKING	39.19	348.8	7 19	2								
MIZUSAWA	40.05	19.1			13 23	1						
VLADIVOSTOK	41.78	7.1	7 39	0	13 47	0	8 15				9 50	PPP
CHANGCHUN	42.08	359.9	7 41A	0	13 50	-1					8 16	*SP
RIVERVIEW	42.74	147.8	7 48A	1	14 8	7					17 14	SS
CANBERRA	42.82	151.2	7 49	2	14 5	3					9 38	PP
LHASA	42.97	313.9	7 50A	2			8 17					
MELBOURNE	43.18	157.2	7 48A	-2							9 35	PCP
CHATRA	44.45	307.8	8 2A	2								
Y.-SAKHLINSK	47.72	16.0	8 25	-1	15 10	-2					10 50	
ULAN-BATOR	48.87	343.5	8 34	-1								
POONA	53.25	292.0	9 8K	0								
IRKUTSK	53.52	344.0	9 8	-2								
BOMBAY	54.28	292.2	9 16	0	16 40	-2						
LAHORE	56.61	307.3	9 31A	-1								
PETROPVLOVK	58.22	22.9	9 43	-1	17 35	1						
COBB RIVER	60.37	140.2	9 58	0								
YAKUTSK	60.39	2.3	9 57	-2								
KARAPIRO	60.66	135.9	10 0	0							10 45	
KARACHI	60.81	297.6	9 59A	-2								
FRUNSE	61.10	319.4	10 3	0								
MAGADAN	61.10	14.4	10 4	1	18 11	0					19 43	SCS
TONGARIRO	61.26	137.1	10 4	0							10 45	



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1960		PAGE 188										
CHATEAU	61.26	137.1	10	5	1						11	28
GEBBIES PASS	61.74	142.8	10	6	-2						10	34
WELLINGTON	61.78	139.5	10	6	-2							
SEMIPALATNSK	61.84	329.0	10	6	-2	18	17	-3			10	47 PCP
TUAI	62.18	136.1	10	11	0							
QUETTA	62.20	303.5	10	9A	-2	18	28	3			10	49 PCP
STALINABAD	63.40	312.9	10	17	-2	18	41	1				
TASHKENT	64.05	315.9	10	20	-3	18	50	2				
AFIAMALU	64.09	106.2	10	24A	1							
ASHKABAD	71.05	309.7	11	6	-1							
SHIRAZ	74.37	300.2	11	25K	-1	20	44	-5				
SVERDLOVSK	75.12	329.0				20	52	-5			11	39 PCP
HONOLULU	76.85	68.6	11	42	2							
KIPAPA	76.93	68.5	11	43	3							
TANANARIVE	79.03	250.5	11	56A	4						12	48
GORIS	80.57	309.6	12	1	1						22	4
TIFLIS	81.94	311.8	12	8	1	22	14	4	12	45		
KHEYS	84.84	351.3	12	22	0				12	46		
COLLEGE	87.22	25.3	12	33	-1						16	1 PP
MOSCOW	87.46	325.5	12	34	-1	22	49	-15	12	59	23	3 SCS
KSARA	88.74	303.6	12	46	5							
APATITY	89.32	337.4	12	42A	-2						23	5
JERUSALEM	89.34	301.6	12	45	1							
SIMFEROPOL	89.82	314.8	12	45A	-1							
PULKOVO	91.23	329.7	12	52	-1				13	26	23	36
SOUTH POLE	91.56	180.0	12	55	1						13	44
SODANKYLA	91.95	337.5	12	54	-2							
HELWAN	92.76	299.8	12	59	-1							
ISFJORD	92.90	348.8	12	59	-1							
SITKA	93.75	32.7	13	5	1							
HELSINKI	93.84	330.5	13	4	0						13	43 *SP
NURMIJARVI	93.93	330.8	13	3	-2	24	7	5	13	30	17	0 PP
KIRUNA	94.18	338.4	13	4	-2						13	31
IASI	94.19	317.4	13	7	1							
BACAU	94.72	316.8	13	15	6							
NORD	95.11	354.8	13	9	-1							
BYRD STATION	95.78	170.9	13	15	2							
LWOW	96.14	320.3	13	15	0							
LWIRO	96.66	267.9	13	18	1							
BULAWAYO	96.92	250.0	13	19A	1							
BROKEN HILL	97.10	255.7	13	23	4							
UPPSALA	97.50	331.0	13	19A	-2						13	59
SKALSTUGAN	98.70	335.4	13	25	-2							
RESOLUTE	100.17	10.1	13	33A	0							
THULE	101.72	3.3	13	38	-2							
PRUHONICE	102.06	321.9	13	42A	0						18	5 PP
COLLMBERG	102.60	323.5	13	44A	0						18	1 PP
SCORESBY SD.	104.91	349.2	13	55	1							
ISOLA	105.11	312.9									18	57 PP
SHASTA	105.64	47.0	13	59	777						17	52 PP
STUTTGART	105.71	321.9	13	59	777						18	10 PP
MINERAL	106.32	47.1	14	1	777						18	5 PP
LICK	107.12	50.2	14	7A	777						18	17 PP
RENO	107.87	47.5									18	4 PP
HUNGRY HORSE	108.60	37.3	18	16	777						18	41 PP
BUTTE	110.48	39.1	18	20	2							
EUREKA	110.70	46.6	17	55	-23						29	21 PKK
PASADENA	110.72	52.6	18	21	3							
BOZEMAN	111.59	38.9	18	19	-1							
TAMARASSET	116.69	296.4	18	33A	3						19	36 PP
LARAMIE	117.14	41.1	18	32	1							
TUCSON	117.15	52.3	18	34	3						20	44 PP
TUCSON TELE.	117.21	52.2	18	34	3						28	59 PKK
RAPID CITY	117.23	37.4	18	32	1						19	43 PP
LAWRENCE	125.04	38.3	18	47	1							
ST. LOUIS 1	128.27	35.5	18	54K	2							
LITTLE ROCK	129.43	40.7	18	57	3							
SEVEN FALLS	129.47	14.3	18	55	1							
SHAWINIGAN	129.48	16.2	18	56	2							
OTTAWA	129.62	19.2	18	56	1							
BREBEUF	130.19	17.5	18	57A	1						22	9
TACUBAYA	131.52	62.3	19	4	6						22	30
HALIFAX	133.32	8.8	19	3	1							
PALISADES	134.12	20.4	19	5	2						22	24 PKS
COLUMBIA	136.76	32.7	19	0	-8						21	51 PP
SANTA LUCIA	144.90	156.3	19	22A	-1							
HUANCAYO	156.95	117.8	19	46A	5						21	39
SAN JUAN	157.16	29.3	19	43	2				20	14		

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CHINCHINA	158.02	72.7	19 45	3		20 20 PKP2
BOGOTA	159.60	72.4	19 48	4		20 29 PKP2
FUQUENE	159.65	69.8	19 48	4		20 25 PKP2
LA PAZ	160.05	138.8	19 48	4		

MARCH 7 6.H 12.M 11.S EPICENTRE 51.80 152.94 DEPTH= 415.KM

A=-0.55303 B= 0.28247 C= 0.78381 D= 0.4549 E= 0.8906  
G=-0.6980 H= 0.3565 K=-0.6210 HT= -6.1

DEPTH OF FOCUS= 0.060R

SE= 1.73

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
SEVERO-KUR.	2.28	118.4	0 58	-2	1 43	-4		
PETROPAVLOVK	3.70	68.5	1 10	-1	2 5	-2		
OKHA	6.34	290.0	1 39	1	2 57	3		
KURILSK	7.38	209.1			3 14	-1		
UGLEGORSK	7.46	252.9	1 51	1	3 18	1		
MAGADAN	7.86	352.0	1 57	2	3 29	4		
Y.-SAKHLINSK	8.20	238.3	1 59	1	3 32	0		
MATUSIRO	18.50	220.2	3 48	-1	6 58	4		
CHANGCHUN	20.10	257.6	4 4	-1	7 24	2		
PEKING	27.86	259.6	5 14	-1	9 26	-2		
IRKUTSK	29.47	290.4	5 29	0				
ULAN-BATOR	29.55	280.9	5 31	1				
NANKING	31.75	245.0	5 48	-1	10 26	-3		
COLLEGE	32.39	43.2	5 56	1				
WUHAN	35.29	248.0	6 19	0	11 20	-3		
LANCHOW	37.94	265.2	6 42K	1	12 1	-2		
CHENG TU	41.47	258.8	7 9K	-1	12 53	-2		
SEMI PALATNSK	43.90	298.2	7 29	0				
RESOLUTE	46.11	20.0	7 46K	0				
KUNMING	46.27	254.5	7 48	0	14 3	0		
ISFJORD	48.04	349.5	8 0	-1				
THULE	49.36	11.8	8 8	-3				
SVERDLOVSK	50.13	314.3	8 16	-1				
LHASA	50.19	268.8	8 19	2	15 1	4		
SHILLONG	52.57	264.5	8 34K	-1				
APATITY	52.68	335.1	8 35K	-1				
NHATRANG	52.88	238.0	8 37	0			9 13	*SP
SODANKYLA	54.52	337.5	8 47	-2				
CHATRA	54.58	269.4	8 50K	1				
CHITTAGONG	54.96	261.9	8 53	1	16 27	26		
TASHKENT	55.45	294.6	9 6	10			9 57	
KIRUNA	55.54	340.2	8 55	-1				
HUNGRY HORSE	55.80	53.6	8 59	1			9 53	PCP
SHASTA	56.43	65.3	10 28	86				
RENO	58.66	64.7	10 32	74				
LAHORE	59.15	283.0	9 19	-2				
PULKOVO	59.56	330.4	9 23	-1				
MOSCOW	60.25	323.9	9 28	0				
NURMIJARVI	60.61	333.5	9 29	-2				
HELSINKI	60.80	333.2	9 31	-1				
EUREKA	60.84	62.4	9 34	2		10 59		
SKALSTUGAN	60.91	341.1	9 31	-2				
UPPSALA	63.02	336.5	9 45	-1				
ASHKABAD	63.85	298.6	9 52	0				
RAPID CITY	64.14	51.0	9 54	0		11 20		
QUETTA	64.56	286.9	9 56	0		10 20	12 22	PP
LARAMIE	65.02	54.5	10 0	1			10 29	
TIFLIS	67.98	309.9	10 18	0				
TUCSON	68.95	64.5	10 26	3		11 54		
ABERDEEN	69.47	345.8					12 13	
SIMFEROPOL	70.17	318.6	10 30	-1				
CHARTERS TS.	71.82	186.6	10 40	0				
COLLMBERG	71.84	334.8	10 40K	-1			11 15	*SP
WITTEVEEN	71.97	339.2	10 43	2				
PRUHONICE	72.61	333.3	10 45K	0			11 40	
SHIRAZ	73.26	296.6	10 49	0		11 11		
SHAWINIGAN	74.46	30.9	10 56	0				
ST. LOUIS I	74.46	46.5	10 56K	0				
OTTAWA	74.50	33.3	10 55K	-1				
SEVEN FALLS	74.55	29.4	10 56K	0				

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KEW	74.65	343.0	10 57	0					
FAYETTEVILLE	74.68	50.7	10 57K	0					
DOURBES	74.98	339.5	10 58	0					
BREBEUF	75.11	31.9	10 59K	0	20	31	28		
STUTT GART	75.12	336.1	10 59	0					
FOLINI ERE	77.27	342.3	11 12	1					
HALIFAX	78.91	25.7	11 20A	0					
ISOLA	81.18	329.7	11 35A	3				11	55
HELWAN	83.94	311.9	11 46	0					
TAMANRASSET	100.44	329.6	12 57	-5					17 11 PP
BROKEN HILL	122.34	289.1	18 11A	4					

MARCH 8 16.H 33.M 40.S EPICENTRE -16.90 168.62 DEPTH= 230.KM

A=-0.93854 B= 0.18882 C=-0.28895 D= 0.1972 E= 0.9804  
G= 0.2833 H=-0.0570 K=-0.9573 HT= 5.4

DEPTH OF FOCUS= 0.031R

SE= 2.11

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
PORT VILA	0.87	199.4	0	33	1							
NOUMEA	5.75	200.5	1	39	14						10	22
BRISBANE	17.99	231.8	3	54	-2	7	10	5				
AFIAMALU	19.12	83.8	4	4K	-3	7	36	9			4	46 PP
RABAU L	20.49	306.2	4	20	-1	7	53	1				
AUCKLAND	20.63	165.8	4	22	0	8	2	8				
CHARTERS TS.	21.44	258.0	4	31K	1							
KARAPIRO	21.81	165.2	4	35A	1						11	38 SCP
TONGARIRO	23.02	166.2	4	46A	1	8	40	4			38	13 PKPPKP
CHATEAU	23.02	166.2	4	46	1						11	41 SCP
RIVERVIEW	23.04	219.7	4	46K	0	8	39	3	5	19	5	26 PP
TUAI	23.06	162.8	4	46	0	8	35	-1			12	3 PCS
COBB RIVER	24.35	172.5	4	59	1							
WELLINGTON	24.86	168.9	5	1	-2	9	4	-2			5	25
CANBERRA	25.35	219.9	5	6K	-1	9	16	2			5	51 PP
MELBOURNE	29.44	220.3	5	42K	-2	10	17	-3	6	36	6	45 PP
FORT NELSON	31.64	210.5	6	3	0	10	54	0				
ADELAIDE	32.18	230.3	6	8	0	10	56	-7			8	50 PCP
GUAM	38.30	320.5	6	59K	0	12	34	-2	7	47	8	35 PP
MUNDARING	49.57	242.2	8	28K	-1				9	18		
PERTH	49.89	242.3	8	30	-1	15	20	-2			10	36 PP
HONOLULU	50.06	41.9	8	32	-1	15	25	0			17	0 *SS
KIPAPA	50.20	41.8	8	34	0						39	13 PKPPKP
HAWAII V.OB.	50.62	46.0	8	36	-1	15	35	2				
TERRE ADELIE	52.96	193.1	9	4	10	16	14	10				
TORISIMA	54.43	329.8	9	4	-1						9	48
CAPE HALLETT	55.41	179.4	9	13A	1	16	34	-3			10	3 PP
MANILA	56.45	301.0	9	18	-1	16	49	-2				
HATIDYOZIMA	56.84	331.1	9	53	31							
BAGUIO CITY	57.79	302.5	9	28	-1	17	8	0				
HERA	58.35	332.3	9	30K	-3	17	13	-2				
OSIMA	58.42	331.8	9	33K	0	17	13	-3			19	3 SCS
AJIRO	58.78	331.8	9	35	-1	17	20	-1				
OMAESAKI	58.82	330.8	9	36K	0	17	14	-7			39	10 PKPPKP
YOKOHAMA	58.85	332.5	9	36K	0						15	5
MISIMA	58.91	331.7	9	36K	-1	17	18	-5			39	1 PKPPKP
TOKYO C.M.O.	59.02	332.7	9	37K	0	17	23	-1				
HONGO	59.04	332.7	9	37K	0							
SHIZUOKA	59.04	331.2	9	37K	0	17	27	3				
SIOMISAKI	59.08	328.1	9	37K	-1	17	26	1				
KAKIOKA	59.30	333.4	9	39	0	17	28	0				
MITO	59.30	333.7	9	39K	0	17	28	0			10	34 PP
HUNATU	59.31	331.8	9	38	-1	17	26	-2				
TUKUBASAN	59.32	333.3	9	38K	-1	17	27	-1	10	18	11	59 PP
OWASE	59.36	328.8	9	40	0	17	29	1			19	11 SCS
KOHU	59.54	331.8	9	42K	1	17	34	3			12	8
TITIBU	59.57	332.4	9	40	-1	17	32	1				
KUMAGAYA	59.58	332.7	9	40	-1	17	32	1				
ONAHAMA	59.61	334.4	9	41K	0	17	31	-1			21	13
YAKUSIMA	59.69	321.9	9	42K	0	17	34	1				
UTUNOMI YA	59.70	333.3	9	42K	0	17	23	-10			11	31
TU	59.71	329.5	9	48	6							
MUROTO	59.74	326.7	9	42K	0	17	34	1			10	29
IIDA	59.75	331.1	9	37	-5	17	29	-4				

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KAMEYAMA	59.85	329.6	9 43	0	17 37	2				39 14 PKPPKP
NAGOYA	59.87	330.2	9 43K	0	17 36	1				39 13 PKPPKP
MAEBASI	59.92	332.6	9 42K	-1	17 35	-1	10 36			10 38 PCP
WAKAYAMA	60.00	328.2	9 44K	0						
SIMIDU	60.03	325.5	9 46K	2	17 38	1				
NARA	60.03	329.0	9 44	0	17 38	1				38 51 PKPPKP
SHIRAKAWA	60.03	334.0	9 45	1	17 38	1				
OIWAKE	60.10	332.2	9 44K	-1	17 41	3				39 8 PKPPKP
GIHU	60.15	330.2	9 45K	0	17 38	-1				39 3 PKPPKP
OSAKA	60.15	328.7	9 45K	0	17 35	-4				10 46 PCP
TOKUSIMA	60.17	327.6	9 46K	1	17 37	-2				
SUMOTO	60.22	328.0	9 45K	0	17 40	1	10 36			12 34 PP
MIYAZAKI	60.24	323.7	9 48K	2	17 44	4				19 22
MATUMOTO	60.29	331.7	9 47K	1	17 36	-4				38 57 PKPPKP
HIKONE	60.30	329.7	9 46K	0	17 43	3				39 0 PKPPKP
ABUYAMA	60.31	328.9	9 45K	-1						
KOTI	60.32	326.5	9 47K	1	17 39	-2				10 38 PCP
LEMBANG	60.33	271.7	9 47K	1	17 44	3				
KYOTO	60.35	329.1	9 46K	0	17 40	-1				
KOBE	60.35	328.5	9 46K	0	17 36	-5				11 7
MATUSIRO	60.42	332.0	9 45K	-2	17 41	-1	10 33			19 20 SCS
KOBE	60.35	328.5	9 46K	0	17 36	-5				11 7
MATUSIRO	60.42	332.0	9 45K	-2	17 41	-1	10 33			19 20 SCS
HUKUSIMA	60.47	334.5	9 47K	0	17 44	1				
KAGOSIMA	60.48	322.8	9 48K	1	17 44	1				
NAGANO	60.53	332.1	9 48K	0	17 44	1				39 2 PKPPKP
TAKAYAMA	60.54	331.1	9 46	-2						
UWAZIMA	60.60	325.5	9 47	-1						
HIMEJI	60.60	327.8	9 50	2						
TAKAMATU	60.64	327.4	9 48K	0	17 46	1				19 20 SCS
ISINOMAKI	60.71	335.6	9 49K	0	17 41	-5				
SENDAI	60.74	335.2	9 49K	0	17 48	2				10 40
HENGCHUN	60.77	307.9	9 51A	2	17 44	-2				
TAWU	60.86	308.3	9 48K	-2	17 46	-2				
TAKADA	60.87	332.4	9 50	0	17 48	0				
MAIZURU	60.88	329.2	9 50K	0	17 48	0				
TAITUNG	60.91	308.9	9 49	-1	17 46	-2				
HUKUI	60.94	330.2	9 50	0						
MATUYAMA	60.94	326.1	9 51K	1	17 50	1				10 49
YAMAGATA	60.94	334.7	9 50K	0	17 50	1				
HSINKONG	60.95	309.3	9 50	0						
SCOTT BASE	60.98	180.5	9 50K	-1	17 50	1				10 45 PCP
OKAYAMA	60.99	327.6	9 51	0						
TOYAMA	61.01	331.4	9 51K	0	17 53	4				
ODITA	61.11	324.8	9 52	1	17 51	0				39 30 PKPPKP
KANAZAWA	61.13	330.9	9 52	0						
ASOSAN	61.16	324.2	9 52	0						
TOYOOKA	61.20	328.8	9 52K	0	17 53	1				39 3 PKPPKP
NIIGATA	61.21	333.6	9 54K	2	17 57	5				10 36 PCP
DJAKARTA	61.26	272.2	9 49	-3	17 53	0				
HWALIEN	61.28	310.3	9 54	1						
KUMAMOTO	61.31	323.8	9 52K	-1	17 54	1				38 49
MIZUSAWA	61.39	335.9	9 55	2	17 55	1				
YUSHAN	61.48	309.4	9 44	-10	17 57	2				
TOTTORI	61.51	328.3	10 11	17						25 14
MIYAKO	61.51	336.8	9 54K	0	17 56	0				25 9
HIROSHIMA	61.53	326.2	9 54K	0	17 56	0				38 58 PKPPKP
ALISHAN	61.62	309.4	9 56	1	17 58	1				
AIKAWA	61.63	333.0	9 55K	0	17 48	-9				
ILAN	61.67	311.1	9 56K	1	17 57	-1				
WAZIMA	61.71	331.6	9 55K	0	17 59	1				10 24
SAKATA	61.71	334.7	10 0	5	18 3	5				
NAGASAKI	61.71	323.2	9 54K	-1	17 57	-1				38 58 PKPPKP
TAINAN	61.75	308.5	9 48	-8	17 34	-25				
SAGA	61.86	323.9	9 56	0						
MORIOKA	61.86	336.2	9 56K	0	18 2	2				
YONAGO	61.87	327.7	9 56K	0	18 2	2				13 26 PPP
TAIPEI	61.99	311.2	9 58K	1	17 56	-6				
SIMONOSEKI	62.03	324.9	9 57	-1						
MATSUE	62.03	327.5	9 57	-1						
HUKUOKA	62.06	324.2	9 58K	0	18 3	0	10 51			
WILKES	62.06	202.8	9 56	-2	17 51	-12	10 47			12 2 PP
TAICHUNG	62.08	309.9	9 57K	-1	18 5	2				
HAMADA	62.13	326.4	9 58K	0	18 4	1				13 11 PP
HSINCHU	62.25	310.6	9 57	-2						
TOMIE	62.28	322.3	10 0	1	18 5	0				10 52
AKITA	62.30	335.4	9 59K	0	18 8	2				39 2
HATINOHE	62.45	336.9	10 0K	0	18 9	2				

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SAIGO	62.48	328.2	10	1	0	18	10	2			19 34
ADMORI	62.98	336.6	10	3	-1	18	16	2			38 56
URAKAWA	63.42	338.7	10	8	1	18	22	3			38 49 PKPPKP
NEMURO	63.56	341.4	10	8K	0	18	21	0			19 40 SCS
KUSIRO	63.61	340.4	10	7K	-1	18	22	0	11	3	12 26 PP
HAKODATE	63.84	337.1	10	10K	1	18	27	2			38 50 PKPPKP
OBIIHRO	63.95	339.4	10	10K	0	18	28	2			39 4 PKPPKP
MORI	64.17	337.1	10	12K	0	18	31	2			38 54
MURORAN	64.21	337.5	10	13	1						
TOMAKOMAI	64.26	338.1	10	12	0						
ABASHIRI	64.59	340.8	10	14K	0	18	37	3			38 53
SAPPORO	64.73	338.2	10	14K	-1	18	27	-8			19 30 SCS
SUTTSU	64.90	337.3	10	16K	0	18	34	-4			38 54 PKPPKP
ASAHIGAWA	65.00	339.3	10	17	0	18	39	0			
NHATRANG	65.45	292.3	10	20	0	18	44	0			
ZO-SE	65.99	316.2	10	23K	0	18	50	-1	11	18	11 45 *SP
HONG KONG	66.02	304.4	10	24K	1	18	53	2	11	46	13 35
WAKKANAI	66.68	339.7	10	26	-2	18	59	0			
CANTON	67.08	304.7	10	31K	1	19	6	2	11	25	11 51 *SP
Y.-SAKHLINSK	67.76	341.2	10	34	0	19	11	-1			14 22
NANKING	68.19	315.7	10	37K	0	19	15	-2	11	32	11 59 *SP
VLADIVOSTOK	68.59	331.9	10	40	1	19	24	2			11 38
PETROPAVLOVK	70.16	353.6	10	48	-1	19	41	1	11	42	13 25 PP
WUHAN	70.20	312.1	10	50K	1	19	39	-2	11	46	13 30 PP
BYRD STATION	70.33	169.9	10	48	-2	19	37	-5	11	43	13 6 PP
CHANGCHUN	72.26	328.6	11	1K	0	20	5	1	12	57	13 23 *SP
SOUTH POLE	73.20	180.0	11	5	-2	20	13	-2			14 12 PP
PEKING	74.76	320.9	11	16K	0	20	31	-1	12	12	12 38 *SP
SIAN	76.22	312.6	11	25K	1	20	49	1			
KUNMING	76.55	301.7	11	28K	2	20	55	4	12	25	12 52 *SP
MAGADAN	77.55	350.8	11	31	0	21	0	-2			
CHENG TU	78.05	307.3	11	35K	1	21	9	2	12	32	12 57 *SP
PAOTOW	78.89	318.5	11	40K	1	21	22	6	12	36	13 4 *SP
PORT BLAIR	80.19	285.4	11	34	-12	21	32	2			
LANCHOW	80.73	312.0	11	50K	2	21	20	-15	12	48	13 12 *SP
KERGUELEN I.	82.79	220.7	11	58	-1	21	54	-2			
TOCKLAI	83.76	300.2	12	7	3						
BRANNER	84.50	48.4	12	7K	-1						
UKIAH	84.52	46.5	12	8K	0	22	4	-9	13	13	15 25 PP
BERKELEY	84.64	48.0	12	9K	1	22	9	-5	13	7	15 28 PP
CHITTAGONG	84.66	295.2	12	10K	1	22	13	-2			13 13 PP
ARCATA	84.73	44.6	12	10K	1						
ULAN-BATOR	84.77	323.5	12	9	0	22	10	-6			
VINEYARD	84.78	49.3	12	10K	1						15 27 PP
LICK	84.85	48.7	12	10K	1						15 28 PP
SHILLONG	85.75	298.2	12	15K	1	22	5	-20	13	1	15 5 PP
SHASTA	85.79	45.4	12	15	1						
FRESNO	85.94	49.8	12	15K	0						38 16 PKPPKP
PASADENA	86.10	52.7	12	16K	0	22	31	3	13	13	15 37 PP
MINERAL	86.18	45.9	12	16K	0						15 40 PP
CORVALLIS	86.94	41.6	12	20K	0						15 46 PP
RENO	87.08	47.3	12	10K	-10						15 34 PP
SITKA	87.13	27.0	12	19A	-2				13	23	15 53 PP
CALCUTTA	87.72	294.2	12	29A	6						18 29
LHASA	87.88	301.7	12	25K	1	22	30	-15			13 52 *SP
COLLEGE	87.99	17.1	12	23A	-2	22	27	-19			15 27 PP
ALBERNI	88.21	37.0	12	26	0						
IRKUTSK	88.45	326.4									12 27 PCP
VICTORIA	88.68	38.1	12	29	1	22	54	2			15 50 PP
ARGENTINE I.	88.91	160.4	12	27	-2	22	52	-3			
BOULDER CITY	89.33	52.1	12	32	1	22	44	-14			23 6 S
EUREKA	89.79	48.5	12	32K	-1						38 5 PKPPKP
CHATRA	90.15	297.9	12	35K	0	22	43	-23			
RUTH	90.41	49.0	12	37	1	22	45	-23			16 14 PP
VIZIANAGRAM	90.73	288.6	12	42	5						
COLOMBO	90.79	276.9	13	6	28	23	26	15	13	53	16 14
TUCSON	91.16	56.7	12	41	2	22	50	-25	13	42	16 18 PP
MADRAS	92.25	282.8	12	46K	2	23	33	9			33 42 SSS
SALT LAKE C.	93.20	48.4	12	47K	-2	23	33	1	13	35	16 30 PP
CHIHUAHUA	93.94	61.4	12	59	7						25 51 *SS
KODAIKANAL	94.01	279.4	12	54K	2	23	3	-36			16 0
GUADALAJARA	94.07	69.7				23	52	12			18 29 *SP
HUNGRY HORSE	94.32	40.7	12	53K	-1	23	9	-33	13	44	16 38 PP
BANFF	94.42	37.8	12	53A	-1						
BUTTE	94.46	43.3	12	54K	-1	23	43	0	13	55	25 31 SP
HYDERABAD	95.10	286.6	12	56K	-1	23	47	38			16 48 PP
BOZEMAN	95.35	44.0	13	2K	3				13	57	16 38 PKP
TACUBAYA	97.45	72.0	13	6K	-2	23	20	-2	14	6	17 8 PP

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LARAMIE	97.88	49.3	13	9	-1					37 57
DEHRA DUN	98.83	299.0	13	8	-6	24	4	35		17 5 PP
POONA	99.61	286.5	13	17K	-1	24	2	29		23 33 SKS
VERA CRUZ	100.20	73.0								18 32 *PPP
RAPID CITY	100.27	47.1	13	21K	0					17 25 PP
PORT STANLEY	100.60	152.7	13	24	2	23	34	-4		
BOMBAY	100.64	286.6	13	22	-1	24	36	58		23 52 SKS
SEMIPALATNSK	101.81	319.2	13	26	-2	23	42	-1		17 38 PP
LAHORE	102.22	299.4	13	29	-1					
COMITAN	103.18	76.8								21 24 *PPP
FRUNSE	104.18	310.8								17 50 PP
SANTA LUCIA	104.51	132.1	13	38	-2	23	56	0	14	38 17 57 PP
WARSAK DAM	105.00	301.4	13	40	-2					
LAWRENCE	105.11	53.4	13	42	777					
FAYETTEVILLE	105.45	56.5	13	43K	777	25	22	82	14	18 7 PP
MERIDA	106.56	72.7				24	7	2		21 40
LITTLE ROCK	106.72	58.1	13	49	777					18 15 PP
KARACHI	107.18	291.3	13	54	777					17 59
TASHKENT	107.89	308.6	13	54	777					27 33 PS
RESOLUTE	107.89	16.1	17	58	777	25	2	51		19 44 PP
STALINABAD	107.93	305.7	13	55	777					18 19 PP
QUETTA	108.20	296.8	13	56	777	24	13	1	14	57 18 20 PP
FLORISSANT	108.85	54.1	14	1	777	25	49	94	15	5 27 39 *SS
ST. LOUIS 1	108.94	54.3	13	59K	777	25	51	96		
HUANCAYO	110.57	110.2	17	19	-45	24	27	5		
BUENOS AIRES	111.98	139.3								18 49 PP
TANANARIVE	112.00	241.0	14	14K	777					18 54 PP
SVERDLOVSK	113.83	325.1	18	10	-1					19 5 PP
THULE	113.84	12.5	18	9	-2					19 1 PP
LA PAZ	114.96	117.8	17	48	-25				18	14 20 12 PP
NORD	115.21	0.9	18	12	-1					29 3 PS
CLEVELAND	115.78	51.7	18	14	-1				19	15 28 45 PKKP
COLUMBIA	115.94	60.0	18	15	0					19 24 PP
ASHKABAD	116.05	304.4	18	16	1	24	45	2		19 24 PP
CHINCHINA	116.06	92.7	18	14	-1	24	40	-3		
BOGOTA	117.44	93.6	18	18	0	25	2	14		19 28 PP
ISFJORD	117.60	354.3	18	17	-1					28 42 PKKP
CHAPEL HILL	117.64	58.0	18	4	-14					
FUQUENE	118.01	92.8	18	17	-2					19 34 PP
GRAHAMSTOWN	118.30	215.8	18	20	1					
PENNSYLVANIA	118.55	52.4	18	19K	-1					19 40 PP
PIETERMZBURG	118.66	221.4	18	20	0					
GEORGETOWN	119.22	54.6	18	21	0				19	42 19 43 PP
WASHINGTON	119.22	54.6	18	21	0					28 30
OTTAWA	119.81	47.0	18	15	-7					
SHIRAZ	120.59	294.8	14	50A	777					
HERMANUS	121.24	209.5				25	4	3		36 10 SS
BREBEUF	121.26	46.7	19	31	66	24	42	-19		
PALISADES	121.54	52.0	18	25K	-1					19 59 PP
FORDHAM	121.57	52.2	18	25	-1					27 43
SHAWI NIGAN	121.70	45.4	18	24K	-2					19 57
APATITY	121.85	341.4	18	25K	-1	25	2	-1	20	0 20 5 PP
PRETORIA	122.74	223.1	18	29	1					
SEVEN FALLS	122.91	44.5	18	47K	19					
WESTON	123.32	50.1	18	29K	0					20 6 PP
SODANKYLA	123.94	343.3	18	29	-1					20 11 PP
KIRUNA	125.18	345.8	18	16	-17					28 11 PKKP
GORIS	125.37	306.7	18	34	1	25	17	3		20 29 PP
CARACAS	125.79	89.1	18	22K	-12					20 15 PP
SCORESBY SD.	126.05	4.4	18	35K	1					20 27 PP
BULAWAYO	126.18	228.4	18	17K	-18					18 35
TIFLIS	126.19	309.6	18	36	1	25	18	2		20 36 PP
MOSCOW	126.41	328.0	18	35	0					20 33 PP
PULKOVO	127.66	334.8	18	38	1					20 38 PP
SAN JUAN	127.97	79.6	17	55	-43					21 26 PPP
HALIFAX	128.39	46.1	18	38K	-1					21 57
NURMI JARVI	129.36	337.9	18	21	-20					20 51 PP
HELSINKI	129.48	337.4	18	23	-18					21 41 SKP
BERMUDA	129.65	61.8	18	39	-2					20 49 PP
BROKEN HILL	129.82	233.9	18	17	-25					21 45
SKALSTUGAN	130.60	346.3	18	28	-15					21 44 SKP
GRENADA	131.11	88.6	18	42	-2					
ST. VINCENT	131.77	87.3	18	44	-1					
WINDHOEK	131.88	216.3	18	15	-31					21 51
DOMINICA	132.01	84.4	18	46	0					
FORT FRANCE	132.16	85.3	18	38	-8					
UPPSALA	132.23	340.7	18	32	-14					21 49 SKP
REYKJAVIK	132.27	6.2	18	47K	1					21 10
SIDA	132.94	4.1	18	50	2					21 55



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BARBADOS	133.36	87.8	18 51	3					
KSARA	134.51	301.0	18 50	0		19 53	21 25	PP	
JERUSALEM	135.37	298.3	18 42A	-10			21 37	PP	
IASI	135.98	321.9	18 52	-1			21 36	PP	
LWIRO	136.03	248.2	18 42A	-11			18 55		
WARSAW	136.47	331.4	18 48	-6			21 39	PP	
LWOW	136.52	327.0	18 55	1	25 38	-2	22 27	PKS	
BACAU	136.69	321.5					20 55		
FOCSANI	136.94	320.2	18 59	4			22 27	PP	
COPENHAGEN	137.24	340.3	18 56	1		19 59	21 45	PP	
ISTANBUL KA.	137.73	313.2	18 56K	0					
BUCHAREST	138.24	319.1	18 48A	-9			21 48	PP	
KRAKOW	138.44	329.7	18 51	-7			21 52	PP	
CAMPULUNG	138.48	320.8	19 0	2			22 5	PP	
CHORZOW	138.72	330.6	18 51	-7			21 52	PP	
SKALNATE PL.	138.85	328.5	18 49K	-9		19 56	21 53	PP	
HELWAN	138.96	296.2	18 49A	-10			21 49	PP	
ABERDEEN	139.20	352.3					21 58	PP	
RACIBORZ	139.24	330.9	18 52	-7		19 53	24 57	PPP	
POTSDAM	139.69	336.9	18 52	-8		19 59	22 16	*SPKP	
TIMISOARA	140.45	323.7	18 59	-2			22 43	PKS	
COLLMBERG	140.57	335.9	19 3	1			22 1	PP	
KECSKEMET	140.57	326.1	19 4	2			21 38		
BUDAPEST	140.57	327.3	18 57	-5					
HURBANOVO	140.74	328.3	18 57	-5	25 54	7	19 55	22 12	PP
HALLE	140.81	336.9	18 55	-7			19 57	21 54	PP
SOFIA	140.84	318.3	19 0	-2			22 8	PP	
PRAGUE	140.93	333.6	18 54A	-9					
PRUHONICE	140.94	333.4	18 56A	-7		20 0	27 48	SKKS	
BRATISLAVA	141.08	329.5	18 57K	-6		19 54	22 6	PP	
VIENNA-H.	141.37	330.1	18 59A	-4		20 0	22 9	PP	
JENA	141.41	336.7	18 56	-7		20 7	21 59	PP	
BELGRADE	141.43	323.0	18 59K	-4			21 2	PP	
WITTEVEEN	141.45	342.4	18 58	-5					
DURHAM	141.46	350.9	18 58A	-5		19 56	21 58	PP	
PLAUEN	141.53	335.8	18 55	-9					
CHEB	141.	335.2	19 0	-4			20 20	*S*K*	
MUNSTER	141.91	340.9	18 59	-5			22 10		
CHEB	141.77	335.2	19 0	-4			20 20	*SPKP	
MUNSTER	141.91	340.9	18 59	-5			22 10		
SONNEBERG	141.99	336.5	18 59	-5			22 15		
DE BILT	142.51	343.2	19 1	-4			22 8	PP	
ATHENS	142.76	311.3	19 1K	-5			22 9	PP	
BENSBERG	142.92	340.5	19 2K	-4			22 39	PP	
ZAGREB	143.24	327.5	19 4K	-3		19 38	24 27		
RATHFARNHAM	143.46	354.9	19 4	-3		20 8	22 19	PP	
HEIDELBERG	143.72	337.7	19 5K	-2			22 22	PP	
LJUBLJANA	143.82	329.0	19 5	-2		19 57	22 25	PP	
UCCLE	143.91	343.0	19 5	-3			33 12	SP	
STUTTGART	144.03	336.6	19 7K	-1		20 9	22 25	PP	
TOLMEZZO	144.29	330.7	19 8	0			22 48		
TUBINGEN	144.31	336.5	19 7K	-1			22 28	PP	
KEW	144.40	348.1	19 7	-2		20 11	22 25	PP	
DOURBES	144.47	342.2	19 6	-3	25 46	-7			
TRIESTE	144.48	329.2	19 7K	-2			22 28	PP	
EBINGEN	144.63	336.3	19 8K	-1					
LUANDA	144.69	225.4	19 10	1			22 32	PKS	
RAVENSBURG	144.70	335.3	19 9K	0					
STRASBOURG	144.75	337.8	19 9K	0	25 36	-17	20 5	22 28	PP
CHUR	145.48	334.4	19 10	0			22 34	PP	
BASLE	145.70	337.0	19 10K	-1			19 42		
TARANTO	145.88	319.3	19 15	4			22 47	PP	
PARIS	146.23	343.4	19 11	-1					
NEUCHATEL	146.38	337.1	19 12	0			22 39	*PPP	
BOLOGNA	146.49	330.0	19 14K	2			29 30	SKKS	
BESANCON	146.52	338.4	19 12K	0					
JERSEY	146.93	348.8	19 16A	3			27 20		
PAVIA	146.96	332.9	19 14K	1		20 29	36 6	PPS	
FOLINIERE	147.00	346.7	19 13	0					
PRATO	147.06	329.4	19 13	0			23 5	PKS	
OROPA	147.12	334.6	19 11	-2			20 17		
CHIAVARI	147.57	331.8	19 16	2		19 33	22 30	PP	
ISOLA	147.73	322.6	19 26K	12			23 1	PP	
ROME	147.77	325.5	19 13K	-1			22 46	PP	
REGGIO CALA.	148.25	317.1	19 14K	-1			22 52	PP	
MESSINA	148.26	317.3	19 13K	-2		19 51	22 48	PP	
CLERMONT-FD.	148.77	340.2	19 17K	2			22 52	PP	
MONACO	148.87	333.1	19 15	-1			27 29		

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CUGLIERI	151.07	327.3	19 30	11							23 0
BARCELONA	152.94	337.3	19 27	5							23 15 PP
TORTOSA	154.05	339.1	19 25	2							23 27 PP
SETIF	155.69	325.5	19 25A	0				20 29			23 10 PP
PONTA DELGDA	155.73	28.5	19 28K	3							20 6 PKP2
SERRA PILAR	155.74	354.9	19 24A	-1	26 6 -1			20 12			23 31 PP
TOLEDO	156.24	345.9	19 26K	0				19 56			23 28 PP
ALGIERS UNI.	156.45	330.0	19 27K	1				20 30			21 39 PP
ALICANTE	156.59	338.0	19 27	1	25 54 -14						23 29 PP
COIMBRA	156.65	354.3	19 26K	-1							23 33 PP
LISBON	158.18	355.3	19 29K	0							23 44 PP
RELIZANE	158.43	332.8	19 30K	1				20 35			23 37 PP
ALMERIA	158.62	340.1	19 31K	2							23 50 PP
GRANADA	158.67	342.7	19 27A	-2	26 9 -1						23 51 PP
TAMANRASSET	163.07	292.9	19 35K	1				20 42			24 0 PP
LOME	163.67	230.5	19 37	3							24 31 PP
MBOUR	174.06	114.2	19 42	1							25 5 PP

MARCH 9 23.H 54.M 24.S EPICENTRE -16.27 -72.21 DEPTH= 108.KM

A= 0.29353 B=-0.91453 C=-0.27835 D=-0.9522 E=-0.3056  
G=-0.0851 H= 0.2650 K=-0.9605 HT= 5.5

DEPTH OF FOCUS= 0.012R

SE= 2.73

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
LA PAZ	3.92	94.0	1	4A	4	1	50	5			1	16
HUANCAYO	5.17	323.7	1	15K	-2	2	0	-16				
ANTOFAGASTA	7.58	167.5	0	43	-67	2	0	-75				
SANTA LUCIA	17.16	175.6	3	52K	-3	6	56	-4	4	18	5	16
BOGOTA	20.83	354.8	4	36A	1	8	18	2			5	1 PP
CHINCHINA	21.37	350.6	4	40A	0	8	9	-17			5	4 PP
BUENOS AIRES	22.02	148.5	4	46	-1							
GALERAZAMBA	27.04	353.4	6	10	36	10	13	11				
CARACAS	27.10	11.4	5	33A	-2	9	59	-4				
TRINIDAD	28.80	22.5	5	51	1							
GRENADA	29.98	20.9	6	2	1				6	34		
ST. VINCENT	31.18	20.9	6	9K	-2							
BARBADOS	31.75	23.8	6	17	1							
FORT FRANCE	32.68	20.1	6	22	-2							
DOMINICA	33.13	19.3	6	25	-3							
SAN JUAN	34.94	10.1	6	41	-3				7	9	8	9 PP
PORT STANLEY	37.15	165.2	7	2	0				7	34		
COMITAN	37.82	327.7				14	8	78			9	0 *SPP
MERIDA	40.74	334.6	7	36K	4	13	36	2	7	59	17	24 SCS
VERA CRUZ	42.38	325.3	7	51	5	14	9	11			10	3 PP
TACUBAYA	44.28	322.1	8	5K	4	14	21	-5			11	1
BERMUDA	48.90	8.5	8	36	-1	15	26	-5			19	14 SS
ARGENTINE I.	49.23	175.6	8	39	-1							
COLUMBIA	50.69	350.5	8	51	0	15	56	0				
CHAPEL HILL	52.30	353.0	9	3	0	16	23	5				
WASHINGTON	55.06	355.4	9	24	1	17	8	13			9	48 *SP
MORGANTOWN	56.07	352.8	9	30	-1						10	4
FAYETTEVILLE	56.07	338.6	8	29K	-62	15	49	-80			10	28 PP
FORDHAM	56.84	358.5	9	35	-1	17	20	1				
PITTSBURGH	56.87	352.9	9	16A	-20							
PALISADES	57.00	358.5	9	37	0	17	22	1	10	8	21	18 SS
PENNSYLVANIA	57.01	354.9	9	35K	-2	17	25	4				
ST. LOUIS 1	57.17	343.2	9	36K	-2	17	23	0	10	5		
FLORISSANT	57.36	343.2	9	39	-1	17	26	0	10	13		
WESTON	58.36	0.8	9	46K	-1							
LAWRENCE	59.03	339.2	9	50	-1	17	48	0				
TUCSON	60.79	322.7	10	3	0	18	56	46				
TUCSON TELE.	60.79	322.8	10	3	0				10	33	37	33 PKPPKP
HALIFAX	61.10	7.0	10	4	-1							
OTTAWA	61.45	357.2	10	6	-2							
BREBEUF	61.48	358.9	10	7K	-1	18	22	3				
MBOUR	62.48	63.9	10	14A	-1	18	35	3				
SHAWINIGAN	62.52	359.6	10	14K	-1							
SEVEN FALLS	63.10	1.1	10	19K	0							
LARAMIE	65.09	332.8	10	33	1							
BOULDER CITY	65.77	323.0	10	37	1							
RAPID CITY	66.40	336.1	10	40	0				11	29	39	39 PKPPKP
PASADENA	66.54	319.5	10	40K	-1	19	27	6	11	13		

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1960					PAGE 196				
BYRD STATION	67.19	188.0	10 45	0				11 10	
SALT LAKE C.	67.63	328.4	10 47	-1					
EUREKA	68.86	325.0	10 55	0				11 29	
FRESNO	69.26	320.7	10 58	0					
BOZEMAN	70.97	332.3	11 9	1				11 40	
RENO	71.08	322.9	11 9K	0					
BERKELEY	71.46	320.2	11 12K	1	20 27	8		11 44	25 48 SS
BUTTE	71.92	331.7	11 2	-12				11 49	
MINERAL	72.65	322.6	11 14A	-4					
UKIAH	72.84	320.7	11 20	1					
SOUTH POLE	73.84	180.0	11 25	0				11 55	14 13 PP
HUNGRY HORSE	74.33	332.5	11 29	1					
CORVALLIS	76.33	325.1	11 42	3					
BANFF	77.08	333.7	11 43	0					
VICTORIA	78.92	328.1	11 56	2					
HERMANUS	82.14	123.5							22 23 SCS
WINDHOEK	83.28	111.5	12 8A	-8					
GRANADA	83.55	48.5	12 54K	36					23 39
ALMERIA	84.22	49.1	12 22K	1	22 30	-6		13 6	
TOLEDO	84.42	45.9	12 22	0					12 50
TAMANRASSET	85.34	64.8	12 29A	2	22 41	-6			15 43 PP
RELIZANE	86.00	51.1	12 40	10				13 15	
TORTOSA	87.97	46.5	12 41	2					
ALGIERS UNI.	88.26	51.0	12 42	1	23 14	0			23 2 SKS
GRAHAMSTOWN	88.31	124.1	12 42	1					
REYKJAVIK	88.91	19.7	12 47K	3					
RATHFARNHAM	89.28	33.2	12 47A	1					14 42
SETIF	89.82	52.2	12 48	0					16 18 PP
SIDA	89.97	21.1	12 51	2					
FOLINIERE	90.54	38.9	12 51	0					
CLERMONT-FD.	91.63	42.6	12 58K	1					
RESOLUTE	91.88	354.1	12 57	-1					23 48
PRETORIA	92.06	117.4	13 0	2				13 31	
DURHAM	92.42	33.2	12 52A	-8					
THULE	92.52	0.9	13 1	0				13 30	16 50 PP
SCORESBY SD.	93.19	15.0	13 6	2					
MONACO	93.81	45.6	13 8	2					
BESANCON	94.00	41.9	13 7	0					
DOURBES	94.11	38.9	13 8	0					16 49 PP
UCCLE	94.21	38.2	13 9	1	23 35	-32			
BULAWAYO	94.25	112.3	13 10A	2					13 35
NEUCHATEL	94.55	42.4	13 8	-2					
BASLE	95.12	42.0	13 14	2					
STRASBOURG	95.57	41.1	13 15	0					15 7
BROKEN HILL	95.93	106.8	13 26	10					
BENSBERG	95.95	38.7	13 18K	2					
CHUR	96.18	43.1	13 18	1					
EBINGEN	96.21	41.7	13 18	1					
TUBINGEN	96.38	41.4	13 18	0					
HEIDELBERG	96.42	40.5	13 20	2					
RAVENSBERG	96.51	42.2	13 20	1					
MUNSTER	96.53	37.8	13 20	1					
STUTTGART	96.58	41.2	13 19	0				13 44	17 11 PP
KARAPIRO	96.73	227.5	13 48	28					
TOLMEZZO	98.37	44.2	13 30	3				13 59	17 26 PP
JENA	98.61	39.5	13 29	1	23 54	-1		14 2	17 22 PP
COLLEGE	98.62	335.3	13 28	0				13 57	17 25 PP
PLAUEN	98.85	40.0	13 27	-2					18 27
CHEB	98.89	40.5	13 30	0					
HALLE	98.98	39.0	13 31	1					17 32 PP
LJUBLJANA	99.30	44.8	13 34K	3					17 34 PP
LWIRO	99.93	95.3	13 37K	3					41 13
PRUHONICE	100.22	40.9	13 38	2				14 3	17 41 PP
BRATISLAVA	101.48	43.1							
NURMI JARVI	107.38	31.0	17 30	777					18 26 PP
SODANKYLA	108.29	23.7							19 22 *SPP
HELWAN	109.46	63.6	21 51	777					25 48
PULKOVO	110.21	31.8			24 51	3		18 54	28 27 PS
SIMFEROPOL	112.81	47.7							19 12 PP
KSARA	113.73	59.8	18 29	3					19 20 PP
MOSCOW	114.45	35.8							19 25
TIFLIS	120.73	50.9							20 8 PP
SVERDLOVSK	126.26	30.0	18 56	6					
CHARTERS TS.	127.72	227.7	18 57	4					19 21
SHIRAZ	127.83	64.9	18 56	2					20 42
MUNDARING	131.37	189.5	19 3	3				19 36	
ASHKABAD	131.62	53.5	19 5	4					22 37 PKS
TASHKENT	138.52	45.1	19 18	5				19 55	22 7 PP

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STALINABAD	139.27	49.1	19 17	2	26 24	12			
SEMI PALATNSK	139.37	27.0	19 19	4					
MUSKINABAD	139.82	48.6	19 48	32				20 22	
QUETTA	140.21	62.2	19 56	39	26 17	3		22 31	PP
FRUNSE	141.26	40.0	19 17	-2					
IRKUTSK	143.97	3.6	19 23	0					
GUAM	144.21	270.6	19 23	-1			20 2		
TUKUBASAN	145.11	310.9	19 27A	2				41 54	PSS
MATUSIRO	146.31	312.7	19 30A	3				41 50	SS
BOMBAY	146.59	80.2	19 32	4				22 54	
POONA	147.56	81.0	19 34K	5					
ULAN-BATOR	148.43	1.1	19 35	4					
MADRAS	153.09	93.3	19 58	20				23 34	
LEMBANG	157.05	179.6	20 16A	36				23 55	PP
SHILLONG	162.49	55.5	19 53K	4					
CHITTAGONG	163.75	65.6	19 56	6				20 49	
MEDAN	164.53	143.6	19 54	3				25 10	
HONG KONG	171.50	315.9	20 2	6				25 44	PP

MARCH 10 5.H 0.M 25.S EPICENTRE -31.50 179.27 DEPTH= 477.KM

A=-0.85414 B= 0.01091 C=-0.51994 D= 0.0128 E= 0.9999  
G= 0.5199 H=-0.0066 K=-0.8542 HT= 1.3

DEPTH OF FOCUS= 0.070R

SE= 2.33

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
ONERAHI	5.90	222.5	1	38	3	2	57	7				
AUCKLAND	6.51	213.4				3	9	7				
KARAPIRO	7.11	204.5	1	49A	2							
TUAI	7.49	192.8	1	51	0	3	18	-2			3	12
TONGARIRO	8.27	200.6	1	59	-1	3	36	1				
WELLINGTON	10.41	199.1	2	21	-2	4	13	-4				
COBB RIVER	10.91	207.0				4	24	-3				
KAIMATA	12.65	207.4				4	56	-5				
GEBBIES PASS	13.25	201.4	2	50	-3	5	8	-4				
NOUMEA	14.64	305.6	3	0	-7						3	14
KOUMAC	17.30	305.4	3	36	2							
AFIAMALU	19.34	27.1	3	54A	0	7	7	5				
BRISBANE	23.41	273.3	4	32	1							
RIVERVIEW	23.76	256.9	4	31A	-4							
CANBERRA	25.50	253.2	4	53A	3						10	55 PCS
MELBOURNE	28.80	247.9	5	22A	3							
CHARTERS TS.	31.70	283.0	5	47	3	10	23	3				
MUNDARING	52.92	251.7	8	32	0							
BYRD STATION	54.29	169.1	8	41	-1							
SOUTH POLE	58.67	180.0	9	12	0						9	38 PCP
MATUSIRO	77.85	327.2	11	7	-1							
PASADENA	87.94	47.4	11	59	0							
TUCSON	91.57	52.8	12	17	2							
TUCSON TELE.	91.70	52.7	12	17	1							
EUREKA	92.71	44.5	12	20	-1							
KIRUNA	141.57	347.3	18	30	-7							
NURMIJARVI	146.48	337.4	18	47	3							
HELSINKI	146.63	336.8	18	47	2							
SKALSTUGAN	146.86	349.4	18	46	1							
UPPSALA	149.10	342.0	18	52	4							
COLLMBERG	157.77	336.8	19	38	38							
RATHFARNHAM	157.85	8.9	18	39A	-21							
PRUMONICE	158.29	332.6	19	40	39							
STUTTART	161.16	339.1	19	51	47							

MARCH 10 9.H 44.M 59.S EPICENTRE -10.16 161.13 DEPTH= 0.KM

A=-0.93162 B= 0.31843 C=-0.17518 D= 0.3234 E= 0.9463  
G= 0.1658 H=-0.0567 K=-0.9845 HT= 6.5

SE= 2.10

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
RABAU	10.68	303.0	2	42	5						4	36

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KOUMAC	10.78	164.0	2	41	3	4	53	12			
NOUMEA	13.11	157.7	3	11	1	5	44	6			
PORT MORESBY	13.80	271.9	3	21	2	6	5	11			
CHARTERS TS.	17.41	233.7	4	5	0					7	40
BRISBANE	18.86	203.5	4	24K	1	7	57	6			
RIVERVIEW	25.28	199.7	5	29K	0	9	55	2			
AFIAMALU	26.75	100.7	5	45	2	9	57	-21		6	47 PP
CANBERRA	27.38	201.9	5	47	-1	10	29	1			
KARAPIRO	30.54	157.2	6	16	-1						
MELBOURNE	31.15	205.2	6	23	1						
TONGARIRO	31.65	158.4	6	27	0						
ADELAIDE	32.06	216.1	6	30	0						
GEBBIES PASS	34.89	165.3	6	52	-3						
MANILA	46.74	301.2	8	31	-1					10	34 PP
MUNDARING	46.78	235.4	8	33	0						
BAGUID CITY	48.03	302.9	8	43	1						
ABUYAMA	50.90	332.8	9	3A	-2						
MATUSIRO	51.21	336.3	9	3	-4	16	22	-3		9	15
LEMBANG	52.98	269.1	9	17	-3	16	47	-2			
DJAKARTA	53.85	269.7	9	27	0						
ZO-SE	56.12	318.4	9	40	-3	17	26	-5			
HONG KONG	56.21	305.5	9	49	5	17	29	-4			
CANTON	57.26	305.8	9	55	4	17	47	1			
NANKING	58.31	317.8				17	57	-3			
WUHAN	60.30	313.8	10	35	23						
CHANGCHUN	62.81	331.6	10	27	-2	18	56	-2			
PEKING	65.00	323.2	10	42	-2	19	22	-3			
KUNMING	66.81	302.9	10	55	0	19	47	0			
SHILLONG	76.13	299.5	11	49K	-2						
BYRD STATION	78.22	169.9	12	1	-2						
SOUTH POLE	79.91	180.0	12	9	-3						
COLLEGE	83.92	19.5	12	30	-3						
BERKELEY	85.79	50.5	12	41	-1						
LICK	86.12	51.2	12	46K	2					13	4
SHASTA	86.49	47.8	12	47	1						
MINERAL	86.97	48.3	12	48	0						
CORVALLIS	86.97	43.9	12	50	2						
FRESNO	87.39	52.1	12	51	1						
PASADENA	88.05	55.0	12	53	0	23	48	12		23	32 SKS
RENO	88.09	49.4	12	53K	0						
EUREKA	90.96	50.2	13	6	-1						
BOULDER CITY	91.12	53.8	13	7	0						
TUCSON	93.70	58.1	13	22	3						
TUCSON TELE.	93.81	58.0	13	20	0						
OTTAWA	120.24	43.1	18	53	0						
NURMI JARVI	120.36	336.7	18	53	0						
PALISADES	122.78	47.5								20	33 PP
SETIF	145.99	323.5	19	42	1						
ALGIERS UNI.	146.91	326.7								19	59 PKP2
TAMANRASSET	153.51	301.3	19	51	-1						

MARCH 10 13.H 44.M 24.S EPICENTRE -15.19-173.44 DEPTH= 0.KM

A=-0.95917 B=-0.11035 C=-0.26042 D=-0.1143 E= 0.9934  
G= 0.2587 H= 0.0298 K=-0.9655 HT= 5.7

SE= 2.42

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
AFIAMALU	2.05	51.7	0	36	1							
SUVA	8.33	248.2	2	36	31	3	51	10				
PORT VILA	17.68	259.3	4	13	4						6	15
NOUMEA	20.30	246.6	4	41	1	8	15	-9				
KOUMAC	21.86	252.6	4	36	-20							
ONERAHI	23.22	205.8	5	13	3							
KARAPIRO	24.66	201.2	5	24	0							
TUAI	24.93	197.6	5	27	1							
TONGARIRO	25.81	200.0	5	38	3							
WELLINGTON	27.93	199.2	5	56	2							
COBB RIVER	28.45	202.3	5	59	0							
KAIMATA	30.19	202.6	6	14	0							
GEBBIES PASS	30.80	199.9	6	17	-3							
BRISBANE	33.62	243.2	6	41	-3	11	44	-23				
CHARTERS TS.	38.65	256.8	7	26	-1						9	39
PORT MORESBY	38.89	273.8	7	30	1	13	36	8				

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1960					PAGE 199				
CANBERRA	39.13	232.2	7 30A	-1					
HONOLULU	39.26	22.9	7 33	1					
KIPAPA	39.40	23.0	7 34	1					
MELBOURNE	43.05	230.4	8 1A	-2					
ADELAIDE	47.10	236.2	8 34	-2					
CAPE HALLETT	57.91	185.8			18 4	8			24 38
MUNDARING	65.60	241.5	10 37	-11			11 2		
MATUSIRO	68.76	319.8	11 8A	0	20 9	-2			21 9 SCS
BYRD STATION	69.17	171.3	11 10	-1					
WILKES	70.59	204.5			20 28	-5			
MANILA	71.20	291.5	11 35	12					
VINEYARD	71.24	42.0	11 23	0					
BERKELEY	71.35	40.6	11 24	0	20 37	-5			29 6
LICK	71.42	41.4	11 25A	1					
UKIAH	71.53	39.1	11 24	-1					
PASADENA	71.90	45.8	11 26A	-1	20 47	-1			
ARCATA	72.12	37.2	11 29A	1					
FRESNO	72.28	42.8	11 29	0					
SHASTA	73.00	38.2	11 34	0					
MINERAL	73.26	38.9	11 35A	0					
RENO	73.88	40.4	11 37A	-2					
SOUTH POLE	74.91	180.0	11 44	-1					12 16 PCP
CORVALLIS	74.93	34.6	11 45A	0					
UGLEGORSK	75.13	331.5	11 46	0					
BOULDER CITY	75.19	45.7	11 47	1					
TUCSON	76.22	50.8	11 53	1					
EUREKA	76.29	42.2	11 52	-1					
TUCSON TELE.	76.35	50.7	11 54	1					
ALBERNI	77.21	30.3	11 57	-1					
VICTORIA	77.41	31.5	11 59	0					
LEMBANG	77.61	266.2	11 58A	-2					
DJAKARTA	78.52	266.7	12 2	-3					
SALT LAKE C.	79.66	42.8	12 10	-1					12 23
MAGADAN	79.93	342.4	12 13	0					
NANKING	80.07	307.1	12 14	1	22 24	6			12 28
TACUBAYA	80.70	67.0	12 23	6					
CHANGCHUN	81.00	320.0	12 19A	1	22 30	3			12 33
CANTON	81.08	296.8	12 20	1	22 36	8			12 35
BUTTE	81.91	37.9	12 23	0					
COLLEGE	82.17	10.7	12 23	-1	22 34	-5			34 36 SS
HUNGRY HORSE	82.31	35.4	12 24	-1					
BOZEMAN	82.64	38.8	12 26	-1					13 10
WUHAN	82.77	304.2	12 28	1	22 50	5			
BANFF	83.07	32.5	12 28K	-1					
LARAMIE	84.09	44.5	12 35	1					12 47
ARGENTINE I.	84.10	156.4	12 33	-1					
PEKING	85.30	313.5	12 41A	1	23 34	24			23 4 SKS
RAPID CITY	86.86	42.8	12 47	-1					
SIAN	88.55	306.0	12 57A	1					
MEDAN	88.89	274.0	13 8	10					14 43
YAKUTSK	88.89	336.7	12 56	-2					
FAYETTEVILLE	90.39	52.7	12 4A	-61					
LAWRENCE	90.52	49.7	13 5	0					
KUNMING	90.90	295.7	13 9	2	24 12	9			23 38 SKS
CHENG TU	91.39	301.3	13 10	1	24 9	2			23 39 SKS
SANTA LUCIA	92.06	125.3	13 12	0	23 54	-19			25 46 PPS
LANCHOW	93.07	306.4	13 16	-1					
PORT STANLEY	93.18	145.8	13 15	-3					
HUANCAYO	94.54	103.7	13 28	4					
TIKSI	94.78	344.4	13 25	0					
LA PAZ	99.85	110.1	13 51	3					
RESOLUTE	101.54	15.4	13 54A	-2					
PALISADES	106.93	51.3							28 18 PS
KHEYS	110.83	352.1	14 40	777					
STALINABAD	120.97	306.0	19 28	33					
SCORESBY SD.	122.04	10.9	18 58	1					
QUETTA	122.91	296.3	19 0	1					20 52 PP
APATITY	124.84	347.8	19 2	0					
SODANKYLA	126.23	350.5	19 4	-1					
KIRUNA	126.63	353.5	19 5	-1					
PULKOVO	132.20	344.0	19 17	1					
NURMI JARVI	132.87	347.9	19 18	0					22 46 PKS
MOSCOW	133.05	336.5	19 19	1					
HELSINKI	133.12	347.5	19 19	1					22 46 PKS
SHIRAZ	135.44	296.9	19 22	0					
TIFLIS	137.76	316.4	19 29	2					
BULAWAYO	138.74	212.3	19 20	-8					
DURHAM	140.00	7.3	19 25K	-6					19 40
SIMFEROPOL	142.30	327.5	19 31	-4					



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1960					PAGE 200
LWOW	142.65	341.3	19 33	-2	23 15
MUNSTER	143.30	358.9	19 35	-1	
BROKEN HILL	143.44	217.4	19 39	2	
HALLE	143.53	354.3	19 34	-3	22 54 PP
KRAKOW	143.58	345.5	19 36	-1	23 13 PKS
COLLMBERG	143.61	353.2	19 35	-2	22 55 PP
IASI	143.62	335.7	19 34	-3	
RACIBORZ	143.94	347.2	19 37	-1	
JENA	144.12	354.6	19 36	-2	22 54 PP
SKALNATE PL.	144.30	344.6	19 38K	0	
BENSBERG	144.32	359.3	19 37A	-1	20 51
BACAU	144.40	335.7	19 44	6	
UCCLE	144.44	2.4	19 37	-1	23 10 PKS
PLAUEN	144.50	353.8	19 36	-3	
PRAGUE	144.63	351.2	19 41	2	
PRUHONICE	144.70	351.1	19 39A	0	22 54 PP
SONNEBERG	144.70	354.9	19 38	-1	
FOCSANI	144.98	334.5	19 48	9	
DOURBES	145.15	2.2	19 40	0	
HEIDELBERG	145.84	357.5	19 42	1	
BRATISLAVA	145.98	347.4	19 43K	2	
FOLINIÈRE	146.02	8.3	19 42	1	
VIENNA-H.	146.06	348.2	19 43	2	20 3 PKP2
CAMPULUNG	146.21	336.3	19 47	5	
PARIS	146.31	4.9	19 45	3	
STUTTGART	146.44	356.7	19 41	-1	
BUCHAREST	146.48	334.3	19 44A	2	
STRASBOURG	146.69	358.5	19 44A	2	20 36
TUBINGEN	146.69	357.0	19 44	2	
EBINGEN	147.05	357.0	19 43	0	
TIMI SOARA	147.14	340.9	19 49	6	
RAVENSBURG	147.41	356.2	19 44	0	
KSARA	147.68	310.3	19 48	4	
BASLE	147.75	358.7	19 44	0	
BESANCON	148.03	0.8	19 48A	3	
NEUCHATEL	148.29	359.5	19 47	2	
CHUR	148.34	356.1	19 46	1	
TOLMEZZO	148.42	351.5	19 47	2	
ZAGREB	148.46	347.4	19 52	7	20 2
LJUBLJANA	148.52	349.4	19 46A	1	20 27
SOFIA	149.03	335.6	19 48	2	23 24 PP
TRIESTE	149.04	350.2	19 48	2	20 4 PKP2
JERUSALEM	149.10	307.3	19 52	6	20 34 PKP2
CLERMONT-FD.	149.38	4.7	19 49	2	
MONACO	151.55	358.7	19 58A	8	
LWIRO	151.99	233.6	19 52A	1	20 15
ATHENS	152.71	329.4	19 55	3	
HELWAN	152.94	306.9	19 54	2	23 46 PP
TOLEDO	153.71	18.7	19 54	1	
SETIF	159.05	2.6	20 0	0	20 37 PKP2
TAMANRASSET	172.39	7.3	20 13A	2	25 27 PP

MARCH 10 14.H 32.M 43.S EPICENTRE 46.92 152.05 DEPTH= 115.KM

A=-0.60549 B= 0.32121 C= 0.72815 D= 0.4686 E= 0.8834  
G=-0.6432 H= 0.3412 K=-0.6854 HT= -4.3

DEPTH OF FOCUS= 0.013R

SE= 2.71

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
REIDOVOE	3.25	240.9	0	53	2	1	34	5				
KURILSK	3.37	241.3	0	54	2	1	34	2				
GORNY	3.72	239.0	0	59	2	1	43	3				
LESOZAVODSK	4.03	239.4	1	3	2	1	52	4				
SEVERO-KUR.	4.60	34.0	1	7	-2	1	56	-6				
SHIKOTAN	4.79	232.2	1	10	-1	2	3	-3				
KOSMODEMANSK	5.18	239.2	1	18	1	2	15	-1				
NEMURO	5.82	234.2	1	24K	-1	2	28	-3				
ABASHIRI	6.19	244.8	1	32K	2	2	26	-14				
Y.-SAKHLINSK	6.39	274.3	1	37	4	2	51	6				
KUSIRO	6.71	236.8	1	37	-1	2	50	-3				
UGLEGORSK	7.04	291.5	1	47	5	3	9	8				
WAKKANAI	7.36	262.0	1	52	6	3	20	11				

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1960		PAGE 201									
PETROPAVLOVK	7.44	32.4	1 48	1	3 17	6					3 4
OBIIHIRO	7.45	240.7	1 47	-1							
ASAHI GAWA	7.51	248.8	1 51	3							
HIROO	7.77	236.5	1 51	-1	3 13	-6					3 43
URAKAWA	8.16	237.6	1 58	1	3 26	-2					
SAPPORO	8.51	246.9	2 4	2	4 2	25					
TOMAKOMA I	8.60	243.8	2 7	4	3 38	-1					
OKHA	8.84	322.0	2 8	2	3 47	2					
MURORAN	9.14	243.8	2 9	-1	3 49	-3					
SUTTSU	9.35	248.1	2 13	0							
MORI	9.51	243.7	2 17	2							3 55
HAKODATE	9.57	241.8	2 14	-2	3 56	-6					
HATINOHE	9.94	233.8	2 16	-5	4 2	-9					
AOMORI	10.17	237.2	2 21	-3							
MIYAKO	10.33	228.9	2 23	-3	4 9	-12					
MORI OKA	10.72	231.6	2 27	-4	4 20	-10					
MIZUSAWA	11.15	229.6	2 33	-4	4 29	-11					
AKITA	11.29	234.7	2 38	-1							
ISINOMAKI	11.59	226.7	2 40A	-3	4 42	-8					
SENDAI	11.92	227.5	2 45	-2	4 48	-10					
SAKATA	12.02	232.5	2 49	0							
YAMAGATA	12.22	229.0	2 49	-2	4 55	-10					
HUKUSIMA	12.54	227.2	2 51K	-4	5 5	-8					
NIIGATA	13.15	231.5	3 15	12							
MITO	13.62	223.5	3 9	0	5 32	-6				3 26	
UTUNOMIYA	13.77	225.5	3 9	-2	5 29	-13					
KAKI OKA	13.88	223.9	3 11	-2	5 42	-2					
TUKUBASAN	13.93	224.1	3 11A	-2	5 38	-7					
TAKADA	14.18	231.1	3 8	-9							
MAEBASI	14.29	227.3	3 17	-1							
KUMAGAYA	14.33	225.8	3 11	-8							
TOKYO C.M.O.	14.53	223.8	3 20	-1	5 52	-7					
NAGANO	14.53	230.1	3 21	0							
OIWAKE	14.61	228.4	3 25	3	6 18	17					
MATUSIRO	14.62	229.8	3 20K	-2							3 35
WAZIMA	14.72	235.1	3 24	1							
VLADIVOSTOK	14.75	262.4	3 24	0							3 39 PP
YOKOHAMA	14.78	223.4	3 25	1	6 6	1					
MATUMOTO	14.97	229.6	3 26	-1							
TOYAMA	15.04	232.5	3 33	5							
KOHU	15.12	226.8	3 29	0	6 16	3					
HUNATU	15.15	225.9	3 30	1	6 14	0					
MISIMA	15.36	224.5	3 35	3	6 42	23					
HUKUI	16.05	233.1									4 17
OMAESAKI	16.14	225.2	3 46	5							
GIHU	16.25	230.3	3 41	-2	6 49	10					
NAGOYA	16.32	229.4	3 46	2							
HIKONE	16.62	231.2	3 48	1							
KAMEYAMA	16.82	229.8	3 55	5							
KYOTO	17.09	231.7	3 53	0							4 35
TOYOOKA	17.21	234.8	3 54	-1	7 9	9					
ABUYAMA	17.29	231.7	3 54K	-1							
NARA	17.29	230.8	3 56	0	7 27	25					
OSAKA	17.47	231.3	3 57	-1	7 29	23					6 43
SUMOTO	18.04	232.0	4 5	0	7 26	7					
CHANGCHUN	19.01	270.4	4 12K	-3						4 33	15 53 SCS
HAMADA	19.23	238.5	4 19K	1							6 9
MUROTO	19.27	231.2	4 19	1							
HIROSI MA	19.40	236.7	4 21K	2							
SAGA	21.44	238.2	4 45	5							
KUMAMOTO	21.52	236.7	4 43	2							
NAGASAKI	22.06	237.9	4 49K	3	8 48	11					
KAGOSIMA	22.53	234.7	4 47	-4							
PEKING	26.76	268.2	5 31K	0	10 1	5			5 54	16 12 SCS	
ZO-SE	28.49	247.3	5 48K	1	10 29	5				16 24 SCS	
NANKING	29.40	251.6	5 57K	2	10 43	4				16 26 SCS	
ULAN-BATOR	30.24	288.7	6 0	-2							
PAOTOW	30.72	273.6	6 6	0	11 3	4					
WUHAN	33.15	253.9	6 29K	2							16 46 SCS
SIAN	34.69	264.3	6 42K	1							
COLLEGE	36.47	38.5	6 56	0						7 17	
LANCHOW	37.19	270.8	7 2K	0	12 40	1					
CANTON	39.07	246.0	7 19K	2	13 12	4					8 51 PP
HONG KONG	39.13	244.3	7 20K	2	13 10	1					
BAGUIO CITY	40.04	231.2	7 27	2	13 25	3					
CHENG TU	40.15	263.6	7 27K	1	13 25	1			7 50	17 22 SCS	
MANILA	41.24	229.1	7 33	-2							
KUNMING	44.56	258.4	8 4K	2	14 31	3			8 27	9 50 PP	

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SEMI PALATNSK	45.85	302.1	8 11	-1					
KI PAPA	47.51	104.8	8 28	3					
HONOLULU	47.54	105.0	8 23	-3					
RESOLUTE	50.91	18.4	8 50	-1					
SHILLONG	51.66	267.6	8 57K	0					
ISFJORD	52.74	350.0	9 5	0				13 59	PCS
ALBERNI	52.85	54.7	9 6	0					
FRUNSE	52.92	295.8	8 59	-8				9 35	
SVERDLOVSK	53.21	316.7	9 6	-3					
CHITTAGONG	53.81	264.6	9 15K	2	16 43	6	9 47	11 17	PP
VICTORIA	54.03	54.9	9 16	1					
CHATRA	54.07	272.2	9 16K	1					
THULE	54.26	10.9	9 13	-3	16 39	4	9 38		
PORT MORESBY	56.24	185.8	9 33	2	17 20	11			
CORVALLIS	56.29	58.8	9 33K	2					
BANFF	56.80	48.7	9 34	-1					
APATITY	56.89	336.3	9 35K	0					
TASHKENT	57.05	297.1	9 36	0				10 8	PP
SODANKYLA	58.82	338.4	9 46	-3				10 37	PCP
STALINABAD	59.01	294.7	9 50	0	17 47	1			
SHASTA	59.11	62.0	9 48	-3			10 15		
UKIAH	59.56	63.9	9 54	0					
LAHORE	59.76	285.1	9 54	-1					
MINERAL	59.80	61.9	9 56A	1			10 20		
KIRUNA	59.94	340.9	9 55	-1				10 5	
WARSAK DAM	60.05	289.0	9 51K	-6					
BERKELEY	60.93	64.5	10 4K	1			10 26		
RENO	61.38	61.7	10 5A	-1			10 24		
BUTTE	61.48	52.1	10 7	0			10 29		
LICK	61.64	64.7	10 8A	0			10 29		
VINEYARD	62.18	65.0	10 12	1			10 37		
BOZEMAN	62.52	51.7	10 14	0			10 37		
SCORESBY SD.	62.83	357.7	10 16A	0					
MEDAN	63.05	244.0	10 18	1	20 1	84			
FRESNO	63.14	64.1	10 18A	0			10 38		
EUREKA	63.72	59.6	10 22	0			10 45		
MOSCOW	63.89	325.0	10 22	-1					
NURMIJARVI	64.73	334.2	10 28	0				20 10	SCS
HELSINKI	64.91	333.9	10 29	0					
SALT LAKE C.	65.27	56.3	10 32	0			10 55		
SKALSTUGAN	65.35	341.5	10 32	0					
QUETTA	65.49	288.5	10 33K	0	19 6	-1	10 51	12 53	PP
ASHKABAD	65.74	300.1	10 35	0	19 9	-1	10 57		
PASADENA	65.85	65.3	10 35	0					
DJAKARTA	66.29	230.4	10 37	-1					
LEMBANG	66.42	229.3	10 38K	-1					
BOULDER CITY	66.69	61.9	10 42	1			11 4		
CHARTERS TS.	66.90	185.9	10 43	1			11 9		
UPPSALA	67.27	337.0	10 43	-1				11 10	
RAPID CITY	67.73	48.9	10 48	1			11 11		
LARAMIE	68.39	52.3	11 15	24					
AFIAMALU	68.69	142.0	11 4	11					
POONA	68.72	274.6	10 55K	2					
BERGEN	69.67	343.1	11 0	1					
GOTEBORG	70.61	338.6	11 8	3					
TIFLIS	70.70	310.8	11 6	1					
TUCSON	71.66	62.4	11 12	1			11 35		
TUCSON TELE.	71.66	62.2	11 13	2			11 36		
SIMFEROPOL	73.46	319.1	11 20K	-2					
LWOW	73.66	327.9	11 23	0					
BRISBANE	73.97	179.3	11 27	2			11 54		
IASI	74.46	324.3	11 29	2					
KRAKOW	74.91	330.3	11 31	1			11 57	11 35	PCP
SHIRAZ	74.96	297.3	1 31A	1	20 53	4			
RACIBORZ	75.47	331.3	11 34	1					
LAWRENCE	75.53	48.0	11 32	-1					
SKALNATE PL.	75.54	329.7	11 34	0					
COLLMBERG	76.01	334.9	11 35	-1			12 7	12 20	*SP
HALLE	76.13	335.6	11 37	0			12 8		
DURHAM	76.26	344.6	11 39A	1			12 0		
WITTEVEEN	76.33	339.2	11 39	1					
PRUMONICE	76.71	333.4	11 40	0				14 51	PP
JENA	76.75	335.6	11 39	-1			12 10	12 34	
MUNSTER	76.87	338.3	11 52	11					
PLAUEN	76.98	335.0	11 39	-3					
BUCHAREST	77.32	323.5	11 43	-1				12 3	
SONNEBERG	77.35	335.5	11 43	-1					
BENSBERG	77.91	338.2	11 47	0					
FAYETTEVILLE	78.27	49.2	10 49A	-60			11 13		

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RATHFARNHAM	78.46	346.9	11 50A	0		
UCCLE	78.75	339.8	11 45	-6		14 43 PP
OTTAWA	78.92	32.1	11 52	0		
HEIDELBERG	78.92	336.6	11 52	0		
SEVEN FALLS	79.07	28.2	11 53	0		
KEW	79.15	342.8	11 54K	0		
DOURBES	79.34	339.4	11 56	1	12 22	
STUTTGART	79.34	336.0	11 55	0	12 17	
BREBEUF	79.58	30.8	11 56	0	12 20	
TUBINGEN	79.62	336.0	11 57	1		
STRASBOURG	79.93	336.8	11 58	0	12 22	
EBINGEN	79.97	335.9	11 59	1		
RAVENSBURG	80.14	335.3	11 59	0		
LJUBLJANA	80.19	331.5	11 59A	0		
LITTLE ROCK	80.23	48.9	11 50	-9	12 23	
RIVERVIEW	80.39	180.8	11 54A	-6		
BASLE	80.94	336.5	12 3	0		
CHUR	81.01	335.0	11 46	-18		
NEUCHATEL	81.60	336.7	12 7	0		
BESANCON	81.63	337.4	12 6	-1		
FOLINIERE	81.74	342.0	12 8	1		
CANBERRA	81.92	182.5	12 11	3		
JERUSALEM	83.22	310.1	13 16A	61		
ATHENS	83.68	321.4	12 16K	-1		
CLERMONT-FD.	83.74	338.7	12 19K	2		
MONACO	84.47	335.1	12 22A	1		
MELBOURNE	84.61	185.6	12 25A	3		
MUNDARING	84.92	210.0	12 25	2		
HELWAN	86.75	311.6	12 33K	1	13 0	
KARAPIRO	87.05	161.6	12 35	1	12 57	
SETIF	92.00	333.6	12 56	-1	13 23	
TAMARRASSET	104.32	328.3	13 54	1		18 4 PP
BROKEN HILL	123.22	285.3	18 51K	8		
SCOTT BASE	124.83	176.2				22 17 PKS
BULAWAYO	127.17	280.3	18 53K	2		
HUANCAYO	127.23	64.7	19 6	15		
LA PAZ	135.06	61.2	19 12	6	19 35	
BYRD STATION	135.54	165.6	19 8	1		22 28 SKP
SOUTH POLE	136.73	180.0				22 31 SKP

MARCH 10 18.H 55.M 57.S EPICENTRE 14.40 -91.57 DEPTH= 97.KM

A=-0.02661 B=-0.96860 C= 0.24719 D=-0.9996 E= 0.0275  
G=-0.0068 H=-0.2471 K=-0.9690 HT= 5.9

DEPTH OF FOCUS= 0.010R

SE= 2.82

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
COMITAN	1.91	343.8	0	33	1	1	3	7				
SAN SALVADOR	2.41	107.1	0	37	-2	1	11	3				
SANTIAGO MA.	3.15	106.4	0	47	-2	1	35	9				
OAXACA	5.64	298.1	1	21	-2	2	35	8			1	55
VERA CRUZ	6.46	318.2	1	41	7	3	3	16			5	6
MERIDA	6.77	15.7	1	39	0	3	12	17			4	7
TACUBAYA	8.83	305.3	2	7K	0	3	53	8				
GUADALAJARA	12.82	300.8				6	3	42				
CHINCHINA	18.29	119.3	4	13K	4	7	52	26				
CHIHUAHUA	19.53	318.8									6	19
FUQUENE	19.68	115.0	4	20	-4						4	37 PP
LITTLE ROCK	20.30	358.2	4	33	3							
LUBBOCK	21.25	335.7	4	38	-2							
FAYETTEVILLE	21.72	354.3	3	47	-58							
ST. LOUIS I	24.17	2.6	5	10K	2							
CARACAS	24.37	96.3	5	9	-1	10	13	53				
LAWRENCE	24.68	353.1	5	13	0							
TUCSON TELE.	24.98	318.9	5	14	-2							
TUCSON	24.99	318.6	5	13	-3	9	57	27				
BOULDER CITY	29.93	320.1	5	59	-2							
PALISADES	30.65	26.8				10	45	-16			7	19 PPP
HUANCAYO	30.82	147.7	6	15	6						13	55
PASADENA	31.05	314.0	6	10	-1							
RAPID CITY	31.20	343.7	6	13	1						7	35 *SPP
EUREKA	32.91	324.0	6	26	-1						7	31 PP

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OTTAWA	33.68	20.3	6 34	0			
BREBEUF	34.51	22.5	6 42	1			
LA PAZ	38.46	142.1	7 30	16	12 27	-35	9 5
VICTORIA	42.95	329.0	7 48	-3			
SANTA LUCIA	51.60	157.6			16 13	3	20 33 SS
RESOLUTE	60.30	359.0	9 59	-2			
COLLEGE	63.04	336.5	10 26	7			
THULE	63.22	6.0	10 20	-1			
ISFJORD	79.12	11.8	11 58	2			
UCCLE	82.67	39.5	12 13	-1	22 23	1	
TAMANRASSET	90.88	66.3	12 39	-15			13 5
MATUSIRO	110.94	318.8	13 52	777			14 16
RIVERVIEW	120.44	239.1	18 40A	0			20 16 PP
CHARTERS TS.	124.70	255.4					16 7
QUETTA	131.08	24.9	19 0	-1			21 30
CHITTAGONG	143.31	354.7	19 37	14			23 23 PKS

MARCH 12 11.H 54.M 0.S EPICENTRE 41.83 20.94 DEPTH= 0.KM

A= 0.69794 B= 0.26711 C= 0.66448 D= 0.3574 E=-0.9339  
G= 0.6206 H= 0.2375 K=-0.7473 HT= -2.4

SE= 2.89

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
SKOPJE	0.40	69.8	0	9	-3							
SOFIA	1.97	63.2	0	36	1	1	0	-1				
BELGRADE	3.01	353.3	0	50A	0	1	27	0			1	36 SS
TARANTO	3.10	245.2	0	52	1	1	32	3				
TIMISOARA	3.92	2.8	1	6	3	1	50	0			1	20 PG
ATHENS	4.41	150.1	1	11K	1	2	5	3				
CAMPULUNG	4.54	39.5	1	19	8	2	13	7			1	35 PG
BUCHAREST	4.57	53.9	1	15K	3	2	1	-6			1	35 PG
KECSKEMET	5.16	350.5	1	22	2	2	26	5				
ZAGREB	5.36	319.7	1	24	1						1	42 PG
ISOLA	5.41	260.8				2	31	3			2	44 PP
MESSINA	5.51	230.5	1	24K	-1	2	26	-4			1	36 P*
REGGIO CALA.	5.52	229.2	1	26A	1	2	27	-3				
FOCSANI	5.95	47.4	1	45	14	2	21	-20			2	3 PG
ISTANBUL KA.	6.15	94.4	1	32A	-2							
LJUBLJANA	6.26	314.4	1	36A	0	2	47	-2			3	25 SG
HURBANOVO	6.34	343.0				2	54	3				
BACAU	6.38	40.1	1	46	9	2	26	-26			1	58 PG
TRIESTE	6.46	308.6	1	38	0	2	50	-4			3	19 S*
BRATISLAVA	6.89	338.1	1	43A	-2	2	48	-17			3	40 SG
IASI	7.15	39.2	1	51	3	2	51	-20			2	19 PG
VIENNA-H.	7.18	334.8	1	48	-1	3	28	16			2	25 PG
TOLMEZZO	7.30	311.4	1	50	0	3	15	0			1	56 PG
SKALNATE PL.	7.36	356.5	1	52	1	3	18	2				
BOLOGNA	7.52	294.0	1	56	3	2	57	-23				
PRATO	7.52	289.1	1	58	5	3	37	17				
KISHINEV	7.66	44.8	1	53	-2	3	14	-10				
KRAKOW	8.25	355.4	2	3	-1	3	43	4			2	16 PPP
LWOW	8.27	14.0				3	13	-26			2	9
RACIBORZ	8.46	347.9	2	6	-1	3	40	-4			2	11 PP
ROME	8.54	270.0	1	41A	-27	3	51	6			2	37
CHORZOW	8.57	351.6									2	17 PP
PAVIA	9.18	295.3	2	18	1	4	1	-1			3	35
PRUHONICE	9.28	333.5	2	15K	-3	4	1	-3			3	4 PG
PRAGUE	9.40	333.4	2	27	8	4	2	-5			3	7 PG
CHUR	9.59	305.4	2	22	0	4	9	-3				
RAVENSBURG	10.00	310.3	2	26	-2							
SIMFEROPOL	10.08	67.6	2	28	-1	4	21	-3				
MONACO	10.12	285.3	2	28	-1						2	37 PP
OROPA	10.12	296.3	2	25	-4	4	16	-9			3	43
CHEB	10.17	327.1	2	27	-3	4	18	-8				
WARSAW	10.40	0.3	2	43	10	4	33	1			4	47 SS
PLAUEN	10.58	327.9	2	32	-4	4	49	13			3	36 PG
EBINGEN	10.58	310.9	2	33	-3							
TUBINGEN	10.72	312.7	2	40A	2							
STUTTART	10.74	314.2	2	37K	-1							
SONNEBERG	10.89	325.0	2	37	-3						3	37 PG
COLLMBERG	10.93	332.8	2	38	-2	4	44	-1			5	4 SS
BASLE	11.08	305.4	2	41	-2	4	47	-1				
JENA	11.15	327.8	2	41	-3	4	57	7			6	6 SG

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NEUCHATEL	11.26	302.0	2 44	-1			2 54 PP
HEIDELBERG	11.41	315.7	2 44	-3			4 28
HALLE	11.46	330.6	2 46	-2	5 0	2	2 56 PP
POTSDAM	11.83	335.8	2 54	1	5 37	30	7 5 SG
BENSBERG	13.16	318.6	3 6	-5	5 32	-7	
SETIF	13.33	250.1	3 17	4	5 43	0	3 27 PP
CLERMONT-FD.	13.46	293.0	3 17	2	5 46	0	
MUNSTER	13.61	322.7	3 17	1			
DOURBES	14.03	311.6	3 22	0	5 57	-3	
KSARA	14.25	119.3	3 29A	4	6 14	9	
UCCLE	14.53	313.7	3 31	2	6 13	2	
HELWAN	14.60	141.6	3 26	-3	6 0	-13	
WITTEVEEN	14.61	323.6	3 40	10			
PARIS	14.72	304.5	3 31	0	6 13	-3	
ALGIERS UNI.	14.74	255.8	3 31	0	6 26	9	3 51 PPP
DE BILT	14.84	319.1	3 39	6	6 27	8	
COPENHAGEN	14.93	341.1	3 38	4	6 21	0	3 50
JERUSALEM	15.19	126.7	3 39	2	6 33	6	
TORTOSA	15.39	273.0	3 33	-7	6 33	1	
FOLINIERE	16.56	302.0	3 56	1			
ALICANTE	16.75	265.1	3 50	-7	6 51	-13	4 3 PP
GOTEBORG	16.88	343.3	4 5	6			
RELI ZANE	17.00	255.8	4 OK	-1	7 16	7	
KEW	17.43	310.8	4 8	2	7 27	8	4 35 PP
MOSCOW	17.66	32.4	4 7	-2	7 17	-7	
JERSEY	17.70	302.3	4 13	4	7 47	22	
TIFLIS	17.79	82.4	4 14	4			7 42 SS
UPPSALA	18.16	354.6	4 14	-1			10 18
HELSINKI	18.53	6.3	4 19	0	7 51	7	10 7
ALMERIA	18.76	262.3	4 20	-2			4 38 PP
NURMIJARVI	18.84	5.7	4 21	-2	7 54	3	10 14
PULKOVO	18.88	14.8			7 39	-13	
TOLEDO	18.99	272.4	4 25	0	7 57	3	8 15 SS
GRANADA	19.48	264.3	4 43A	12	8 17	12	5 5 PP
DURHAM	19.69	318.8	4 34A	1	8 10	0	4 57 PP
BERGEN	20.92	338.0	4 45	-1	8 37	1	
ABERDEEN	21.28	324.0			8 37	-5	10 9
RATHFARNHAM	21.51	311.5	4 57	5			5 23
SERRA PILAR	22.10	278.1	5 5K	7	8 52	-6	5 23 PP
COIMBRA	22.18	275.6	4 59	0	9 1	2	
SKALSTUGAN	22.36	349.8	4 59	-2			
TAMANRASSET	22.97	219.0	5 9K	2	9 19	5	5 38 PP
LISBON	23.11	272.3	5 11A	3	9 24	8	
SODANKYLA	25.78	5.1	5 32	-2	9 52	-10	
KIRUNA	26.05	359.6	5 36	0			
APATITY	26.65	10.7	5 33	-9	9 55	-21	6 0 PP
SHIRAZ	28.21	105.3	5 56A	0	10 39	-2	
ASHKABAD	28.81	85.2	6 3	1			11 32
SVERDLOVSK	29.40	45.6	6 5	-2			
REYKJAVIK	33.12	326.9					7 43 PP
TASHKENT	35.78	74.2	7 2	-1			8 23 PP
SCORESBY SD.	35.92	337.0	7 4	0	12 45	3	8 36 PP
STALINABAD	36.31	78.9	7 8	1			15 36 SSS
QUETTA	38.57	92.4	7 25K	-1	13 39	16	8 59 PP
FRUNSE	39.13	69.9	7 32	1			9 8 PP
WARSAK DAM	40.19	84.2	7 38	-1			
SEMI PALATNSK	41.00	57.0					16 43 PSP
KHEYS	41.13	8.7	7 47	0			
NORD	41.90	352.3	7 52	-1			
MBOUR	42.66	241.5	8 2	2	14 37	13	
LAHORE	43.41	85.8	8 8	2			
LWIRO	44.45	168.8	8 14K	0			
DEHRA DUN	46.79	85.0					10 22
BOMBAY	49.40	101.2	8 52	-1	16 5	5	
THULE	49.61	341.9	8 53	-2			
IRKUTSK	54.75	48.4	9 32	-1			17 15 PS
CHÄTRA	55.42	83.3	9 36K	-2	17 19	-3	
TIKSI	56.13	21.3	9 42	-1			
RESOLUTE	56.36	343.3	9 42	-3			
BROKEN HILL	56.43	171.2	9 46K	1			
ULAN-BATOR	58.19	52.1	9 58	0			
SHILLONG	59.62	81.7	10 4K	-4			
CHITTAGONG	61.45	84.7	10 19	-1	18 38	-3	12 36 PP
SEVEN FALLS	61.99	309.4	10 23	-1			
BULAWAYO	62.07	171.8	10 24	-1			
LANCHOW	62.33	65.2	10 26K	0			
SHAWINIGAN	63.42	309.6	10 30	-3			
WINDHOEK	64.17	183.9	10 39	1			
BREBEUF	64.50	309.0	10 41	0			



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TANANARIVE	65.27	152.2	10	48A	2					11	7
CHENG TU	65.49	70.1	10	45	-2	19	37	6			
OTTAWA	65.77	309.9	10	49A	0						
SIAN	66.79	64.3	10	55	0						
PALISADES	67.26	305.2	10	58	0	19	55	2		24	29 SS
PRETORIA	67.57	172.9	11	0	0						
PEKING	68.07	55.5	11	2K	-1	20	6	3			
KIMBERLEY	70.32	176.4	11	17	0						
CHANGCHUN	71.07	47.8	11	21K	-1	20	45	7			
MORGANTOWN	71.76	307.0	11	26K	0						
COLLEGE	73.27	355.0	11	33	-2						
GRAHAMSTOWN	74.96	175.1	11	44	-1						
COLUMBIA	76.05	303.1	11	50	-1						
BANFF	79.92	333.9	12	8	-4						
LAWRENCE	80.85	314.9	12	17	0						
RAPID CITY	80.89	322.8	12	17	0						
LITTLE ROCK	82.30	310.3	12	24	-1						
BOZEMAN	82.92	328.3	12	28	0						
MATUSIRO	83.21	46.1	12	29	0	23	0	11			
BUTTE	83.22	329.4	12	29	0						
LARAMIE	84.15	322.5	12	34	0					21	5
VICTORIA	84.69	337.1	12	37	0						
EUREKA	90.09	328.1	13	2	-1					30	31 PKKP
MINERAL	91.42	332.3	13	9	0						
RENO	91.50	330.7	13	10A	1						
BOULDER CITY	92.62	325.5	13	16	1						
TUCSON TELE.	93.83	320.7	13	20	0					14	25
FRESNO	93.93	329.4	13	20	-1						
TUCSON	93.96	320.7	13	21	0						
LICK	94.11	331.0	13	26K	5						
CHARTERS TS.	129.27	82.1	19	3	-7						
NOUMEA	145.20	66.8	19	42	3					20	4
AFIAMALU	150.06	25.4	19	54	7						

MARCH 12 20.H 30.M 42.S EPICENTRE -6.14 152.26 DEPTH= 0.KM

A=-0.88002 B= 0.46290 C=-0.10625 D= 0.4655 E= 0.8850  
G= 0.0940 H=-0.0495 K=-0.9943 HT= 6.9

SE= 1.91

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
RABAUL	1.93	357.5	0	36	2							
PORT MORESBY	6.01	237.0	1	35	3							
CHARTERS TS.	15.04	202.2	3	34A	-1	6	32	8				
KOLMAC	18.48	142.0	4	20	1	7	49	6				
PORT VILA	19.46	127.7	4	31	0	8	3	-2				
GUAM	20.85	339.1	4	47	1	8	37	3				
NOUMEA	21.12	140.9	5	17	29						5	50
BRISBANE	21.14	178.7	4	48	-1	8	45	5				
RIVERVIEW	27.57	182.0	5	49A	-1	10	31	0			6	42 PP
SUVA	28.19	117.4				10	38	-3			7	48
CANBERRA	29.19	185.5	6	3A	-2	10	54	-3			7	2 PP
ADELAIDE	31.29	201.7	6	22	-2	11	26	-4			7	14 PP
MELBOURNE	32.23	190.9	6	31A	-1	11	43	-2				
AFIAMALU	36.21	105.1	7	3	-3	12	44	-3				
AUCKLAND	36.88	149.2				13	0	3				
FORT NELSON	36.89	186.0	7	14K	2	12	45	-12				
MANILA	37.19	304.0	7	15	1	12	58	-4				
KARAPIRO	38.07	149.5	7	21	-1							
BAGUIO CITY	38.53	306.0	7	26	0	13	20	-2				
TONGARIRO	39.05	150.8	7	30	0							
CHATEAU	39.05	150.8	7	30	0						9	6 PP
COBB RIVER	39.31	155.3	7	34	2							
TUAI	39.55	148.9	7	37	3							
KAIMATA	40.01	157.8	7	40	2							
WELLINGTON	40.35	153.5	7	51	10	13	45	-5			9	26 PP
GEBBIES PASS	41.49	157.6	7	51	1						8	27
MUNDARING	42.33	228.0	7	56K	-1				8	7		
PERTH	42.60	228.2	7	59	0	14	28	5			17	26 SS
TUKUBASAN	43.65	345.7	8	4K	-4	14	27	-11			9	50 PP
LEMBANG	44.34	266.5	8	12K	-1	14	50	2				
MATUSIRO	44.45	343.8	8	11K	-3	15	10	20			9	48 PP
DJAKARTA	45.15	267.4	8	18K	-2	14	58	-2				
HONG KONG	46.79	308.4	8	34K	1	15	24	1				

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ZO-SE	47.47	323.1	8 38K	0	15 29	-4	
CANTON	47.86	308.7	8 42	1	15 41	3	10 36 PP
NANKING	49.60	322.0	8 56K	1	16 0	-3	
WUHAN	51.30	317.5	9 9K	1	16 28	2	
VLADIVOSTOK	52.39	341.2	9 15	-1	16 38	-3	11 19 PP
Y.-SAXHLINSK	53.60	351.9	9 21	-4	16 51	-7	11 34 PP
MEDAN	54.36	278.8	9 30A	-1	17 12	4	
CHANGCHUN	55.38	336.5	9 36K	-2	17 17	-5	
HONOLULU	55.80	59.2	9 40	-1	17 26	-1	
KIPAPA	55.92	59.1	9 43	1			
PEKING	56.71	327.2	9 47K	-1	17 40	1	
KUNMING	57.29	305.0	9 53K	1	17 51	4	
CHENG TU	58.89	311.3	10 3K	0	18 10	2	
PETROPAVLOVK	59.18	4.5	10 3	-2			18 14
PORT BLAIR	61.80	286.7	10 23	0	18 48	3	
MAGADAN	65.49	359.2	10 46	-1	19 31	0	
CHITTAGONG	65.54	297.8	10 49K	2	19 34	2	13 16 PP
SHILLONG	66.53	301.1	10 53K	-1	19 44	0	13 27 PP
WILKES	66.63	197.0	10 51K	-3	19 42	-3	11 19 PCP
ULAN-BATOR	66.96	328.7	10 57	1	19 51	2	
LHASA	68.62	305.0	11 8K	1	20 12	3	
CALCUTTA	68.64	296.9	11 10K	3	20 17	8	
CHATRA	70.94	301.0	11 21	0	20 35	-1	
IRKUTSK	71.00	331.2	11 21K	0	20 39	2	
BOKARO	71.27	297.6	11 25K	2	20 43	3	11 57
MIRNY	72.49	201.1	11 28	-2	20 48	-6	
COLOMBO	73.38	279.0	11 35	0	21 5	1	15 23
MADRAS	74.07	285.3	11 41	2	21 13	1	11 58 PCP
KODAIKANAL	76.22	282.1	11 25	-27	21 25	-11	14 25
HYDERABAD	76.52	289.5	11 54K	1	21 37	-2	26 36 SS
TIKSI	79.13	352.6			22 3	-4	15 9
DEHRA DUN	79.59	302.2	12 11	1	22 16	4	17 40 PPP
POONA	81.02	289.8	12 18K	0	22 29	2	
BOMBAY	82.04	290.0	12 24	1	22 38	0	
LAHORE	82.98	302.7	12 30K	2	22 46	-1	
COLLEGE	83.30	21.8	12 27	-3	22 46	-4	23 30 PS
SEMIPALATNSK	83.40	322.2	12 29	-1	22 49	-2	15 50 PP
BYRD STATION	83.69	169.9	12 30	-2	22 56	2	36 45 PKPPKP
SOUTH POLE	83.90	180.0	12 31	-2			12 59
FRUNSE	85.14	313.8	12 40	1			23 6
SITKA	85.69	31.5	12 42	0			
WARSAK DAM	85.74	304.7	12 42K	0	23 11	-3	
KARACHI	88.22	295.1	12 54K	0			
STALINABAD	88.70	308.8	12 57	0	23 16	-17	18 24 PPP
TASHKENT	88.76	311.6	12 57	0			16 31 PP
QUETTA	89.01	300.3	12 58K	0	23 47	2	16 29 PP
ARCATA	89.20	48.9	13 3	4			
UKIAH	89.60	50.7	13 3	2			
ALBERNI	90.00	40.5	13 3	0			
BERKELEY	90.17	52.1	13 5A	2	23 35	-21	25 4 PS
CORVALLIS	90.32	45.3	13 4K	0			
SHASTA	90.45	49.3	13 5	0			
LICK	90.59	52.7	13 5K	0			16 30 PP
VINEYARD	90.73	53.3	13 7	1			
VICTORIA	90.80	41.4	13 6	0			
MINERAL	91.00	49.7	13 7	0			16 47 PP
HORSESHOE B.	91.02	40.6	13 6	-1			
FRESNO	91.99	53.4	13 12	0			
RENO	92.27	50.7	13 12K	-1			
PASADENA	93.05	56.1	13 17K	0	24 39	18	16 51 PP
EUREKA	95.23	51.0	13 26	-1			30 21 PKKP
BOULDER CITY	95.92	54.5	13 30	0			17 20 PP
SVERDLOVSK	95.98	326.5	13 27	-3			17 24 PP
BANFF	96.12	39.3	13 30	-1			
KHEYS	96.71	350.5	13 32	-1			
ASHKABAD	96.81	307.4	13 35	1			26 24 PS
HUNGRY HORSE	97.02	42.1	13 34	-1			
BUTTE	97.97	44.5	13 37	-2			17 37 PP
SALT LAKE C.	98.43	49.8	13 41	0			
BOZEMAN	99.04	44.8	13 44	0			
TUCSON	99.08	58.4	13 46	2			17 43 PP
TUCSON TELE.	99.18	58.3	13 47	3			17 45 PP
SHIRAZ	101.46	298.9	13 53	-2	24 32	-2	
RESOLUTE	101.83	14.5	13 54	-3	24 30	-6	17 58
RAPID CITY	104.69	46.2	14 9	0			18 26 PP
GORIS	106.16	309.2					18 41
THULE	106.37	9.2	17 17	777			18 26 PP
APATITY	106.39	339.5	14 15	777	24 52	-5	18 47 PP



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CLERMONT-FD.	132.32	330.9	19 17	1					22 48
CHINCHINA	132.35	88.9	19 17K	1					21 37 PP
GALERAZAMBA	132.80	81.0							22 57 SKP
BOGOTA	133.86	89.5	19 22K	3					21 47 PP
LA PAZ	134.16	120.0	19 22	2					22 53 PKS
FUQUENE	134.26	88.3	19 21	1					21 49 PP
BERMUDA	136.81	48.0							22 2
TORTOSA	137.22	328.1							20 31
SETIF	137.38	319.2	19 18	-8					22 8 PP
ALGIERS UNI.	138.52	321.6	19 20	-8					22 11 PP
ALICANTE	139.52	326.3	16 48	777	26 36	-2			23 2 PKS
TOLEDO	140.22	331.1	19 31	0	26 22	-17			22 29 PP
SAN JUAN	140.67	68.5	19 26	-6					23 23 PP
RELIZANE	140.71	322.5	19 29	-3					22 25 PP
CARACAS	141.01	80.9	19 25	-7					29 24 SKKS
ALMERIA	141.69	326.5	19 28A	-5	26 10	-32			22 37 PP
GRANADA	142.06	327.9	20 51A	77	27 15	33			33 0 SKSP
TAMANRASSET	143.92	300.7	19 37K	0					22 53 PP
DOMINICA	145.75	71.8	19 42	2					
FORT FRANCE	146.10	72.7	19 44	3					
ST. VINCENT	146.25	75.5	19 42A	1					
TRINIDAD	146.42	80.0	19 43	2					
BARBADOS	147.86	75.1	19 51	7					
MBOUR	166.61	308.5	20 8K	1					25 1 PP

MARCH 13 23.H 53.M 28.S EPICENTRE 7.58 -77.30 DEPTH= 0.KM

A= 0.21797 B=-0.96711 C= 0.13111 D=-0.9755 E=-0.2199  
G= 0.0288 H=-0.1279 K=-0.9914 HT= 6.8

SE= 1.61

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
BALBOA HTS.	2.62	301.6	0	44	-1	1	20	2				
CHINCHINA	3.09	147.2	0	51A	0	1	26	-4			0 57 P*	
GALERAZAMBA	3.75	32.1				1	44	-2			2 7 SG	
BOGOTA	4.36	132.3	1	11A	2	2	3	1			1 21 P*	
CARACAS	10.64	73.4	2	35K	-2						4 54	
SANTIAGO MA.	12.45	299.0	3	2	0							
SAN SALVADOR	13.17	298.4	3	15	4							
SAN JUAN	15.28	44.3	3	37	-2				3 48		6 38 PCP	
TRINIDAD	15.99	77.8	3	46	-2							
ST. VINCENT	16.71	69.3	3	58	1							
DOMINICA	17.36	62.4	4	9	3							
MERIDA	17.85	319.4	4	11	-1	7	35	6				
BARBADOS	18.25	71.0	4	15	-2							
HUANCAYO	19.60	174.3	4	32K	-1	8	16	7				
VERA CRUZ	21.63	304.1	4	56	2	9	2	12				
TACUBAYA	24.28	301.1	5	18	-2	9	41	4			6 9 PP	
LA PAZ	25.59	159.3	5	32	-1	9	58	-1			6 15 PP	
COLUMBIA	26.51	353.0	5	43	2							
CHAPEL HILL	28.25	357.0	5	57	0							
MORGANTOWN	32.00	356.1	6	32K	2							
FAYETTEVILLE	32.30	333.9	5	32A	-61							
ST. LOUIS I	33.05	341.3	6	39	-1	12	7	9				
FLORISSANT	33.24	341.2	6	42	1							
PALISADES	33.42	4.7	6	44	1	12	12	8				
LAWRENCE	35.18	335.4	6	55	-3							
OTTAWA	37.70	1.8	7	20	1							
BREBEUF	37.91	4.2	7	22	1						9 14 PPP	
SHAWINIGAN	39.02	5.0	7	31	1							
TUCSON TELE.	39.63	313.0	7	35	0						9 21 PP	
TUCSON	39.66	312.8	7	36	0						9 12 PP	
SEVEN FALLS	39.78	6.9	7	37	0							
SANTA LUCIA	41.28	171.5	7	52	3	14	6	2				
LARAMIE	41.93	327.7	7	55	1							
RAPID CITY	42.81	332.4	7	59	-3						9 50 PP	
BOULDER CITY	44.41	315.1	8	15	0							
SALT LAKE C.	45.14	322.6	8	21	1						10 1 PP	
PASADENA	45.98	311.0	8	27K	0	15	29	17			10 0 PP	
EUREKA	47.00	318.6	8	35	0						9 20	
BOZEMAN	47.82	328.3	8	41	-1							
BUTTE	48.85	327.7	8	49	-1							
RENO	49.59	316.7	8	55K	0							
LICK	49.89	313.2	8	58A	0							

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1960					PAGE 210
HUNGRY HORSE	51.12	329.2	9 7	0	
RESOLUTE	67.81	355.0	10 59	-3	
THULE	68.98	2.3	11 8	-2	
COLLEGE	74.95	335.4	11 43	-2	14 28 PP
DURHAM	75.61	35.4	12 14K	25	
FOLINIÈRE	75.65	41.7	11 50	1	
UCCLE	78.89	39.8	12 6	-1	
TAMARASSET	80.51	68.2	12 17	1	
STUTTGART	82.10	41.8	12 24	0	
ISFJORD	82.83	12.1			12 27 PPP
JENA	83.47	39.6	12 36	5	
COLLMBERG	84.33	39.1	12 36	0	
PRUHONICE	85.44	40.3	12 42K	1	13 15
SODANKYLA	88.36	22.1	12 55	0	
NURMI JARVI	89.30	29.0	13 0	0	
HELSINKI	89.53	29.2	13 0	-1	
BYRD STATION	90.06	186.7	13 1	-2	
PRETORIA	107.17	114.5			24 1
MATUSIRO	124.90	325.2			21 4 PP
QUETTA	129.13	40.7	19 12	1	
CANBERRA	129.46	230.0	19 12K	1	
CHARTERS TS.	136.05	249.0	19 24	0	
SHILLONG	145.40	17.4	19 40	0	
MUNDARING	152.67	205.6	19 53K	1	

MARCH 14 0.H 53.M 5.S EPICENTRE 42.35 142.95 DEPTH= 71.KM

A=-0.59169 B= 0.44663 C= 0.671 4 D= 0.6025 E= 0.7981  
G=-0.5357 H= 0.4043 K=-0.7413 HT= -2.6

DEPTH OF FOCUS= 0.006R

SE= 2.86

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
URAKAWA	0.24	213.2	0	10A	-2	0	18	-3				
HIROO	0.28	103.8	0	10A	-3	0	18	-4				
OB IHIRO	0.60	17.6	0	15A	0	0	25	-2				
TOMAKOMAI	1.05	286.0	0	21	1	0	36	1				
KUSIRO	1.24	58.9	0	21K	-1	0	38	-1				
SAPPORO	1.38	302.0	0	24K	0	0	42	0				
MURORAN	1.46	269.6	0	24	-1	0	41	-3				
ASAHI GAWA	1.49	343.6	0	27	1	0	47	2				
HAKODATE	1.72	252.5	0	29K	0	0	50	0				
MORI	1.79	262.9	0	30K	1	0	52	0				
ABASHIRI	1.93	29.7	0	33	2	0	59	4				
SUTTSU	2.06	283.6	0	33	0	0	58	0			1	21
HATINOHE	2.11	211.0	0	33	-1	0	57	-2				
NEMURO	2.17	62.2	0	35K	0	0	59	-2				
AOMORI	2.23	227.6	0	36K	0	1	3	1				
MIYAKO	2.80	195.8	0	47	4	1	11	-5				
MORI OKA	2.97	207.6	0	44	-2	1	12	-9				
WAKKANAI	3.21	343.8	0	53	4	1	40	13				
AKITA	3.40	220.4	0	58	6	1	36	5				
MIZUSAWA	3.50	203.9	0	55	2	1	27	-7				
ISINOMAKI	4.11	198.2	1	0	-2	1	43	-6				
SENDAI	4.36	201.8	1	4	-1	1	49	-6				
YAMAGATA	4.55	206.8	1	3	-5							
Y.-SAKHLINSK	4.68	358.0	1	10	0	2	3	0				
HUKUSIMA	4.97	203.3	1	13	-1	2	14	3				
ONAHAMA	5.62	197.0	1	43	20	2	25	-2				
AIKAWA	5.63	221.4	1	22	-1							
SHIRAKAWA	5.63	202.9	1	35	12	2	51	24				
UTUNOMIYA	6.26	203.4	1	29	-2	2	40	-2				
MITO	6.26	198.7	1	30	-1	2	37	-5				
KAKI OKA	6.48	200.3	1	32	-2	2	44	-4				
TUKUBASAN	6.51	200.8	1	30A	-5							
MAEBASI	6.66	208.1	1	36	-1	2	58	6				
NAGANO	6.76	214.5	1	44	6							
UGLEGORSK	6.76	355.1	1	40	2	2	57	2				
KUMAGAYA	6.78	205.3	1	41	2	2	52	-3				
TYOSI	6.82	194.6	1	35	-4	2	49	-7				
MATUSIRO	6.86	213.9	1	39A	-1	2	57	0			2	17
OIWAKE	6.91	211.0	1	49	8							
TOKYO C.M.O.	7.11	201.6	1	46	3	2	57	-6				

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1960		PAGE 211									
KOHU	7.49	208.6	1	50	1	3	40	27			
HUNATU	7.57	206.8	1	50	0					2	37
MISIMA	7.86	204.7	2	3	9						
VLADIVOSTOK	8.17	279.1	1	58	0	3	36	6			
GIHU	8.45	216.8	2	3	1						
HIKONE	8.79	218.7	2	7	1						
KAMEYAMA	9.04	216.2	2	10	0						
KYOTO	9.24	220.0	2	11	-1					2	42
ABUYAMA	9.44	220.1	2	14A	-1						
MAGADAN	17.90	13.1	4	4	-1						
YAKUTSK	21.23	342.7	4	39	-2	8	25	-3			
ULAN-BATOR	25.87	294.9	5	27	1						
TIKSI	30.17	351.2	6	1	-4						
COLLEGE	44.02	35.1	8	1	-1					8	15
SHILLONG	44.87	264.9	7	12	-57					7	56
CHATRA	47.64	269.7	8	30A	-1						
KHEYS	47.71	347.2	8	29	-2						
SVERDLOVSK	52.04	316.3	8	4	-60						
LAHORE	54.54	282.6	9	23	0						
STALINABAD	54.89	292.8	9	25	0				9	55	
WARSAK DAM	55.25	286.6	9	28A	0						
RESOLUTE	57.17	15.5	9	39	-3						
APATITY	58.37	334.8	9	50	0						
THULE	59.84	8.2	9	57	-3						
SODANKYLA	60.55	336.5	10	4	-1						
QUETTA	60.60	285.3	10	5A	0					12	19 PP
KIRUNA	61.99	338.7	10	8	-7						
CHARTERS TS.	62.20	176.5	10	15	-1						
MOSCOW	63.73	322.5	10	25	-1						
CORVALLIS	64.22	52.4	10	38	9						
PULKOVO	64.25	328.8	10	11	-18						
NURMI JARVI	65.83	331.5	10	40	0						
HELSINKI	65.96	331.1	10	40	-1						
SHASTA	67.03	55.4	10	49	2						
SKALSTUGAN	67.41	338.4	10	49	-1						
TIFLIS	68.52	307.2	10	58	1						
UPPSALA	68.72	333.8	10	56	-2					11	20
RENO	69.31	55.1	11	12	11						
SHIRAZ	71.01	293.0	11	11K	-1						
EUREKA	71.65	53.1	11	17	1					13	10
GOTEBORG	72.23	334.8	11	38	19						
COPENHAGEN	73.72	333.3	11	28K	0				11	45	
PASADENA	73.73	58.6	11	29	1						
LWOW	73.79	323.8	11	29	1						
KRAKOW	75.37	326.0	11	38	1						
RAPID CITY	75.57	42.9	11	40	2						
RACIBORZ	76.05	326.9	11	43	2						
COLLMBERG	77.08	330.4	11	47A	0					12	26
PRUMONICE	77.57	328.8	11	50A	0					12	8
JENA	77.90	330.9	11	52	1					12	14
WITTEVEEN	77.98	334.6	11	45	-7						
KSARA	79.01	305.8	11	59	1						
TUCSON	79.57	55.8	12	17	16						
TUCSON TELE.	79.58	55.7	12	2	1						
UCCLE	80.46	334.8	11	0	-65					13	33 PP
STUTTGART	80.53	331.0	12	6	0						
JERUSALEM	80.83	304.7	12	9	2						
BASLE	82.18	331.3	11	52	-22						
LAWRENCE	83.35	41.8	12	21	1						
FOLINIERE	83.72	336.6	12	23	1						
KARAPIRO	85.23	154.7	12	48	18						
OTTAWA	86.07	26.2	12	34	0						
FAYETTEVILLE	86.11	43.0	11	37K	-57						
BREBEUF	86.65	24.8	12	37K	0						
BYRD STATION	132.67	166.4	19	10	3						

MARCH 15 9.H 20.M 56.S EPICENTRE 50.64-174.55 DEPTH= 0.KM

A=-0.63386 B=-0.06048 C= 0.77108 D=-0.0950 E= 0.9955  
G=-0.7676 H=-0.0732 K=-0.6367 HT= -5.6

SE= 1.72

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PETROPAVLOVK	16.70	288.6	3	57	1	7	3	1				



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1960										PAGE 212	
COLLEGE	19.93	34.3	4 34	-2	8 29	14					
MAGADAN	21.51	307.8	4 51	-1							
SITKA	23.75	59.1	5 17	3					5 34		
UGLEGORSK	27.72	283.8	5 51	0							
Y.-SAKHLINSK	28.07	279.4	5 55	0	10 39	0					
YAKUTSK	31.89	312.5	6 27	-2	11 24	-15					
KIPAPA	31.93	149.9	6 30	1							
HONOLULU	32.01	150.1	6 30	0							
TIKSI	32.60	330.6	6 34	-1	11 46	-4					
CORVALLIS	34.49	79.8	6 52A	1							
ARCATÁ	35.90	85.8	7 5	2							
MATUSIRO	36.37	265.7	7 7A	0					9 31	PCP	
VLADIVOSTOK	36.66	279.5	7 8	-2	12 54	1					
SHASTA	37.07	84.9	7 15K	2							
UKIAH	37.43	87.6	7 18	2							
MINERAL	37.77	84.8	7 20	1							
HUNGRY HORSE	38.42	69.1	7 26	2					9 39	PCP	
BERKELEY	38.78	88.5	7 28	1					16 34		
ABUYAMA	39.09	265.8	7 31K	1							
RESOLUTE	39.31	24.4	7 31	-1					9 39		
RENO	39.36	84.6	7 34K	2							
LICK	39.49	88.7	7 35A	2							
CHANGCHUN	40.40	284.4	7 40K	-1	13 51	1					
BUTTE	40.40	71.6	7 41	0							
FRESNO	41.00	88.1	7 48	2							
BOZEMAN	41.50	71.3	7 51	1							
EUREKA	41.82	82.1	7 53	0					9 38	PP	
SALT LAKE C.	43.66	77.8	8 8	0							
PASADENA	43.68	89.9	8 9	1	14 40	2			9 55	PP	
BOULDER CITY	44.65	85.3	8 16	0							
THULE	45.00	18.7	8 17	-1					9 58	PP	
KHEYS	45.80	349.5	8 15	-10							
RAPID CITY	47.05	68.9	8 35	0					14 21	SCP	
LARAMIE	47.22	73.4	8 36	0							
NORD	47.47	4.3	8 36	-2							
IRKUTSK	48.04	305.3	8 43	1							
PEKING	48.17	285.4	8 43	0	15 40	-2					
TUCSON	49.58	86.3	8 55	1							
TUCSON TELE.	49.59	86.2	8 55	1							
GUAM	49.62	236.4	8 51	-4							
ZO-SE	50.70	273.0	9 2K	-1	16 15	-3					
PAOTOW	51.56	289.8	9 11	2	16 37	7					
NANKING	51.58	275.6	9 7	-3	16 29	-1					
LAWRENCE	54.89	69.4	9 32	-2							
WUHAN	55.28	277.3	9 35K	-2	17 20	0					
FAYETTEVILLE	57.41	71.4	8 49K	-63					9 45	PP	
SCORESBY SD.	57.58	10.6	9 53	0							
FLORISSANT	57.88	66.6	9 54	-2							
ST. LOUIS I	58.07	66.7	9 55	-2	18 3	6					
LANCHOW	58.20	289.4	9 58K	0	17 59	0					
LITTLE ROCK	59.40	71.3	10 5	-1							
APATITY	60.27	348.0	10 11	-1	18 22	-4					
SODANKYLA	61.23	350.8	10 17	-2					15 8	SCP	
KIRUNA	61.32	353.6	10 17	-2					10 41		
OTTAWA	61.42	52.4	10 19K	-1							
RABAUL	61.65	218.5	10 20	-1							
CHENGTU	61.78	284.7	10 21K	-1	18 45	0					
SHAWINIGAN	62.08	49.9	10 23A	-1							
BREBEUF	62.40	51.2	10 24K	-2	18 47	-6					
MANILA	62.57	259.4	10 28	0							
SEVEN FALLS	62.60	48.4	10 26	-2							
MORGANTOWN	63.23	59.6	10 31A	-1							
PALISADES	65.48	54.8	10 47	0	19 35	4	11 7	20 19	PS		
FORDHAM	65.61	54.9	10 46	-1							
WESTON	65.80	52.3	10 48K	-1							
SKALSTUGAN	66.00	356.7	10 49	-1							
CHAPEL HILL	66.37	61.9	10 53	1					11 39		
KUNMING	66.50	281.3	10 52K	-1	19 47	4					
COLUMBIA	66.63	64.6	10 54	0							
HALIFAX	67.84	46.1	11 2	0							
PULKOVO	68.11	346.7	11 3	0							
NURMI JARVI	68.13	349.9	11 3	0	20 1	-2			13 33	PP	
PORT MORESBY	68.41	221.1	11 4	-1							
HELSINKI	68.42	349.7	11 5	0							
FRUNSE	69.16	312.6	11 10	0	20 17	2					
UPPSALA	69.42	353.5	11 10	-1					11 33		
MOSCOW	70.67	341.4	11 18	-1							
ANDI JAN	71.84	312.6	11 27	1							
GOTEBORG	71.89	356.3	11 22	-4							

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NAMANGAN	71.98	313.2	11 28	1	20 50	2	
SHILLONG	72.84	289.4	11 31A	-1	20 55	-3	
COPENHAGEN	73.89	355.9	11 38	0	21 12	2	
NOUMEA	74.54	198.2	11 41	-1			12 0
CHATRA	74.68	293.5	11 43K	0	21 19	0	
STALINABAD	75.25	313.6	11 44	-2	21 26	1	
CHITTAGONG	75.27	287.2	11 47K	1	21 22	-3	14 36 PP
POTSDAM	77.15	355.2	11 56	-1			
WARSAK DAM	77.59	308.9	11 57K	-2			
MUNSTER	77.75	358.6	12 2	2			
HALLE	78.09	355.9	12 2	0	21 57	1	12 15 PCP
LAHORE	78.14	305.5	12 3	1	21 58	2	
KEW	78.15	3.7	12 4	2			
COLLMBERG	78.23	355.2	12 2A	-1	22 5	8	
CHARTERS TS.	78.43	217.3	12 3	-1			
LWOW	78.67	347.8	12 6	1			
JENA	78.67	356.0	12 6	1	22 2	0	13 9
BENSBERG	78.77	358.9	12 6	0			12 20 PCP
KRAKOW	78.93	350.5	12 6	0			12 15 PCP
UCCLE	78.93	0.7	12 8	2			
PLAUEN	79.09	355.6	12 4	-3			
SONNEBERG	79.24	356.3	12 9	1			
PRUMONICE	79.46	354.0	12 10A	1	22 10	0	
DOUBES	79.64	0.6	12 11	1			12 24 PCP
MAKHACH-KALA	79.83	330.0	12 13	2	22 14	0	
HEIDELBERG	80.30	357.8	12 14	0			
KISHINEV	80.65	344.0	12 16	0	22 27	4	
TASI	80.69	344.9	12 18	2	22 23	0	
FOLINIERE	80.84	4.0	12 17	0			
STUTTGART	80.92	357.4	12 18	1			13 6
BRATISLAVA	81.06	352.1	12 20K	2			
TUBINGEN	81.16	357.6	12 19	1			
BACAU	81.41	345.2	12 34	14			
EBINGEN	81.51	357.6	12 21	1			
SIMFEROPOL	81.59	339.9	12 21	0	22 34	1	
TIFLIS	81.80	331.3	12 23	1	22 36	1	
BASLE	82.19	358.5	12 25K	1			21 54
FOCSANI	82.21	344.8	12 38	14	22 52	13	
NEUCHATEL	82.73	359.0	12 25	-2			
BRISBANE	82.89	208.9	12 25	-2			
QUETTA	82.96	309.9	12 28	0	22 47	0	15 38 PP
CAMPULUNG	82.97	346.2	12 32	4	22 58	11	
TOLMEZZO	83.12	354.7	12 34	5			
LJUBLJANA	83.37	353.7	12 30	0			
BUCHAREST	83.63	345.3	12 35	4	23 1	8	
TRIESTE	83.82	354.2	12 33	1	22 56	1	
CLERMONT-FD.	83.95	1.6	12 36A	3			12 58
BELGRADE	84.03	349.3	12 35K	2	23 5	8	13 48
SAN JUAN	87.10	64.4	12 49	1			
KARAPIRO	88.62	187.8	12 55	-1			
ISOLA	88.69	353.6	12 43	-13			12 44 PCP
POONA	88.79	298.1	12 57	0			
SHIRAZ	89.89	320.4	13 1A	-1	23 49	-4	
CANBERRA	91.43	209.1	13 10	1			
KSARA	91.71	335.0	13 11A	1			
JERUSALEM	93.82	334.9	13 20	0			
HELWAN	96.63	337.6	13 34	1			
TAMARRASSET	106.91	359.9					18 33 PP
LWIRO	127.89	329.9	19 10A	2			
BROKEN HILL	139.37	324.4	19 22	-7			
SOUTH POLE	140.45	180.0	19 8	-23			23 34
PORT STANLEY	141.40	117.0	19 27	-6			
BULAWAYO	144.49	320.5	19 37K	-1			
PIETERMZBURG	151.87	308.8	19 57K	7			
KIMBERLEY	153.71	319.0	19 53	1			

MARCH 16 17.H 39.M 17.S EPICENTRE -15.60-173.01 DEPTH= 0.KM

A=-0.95646 B=-0.1734 C=-0.26723 D=-0.1218 E= 0.9926  
G= 0.2652 H= 0.0325 K=-0.9636 HT= 5.6

SE= 2.70

DELTA	AZ.	P	O-C	S	O-C	*PP	SUPP.
DEG.	DEG.	M	S	S	M	S	M

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AFIAMALU	2.06	35.4	0	30K	-7	0	51	-12		
SUVA	8.58	251.6	2	16	7				3	1
PORT VILA	18.02	260.6	4	14	0	7	2	-31		
NOUMEA	20.53	247.9	4	41	-2	7	52	-36		
ONERAHI	23.04	207.0	5	10	2					
AUCKLAND	23.80	204.8	5	14	-2					
KARAPIRO	24.44	202.3	5	22	0					
CHATEAU	25.57	200.9	5	34	1					
BRISBANE	33.82	243.9	5	41	-65	11	1	-69		
RABAU	36.06	284.6	7	2	-4				13	19
RIVERVIEW	37.03	234.0	7	11A	-3	12	55	-5	15	53 SSS
CHARTERS TS.	38.96	257.3	7	28	-2	13	20	-9		
CANBERRA	39.21	232.8	7	30A	-2	13	29	-4	9	41 PCP
PORT MORESBY	39.34	274.2	7	33	0	13	18	-17		
HONOLULU	39.48	22.2	7	36	2				22	58
KIPAPA	39.62	22.2	7	35	0					
MELBOURNE	43.11	230.9	8	2A	-2					
ADELAIDE	47.22	236.6	8	36	-1					
CAPE HALLETT	57.55	186.0				18	3	12	24	3 SS
MUNDARING	65.77	241.7	9	47	-62					
PERTH	66.10	241.7	10	52	1					
TUKUBASAN	67.96	320.4	11	2A	-1					
BYRD STATION	68.71	171.3	11	7	-1					
MATUSIRO	69.33	319.6	11	10A	-2	20	24	6		
WILKES	70.40	204.6				20	34	3		
BERKELEY	71.39	40.3	11	26	2	21	14	32		
LICK	71.45	41.0	11	27A	2					
PASADENA	71.88	45.5	11	31	4	20	52	4	25	43 SS
FRESNO	72.29	42.5	11	31	1					
PETROPAVLOVK	72.58	342.5	11	35	4					
SHASTA	73.06	37.9	11	36	2					
Y.-SAKHLINSK	73.91	330.2	11	27	-12	21	10	-1		
RENO	73.92	40.1	11	43	4					
SOUTH POLE	74.50	180.0	11	42	-1					
CORVALLIS	75.02	34.3	11	38	-8					
BOULDER CITY	75.18	45.5	11	55	9					
TUCSON	76.16	50.5	11	51	-1				13	5
EUREKA	76.32	41.9	11	52	-1					
VLADIVOSTOK	77.19	322.0	11	57	-1	21	57	10		
LEMBANG	77.99	266.2	12	0A	-2	21	50	-6		
ZO-SE	78.39	307.0	12	4A	0	22	15	15		
SALT LAKE C.	79.67	42.6	12	9	-2					
MAGADAN	80.44	342.2							20	42
NANKING	80.65	307.0	12	20	3	22	44	20		
CHANGCHUN	81.58	319.9	12	21A	0	22	48	15		
CANTON	81.63	296.7	12	22	0	22	50	16		
HUNGRY HORSE	82.40	35.2	12	24	-2					
COLLEGE	82.49	10.6	12	24	-2	22	39	-4	23	51 PS
BOZEMAN	82.69	38.6	12	27	0					
WUHAN	83.35	304.1	12	30	-1					
LARAMIE	84.09	44.4	12	34	0					
PEKING	85.88	313.4	12	44A	1	23	34	18	23	20 SKS
SIAN	89.13	305.8	13	1A	2					
PAOTOW	90.44	312.1	13	6	1					
LAWRENCE	90.46	49.6	11	50	-75					
LITTLE ROCK	91.32	54.3	13	9	0					
KUNMING	91.45	295.5	13	12	2	24	24	16	23	55 SKS
SANTA LUCIA	91.49	125.2	13	43	33	24	13	5	23	43 SKS
LANCHOW	93.65	306.3	13	21	1					
FLORISSANT	94.03	51.0				24	31	1	23	58 SKS
ST. LOUIS 1	94.09	51.2				24	35	4	23	57 SKS
ULAN-BATOR	94.95	318.3	13	26	0					
TIKSI	95.28	344.3	13	12	-15					
IRKUTSK	97.78	322.0	13	39	0					
LA PAZ	99.32	110.0				24	30	6	31	19 SS
BOGOTA	99.82	87.9				24	31	4	25	16 SKKS
FUQUENE	100.37	87.2							27	39 PPS
RESOLUTE	101.82	15.4	13	55	-2				25	37
PALISADES	106.86	51.3	14	28	777	25	0	1	18	58 PP
THULE	108.51	13.9							18	58 PP
QUETTA	123.47	296.0	19	1	1					
PULKOVO	132.71	344.2							21	44 PP
NURMI JARVI	133.36	348.1	19	18	-1				22	46 PKS
MOSCOW	133.58	336.6	19	9	-10					
SHIRAZ	135.99	296.6	19	23	-1				22	56 PKS
MAKHACH-KALA	136.00	316.7							22	54 PP
TIFLIS	138.34	316.3	19	32	4					
BULAWAYO	138.62	211.6	19	24	-4					

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COPENHAGEN	139.78	355.2				22 27 PP
BULAWAYO	138.62	211.6	19 24	-4		
COPENHAGEN	139.78	355.2				22 27 PP
SOTCHI	140.60	321.8	19 26	-6		
SIMFEROPOL	142.86	327.6	19 33	-3		
LWOW	143.17	341.5	19 34K	-2		22 42
BROKEN HILL	143.37	216.5	19 36	-1		
DE BILT	143.56	1.9	19 43	6		
COLLMBERG	144.06	353.6	19 41	3		22 47 PP
KRAKOW	144.07	345.8	19 36	-2		
IASI	144.16	335.8	19 46	8		
RACIBORZ	144.43	347.6	19 39	0		
JENA	144.57	355.0	19 37	-2		22 57 PP
BENSBERG	144.73	359.8	19 39	0		
UCCLE	144.82	2.9	19 37	-2		
PLAUEN	144.95	354.3	19 36	-4		23 16
PRAGUE	145.09	351.6	19 46	6		
SONNEBERG	145.14	355.3	19 39	-1		
PRUHONICE	145.16	351.5	19 39A	-1		22 58 PP
DOURBES	145.54	2.7	19 42	1		23 5 PP
HEIDELBERG	146.26	358.0	19 43	1		
BRATISLAVA	146.47	347.7	19 44K	2		19 49 PKP2
VIENNA-H.	146.54	348.6	19 43	1		19 52 PKP2
PARIS	146.68	5.4	19 44	2		
CAMPULUNG	146.75	336.5	19 49	6		
STUTTGART	146.87	357.2	19 43	0		20 22
BUCHAREST	147.02	334.5	19 48K	5		
TUBINGEN	147.12	357.5	19 51	8		
EBINGEN	147.47	357.5	19 44	0		
BASLE	148.16	359.2	19 48	3		
KSARA	148.26	310.1	19 51A	6		23 18 PP
NEUCHATEL	148.69	0.1	19 49	3		
CHUR	148.77	356.6	19 53	7		
TOLMEZZO	148.88	351.9	19 51	5		
LJUBLJANA	148.99	349.8	19 50	4		
TRIESTE	149.51	350.6	19 57	10		
SOFIA	149.57	335.8	19 53	6		20 41
JERUSALEM	149.67	307.1	19 21	-26		22 30 PP
CLERMONT-FD.	149.75	5.4	19 53	6		
OROPA	150.06	358.6	19 50	2		23 33
PAVIA	150.46	356.9	19 50	2		23 37 PP
SERRA PILAR	151.19	24.9	19 43A	-7	26 45 -11	23 31 PP
MONACO	151.96	359.3	20 9	18		
LWIRO	152.08	232.4	20 1	10		
ATHENS	153.27	329.6	20 1	8		
ROME	153.37	350.8	19 55	2		23 57 PP
HELWAN	153.52	306.6	19 54	1		20 34
TOLEDO	153.96	19.6	20 7	13		
ISOLA	154.23	347.9	19 57	3		
GRANADA	156.54	21.6				20 37 PKP2
MBOUR	156.82	89.8	20 3	6		45 19 SS
ALGIERS UNI.	158.62	8.7	20 1	1		24 21
TAMANRASSET	172.72	10.8	20 12	1		25 31 PP

MARCH 18 1.H 14.M 55.S EPICENTRE 14.60 -90.28 DEPTH= 160.KM

A=-0.00465 B=-0.96812 C= 0.25045 D=-1.0000 E= 0.0048  
G=-0.0012 H=-0.2504 K=-0.9681 HT= 5.8

DEPTH OF FOCUS= 0.020R

SE= 2.31

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
SAN SALVADOR	1.39	131.1	0	30	0	0	53	0				
SANTIAGO MA.	2.07	121.9	0	38	1	1	7	1				
COMITAN	2.43	312.8	0	43	1	1	17	3				
MERIDA	6.35	5.5	1	27	-6	2	42	-2				
OAXACA	6.70	291.9				2	55	2				
VERA CRUZ	7.23	310.0				3	11	5				
TACUBAYA	9.78	300.5	2	54	36	4	9	3			5	25
CHINCHINA	17.31	122.1	3	53	0	7	9	10				
BOGOTA	18.79	120.3	4	10	0	7	41	11				
LITTLE ROCK	20.18	355.0	4	25	1				4	55		
COLUMBIA	21.05	21.8	4	36	3							

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FAYETTEVILLE	21.69	351.4	3	40A	-59						
CHAPEL HILL	23.50	23.3	4	59	2						
ST. LOUIS 1	23.95	0.1	5	1	0			5	39	9	59 *SS
FLORISSANT	24.11	359.8	5	4	2			5	39	9	57 *SS
LAWRENCE	24.67	350.7	5	7	-1						
TUCSON TELE.	25.68	317.0	5	18	1			5	54		
TUCSON	25.70	316.7	5	18	1			5	55		
MORGANTOWN	26.53	18.1	5	26K	1			6	1		
LARAMIE	29.75	336.4	5	59	5						
PALISADES	29.92	25.3	6	1	6	10	49	9			11 51 SS
HUANCAYO	30.33	150.0	5	59	0						
PASADENA	31.84	312.6	6	12	0						
SALT LAKE C.	32.15	328.3	6	10	-5						
OTTAWA	33.08	18.9	6	22	-1						
EUREKA	33.51	322.6	6	28	1			7	5		
SHAWINIGAN	35.07	21.2	6	39	-1						
SEVEN FALLS	36.25	22.6	6	50	0						
BUTTE	36.50	333.6	6	53	1						
LA PAZ	37.86	143.9	7	3	0	12	50	8			
HUNGRY HORSE	38.95	334.7	7	13	1						
VICTORIA	43.45	328.1	7	48	-1			7	48	8	48 PP
HORSESHOE B.	43.93	329.1	7	52K	-1						
RESOLUTE	60.13	358.6	9	50	-3						
THULE	62.90	5.7	10	11	-1			10	52		
COLLEGE	63.36	336.2	10	12	-3			10	47		
NORD	73.27	8.5	11	14	-2						
FOLINIÈRE	79.04	42.4								13	17
SKALSTUGAN	82.54	26.1	12	6	-1						
KIRUNA	84.16	20.9						12	58		
STUTTGART	85.33	40.9	12	18	-2						
UPPSALA	86.22	28.8	12	23	-2			13	4		
SODANKYLA	86.48	20.2	12	25	-1						
COLLMBERG	86.83	37.7	12	27	-1			13	10	13	29 *SP
NURMIJARVI	89.10	26.7	12	44	5					16	10 PP
CHARTERS TS.	125.96	255.6	18	45	2						
MUNDARING	150.28	229.9	19	28	1						

MARCH 19 19.H 15.M 39.S EPICENTRE -3.28 138.35 DEPTH= 0.KM

A=-0.74599 B= 0.66352 C=-0.05688 D= 0.6646 E= 0.7472  
G= 0.0425 H=-0.0378 K=-0.9984 HT= 7.1

SE= 3.04

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
PORT MORESBY	10.65	125.2	2	39	2	4	34	-4				
RABAU	13.82	94.2	3	21	2						3	55
GUAM	17.80	20.7	4	12	1	7	35	7				
CHARTERS TS.	18.40	155.8	4	19	1	7	44	3				
MANILA	24.72	316.6	5	27	3	10	11	27				
BAGUIO CITY	26.30	318.6	5	37	-2	10	5	-5				
BRISBANE	27.66	151.5	5	52K	1	10	28	-5				
KOLMAC	30.55	126.3	6	16	-1	11	13	-6				
LEMBANG	30.80	262.2	6	18K	-1	11	23	0				
ADELAIDE	31.53	179.4	6	25K	-1	11	43	9			9	49
DJAKARTA	31.54	263.6	7	23	57	11	29	-5				
RIVERVIEW	32.65	160.0	6	35K	-1	11	49	-3			7	41 PP
NOUMEA	33.17	127.1	6	40	0						9	37 PCP
CANBERRA	33.37	164.1	6	41	-1	11	57	-6			7	57 PP
HONG KONG	34.71	318.2	6	59	6	12	19	-5				
MELBOURNE	34.91	170.8	6	55	0						7	19 *SP
MUNDARING	35.32	213.6	6	58	-1						8	42 PP
PERTH	35.51	214.1										
CANTON	35.81	318.3	7	4	1							
ZO-SE	37.91	335.7	7	25	5							
TUKUBASAN	39.33	2.2	7	30A	-2							
MATUSIRO	39.62	359.8	7	33	-2	13	34	-5			9	41 PCP
NANKING	39.76	333.6	7	36	0	13	36	-5	7	53	8	2 *SP
MEDAN	40.23	279.4	7	28A	-12	13	27	-21				
FORT NELSON	40.28	169.8	7	43	3							
WUHAN	40.58	327.7	7	43	0	13	53	0	8	2		
SIAN	46.49	325.9	8	31	0	15	15	-4				
VLADIVOSTOK	46.55	353.5	8	31	0	15	17	-3				
CHENG TU	47.04	318.4	8	36	1	15	21	-6	8	53		
PEKING	47.67	336.9	8	39	-1	15	31	-5	8	57	9	5 *SP

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PORT BLAIR	47.74	288.9	8 54	14			
CHANGCHUN	48.34	347.4	8 43	-2	9	0	
KARAPIRO	48.41	140.3	8 45	-1			
COBB RIVER	48.69	145.4	8 47	-1			
KAIMATA	48.94	147.7	9 0	10			
CHATEAU	49.17	141.6	8 52	1			
TUAI	49.95	140.2	8 57	0			
WELLINGTON	49.99	144.3	8 58	0			
Y.-SAKHLINSK	50.24	3.9	8 57	-3	16	6	-6
LANCHOW	50.71	323.6	9 4	1	16	15	-3
PAOTOW	50.76	332.2	9 4	0	16	16	-3
CHITTAGONG	52.10	301.6	9 15	1	16	33	-4
SHILLONG	53.38	305.3	9 21K	-2	16	48	-7
CALCUTTA	55.11	300.3	10 35	59			17 16
CHATRA	57.74	304.6	10 0	5	17	52	-1
BOKARO	57.78	300.8	10 11	16	17	49	-5
ULAN-BATOR	57.94	335.5	9 44	-12			13 53
MADRAS	59.96	287.0	10 9	-1	18	17	-5
KODAIKANAL	62.08	283.3	10 57	32	19	38	49
MAGADAN	63.41	7.1	10 31	-2			
TERRE ADELIE	63.45	178.7	10 28	-6			
WILKES	65.90	191.9	10 46	-4	19	28	-8
KIPAPA	66.89	65.2	10 55	-1			11 36
POONA	67.05	291.6	10 55	-2	19	44	-6
BOMBAY	68.08	291.7	11 23	20			20 51
LAHORE	69.89	305.2	11 16	1	20	33	9
CAPE HALLETT	71.74	170.2	11 26	0			21 39 SCS
WARSAK DAM	72.84	306.9	11 32K	0			
ANDI JAN	74.23	313.9	11 41	1	21	11	-3
NAMANGAN	74.81	313.9	11 46	2	21	16	-4
TIKSI	75.03	356.9	11 42	-3	21	15	-8
QUETTA	75.68	302.1	11 48K	-1	21	24	-6
COLLEGE	86.14	24.3	12 41	-3	23	1	-17
SOUTH POLE	86.74	180.0	12 46	-1			16 19 PP
SHIRAZ	87.98	299.7	12 51	-2	22	54	-42
BYRD STATION	88.89	170.2	13 4	7			
KHEYS	91.63	350.7			23	40	-29
TIFLIS	94.82	311.4	14 19	54	23	52	-45
CORVALLIS	98.25	45.6	13 44	4			16 48 PP
APATITY	98.70	337.9	13 40	-2			
MOSCOW	98.74	325.8	13 38	-4			
SHASTA	99.16	49.5	13 44	0			
BERKELEY	99.42	52.3	13 43	-3	22	59	-85
LICK	99.94	52.8	13 48A	0			
RENO	101.22	50.5	14 40	46			
SODANKYLA	101.27	338.5	13 53	-1			
PULKOVO	101.85	330.6					18 13 PP
KSARA	102.18	303.7	13 53	-5			17 56 PP
RESOLUTE	102.34	12.6	13 56	-3			27 31
PASADENA	102.99	55.9	14 1	-1			14 56
HUNGRY HORSE	104.12	41.0	14 5	-2			
EUREKA	104.17	50.2	14 7	0			18 22 PP
NURMI JARVI	104.35	332.1	14 5	-3			18 23 PP
PRUHONICE	113.70	324.1	19 35	55			20 45
COLLMBERG	114.01	325.9	18 42	1			
STUTTGART	117.32	324.7	18 48	1			
ISOLA	117.78	314.9	18 54	6			
TACUBAYA	121.63	69.3	19 15	19			
SETIF	125.71	313.2	19 3	-1			19 53
RELIZANE	129.40	315.0					22 54 PKS
TAMANRASSET	130.41	297.3	19 10	-3			21 26 PP
COLUMBIA	132.28	45.4	19 34	18			
PALISADES	132.54	33.2					21 43 PP
SANTA LUCIA	134.35	145.5					22 53
HUANCAYO	143.22	115.0	19 36A	0			23 47 PP
CHINCHINA	146.08	86.0	19 42	1			
BOGOTA	147.63	86.6	19 48	5			
FUQUENE	147.94	85.0	19 48	4			
SAN JUAN	151.73	56.2	19 56	6			21 36

MARCH 20 13.H 36.M 55.S EPICENTRE 39.90 143.12 DEPTH= 36.KM

A=-0.61535 B= 0.46165 C= 0.63893 D= 0.6001 E= 0.7999  
G=-0.5111 H= 0.3834 K=-0.7693 HT= -1.6

DEPTH OF FOCUS= 0.000R



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SE= 3.06

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
MIYAKO	0.92	254.5	0	17A	0	0	30	1				
HATINOHE	1.37	297.7	0	23A	0	0	41	1				
MORIOKA	1.52	263.0	0	26A	1	0	44	0				
MIZUSAWA	1.72	244.0	0	26	-2	1	1	12				
AOMORI	2.01	297.9	0	31A	-1	1	0	4				
ISINOMAKI	2.03	224.2	0	31A	-1	1	4	7				
URAKAWA	2.26	353.5	0	37	2	1	6	4				
AKITA	2.33	266.5	0	37A	1	1	13	9				
SENDAI	2.38	227.4	0	37A	0	1	9	4				
HIROO	2.38	3.5	0	36	-1	1	5	0				
HAKODATE	2.62	317.5	0	41A	0	1	18	7				
YAMAGATA	2.72	233.5	0	42	0	1	20	6				
SAKATA	2.74	249.6	0	46	4	1	26	11				
MURORAN	2.91	326.9	0	45	0	1	25	6				
MORI	2.92	319.5	0	47A	2	1	27	8				
TOMAKOMAI	2.96	337.4	0	52	7	1	22	2				
HUKUSIMA	2.98	224.8	0	45K	-1	1	21	0				
OBIIHRO	3.02	1.1	0	47	1						1	34
KUSIRO	3.22	16.9	0	47	-2	1	22	-5				
ONAHAMA	3.43	211.3	0	54	2	1	37	5				
SAPPORO	3.43	337.8	0	51	-1	1	42	10				
SHIRAKAWA	3.59	220.2	0	54	0	1	45	9				
SUTTSU	3.62	324.0	0	56	1	1	49	12				
NIIGATA	3.74	239.4	0	55	-2	1	47	7				
NEMURO	3.89	27.5	0	55	-4	1	37	-7				
ASAHI GAWA	3.92	352.0	1	0	1	1	53	9			1	20
MITO	4.09	211.6	1	1	0	1	55	6	1	19		
ABASHIRI	4.20	11.5	1	1	-2	1	51	-1				
UTUNOMIYA	4.21	218.4	1	1	-2	2	10	18			1	50
AIKAWA	4.24	245.2	1	3	-1	2	14	21			9	59
KAKIOKA	4.34	213.3	1	1	-4	2	7	12				
TUKUBASAN	4.38	213.9	1	2A	-4							
TYOSI	4.55	204.0	1	11	3	2	18	18				
MAEBASI	4.74	223.7	1	10	-1	2	7	2			1	42
TAKADA	4.74	235.3	1	8	-3	2	14	9				
KUMAGAYA	4.77	219.4	1	10K	-1	2	9	3				
HONGO	4.96	213.4	1	10	-4							
TOKYO C.M.O.	4.99	213.4	1	11	-3	2	12	1			1	36
NAGANO	5.04	231.7	1	17	2	2	27	14				
TITIBU	5.05	220.5	1	13	-2	2	19	6				
OIWAKE	5.07	226.7	1	15	0	2	27	14				
MATUIRO	5.12	230.6	1	15A	-1	2	21	6			1	58
YOKOHAMA	5.25	212.8	1	22	4	2	30	12			2	15
MATUMOTO	5.46	229.7	1	19	-2	2	36	13				
WAZIMA	5.48	244.6	1	21	0							
KOHU	5.56	222.0	1	22	0	2	29	3				
HUNATU	5.59	219.5	1	20	-3	2	29	3				
WAKKANAI	5.62	349.6	1	50	27							
MERA	5.62	208.8	1	23	0	2	40	13				
TOYAMA	5.65	237.4	1	25	2	2	39	11				
AJIRO	5.80	214.7	1	33	7	2	26	-6			3	0
MISIMA	5.81	216.1	1	25	-1	2	29	-3				
OSIMA	5.93	211.4	1	35	8							
IIDA	6.06	225.5	1	30	1	2	52	14				
SHIZUOKA	6.19	218.8	1	31	0	2	45	3				
KURILSK	6.37	31.8	1	30	-4						2	36
OMAESAKI	6.58	218.0	1	49	13	3	16	25			2	51
HAMAMATU	6.73	221.4	2	38	59						3	6
GIHU	6.75	230.3	1	38	-1	3	8	13				
NAGOYA	6.80	227.9	1	40	0	3	5	8				
Y.-SAKHLINSK	7.12	357.8	1	41	-3	3	1	-4				
HIKONE	7.15	231.9	1	46	1							
KAMEYAMA	7.31	228.5	1	57	10	3	45	36				
TU	7.39	227.4	2	1	13							
KYOTO	7.63	232.6	1	51	0	3	31	14				
NARA	7.80	230.4	1	53	-1	3	30	8				
ABUYAMA	7.83	232.5	1	51K	-3							
TOYOOKA	7.89	239.0	2	55	60	3	29	5				
OSAKA	8.00	231.5	2	12	16	3	55	28				
OWASE	8.03	225.7	2	11	14	4	3	36				
KOBE	8.20	233.0	2	16	17	3	51	20				
SUMOTO	8.59	232.3	2	11	7	4	7	26			3	33
SIOMISAKI	8.73	224.8									4	5
YONAGO	8.94	243.1	2	10	1						5	49
TOKUSIMA	8.97	232.2	2	14	4							

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VLADIVOSTOK	9.01	294.5	2 11	1				4 11
MATSUE	9.12	244.0	2 15	3				
TAKAMATU	9.14	235.3	2 11	-1				
UGLEGORSK	9.21	355.7	2 12	-1				
KOTI	9.97	233.5	2 42	18	4 51	36		
HAMADA	10.11	243.9	2 36	11	4 50	31		
HIROSIMA	10.16	240.4	2 25	-1				
OOITA	11.39	237.8	2 42K	-1			5 39	
SIMONOSEKI	11.42	242.5	2 50	7				
HUKUOKA	12.01	242.3	3 2	11	5 31	26		
KUMAMOTO	12.25	238.6					3 52	
CHANGCHUN	13.84	292.3	3 15	-1				
ZO-SE	19.87	250.6	4 29	-1				
MAGADAN	20.26	11.3	4 34	-1	8 17	2		
PEKING	20.64	279.1	4 35A	-4	8 20	2		
NANKING	21.15	255.9	4 40	-4			8 50	SCS
WUHAN	25.05	257.0	5 21A	-1				
PAOTOW	25.19	282.3	5 22	-2	9 49	5		
ULAN-BATOR	27.10	299.2	5 48	7				
SIAN	27.75	269.2	5 45A	-2				
IRKUTSK	29.25	308.0	6 0A	0				
HONG KONG	30.18	243.1	6 9	0	11 35	31		
CANTON	30.24	245.3	6 8A	-1	11 6	1		
BAGUIO CITY	30.53	226.4	6 9	-3				
LANCHOW	31.04	275.6	6 15	-1				
MANILA	31.69	223.7	6 17	-5	11 24	-4		
TIKSI	32.61	351.7	6 26	-4			7 33	PP
CHENG TU	33.01	266.1	6 32A	-2	11 49	0		
KUNMING	36.78	258.8	7 6A	0	12 49	2		
LHASA	43.45	273.1	8 3A	2	14 37	11		
SEMIPALATNSK	44.32	305.4	8 8	0			9 56	PP
RABAU	44.67	167.1	8 8	-3				
SHILLONG	44.84	267.5	8 10K	-2	14 47	1		
COLLEGE	45.96	33.7	8 20	-1	15 3	0	18 39	SS
CHITTAGONG	46.62	263.8	8 27	1	15 17	5	10 20	PP
CHATRA	47.80	272.0	8 36	1	15 33	4		
KHEYS	50.13	347.7	8 53	0				
FRUNSE	50.20	297.0	9 4	10			16 17	PS
PORT BLAIR	52.50	252.1	9 10	-1				
DEHRA DUN	53.04	281.1	9 21	6	16 48	7		
SVERDLOVSK	53.91	317.6	9 22	0			17 7	PS
TASHKENT	54.44	297.2	9 25	-1			11 30	PP
AGRA	54.66	277.7	9 14A	-13				
LAHORE	55.23	284.3	9 33	2				
STALINABAD	55.99	294.4	9 39	2	17 25	4		
WARSAK DAM	56.11	288.3	9 39	1				
LEMBANG	56.88	223.5	9 38A	-5	17 26	-7		
NORD	58.28	356.6	9 51	-2				
RESOLUTE	59.49	15.2	10 1A	-1				
APATITY	60.64	335.5	10 8	-1				
QUETTA	61.39	286.7	10 14A	0	18 46	15	10 28	12 32
THULE	62.24	8.0	10 18	-2				
SODANKYLA	62.85	337.1	10 23	-1				
ASHKABAD	63.47	298.4	10 28	0			19 21	PS
KIRUNA	64.32	339.2	10 33	-1				
CORVALLIS	65.63	51.5	10 47	5				
MOSCOW	65.75	323.3	10 41	-2				
PULKOVO	66.41	329.4	10 37	-10			13 6	PP
ARCATO	67.17	55.3	11 2	10				
NURMIJARVI	68.05	332.0	10 57	-1			11 13	13 21
HELSINKI	68.17	331.6	10 58	0				
SHASTA	68.33	54.6	10 59	0				
HUNGRY HORSE	68.78	44.2	11 2	0			11 17	
SCORESBY SD.	69.40	354.7	11 9	3				
SKALSTUGAN	69.73	338.9	11 7	-1			13 41	
BERKELEY	70.03	57.1	11 8	-2	20 21	5		
TIFLIS	70.11	308.0	11 10	0				
GORIS	70.46	305.4	11 13	1			20 44	PS
RENO	70.61	54.4	11 19A	6				
LICK	70.74	57.2	11 13A	-1				
UPPSALA	70.97	334.2	11 14	-1			11 49	
BUTTE	70.99	45.6	11 20	4				
BOZEMAN	72.04	45.2	11 27	5			11 49	
SHIRAZ	72.10	293.8	11 21K	-1	20 57	17		
FRESNO	72.26	56.8	11 28	5				
EUREKA	73.03	52.6	11 28	0				
SIMFEROPOL	74.22	315.8	11 34A	-1			21 37	PS
GOTEBORG	74.50	335.2	11 36	0				

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SALT LAKE C.	74.68	49.5	11 40	3							
PASADENA	74.90	58.1	11 38	-1	21 15	3			26 5	SS	
CANBERRA	75.05	175.0	11 43	4							
LWOW	75.85	324.3			21 43	21			14 34	PP	
BOULDER CITY	75.91	54.9	11 44	0							
IASI	76.05	320.7	11 45	0							
RAPID CITY	77.27	42.6	11 53	1							
KRAKOW	77.47	326.5	11 52	-1							
LARAMIE	77.90	45.9	11 56	1					12 39		
SKALNATE PL.	77.99	325.7	11 58A	2							
RACIBORZ	78.17	327.3	11 59	2							
COLLMBERG	79.27	330.8	12 3	0					15 3		
HALLE	79.50	331.4	12 4	0							
PRUHONICE	79.73	329.1	12 7K	2					15 7	PP	
JENA	80.10	331.3	12 7	0	21 50	-18	12 22		13 39		
PLAUEN	80.24	330.7	12 5	-3							
VIENNA-H.	80.35	327.1	12 10	1							
KSARA	80.55	306.3	12 9	-1							
MUNSTER	80.65	333.9	12 11	1							
SONNEBERG	80.69	331.1	12 10	-1							
TUCSON	80.85	55.6	12 14	3					12 46	*SP	
TUCSON TELE.	80.86	55.4	12 13	2							
JERUSALEM	82.33	305.1	12 20	1			12 36				
STUTTGART	82.73	331.2	12 21	0			12 39				
DOORBES	83.24	334.6	12 24	0							
STRASBOURG	83.44	332.0	12 12	-13			12 26				
KEW	83.57	338.0	12 25	0							
BASLE	84.39	331.5	12 30K	0					22 3		
LAWRENCE	85.08	41.8	12 28	-5							
BESANCON	85.21	332.3	12 32	-2			12 49				
FOLINIERE	86.02	336.8	12 38	0							
HELWAN	86.07	306.1	12 37	-1					23 5		
ISOLA	87.37	323.9	12 45	1							
MONACO	87.65	329.5	12 43	-3			12 59				
FAYETTEVILLE	87.81	43.0	11 22K	-84							
ST. LOUIS 1	87.84	39.0	12 45	-1	23 28	3					
PALISADES	92.70	27.1			24 15	6			30 45	SS	
TAMANRASSET	106.16	319.6	13 59	777					18 28	PP	
BYRD STATION	130.26	166.9	19 7	1							

MARCH 20 17.H 7.M 28.S EPICENTRE 39.89 143.21 DEPTH= 0.KM

A=-0.61617 B= 0.46072 C= 0.63880 D= 0.5988 E= 0.8009  
G=-0.516 H= 0.3825 K=-0.7694 HT= -1.6

SE= 2.62

	DELTA DEG.	AZ. DEG.	P			S			O-C			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S			
MIYAKO	0.99	256.2	0 20A		-1	0 36		0							
HATINOHE	1.44	296.8	0 28A		1	0 49		2							
MORIOKA	1.59	263.7	0 32A		3	0 54		3							
MIZUSAWA	1.78	245.4	0 35		3	0 54		-2							
ISINOMAKI	2.07	225.8	0 36A		0	1 5		2							
AOMORI	2.08	297.2	0 37A		1	1 9		6							
URAKAWA	2.28	351.8	0 41		2	1 12		4							
HIROO	2.39	1.9	0 41		0	1 15		4				1 0			
AKITA	2.41	266.9	0 42		1	1 17		6							
SENDAI	2.42	228.8	0 42A		1	1 14		2				1 3			
AKITA	2.41	266.9	0 42		1	1 17		6							
SENDAI	2.42	228.8	0 42A		1	1 14		2				1 3			
HAKODATE	2.67	316.6	0 47A		2	1 21		3				1 8			
YAMAGATA	2.77	234.6	0 47		1	1 23		2							
SAKATA	2.80	250.4	0 51		4	1 28		6							
MURORAN	2.95	325.9	0 47A		-2	1 28		3							
MORI	2.98	318.6	0 54A		5	1 36		10							
OBIHIRO	3.02	359.8	0 52		2	1 27		0							
HUKUSIMA	3.03	225.9	0 50		0	1 32		5							
TOMAKOMAI	3.09	301.8	0 50		-1	1 34		5							
KUSIRO	3.21	15.7	0 52		0	1 33		1							
ONAHAMA	3.45	212.5	0 56		0	1 43		5							
SAPPORO	3.47	336.8	0 56A		0	1 45		7							
SHIRAKAWA	3.63	221.3	0 58		0	1 54		11							
SUTTSU	3.67	323.2	1 0		1	1 51		7				1 18			
NIIGATA	3.80	240.1	1 3A		2	1 50		3							
NEMURO	3.87	26.5	1 0K		-2	1 45		-3				1 24			

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ASAHIGAWA	3.94	351.1	1 4	1	1 53	3				1 23
MITO	4.12	212.5	1 5	0	1 46	-9				
ABASHIRI	4.20	10.6	1 6	0	1 58	1				
UTUNOMIYA	4.25	219.3	1 6	-1	2 4	6				
AIKAWA	4.30	245.8	1 8A	0	2 11	12				
KAKIOKA	4.37	214.2	1 9	0	2 9	8				
TUKUBASAN	4.41	214.8	1 7A	-2	1 59	-3				
TYOSI	4.57	204.9	1 10A	-2	2 12	6				
MAEBASI	4.78	224.4	1 15A	0	2 13	1				1 48
TAKADA	4.79	236.0	1 16A	1	2 21	9				
KUMAGAYA	4.81	220.2	1 17K	2	2 20	8				
HONGO	4.99	214.2	1 16	-2	2 29	12				
TOKYO C.M.O.	5.02	214.2	1 16	-2	2 16	-2				1 42
NAGANO	5.09	232.4	1 21A	2	2 29	10				
TITIBU	5.09	221.2	1 19	0	2 23	4				
OIWAKE	5.12	227.4	1 20	1	2 37	17				
MATUSIRO	5.17	231.2	1 20A	0	2 29	8				
YOKOHAMA	5.28	213.5	1 23	1	2 22	-2				
MATUMOTO	5.51	230.3	1 25	0	2 40	10				
WAZIMA	5.54	245.1	1 26A	1	2 37	6				
KOHU	5.60	222.6	1 25	-1	2 36	4				
HUNATU	5.62	220.2	1 25	-2	2 36	3				
WAKKANAI	5.64	348.9	1 31	4	2 37	4				
NERA	5.65	209.5	1 27	0	2 45	12				1 54
TOYAMA	5.70	237.9	1 29	1	2 58	23				
AJIRO	5.84	215.4	1 29	-1	2 45	7				
MISIMA	5.85	216.8	1 30	0	2 52	14				
OSIMA	5.96	212.0	1 33	2	3 0	19				
TAKAYAMA	6.01	233.4	1 34	2	2 52	9				
IIDA	6.10	226.0	1 33	0	3 5	20				
KANAZAWA	6.16	239.1	1 38	4	2 31	-15				
SHIZUOKA	6.23	219.4	1 34	-1	2 47	-1				1 57
NAGATURO	6.33	214.7	1 41	5	2 49	-1				4 9
KURILSK	6.34	31.3	1 33	-4						
OMAE SAKI	6.62	218.6	1 44	3	3 2	4				4 6
HUKUI	6.72	237.4	1 42	0	2 56	-4				
HAMAMATU	6.77	222.0	1 48	5	3 7	6				2 16
GIHU	6.80	230.8	1 43	0	3 4	2				
NAGOYA	6.84	228.4	1 42	-2	3 5	2				2 17
TSURUGA	7.07	235.4	1 49	2	3 21	12				4 7
Y.-SAKHLINSK	7.13	357.3	1 47	-1	3 7	-4				
HIKONE	7.20	232.3	1 49	0	3 29	17				
HATIDYOZIMA	7.32	203.2	1 52	2	3 3	-12				9 36
KAMEYAMA	7.36	229.0	1 50	-1	3 31	15				2 37
TU	7.44	227.9	1 55	3	3 44	26				
MAIZURU	7.61	237.0	1 55	0	3 32	9				
KYOTO	7.68	233.1	1 54	-2	3 33	9				
NARA	7.85	230.8	1 56	-2	3 38	9				
ABUYAMA	7.88	232.9	1 58A	0						
TOYOOKA	7.95	239.4	2 0A	1	3 41	10				3 32
OSAKA	8.05	231.9	1 59	-2	3 39	5				2 30
OWASE	8.08	226.2	2 2	1	3 52	18	2 20			
KOBE	8.25	233.4	2 7	4	3 35	-3				
TOTTORI	8.39	241.4	2 8	3	3 54	12				
WAKAYAMA	8.56	231.2	2 10	2	4 4	18				
SAIGO	8.62	247.8	2 10	1	4 16	28				3 35
SUMOTO	8.64	232.7	2 7A	-2	3 47	-1				2 56
SIOMISAKI	8.78	225.2	2 9	-2	4 13	21				
HIMEJI	8.85	235.3	2 10	-2	4 8	14				
YONAGO	9.00	243.4	2 14	0	3 57	0				
TOKUSIMA	9.02	232.6	2 16	2	4 5	7				
OKAYAMA	9.05	237.8	2 18A	3	4 7	9				
VLADIVOSTOK	9.08	294.5	2 16	1	3 59	0				
MATSUE	9.18	244.3	2 19	3	4 44	42				
TAKAMATU	9.19	235.6	2 14	-3	4 21	19				2 40
UGLEGORSK	9.22	355.3	2 16	-1						
TORISIMA	9.69	195.1	2 22	-1	4 8	-6				
MUROTO	9.83	230.4	2 21	-4	4 41	23				
KOTI	10.02	233.8	2 26	-2	4 40	18				2 58 PP
HAMADA	10.17	244.1	2 31	1	4 28	2				3 45
HIROSIMA	10.22	240.7	2 29	-2	4 24	-3				
MATUYAMA	10.31	237.4	2 30	-2	4 30	1				5 28
UWAZIMA	10.85	235.5	2 37	-2	4 58	15				3 10
SIMIDU	10.89	232.5	2 37	-3	4 41	-3				
OOITA	11.45	238.1	2 45A	-2	5 19	22				
SIMONOSEKI	11.48	242.7	2 48	0	5 1	3				
ASOSAN	12.01	238.3	2 59	4	5 19	8				5 53
HUKUOKA	12.06	242.5	2 44A	-12	5 28	16				

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KUMAMOTO	12.30	238.9	2 55	-4	5 57	39				
SAGA	12.31	241.4	3 1	2	6 23	65				6 53
MIYAZAKI	12.43	233.9	2 58A	-3	5 26	5				5 45
ITUHARA	12.49	247.3	3 3	1	5 24	1				
UNZENDAKE	12.66	239.7	3 1	-3	5 27	0				
NAGASAKI	12.90	240.5	3 6A	-1	4 42	-51				
KAGOSIMA	13.21	235.0	3 13	2						6 50
OKHA	13.66	359.3	3 13	-4						
TOMIE	13.72	242.6	3 20A	2	6 34	42				
CHANGCHUN	13.91	292.2	3 20A	0	5 58	1				
YAKUSIMA	14.02	231.7	3 17	-5	5 55	-4				4 33
PETROPVLOVK	16.85	33.7	4 0	2						4 16 PPP
ZO-SE	19.93	250.7	4 31A	-5						
KLYUCHI	20.13	29.4	4 36	-2	8 28	9				4 48
MAGADAN	20.25	11.2	4 37	-2	8 23	1				
PEKING	20.71	279.1	4 38A	-6						
NANKING	21.22	256.0	4 46A	-3	8 38	-3				
TAIPEI	23.47	237.4	5 12A	0	9 28	6				
ILAN	23.50	236.5	5 10	-2	9 18	-5				
YAKUTSK	23.63	344.1	5 11	-2						
HSINCHU	23.98	237.8	5 35	18						
HWALIEN	24.15	235.4	5 23	5	9 55	21				
TAICHUNG	24.63	237.2	5 27	4	9 41	-1				
YUSHAN	24.93	235.6	5 28	2	10 6	19				
HSINKONG	24.94	234.3	5 29	3	10 4	16				
ALISHAN	25.00	235.9	5 29	3	9 58	9				
WUHAN	25.12	257.1	5 27A	-1						
PAOTOW	25.26	282.4	5 27A	-2						
TAITUNG	25.33	234.1	5 27	-3	9 41	-13				
TAINAN	25.74	236.0	5 40	7	10 17	16				
TAWU	25.78	233.9	5 30	-4	10 9	7				
KAOHSIUNG	25.98	235.3	5 32	-4						
HENGCHUN	26.14	233.6	5 42	5	10 37	29				
GUAM	26.36	176.7	5 40	1	10 18	7				12 20 PCS
ULAN-BATOR	27.17	299.2	5 56	9						
SIAN	27.82	269.2	5 51A	-2						
IRKUTSK	29.32	308.0	6 5	-1	11 0	1				
HONG KONG	30.24	243.2	6 13A	-1	11 10	4				
CANTON	30.30	245.4	6 14A	-1	11 11	4				
BAGUIO CITY	30.57	226.6	6 16	-1	11 18	-1				
LANCHOW	31.11	275.6	6 20A	-2						
MANILA	31.73	223.9	6 31	4						13 55
TIKSI	32.63	351.6	6 33	-2						
CHENG TU	33.08	266.2	6 38A	-1	11 53	5				
KUNMING	36.85	258.9	7 11A	0	12 54	-2				
TOCKLAI	42.07	267.1	8 2	7	14 24	8				
LHASA	43.53	273.1	8 8A	1	14 40	4				
SEMI PALATNSK	44.38	305.4	8 13	-1	14 49	0				
RABAUL	44.64	167.2	8 12	-4	14 55	3				
SHILLONG	44.91	267.6	8 17A	-1	14 52	4				
COLLEGE	45.93	33.7	8 25K	-1	15 20	9				11 30 PPP
CHITTAGONG	46.69	263.8	8 32A	0	15 22	0				10 21 PP
CHATRA	47.87	272.1	8 43	2	15 38	0				
PORT MORESBY	49.18	174.9	8 49	-2	15 52	-5				
CALCUTTA	49.24	266.4	8 49A	-3	16 1	3				10 38 PP
KHEYS	50.15	347.7	8 57	-2						16 13 PS
FRUNSE	50.26	297.0	8 59	-1						16 25 PS
BOKARO	50.50	269.6	8 59A	-2	16 12	-3				10 53 PP
PORT BLAIR	52.57	252.1	9 18	1	16 53	9				11 24 PP
KIPAPA	52.87	92.1	9 20A	1						
HONOLULU	52.87	92.3	9 18A	-1	17 2	14				11 20 PP
DEHRA DUN	53.11	281.1	9 24	3	16 55	4				11 32 PP
SVERDLOVSK	53.97	317.6	9 27	0						11 36 PP
TASHKENT	54.51	297.3	9 30	-1	17 7	-3				
AGRA	54.73	277.8	9 31A	-2	17 10	-3				11 33 PP
LAHORE	55.30	284.4	9 39	2	17 36	15				11 39 PP
VIZIANAGRAM	55.53	265.3								10 37
STALINABAD	56.06	294.5	9 41	-2						17 41 PS
HAWAII V. OB.	56.12	92.3	9 41	-2	17 32	1				
WARSAK DAM	56.18	288.3	9 43A	-1	17 37	5				
DJAKARTA	56.80	224.8	9 54	6	17 32	-8				
LEMBANG	56.92	223.6	9 44A	-5	17 28	-14				
SEHORE	57.56	274.3	9 55	2	17 53	3				
NORD	58.29	356.6	9 55K	-4	17 57	-3				19 47 SCS
ISFJORD	58.48	349.1	9 54	-6						
RESOLUTE	59.49	15.2	10 4A	-3	18 12	-4				
CHARTERS TS.	59.74	176.7	10 8	-1	18 13	-6				
HYDERABAD	59.78	267.9	10 5A	-4	18 17	-2				12 18 PP
APATITY	60.67	335.5	10 12	-3	18 20	-11				12 38 PP

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MADRAS	61.13	262.8	10 16A	-2	18 33	-4				12 35 PP
QUETTA	61.46	286.8	10 18A	-2	18 53	12	10 34			12 42 PP
PORT VILA	61.92	152.7	10 33	10						
THULE	62.24	8.0	10 23A	-3	19 0	9				39 33 PKPPKP
ALBERNI	62.26	47.7	10 25	-1						
POONA	62.67	271.9	10 27A	-1	18 48	-8				12 31 PP
SODANKYLA	62.88	337.1	10 27	-3	18 49	-10				19 27 PS
HORSESHOE B.	63.08	47.0	10 33	2						
BOMBAY	63.25	272.9	10 31	-1	19 3	-1				12 48 PP
KOLMAC	63.27	157.8	10 32	0	19 4	0				
VICTORIA	63.44	47.9	10 32	-1	18 55	-11				20 22
ASHKABAD	63.54	298.4	10 32	-2						
KARACHI	64.29	281.7	10 37A	-2	19 27	11				
KIRUNA	64.35	339.3	10 37	-2						19 58
OULU	64.76	335.4	10 44	2						
KODAIKANAL	64.92	262.2	10 39A	-4	19 15	-9				13 9 PP
COLOMBO	65.23	257.7	10 44	-1	19 23	-5				
NOUMEA	65.56	156.3	10 45	-2	19 33	1				
CORVALLIS	65.58	51.6	10 49A	2						
MOSCOW	65.80	323.3	10 48	-1	19 32	-3				11 10 PCP
BANFF	66.31	42.4	9 55	-57						
SUVA	66.43	143.3			19 42	-1				20 32
PULKOVO	66.45	329.4	10 51	-2						13 19 PP
ARCATA	67.11	55.3	10 58	1						
BRISBANE	67.53	170.8	10 58	-2	19 53	-3				
NURMIJARVI	68.09	332.1	11 1	-2	20 2	-1				24 28 SS
HELSINKI	68.21	331.7	11 3	-1	20 3	-1				
SHASTA	68.28	54.7	11 6	2						
UKIAH	68.64	56.5	11 9K	2	20 18	9				39 19 PKPPKP
HUNGRY HORSE	68.74	44.3	11 7A	0	20 10	0				39 17 PKPPKP
MINERAL	68.97	54.6	11 16	7						
SCORESBY SD.	69.41	354.7	11 12	1	20 20	2				11 44 PCP
SKALSTUGAN	69.77	338.9	11 12	-2						
BERKELEY	69.97	57.1	11 16A	1	20 27	2				25 14 SS
TIFLIS	70.17	308.1	11 15	-1						13 48 PP
GORIS	70.53	305.4								14 0 PP
RENO	70.56	54.5	1 20A	1						
LICK	70.68	57.3	11 20A	1	20 41	8				11 38 PP
BUTTE	70.94	45.6	1 20K	-1	20 34	-2				
UPPSALA	71.01	334.3	11 19	-2						39 34 PKPPKP
VINEYARD	71.20	57.6	11 24	2						
BOZEMAN	71.99	45.2	11 28K	1			11 39			
SHIRAZ	72.16	293.9	11 26K	-2	20 48	-2				
FRESNO	72.21	56.8	11 30	2						
EUREKA	72.98	52.7	11 32K	-1						
RIVERVIEW	73.72	173.1	11 36	-1	21 7	-1	11 49			21 26 *SS
AKUREYRI	73.77	352.1	11 45	7	21 55	46				14 15 PP
SIMFEROPOL	74.27	315.8	11 40A	0	21 8	-6				14 28 PP
BERGEN	74.27	339.8	11 43	3	21 12	-2	12 4			14 20 PP
GOTEBOG	74.54	335.2	11 41	-1						
ADELAIDE	74.61	183.8	11 42	0	21 24	6				14 36 PP
SALT LAKE C.	74.64	49.6	11 43A	0	21 21	3				11 52 PCP
PASADENA	74.85	58.2	11 44	0	21 19	-2				14 38 PP
CANBERRA	75.03	175.1	11 44	-1	21 19	-4				11 52 PCP
WARSAW	75.43	327.5	11 51	4	21 36	9				14 32 PP
SIDA	75.60	351.5	11 51	3						
REYKJAVIK	75.65	353.3	11 52	4						13 36
MUNDARING	75.76	203.5	11 48	-1			12 4			
BOULDER CITY	75.86	54.9	11 50A	0	21 37	5	12 12			39 10 PKPPKP
PERTH	75.86	203.8	11 49	-1	21 41	9				26 12
LWOW	75.90	324.3								11 56 PCP
COPENHAGEN	76.00	333.8	11 50A	0	21 33	0				21 57 SKS
IASI	76.10	320.7	11 51	0	21 40	6				15 2 PP
BACAU	76.87	320.6	11 54	-1	21 46	3				15 18 PP
FOCSANI	77.34	319.8	11 57	-1	21 47	-1				15 19 PP
MELBOURNE	77.36	178.6	11 58	0	21 44	-4	12 12			26 48 SS
KRAKOW	77.52	326.5	11 58	-1	21 54	4				14 57 PP
CHORZOW	77.73	327.1	12 1	1	21 49	-3				14 52 PP
LARAMIE	77.85	45.9	12 1	0						
SKALNATE PL.	78.03	325.8	12 1K	-1	21 56	1				
RACIBORZ	78.22	327.4	12 2	-1						12 22 PCP
POTSDAM	78.43	331.4	12 2	-2	22 0	0				15 9 PP
CAMPULUNG	78.71	320.6	12 8	3	22 10	7				15 16 PP
BUCHAREST	78.80	319.4	12 4A	-2	22 8	4				15 14 PP
ABERDEEN	78.98	341.6	12 13K	6	21 58	-8				15 10 PP
COLLMBERG	79.32	330.8	12 7A	-2	22 14	5				15 16 PP
HALLE	79.55	331.5	12 8	-2	22 8	-3				15 18 PP
PRAGUE	79.75	329.3	12 16A	5	22 16	2				15 9 PP



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PRUHONICE	79.77	329.2	12 10A	-1	22 15	1				15 2	PP
BUDAPEST	79.96	325.3	12 12	0	22 17	2					
HURBANOVO	79.92	325.9	12 19	7	22 22	7				15 17	PP
BUDAPEST	79.86	325.3	12 12	0	22 17	2					
HURBANOVO	79.92	325.9	12 19	7	22 22	7				15 17	PP
JENA	80.15	331.3	12 12	-1	22 20	2				15 17	
BRATISLAVA	80.15	326.7	12 14	1							
TIMISOARA	80.17	322.9	12 18	5	22 25	7					
WITTEVEEN	80.28	334.9	12 15A	1							
PLAUEN	80.29	330.7	12 10	-4	22 8	-11				12 25	PCP
EDINBURGH	80.37	341.6								22 51	PS
VIENNA-H.	80.40	327.1	12 15	1	22 26	6				15 12	PP
CHEB	80.53	330.4	12 22	7	22 22	0				27 38	SS
KSARA	80.62	306.3	12 14A	-2	22 29	6				15 26	PP
MUNSTER	80.69	334.0	12 15	-1						12 39	
SONNEBERG	80.73	331.2	12 15	-1	22 15	-9	12 36				
TUCSON	80.79	55.6	12 18K	1	22 26	2				15 38	PP
DURHAM	81.00	340.2	12 22A	4	22 31	4				15 26	PP
BELGRADE	81.23	322.7	12 20A	1	22 36	7				15 33	PP
DE BILT	81.38	335.3	12 20A	0	22 32	2	12 25			15 34	PP
SOFIA	81.43	319.7	12 23	3	22 38	7				15 42	PP
BENSBERG	81.69	333.7	12 20A	-1	23 3	29					
JERUSALEM	82.39	305.2	12 25A	0	23 10	29					
HEIDELBERG	82.45	332.0	12 24	-1	23 11	30					
ZAGREB	82.47	325.8	12 24	-1	22 40	-2				15 26	PP
FORT NELSON	82.53	176.9	12 38	12	23 45	63					
STUTTGART	82.77	331.3	12 26A	-1	22 37	-8				15 41	PP
LJUBLJANA	82.91	326.8	12 28K	0	23 16	30				15 49	PP
KARAPIRO	82.93	154.8	12 28	0			12 47				
TUBINGEN	83.05	331.3	12 27	-1	23 19	31					
TOLMEZZO	83.25	327.8	12 28	-1	22 44	-6				15 35	PP
DOURBES	83.28	334.6	12 30	0	22 49	-1					
EBINGEN	83.38	331.1	12 29	-1							
RAVENSBURG	83.46	330.5	12 30	0	23 20	28					
RATHFARNHAM	83.51	342.1	12 31K	0	22 53	1				16 5	PP
TRIESTE	83.55	327.0	12 30A	-1	22 54	1	12 54			15 56	PP
KEW	83.60	338.0	12 31	0	22 54	1				15 49	PP
CHATEAU	84.08	155.3	12 37	3							
CHUR	84.27	330.1	12 33	-2	22 58	-2					
BASLE	84.43	331.6	12 35A	0	22 42	-19					
ATHENS	84.72	316.3	12 39K	2	23 0	-4				24 23	PPS
COBB RIVER	84.95	158.0	12 50	12	23 3	-4					
LAWRENCE	85.04	41.8	12 38	0							
PARIS	85.09	335.2	12 37	-2	24 4	56					
NEUCHATEL	85.11	331.6	12 37	-2	23 3	-5				16 2	*PPP
LUBBOCK	85.36	49.4	12 41	1							
BOLOGNA	85.49	327.7	12 49	8	23 43	31				23 9	SKS
WELLINGTON	85.74	156.7	12 42	0	23 5	-9				22 52	SKS
PAVIA	85.80	329.4	12 43	1	23 13	-2				32 38	SSS
OROPA	85.89	330.3	12 41	-2	23 10	-6				32 33	SSS
KAIMATA	85.92	159.5	13 0	17	23 14	-2					
FOLINIERE	86.05	336.9	12 42	-1							
TARANTO	86.08	321.8	12 46	2	23 11	-6					
PRATO	86.09	327.5	12 46	2	23 10	-8					
HELWAN	86.13	306.1	12 43A	-1	23 8	-10					
JERSEY	86.16	338.0	12 46	2	23 16	-2					
CHIHUAHUA	86.25	55.5	12 41	-3	23 1	-18				35 41	
CHIAVARI	86.45	328.8	13 0	15	23 9	-12	13 25			16 37	PP
ROME	87.12	325.5	12 48A	-1	23 16	-11				16 15	PP
ISOLA	87.42	324.0	12 50	0						16 16	PP
CLERMONT-FD.	87.53	333.3	12 52A	1	23 28	-3					
FLORISSANT	87.61	39.0	12 51	0	23 23	-9					
FAYETTEVILLE	87.77	43.1	11 38K	-74							
ST. LOUIS I	87.80	39.0	12 52K	0	23 25	-9					
SHAWINIGAN	88.13	23.9	12 52	-2							
OTTAWA	88.18	26.3	12 53	-1							
SEVEN FALLS	88.21	22.5	12 54	0							
TERRE HAUTE	88.58	36.8								22 57	
MESSINA	88.68	321.4	12 50K	-6	23 15	-27	13 14			16 12	PP
REGGIO CALA.	88.71	321.3	12 59	3	23 39	-3				16 26	PP
CLEVELAND	89.37	31.9	13 1	2	23 34	-14					
CUGLIERI	90.21	327.0	14 2	59	24 27	31					
PITTSBURGH	90.89	31.5	13 2A	-4	23 35	-27					
PENNSYLVANIA	91.40	29.9	13 12	3	23 44	-23				24 13	*SS
MORGANTOWN	91.58	31.9	13 13A	3							
BARCELONA	91.67	331.8	13 16	6	24 16	7				16 54	PP
WESTON	92.33	24.9	13 14K	1	24 12	-3				23 56	SKS
PALISADES	92.68	27.2	13 16A	1	24 42	24	13 31			17 6	PP

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TORTOSA	92.79	332.6	13 21	6	24 20	1		
FORDHAM	92.83	27.3	13 14	-1	24 17	-2		
WASHINGTON	93.35	30.4	13 5A	-13				
GADALAJARA	93.59	59.4	13 44	25			18 52	PPP
SIF	94.90	327.0	13 23	-2	24 29	-8	17 14	PP
CHAMPL HILL	95.11	33.2	13 27	1			17 35	
TOLEDO	95.17	335.3	13 27	1	24 1	9	13 42	17 31 PP
ALICANTE	95.32	332.1	13 17	-10	24 28	25		19 14 PPP
ALGIERS UNI.	95.37	328.9	13 25	-2	24 8	5		17 7 PP
SERRA PILAR	95.38	339.0	13 24A	-3	24 34	31	13 35	16 35 PP
COLUMBIA	95.87	35.6	13 32	3	24 10	5		16 24
COIMBRA	96.19	338.5	13 16	-15	24 0	-7		17 29 PP
TACUBAYA	97.20	57.5	13 32	-3	23 59	-14		17 36 PP
RELIZANE	97.24	330.2	13 36	0	24 29	16		17 26 PP
ALMERIA	97.37	332.9	13 25A	-11	24 41	28		17 37 PP
GRANADA	97.46	333.8	13 44K	7	23 43	-31		17 44 PP
LISBON	97.77	338.5	13 46K	8	24 24	9	13 53	26 34 PS
VERA CRUZ	99.32	55.5	13 49	4	24 17	-6		31 47 SS
OAXACA	100.51	57.4	14 6	16				
BERMUDA	103.59	24.0	14 7	3	25 44	-7		18 12 PP
COMITAN	104.04	54.5			26 4	8		33 12 SS
TANANARIVE	106.13	258.7			24 59	4		18 47 PP
TAMNARASSET	106.21	319.7	14 18	777	24 55	-1		18 38 PP
TERRE ADELIE	106.39	180.7			26 17	3		18 42 PP
WILKES	108.85	193.3	14 37K	777	25 11	4		19 5 PP
LWIRO	110.04	284.4	14 22	777				19 12 PP
CAPE HALLETT	113.49	171.3	15 3	777	25 30	4		19 32 PP
SAN JUAN	115.89	31.1	19 7A	23				20 0 PP
BROKEN HILL	118.06	274.4	18 52	3				15 20 P
FORT FRANCE	121.11	27.8	19 47	52				
BULAWAYO	121.31	269.1	19 2	7				15 22 P
LCO, MARQUES	121.47	261.1			26 8	13		20 35 PP
LOME	122.36	313.5			25 56	-1		20 40 PP
CARACAS	122.59	35.9	19 10	13	26 12	14		
CHINCHINA	122.83	48.0	19 9	11				
MBOUR	122.94	337.0			26 15	16		15 38 P
FUQUENE	123.48	45.8	19 9	10				
BOGOTA	123.99	46.7	19 13	13				
PRETORIA	124.72	263.8	19 0	-2				
PIETERMZBURG	125.02	258.5	19 3	1				
LUANDA	125.89	290.8						21 13 PP
KIMBERLEY	128.85	262.5	19 11A	1				
GRAHAMSTOWN	129.65	256.4	19 18A	7				
BYRD STATION	130.24	166.9	19 12	0				21 34 PP
WINDHOEK	131.52	274.2	19 15	0				
HERMANUS	135.64	258.6						22 2 PP
HUANCAYO	136.15	61.6	19 21	-2				22 7 PP
LA PAZ	144.16	58.5	19 39	2	26 45	0		22 56 PP
SANTA LUCIA	152.20	87.3	20 0K	10			20 12	23 46 PP

MARCH 21 0.H 34.M 51.S EPICENTRE 39.82 143.22 DEPTH= 0.KM

A=-0.61688 B= 0.46113 C= 0.63782 D= 0.5987 E= 0.8010  
G=-0.5109 H= 0.3819 K=-0.7702 HT= -1.6

SE= 2.77

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S		
MIYAKO	0.98	260.4	0 21K	0	0 36	1						
HATINOHE	1.48	299.2	0 29A	1	0 49	1						
MORI OKA	1.59	266.3	0 31	2	0 55	4						
MIZUSAWA	1.76	247.6	0 33	1	0 52	-3						
ISINOMAKI	2.03	227.4	0 35A	0	1 0	-2						
AOMORI	2.12	298.9	0 39A	2	1 9	5						
URAKAWA	2.35	352.0	0 43	3	1 14	4						
SENDAI	2.38	230.2	0 39A	-2	1 11	0						
AKITA	2.41	268.6	0 43A	2	1 19	7						
HIROO	2.46	1.7	0 45	3	1 12	-1				1 8		
HAKODATE	2.73	317.6	0 48A	2	1 27	7						
YAMAGATA	2.73	235.9	0 46	0	1 20	0						
SAKATA	2.78	251.8	0 49	3	1 31	10						
HUKUSIMA	2.98	227.0	0 48A	-1	1 28	2						
MURORAN	3.02	326.6	0 51	1	1 32	5						
MORI	3.04	319.5	0 52A	2	1 43	15						
TOMAKOMAI	3.07	336.7	1 2	12	1 34	6						
OBIHIRO	3.10	359.7	0 53	2	1 31	2						

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KUSIRO	3.28	15.3	0 55	2	1 33	-1				
ONAHAMA	3.40	213.2	0 56A	1	1 38	1				
SAPPORO	3.54	337.2	0 57A	0	1 47	7				
SHIRAKAWA	3.58	222.1	0 57	-1	1 36	-5				
SUTTSU	3.73	323.9	1 2	2	1 55	10			1 27	
NIIGATA	3.77	241.1	0 57	-3	1 46	0				
NEMURO	3.93	26.0	1 3K	0	1 45	-5				
ASAHIGAWA	4.01	351.1	1 7	3	2 12	20				
MITO	4.06	213.2	1 3	-1	1 49	-4				
UTUNOMIYA	4.20	220.0	1 4	-2	2 6	9			1 37	
ABASHIRI	4.27	10.3	1 8	1	1 58	-1				
AIKAWA	4.27	246.7	1 8	1	2 8	9				
KAKIOKA	4.31	214.8	1 5	-3	1 58	-2				
TUKUBASAN	4.36	215.4	1 5K	-4						
TYOSI	4.50	205.4	1 8	-3	2 4	-1				
MAEBASI	4.73	225.1	1 13	-1	2 15	5				
TAKADA	4.75	236.7	1 15A	1	2 18	7				
KUMAGAYA	4.76	220.8	1 11	-3	2 29	18				
HONGO	4.93	214.8	1 17	0						
TOKYO C.M.O.	4.96	214.7	1 16	-1	2 17	1			1 39	
TITIBU	5.04	221.8	1 16	-2	2 27	9				
NAGANO	5.05	233.1	1 29	10	2 50	32				
OIWAKE	5.07	228.1	1 17	-2	2 28	9				
MATUSIRO	5.13	231.9	1 19A	-1	2 14	-6				
MATUMOTO	5.47	231.0	1 23	-1	2 36	7				
WAZIMA	5.52	245.8	1 26	1	2 34	4				
KOHU	5.55	223.2	1 24	-2	2 37	6				
HUNATU	5.57	220.7	1 24	-2	2 38	6				
MERA	5.59	210.0	1 28	2						
TOYAMA	5.67	238.6	1 28	1	2 49	15				
WAKKANAI	5.71	349.0	2 4	36						
AJIRO	5.78	215.8	1 27	-2	2 28	-9				
MISIMA	5.79	217.2	1 29	0	2 45	8				
OSIMA	5.90	212.5	1 36	6						
TAKAYAMA	5.97	234.0	1 34	3						
IIDA	6.06	226.6	1 34	1	2 50	6				
SHIZUOKA	6.18	219.9	1 33	-1	2 49	2				
KURILSK	6.40	30.9	1 37	-1						
OMAESAKI	6.56	219.0	1 44	4	3 1	5				
GIHU	6.76	231.3	1 41A	-2	3 3	2				
NAGOYA	6.80	228.9	1 48	5	3 11	9				
TSURUGA	7.03	235.9	1 47	1	3 18	10				
HIKONE	7.16	232.8	1 49	1	3 22	11				
Y.-SAKHLINSK	7.21	357.3	1 49	0	3 14	2				
KAMEYAMA	7.31	229.4	1 54	4	3 19	4				
MAIZURU	7.58	237.5	1 55	1	3 23	1				
KYOTO	7.65	233.5	1 55	0	3 29	6				
NARA	7.81	231.3	1 59	2	3 39	11				
ABUYAMA	7.84	233.4	1 55K	-3						
TOYOOKA	7.92	239.9	1 58A	-1	3 41	11				
OSAKA	8.01	232.3	2 6	6	3 48	15				
OWASE	8.03	226.6	1 59	-1	3 59	26				
KOBE	8.21	233.8	2 0	-3	3 32	-6				
TOTTORI	8.36	241.9	2 7	2	3 57	16				
WAKAYAMA	8.52	231.6	2 26	19						
SUMOTO	8.60	233.1	2 6A	-2	3 55	8			3 34	
SAIGO	8.60	248.3	2 9	1	4 9	22				
SIOMISAKI	8.73	225.6	1 50	-20					4 30	
YONAGO	8.97	243.9	2 13	-1	4 12	15			5 41	
TOKUSIMA	8.98	233.0	2 22	8	4 6	9				
OKAYAMA	9.01	238.2	2 17	3	4 4	6				
VLADIVOSTOK	9.12	294.9	2 17	2	4 4	4				
TAKAMATU	9.15	236.0	2 22	6	4 49	48				
MATSUE	9.16	244.7	2 22	6	4 47	46				
UGLE GORSK	9.30	355.3	2 18	0	4 1	-3				
TORISIMA	9.62	195.3	2 28	6						
MUROTO	9.79	230.8	2 5	-20	4 48	31				
KOTI	9.98	234.2	2 53	26	4 26	5				
HAMADA	10.14	244.5	2 32K	2	4 44	19				
HIROSIMA	10.19	241.1	2 31	1	4 30	3				
MATUYAMA	10.27	237.7	2 37	6	4 39	10			5 45	
SIMIDU	10.85	232.8	2 37	-2					5 19	
OOITA	11.41	238.4			5 43	47			5 10	
SIMONOSEKI	11.45	243.1	3 28	40					5 14	
ASOSAN	11.98	238.6	3 0	5					5 34	
HUKUOKA	12.04	242.8	3 9	14	5 22	10				
KUMAMOTO	12.27	239.2	3 25	26					6 25	
MIYAZAKI	12.39	234.1	3 47	47	6 14	54				

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NAGASAKI	12.87	240.8	3	16	9	5	56	24	
OKHA	13.74	359.3	3	18	0	5	50	-3	
CHANGCHUN	13.94	292.5	3	20A	-1				
PETROPAVLOVK	16.90	33.6	4	3	4	7	8	1	
ZO-SE	19.91	250.9	4	33	-3	8	10	-5	4 50 PP
MAGADAN	20.32	11.2	4	39	-1	8	22	-1	
NANKING	21.21	256.2	4	45	-4	8	34	-7	5 4 PP
YAKUTSK	23.70	344.1	5	12	-2	9	24	-2	
PAOTOW	25.28	282.5	5	27A	-2				
TAWU	25.75	234.0	5	31	-3				
HENGCHUN	26.10	233.7	5	38	1				
SIAN	27.83	269.4	5	50	-3				
IRKUTSK	29.37	308.1	6	5A	-1	10	59	-1	
HONG KONG	30.21	243.3	6	12A	-2	11	5	-8	
BAGUIO CITY	30.53	226.7	6	13	-4	11	7	-11	
LANCHOW	31.12	275.8	6	19A	-3				
MANILA	31.69	224.0	6	45	18				11 35
TIKSI	32.70	351.6	6	34	-2				7 51 PPP
CHENG TU	33.09	266.3	6	27A	-12	11	42	-16	7 31 PP
KUNMING	36.84	259.0	7	10A	-1	12	54	-2	8 37 PP
LHASA	43.53	273.2	8	6A	-1	14	35	-1	
SEMI PALATNSK	44.43	305.5	8	13	-1	14	44	-5	10 3 PP
RABAUL	44.57	167.2	8	11	-4				
SHILLONG	44.91	267.6	8	16A	-2	14	53	-3	10 10 PP
COLLEGE	45.99	33.7	8	27	1	15	11	-1	18 16 SCS
CHITTAGONG	46.68	263.9	8	30	-2	15	18	-4	11 3 PPP
CHATRA	47.88	272.1	8	40A	-1	15	38	-1	
PORT MORESBY	49.10	174.9	8	52	1	15	50	-6	
CALCUTTA	49.24	266.5	8	42	-10	15	50	-8	18 39 SCS
KHEYS	50.22	347.7	8	59	0	16	9	-2	
FRUNSE	50.30	297.1	9	0	0				16 21 PS
BOKARO	50.50	269.6	8	59	-3	16	12	-3	
PORT BLAIR	52.55	252.2	9	16	-1	16	41	-2	
HONOLULU	52.87	92.2							10 55 PP
DEHRA DUN	53.13	281.2	9	25	4	16	52	1	
SVERDLOVSK	54.03	317.7	9	28	0	17	2	-1	
TASHKENT	54.55	297.3	9	31	-1	17	11	1	11 32 PP
AGRA	54.75	277.8	9	30	-3	17	10	-3	
LAHORE	55.33	284.4	9	52	15				11 38 PP
STALINABAD	56.09	294.5	9	47	4				
WARSAK DAM	56.20	288.4	9	43A	-1	17	33	0	
NORD	58.36	356.6	9	56	-3				
ISFJORD	58.56	349.2	9	52	-8				
RESOLUTE	59.55	15.2	10	5A	-2	18	17	0	
CHARTERS TS.	59.66	176.7	10	9	1				18 4
HYDERABAD	59.78	268.0	10	9A	0	18	19	-1	12 23 PP
APATI TY	60.74	335.5	10	12	-3	18	27	-5	
MADRAS	61.13	262.8	10	16	-2	18	37	0	12 31 PP
QUETTA	61.49	286.8	10	19A	-2	18	42	1	12 36 PP
THULE	62.31	8.0	10	24	-2				11 16
POONA	62.68	271.9	10	27A	-2	18	54	-2	
SODANKYLA	62.95	337.1	10	29	-1				
BOMBAY	63.26	272.9	10	30	-2	19	2	-2	12 51 PP
ASHKABAD	63.58	298.4	10	32	-2				19 38 PS
KIRUNA	64.42	339.3	10	38	-2				13 5
COLOMBO	65.22	257.8				19	29	1	
NOLMEA	65.49	156.3	10	48	1				11 34
CORVALLIS	65.62	51.5	10	50	2				
MOSCOW	65.87	323.3	10	49	0	19	33	-3	13 11 PP
PULKOVO	66.52	329.5	10	52	-1	19	41	-3	13 21 PP
ARCATA	67.15	55.3	11	2	5				
BRISBANE	67.45	170.8	10	55	-4	19	50	-5	
NURMI JARVI	68.16	332.1	11	2	-2	20	1	-2	20 21 PS
HELSINKI	68.28	331.7	11	3	-2				
SHASTA	68.32	54.7	11	5	0				
UKIAH	68.67	56.4	11	11	4				
HUNGRY HORSE	68.79	44.3	11	7	-1				
SCORESBY SD.	69.49	354.7	11	12A	0	20	20	1	
SKALSTUGAN	69.84	338.9	11	12	-2				
BERKELEY	70.01	57.1	11	16	1	20	28	3	
TIFLIS	70.22	308.1	11	16	0				13 49 PP
RENO	70.60	54.5	11	21	2				
LICK	70.72	57.2	11	21K	2				
BUTTE	70.99	45.6	11	22	1				
UPPSALA	71.08	334.3	11	20	-2				13 58
FRESNO	72.24	56.8	11	31	2				
EUREKA	73.02	52.6	11	33	0				
RIVERVIEW	73.65	173.1	11	37	0	21	4	-3	21 44
SIMFEROPOL	74.33	315.8	11	40	-1	21	13	-2	14 33 PP

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GOTEBORG	74.61	335.2	11 36	-6			13 35
SALT LAKE C.	74.68	49.5	11 44	1			
PASADENA	74.88	58.1	11 48	4	21 21	0	26 9 SS
CANBERRA	74.96	175.1	11 44	0			
WARSAW	75.50	327.5	11 54	6			
MUNDARING	75.69	203.5	11 45	-4			
BOULDER CITY	75.89	54.9	11 49	-1			
LWOW	75.96	324.3	11 50	0	21 33	0	16 34 PPP
COPENHAGEN	76.07	333.8	11 50A	-1			
IASI	76.16	320.7	1 51	0			
RAPID CITY	77.28	42.6	11 57	-1			
KRAKOW	77.58	326.5	11 59	0	21 49	-1	14 59 PP
LARAMIE	77.90	45.9	12 2	1			
SKALNATE PL.	78.10	325.8					14 4
RACIBORZ	78.28	327.4	12 3	0			12 15 PCP
POTSDAM	78.49	331.4	12 2	-2			15 1 PP
BUCHAREST	78.86	319.5	12 6A	0	22 18	14	15 7 PP
ABERDEEN	79.05	341.6					26 59
COLLMBERG	79.38	330.8	12 8A	-1			15 42 PP
HALLE	79.61	331.5	12 9	-1	22 11	-1	15 3 PP
PRAGUE	79.82	329.3	12 17	6	22 15	1	
PRUHONICE	79.84	329.2	12 11A	-1	22 15	0	15 3 PP
BUDAPEST	79.92	325.3	12 13	1			
JENA	80.21	331.3	12 12	-2	22 15	-3	15 13 PP
PLAUEN	80.35	330.8	12 11	-3			
WITTEVEEN	80.35	335.0	12 14	0			
VIENNA-H.	80.46	327.2	12 15A	0			
CHEB	80.60	330.4	12 15	-1	22 23	1	
KSARA	80.66	306.4	12 15A	-1	22 27	4	15 19 PP
MUNSTER	80.75	334.0	12 15	-1			12 42
SONNEBERG	80.80	331.2	12 15	-2			15 23 PP
TUCSON	80.83	55.6	12 19	2			
TUCSON TELE.	80.84	55.5	12 16	-1			
BELGRADE	81.29	322.7	12 18K	-1	22 36	6	15 44 PP
DE BILT	81.45	335.4	12 19A	-1	22 24	-7	15 25 PP
SOFIA	81.49	319.7	12 19	-1			15 34 PP
BENSBERG	81.76	333.7	12 21	-1			
JERUSALEM	82.44	305.2	12 25A	0			15 37 PP
HEIDELBERG	82.52	332.0	12 25	-1			
ZAGREB	82.53	325.8	12 27	1			
STUTTGART	82.84	331.3	12 27A	0	22 44	-1	
KARAPIRO	82.86	154.8	12 25	-2			
LJUBLJANA	82.97	326.8	12 27	-1			
TUBINGEN	83.11	331.3	12 29	0			
TOLMEZZO	83.32	327.8	12 30	0			
DOURBES	83.35	334.6	12 29	-1			15 46 PP
EBINGEN	83.44	331.1	12 29	-1			
RAVENSBURG	83.53	330.6	12 31	0			
STRASBOURG	83.55	332.0	12 31	0	23 3	10	
RATHFARNHAM	83.58	342.1	12 30A	-1			15 52 PP
TRIESTE	83.62	327.0	12 28	-3			23 12 SKKS
KEW	83.67	338.0	12 31A	-1	22 53	-1	28 21 SS
CHATEAU	84.02	155.3	12 41	8			
BASLE	84.50	331.6	12 36A	0			23 1
LAWRENCE	85.09	41.8	12 38	-1			
BESANCON	85.32	332.4	12 40	0			
LUBBOCK	85.40	49.4	12 46	6			
FOLINIERE	86.12	336.9	12 43	-1			
PRATO	86.16	327.5	12 43	-1	23 9	-9	
HELWAN	86.18	306.1	12 43A	-1	23 9	-9	
GARCHY	86.30	334.1	12 44	-1			
ROME	87.19	325.5	12 49A	0	23 13	-15	16 16 PP
ISOLA	87.48	324.0	12 50	0			
CLERMONT-FD.	87.60	333.3	12 51	0			13 8
MONACO	87.76	329.6	12 51	-1			
ST. LOUIS 1	87.85	39.0	12 56	4	23 31	-3	
OTTAWA	88.25	26.3	12 54	0			
SEVEN FALLS	88.27	22.5	12 56	2			
MESSINA	88.74	321.4			23 51	8	16 27
LITTLE ROCK	89.79	42.8	13 2	1			
SETIF	94.97	327.0	13 23	-2			17 4 PP
TOLEDO	95.23	335.3	13 25	-1			
ALICANTE	95.39	332.1	13 26	-1	24 40	37	
ALGIERS UNI.	95.44	328.9					17 19 PP
RELIZANE	97.31	330.2					17 14 PP
GRANADA	97.53	333.8					17 33 PP
BERMUDA	103.65	24.0					25 49
TAMANRASSET	106.27	319.7			24 59	3	18 36 PP

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LWIRO	110.06	284.4								19 8
MBOUR	123.01	336.9								20 39 PP
BYRD STATION	130.17	166.9	19 12	0						
HUANCAYO	136.18	61.7	19 24	1						
LA PAZ	144.20	58.6	19 39	2						41 39 SS
SANTA LUCIA	152.20	87.5	19 59	9						43 16 SS

MARCH 21 1.H 49.M 42.S EPICENTRE -16.39-172.81 DEPTH= 0.KM

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G= 0.2782 H= 0.0351 K=-0.9599 HT= 5.5

SE= 2.88

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
APIA	2.76	21.4	0	43	-3	1	10	-11				
SUVA	8.55	256.9				3	31	-15				
NOUMEA	20.42	250.0	4	36	-6	7	50	-36				
ONERAHI	22.43	208.2	5	2	0							
KARAPIRO	23.79	203.3	5	15	0						5	34
CHATEAU	24.91	201.9	5	30	4							
BRISBANE	33.65	245.1	6	46	1	12	17	10				
RIVERVIEW	36.73	235.0	7	11	0							
CANBERRA	38.89	233.6	7	29A	0				7	39		
CHARTERS TS.	38.98	258.2	7	27	-3							
PORT MORESBY	39.58	275.0	7	44	9						13	2
MELBOURNE	42.76	231.6	7	59	-2							
ADELAIDE	46.95	237.3	8	32	-2							
CAPE HALLETT	56.80	186.1	9	47	-1	17	49	8			19	51 SCS
BYRD STATION	67.90	171.3	11	0	-3							
BERKELEY	71.86	40.0	11	30	3							
LICK	71.92	40.8	11	29A	2							
PASADENA	72.30	45.2	11	32	3	20	56	4				
FRESNO	72.75	42.2	11	27K	-5							
SHASTA	73.57	37.7	11	37	0							
RENO	74.40	39.9	11	43	1							
BOULDER CITY	75.60	45.2	11	48	-1							
TUCSON	76.52	50.3	11	54	0							
TUCSON TELE.	76.64	50.3	11	55	1							
EUREKA	76.78	41.7	11	54	-1							
BUTTE	82.48	37.6	12	27	1							
HUNGRY HORSE	82.94	35.1	12	27	-1							
COLLEGE	83.22	10.5	12	29	-1							
LARAMIE	84.52	44.3	12	38	2							
RATHFARNHAM	141.68	13.0									23	47
COLLMBERG	144.86	353.7	19	46	7						20	44
JENA	145.36	355.1	19	41	1						20	36
BENSBERG	145.51	0.0	19	42	2							
PLAUEN	145.75	354.4	19	45	4							
SONNEBERG	145.94	355.4	19	43	2							
PRUHONICE	145.97	351.5	19	43A	2						21	24
DOURBES	146.31	3.0	19	52	10							
FOLINIÈRE	147.10	9.4	19	44	1							
VIENNA-H.	147.34	348.6	19	40	-3							
STUTTGART	147.66	357.4	19	48	4						20	3 PKP2
STRASBOURG	147.89	359.3	19	55	11							
KSARA	148.90	309.3	19	51	5							
LWIRO	151.74	231.0	19	58	8							
ISOLA	155.03	347.9	19	58	3							
TAMANRASSET	173.45	13.6	20	14	3							

MARCH 21 4.H 43.M 21.S EPICENTRE 40.06 143.49 DEPTH= 0.KM

A=-0.61682 B= 0.45666 C= 0.64108 D= 0.5950 E= 0.8037  
G=-0.5152 H= 0.3815 K=-0.7675 HT= -1.7

SE= 3.96

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MIYAKO	1.24	251.0	0	25	0	0	40	-3				
HATINOHE	1.57	287.9	0	29A	-1	0	50	-1				
MORI OKA	1.82	259.2	0	35	2	0	59	2				



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URAKAWA	2.15	345.9	0 40	2							
AOMORI	2.20	291.0	0 47	8	1 18	11					
HIROO	2.22	356.8	0 51	12							
ISINOMAKI	2.34	226.6	0 40A	-1	1 7	-4					
AKITA	2.63	263.6	0 53	8	1 23	5					
SENDAI	2.69	229.1									
HAKODATE	2.70	311.1	0 47	1	1 23	3					
OBHIRO	2.86	355.8	1 6	18							
TOMAKOMAI	2.94	331.4			1 17	-9					
KUSIRO	2.99	13.0	0 49	-1	1 26	-1					
MORI	3.00	313.7	1 6	16						1 32	
YAMAGATA	3.04	234.4	0 47	-4	1 25	-3					
SAKATA	3.06	248.8	1 5	14							
SAPPORO	3.40	332.6	1 10	14	2 4	26					
NEMURO	3.62	25.0	0 58	-1	1 38	-5					
SUTTSU	3.67	319.2	1 33	33							
ASAHIKAWA	3.81	347.7	1 13	11							
SHIRAKAWA	3.90	222.1	1 6	3	1 55	5					
ABASHIRI	4.00	8.2	1 5	1	1 53	0					
NIIGATA	4.06	239.6			1 48	-6				2 16	
MITO	4.38	213.8	1 13	3	2 0	-2					
UTUNOMIYA	4.52	220.2	1 9	-3							
AIKAWA	4.56	245.1	1 47	35							
KAKIOKA	4.63	215.3	1 10	-3							
TYOSI	4.81	206.5	2 0	44							
MAEBASI	5.05	224.9	1 19	0	2 17	-2					
TAKADA	5.06	235.9	1 20	1							
KUMAGAYA	5.07	220.9	1 26	6	2 51	31					
TOKYO C.M.O.	5.28	215.2	2 9	47							
TITIBU	5.36	221.9	1 23	-1							
NAGANO	5.36	232.5	1 27	3							
OIWAKE	5.38	227.8	1 27	3							
MATUSIRO	5.44	231.4	1 24A	-1	2 30	1					
YOKOHAMA	5.53	214.5	2 7	41							
MATUMOTO	5.78	230.5	1 42	13	2 47	10					
KOHU	5.87	223.2	1 33	2	2 59	19					
HUNATU	5.89	220.8	1 29	-2	2 39	-2					
MISIMA	6.11	217.5			2 33	-11					
IIDA	6.37	226.4	2 29	51							
SHIZUOKA	6.49	220.1								3 7	
Y.-SAKHLINSK	6.98	355.7	2 11	25							
GIHU	7.07	230.9	1 56	8	3 14	4					
NAGOYA	7.11	228.7	2 0	12	3 22	11					
ABUYAMA	8.15	233.0	2 2K	-1							
PETROPAVLOVK	16.59	33.6									
MAGADAN	20.05	10.9	4 24	-14							
YAKUTSK	23.53	343.7	5 11	-2							
ULAN-BATOR	27.26	298.9	5 48	0							
SHILLONG	45.12	267.6	8 25	5							
COLLEGE	45.67	33.8	8 25	0							
CHITTAGONG	46.91	263.9	8 31	-3							
SVERDLOVSK	53.98	317.6	9 28	0							
RESOLUTE	59.27	15.3	10 3	-3							
QUETTA	61.61	286.8	10 21	-1							
THULE	62.05	8.1	10 30	5							
SODANKYLA	62.81	337.2	10 28	-2							
KIRUNA	64.26	339.3	10 46	6						11 4	
NURMIJARVI	68.04	332.1	11 2	-2							
HUNGRY HORSE	68.47	44.4	11 5	-1							
UPPSALA	70.94	334.4	11 20	-2							
SHIRAZ	72.29	294.0	11 29	-1							
EUREKA	72.71	52.8	11 32	0							
COLLMBERG	79.27	330.9	12 9	0							
PRUHONICE	79.74	329.3	12 11	-1						12 17 PCP	

MARCH 21 5.H 54.M 15.S EPICENTRE 39.24 143.84 DEPTH= 0.KM

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G=-0.5086 H= 0.3718 K=-0.7766 HT= -1.4

SE= 4.98

	DELTA DEG.	AZ. DEG.	P		O-C S	S		*PP		SUPP.	
			M	S		M	S	M	S	M	S
MIYAKO	1.50	286.4	0 22A	-6	0 38	-11					
MIZUSAWA	2.11	267.9	0 34	-3	0 56	-8					

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MORIOKA	2.11	283.4	0 33A	-4	1 1	-4	
ISINOMAKI	2.12	248.4	0 34A	-3	0 58	-7	
HATINOHE	2.19	306.7	0 38	0	0 59	-8	
SENDAI	2.49	248.1	0 42	-1	1 9	-5	
AOMORI	2.83	304.9	0 52	5	1 22	-1	
YAMAGATA	2.90	251.2	0 45	-3	1 12	-13	
AKITA	2.93	280.6	0 49	0	1 18	-7	
URAKAWA	3.02	344.9	1 3	13			
HIROO	3.06	352.8	1 16	25			
SAKATA	3.14	265.1	1 0	8			
ONAHAMA	3.25	226.3	1 13	20	1 44	11	
HAKODATE	3.48	318.6	0 58	1	1 38	-1	1 28
SHIRAKAWA	3.55	234.5	0 58	0	1 52	11	
OBIHIRO	3.71	352.8	1 13	13			
KUSIRO	3.76	6.3	1 2	1	1 38	-8	
MURORAN	3.76	325.7	1 5	4			1 47
MORI	3.79	320.0	1 9	8			
TOMAKOMAI	3.79	334.0	1 12	11	1 54	7	
MITO	3.91	224.1	1 10	7	1 56	6	
UTUNOMIYA	4.13	230.7	1 16	10			2 10
TUKUBASAN	4.23	225.7	1 3K	-4			
TYOSI	4.24	215.0	1 30	23			
SAPPORO	4.26	334.7	1 17	9			
NEMURO	4.29	17.3	1 6	-2	1 50	-10	
SUTTSU	4.48	323.7	2 5	54			
AIKAWA	4.54	256.2	1 20	8			
ASAHIGAWA	4.67	346.8	1 34	20			
KUMAGAYA	4.69	230.3	1 13	-1	2 34	24	
MAEBASI	4.72	234.6	1 13	-1	2 6	-5	
ABASHIRI	4.79	3.8	1 21	6			
TITIBU	4.98	230.7	1 17	-1			
YOKOHAMA	5.06	222.5	2 35	76			
OIWAKE	5.10	236.9	1 23	3			
NAGANO	5.14	241.8	1 20	0			
MATUSIRO	5.20	240.6	1 19A	-2	2 18	-5	
HUNATU	5.50	228.8	1 25	0	2 34	4	
KOHU	5.51	231.3	1 39	14	2 37	7	
MATUMOTO	5.52	239.1	1 29	3	2 39	8	
MISIMA	5.67	225.0	1 39	11			
GIHU	6.81	237.9	1 46	2			
NAGOYA	6.82	235.6	2 11	27	3 36	33	
SHILLONG	45.37	268.6	8 19	-3			
COLLEGE	46.21	33.4	8 28	-1			
RESOLUTE	59.99	15.2	10 6	-5			
SODANKYLA	63.67	337.4	10 30	-5			
HUNGRY HORSE	68.87	44.4	1 8	-1			
NURMIJARVI	68.89	332.4	11 4	-5			
UPPSALA	71.80	334.6	11 21	-5			
SHIRAZ	72.87	294.4	11 28	-5			
EUREKA	72.99	52.8	11 33	0			
GOTEBORG	75.33	335.6	11 48	1			
RAPID CITY	77.39	42.8	12 5	6			
COLLMBERG	80.12	331.2					12 9
PRUNONICE	80.58	329.6					12 10
RATHFARNHAM	84.28	342.5					14 15

MARCH 21 6.H 51.M 28.S EPICENTRE 39.95 143.58 DEPTH= 0.KM

A=-0.61855 B= 0.45641 C= 0.63960 D= 0.5937 E= 0.8047  
G=-0.5147 H= 0.3798 K=-0.7687 HT= -1.7

SE= 3.95

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
MIYAKO	1.27	256.8	0 23A		-2	0 40		-3				
HATINOHE	1.67	290.9	0 30A		-1	0 54		1				
MORIOKA	1.87	263.0	0 34A		1	1 1		3				
MIZUSAWA	2.06	247.3	0 36		0	1 6		3				
URAKAWA	2.28	344.9				1 14		6				
AOMORI	2.31	293.0	0 50		10	1 20		11				
ISINOMAKI	2.32	229.8				1 18		9				
HIROO	2.33	355.3	0 46		6						1 12	
SENDAI	2.68	232.0	0 47		2						1 25	
AKITA	2.69	266.2	0 55		10							
HAKODATE	2.83	311.9	0 49		2	1 34		12				

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OB IHIRO	2.98	354.7	1	0	11	1	47	21	
YAMAGATA	3.03	236.9	0	50	0				1 12
TOMAKOMAI	3.07	331.3	1	14	23	1	32	4	
MURORAN	3.07	321.2	1	3	12	1	46	17	
KUSIRO	3.09	11.3	0	54	3	1	30	1	
MORI	3.13	314.3	1	13	22	1	48	18	
HUKUSIMA	3.27	228.8	0	51A	-2	1	37	3	
SAPPORO	3.54	332.5	1	6	9				
NEMURO	3.69	23.3	0	58	-1	1	38	-6	
SUTTSU	3.80	319.6	0	58	-3				1 58
SHIRAKAWA	3.86	224.0	1	0	-2	1	43	-6	
ASAHI GAWA	3.93	347.1	1	5	2				
NIIGATA	4.07	241.5	1	50	45	2	15	21	
ABASHIRI	4.10	7.1	1	7	2	1	56	1	
MITO	4.33	215.4	1	8	0	1	57	-3	
UTUNOMIYA	4.48	221.8	1	13	2				2 8
AIKAWA	4.58	246.8	1	22	10	2	26	19	
KAKI OKA	4.58	216.9	1	9	-3	2	23	16	
TUKUBASAN	4.63	217.5	1	9K	-4				
TYOSI	4.74	207.9	1	21	7	2	29	18	
MAEBASI	5.02	226.5	1	17	-1	2	12	-6	
KUMAGAYA	5.04	222.4	1	19	1	2	25	7	
TAKADA	5.06	237.4	1	18	-1				
HONGO	5.20	216.6	1	38	17				
TOKYO C.M.O.	5.23	216.6	1	30	9	2	33	10	
TITIBU	5.32	223.3	1	20	-2	2	31	6	
NAGANO	5.35	233.9	1	24	1				2 55
OIWAKE	5.36	229.2	1	28	5	2	35	9	
MATUSIRO	5.43	232.8	1	23A	-1	2	27	-1	
YOKOHAMA	5.48	215.8	1	50	25	2	58	29	
WAKKANAI	5.64	346.3				2	37	5	
MATUMOTO	5.76	231.9	1	27	-2	2	42	6	
KOHU	5.83	224.5	1	33	3				2 33
NERA	5.84	211.9				2	23	-18	
HUNATU	5.85	222.1	1	29	-1	2	39	0	
TOYAMA	5.97	239.1	1	39	7	3	20	38	
AJIRO	6.05	217.4	1	51	18	2	45	1	
MISIMA	6.06	218.8	1	36	3	3	0	16	
TAKAYAMA	6.27	234.7	1	35	-1				
IIDA	6.35	227.6	1	32	-5	3	1	10	
SHIZUOKA	6.46	221.2	1	53	15	3	11	17	
OMAESAKI	6.84	220.3	1	38	-6	3	5	2	
GIHU	7.06	232.0	1	52	5	3	20	11	
Y.-SAKHLINSK	7.09	355.2	1	50	3				
NAGOYA	7.09	229.8	2	0	13	3	24	14	
HIKONE	7.46	233.5	1	57	4				
KAMEYAMA	7.61	230.2	2	6	11	3	33	10	
KYOTO	7.95	234.2	2	0	1	3	47	16	
NARA	8.11	232.0	2	10	8				
UGLEGORSK	9.19	353.8	2	17	0				
CHANGCHUN	14.15	291.8	3	23	-1	6	0	-2	
PETROPAVLOVK	16.64	33.3	3	35	-21				
MAGADAN	20.14	10.7	4	36	-2				
ZO-SE	20.22	251.1	4	37	-2				
NANKING	21.51	256.3	4	48	-4				
YAKUTSK	23.65	343.6	5	11	-3				
WUHAN	25.40	257.3	5	29A	-1				
PAOTOW	25.52	282.3	5	31	-1				
ULAN-BATOR	27.38	299.1	5	49	0				
IRKUTSK	29.50	307.8	6	6	-2				
HONG KONG	30.52	243.6				11	23	5	
CANTON	30.58	245.7				11	17	-2	
LANCHOW	31.38	275.7	6	23A	-1				11 18
TIKSI	32.61	351.4							
CHENG TU	33.37	266.4	6	37	-5	11	54	-9	
KUNMING	37.13	259.1	7	13	-1	12	59	-2	
SHILLONG	45.19	267.7	8	22K	2				
COLLEGE	45.72	33.7	8	24	0				
CHITTAGONG	46.97	264.1	8	34	0	15	23	-3	10 22 PP
CHATRA	48.15	272.2	8	43	-1	15	37	-6	
KHEYS	50.15	347.7	8	57	-2				
FRUNSE	50.48	297.1	9	1	-1				
ANDI JAN	52.84	295.5	9	18	-1				
SVERDLOVSK	54.11	317.7	9	33	4				
STALINABAD	56.29	294.6	9	43	-1				
RESOLUTE	59.35	15.3	10	4	-2				
QUETTA	61.71	286.9	10	21	-1				12 39 PP
THULE	62.14	8.1	10	9	-16				
SODANKYLA	62.94	337.2	10	29	-1				

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KIRUNA	64.39	339.4	10 38	-2				
CORVALLIS	65.32	51.7	10 49	3				
SHASTA	68.01	54.9	11 3	0				
NURMIJARVI	68.17	332.2	11 3	-1				
HUNGRY HORSE	68.50	44.4	11 5	-1				
RENO	70.30	54.7	11 28	11				
LICK	70.41	57.5	11 17K	-1				
BUTTE	70.70	45.8	11 20	1				
UPPSALA	71.08	334.4	11 21	-1				
SHIRAZ	72.40	294.1	11 29K	-1	20 49	-4		
EUREKA	72.72	52.9	11 31	-1				
PASADENA	74.58	58.4	11 41	-1				
RAPID CITY	77.00	42.8	11 54	-2				
COLLMBERG	79.40	331.0	12 9	0			12 17	PCP
PRUHONICE	79.87	329.4	12 12A	0			15 23	PP
JENA	80.23	331.5	12 13	-1			12 52	
PLAUEN	80.37	330.9	12 12	-2				
TUCSON	80.53	55.8	12 16	1				
TUCSON TELE.	80.54	55.7	12 16	1				
LAWRENCE	84.81	42.0					12 33	
BYRD STATION	130.23	166.9	19 25	13				

MARCH 21 9.H 18.M 20.S EPICENTRE 39.67 143.47 DEPTH= 0.KM

A=-0.62022 B= 0.45938 C= 0.63584 D= 0.5952 E= 0.8036  
G=-0.5109 H= 0.3784 K=-0.7718 HT= -1.6

SE= 2.90

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
MIYAKO	1.16	269.4	0	21	-3	0	37	-4				
HATINOHE	1.72	300.5	0	32A	0	0	52	-3				
MORI OKA	1.78	271.6	0	34A	1	0	59	3				
MIZUSAWA	1.89	254.1	0	35	1	0	56	-3				
ISINOMAKI	2.09	234.2	0	37A	0	1	6	2				
AOMORI	2.36	299.9	0	43	2	1	14	3				
SENDAI	2.45	235.9	0	42A	0						1	10
URAKAWA	2.53	348.2	0	47	4	1	17	2				
AKITA	2.60	272.1	0	46	2	1	24	7				
HIROO	2.61	357.5	0	46	1	1	19	2				
YAMAGATA	2.82	240.7	0	48	0	1	26	3				
SAKATA	2.93	255.9	0	55	6	1	41	15				
HAKODATE	2.97	316.9	0	50A	0	1	26	-1				
HUKUSIMA	3.03	231.7	0	50A	-1	1	30	2				
MURORAN	3.25	325.3	0	58	4	1	38	4			1	24
OBIHIRO	3.25	356.5	0	56	2	1	28	-6				
MORI	3.28	318.7	1	3	9	1	42	8				
TOMAKOMAI	3.28	334.8	0	59	5						1	51
KUSIRO	3.38	11.6	0	58A	2	1	35	-2				
ONAHAMA	3.39	217.5	0	52	-4	1	39	2				
SHIRAKAWA	3.61	226.1	0	58	-1	1	37	-6				
SAPPORO	3.75	335.5	1	0	-1	1	54	8				
NIIGATA	3.87	244.6	1	8	5	2	0	11				
SUTTSU	3.97	323.0	1	8	4	2	1	9			1	33
NEMURO	3.98	22.7	1	3	-1	1	47	-5				
MITO	4.05	216.8	1	5	0	1	46	-8				
ASAHIGAWA	4.19	349.0	1	11	4	2	18	21				
UTUNOMIYA	4.22	223.5	1	11	4	2	4	6			1	48
KAKI OKA	4.31	218.2	1	7	-2	1	56	-5				
TUKUBASAN	4.36	218.8	1	6A	-3							
ABASHIRI	4.39	7.6	1	10	0	2	0	-2				
AIKAWA	4.40	249.6	1	10	0	2	21	18				
TYOSI	4.46	208.6	1	9	-2	2	14	10				
MAEBASI	4.77	228.2	1	15	0	2	8	-4				
KUMAGAYA	4.78	223.9	1	14	-1	2	32	20				
TAKADA	4.84	239.6	1	16	0	2	20	6				
HONGO	4.93	217.8	1	14	-4							
TOKYO C.M.O.	4.96	217.7	1	16	-2	2	15	-2				
TITIBU	5.07	224.7	1	17	-2	2	15	-5				
NAGANO	5.12	235.9	1	21	1	2	37	16				
OIWAKE	5.12	230.9	2	20	60						3	41
MATUJIRO	5.20	234.7	1	21A	0	2	21	-2				
YOKOHAMA	5.21	216.8	1	22	0	2	20	-3				
MATUMOTO	5.53	233.6	1	24	-2	2	37	6				
MERA	5.56	212.6	1	31	5	2	46	14				

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KOHU	5.58	225.8	1 25	-2	2 33	0	
HUNATU	5.59	223.4	1 27	0	2 37	4	
WAZIMA	5.64	248.1	1 31	3	2 49	15	
TOYAMA	5.76	241.0	1 32	3	3 3	26	1 55
AJIRO	5.78	218.4	1 30	0	2 34	-4	
MISIMA	5.80	219.8	1 25	-5	2 55	17	2 32
OSIMA	5.88	215.0	1 29	-2			
WAKKANAI	5.90	347.6	1 34	3	2 46	6	
TAKAYAMA	6.05	236.4	1 34	1			
IIDA	6.10	229.0	1 34	0	2 51	5	
SHIZUOKA	6.19	222.3	1 37	2	2 46	-2	
KANAZAWA	6.23	241.9	1 56	20			
OMAE SAKI	6.57	221.3	1 56	15	3 12	15	4 21
HAMAMATU	6.75	224.7	1 56	13	3 29	27	
GIHU	6.82	233.4	1 44	0	3 1	-3	2 6
NAGOYA	6.85	231.1	1 49	4	3 14	10	
TSURUGA	7.11	238.0	1 48	0	3 23	12	
HIKONE	7.23	234.8	1 51	1	3 25	11	
Y.-SAKHLINSK	7.37	356.0	1 50	-2			3 14
KAMEYAMA	7.37	231.4	1 59	7	3 26	9	
TU	7.44	230.4	2 12	19			
MAIZURU	7.67	239.4	2 0	4	3 29	4	
KYOTO	7.72	235.4	1 58	1	3 33	7	
NARA	7.88	233.1	2 1	2	3 35	5	
ABUYAMA	7.91	235.2	1 58K	-2			
TOYOOKA	8.02	241.7	2 2	1	3 44	11	
OWASE	8.07	228.4	2 9	7	3 58	23	
OSAKA	8.08	234.1	2 13	11	4 1	26	
KOBE	8.28	235.6	2 8	3	3 36	-4	
WAKAYAMA	8.58	233.3	2 28	19			
SUMOTO	8.67	234.8	2 9A	-1	4 4	14	3 4
SAIGO	8.73	249.8	2 12	1	4 18	27	
TOKUSIMA	9.05	234.6	2 17	2	3 58	-1	2 35
YONAGO	9.08	245.4	2 27	11			3 51
OKAYAMA	9.11	239.8	2 18	2			
TAKAMATU	9.24	237.6	2 22	4	4 53	49	
MATSUE	9.27	246.2	2 24	6			
VLADIVOSTOK	9.35	295.3	2 20	0	4 5	-2	
UGLEGORSK	9.46	354.4	2 19	-2	4 5	-4	2 55
KOTI	10.06	235.7	2 33	4	4 36	12	2 51
HAMADA	10.26	245.9	2 37K	5	4 52	23	
HIROSI MA	10.29	242.5	2 32	0	4 36	6	
MATUYAMA	10.36	239.2	2 35	2	4 51	19	
UWAZIMA	10.89	237.2	2 39	-2			
SIMIDU	10.92	234.2	1 49	-52			
HUKUOKA	12.14	244.0	3 24	26	4 58	-15	
KUMAMOTO	12.37	240.4	3 2	1			
SAGA	12.38	242.9	3 0	-1			
NAGASAKI	12.97	241.9	3 11K	2	5 58	23	
OKHA	13.89	358.6			6 5	8	
CHANGCHUN	14.18	292.9	3 21	-4			3 31 PP
PETROPAVLOVK	16.92	32.9	4 5	5			
ZO-SE	20.05	251.6	4 32	-6			4 52 PP
MAGADAN	20.43	10.7	4 40	-2			
NANKING	21.36	256.9	4 48A	-4			5 17 PP
TAIPEI	23.52	238.2	5 14	1	9 28	4	
YAKUTSK	23.90	343.9	5 15	-2			
WUHAN	25.27	257.8	5 29A	-1	9 52	-2	6 11 PP
PAOTOW	25.51	282.9	5 40A	8			
TAWU	25.82	234.7	5 34	-1	10 7	4	
HENGCHUN	26.17	234.4	5 42	4			
ULAN-BATOR	27.45	299.6	5 48	-2	10 28	-2	
IRKUTSK	29.61	308.3	6 8A	-1	11 0	-4	
HONG KONG	30.32	243.9	6 16	0	11 15	-1	
BAGUIO CITY	30.57	227.2	6 16	-2	11 18	-2	
LANCHOW	31.33	276.1	6 22A	-3			
MANILA	31.72	224.5	7 9	41	12 13	35	
CHENG TU	33.27	266.7	6 39A	-3	11 56	-6	
KUNMING	37.00	259.4	7 11A	-2	12 56	-3	
LHASA	43.74	273.5	8 8	-1	14 40	0	
RABAUL	44.38	167.5	8 13	-1			
SEMI PALATNSK	44.68	305.6	8 15	-2			14 52
SHILLONG	45.10	267.9	8 18A	-2	14 56	-4	9 55 PP
COLLEGE	46.00	33.6	8 28	1	15 10	-3	9 59 PP
CHITTAGONG	46.86	264.2	8 32	-2	15 24	-1	10 21 PP
CHATRA	48.08	272.4	8 43A	-1	15 39	-3	
PORT MORESBY	48.94	175.2	8 55	5	15 53	-1	
CALCUTTA	49.42	266.8			16 8	7	14 10

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KHEYS	50.41	347.7	9 0	-2					
FRUNSE	50.54	297.3	9 2	-1					
BOKARO	50.70	269.9	9 5A	1	16 16	-3			
KIPAPA	52.66	92.1	9 19	0					
HONOLULU	52.67	92.3	9 8	-11	17 2	16			
PORT BLAIR	52.69	252.5	9 18	-1					
DEHRA DUN	53.35	281.4	9 26	2	16 28	-27			
SVERDLOVSK	54.27	317.8	9 29	-1				17 9	PS
TASHKENT	54.79	297.5	9 32	-2				17 21	PS
AGRA	54.96	278.1	9 34A	-2					
STALINABAD	56.33	294.7	9 44	-1					
WARSAK DAM	56.44	288.6	9 45	-1					
LEMBANG	56.90	224.0	9 46	-4					
NORD	58.52	356.6	9 59	-2					
ISFJORD	58.74	349.2	9 57	-5					
CHARTERS TS.	59.50	177.0	10 8	0				12 43	
RESOLUTE	59.65	15.2	10 7A	-2	18 16	-2			
HYDERABAD	59.97	268.2						15 8	PCS
APATITY	60.96	335.6	10 15A	-3					
MADRAS	61.30	263.1	10 18	-2				11 12	
QUETTA	61.72	287.0	10 19A	-4	18 41	-4		12 35	PP
THULE	62.43	8.1	10 24	-4	18 24	-30			
POONA	62.88	272.2	10 13K	-18	18 26	-34			
HORSESHOE B.	63.08	47.0	10 27	-5					
SODANKYLA	63.17	337.2	10 30	-2					
VICTORIA	63.44	47.9	10 36	2					
BOMBAY	63.46	273.1	10 0	-34	19 7	0		13 17	
ASHKABAD	63.82	298.6	10 35	-2				13 0	PP
KIRUNA	64.63	339.4	10 41	-1					
KODAIKANAL	65.09	262.5						11 25	
CORVALLIS	65.56	51.6	10 50	2					
MOSCOW	66.10	323.5	10 50	-2					
PULKOVO	66.74	329.6	10 54	-2	19 42	-5		13 28	PP
BRISBANE	67.28	171.0	10 59	0	19 14	-40			
SHASTA	68.24	54.7	11 6	1					
NURMIJARVI	68.38	332.2	11 4	-2				13 39	PP
HELSINKI	68.50	331.8	11 8	1					
UKIAH	68.59	56.5	10 59	-8				11 12	
HUNGRY HORSE	68.76	44.3	11 8	0					
SCORESBY SD.	69.65	354.8	11 13K	-1					
BERKELEY	69.93	57.2	11 16A	1	20 29	4		24 52	SS
SKALSTUGAN	70.05	339.0	11 15	-1				13 45	
TIFLIS	70.46	308.3	11 19	0				13 51	PP
RENO	70.53	54.5	11 20A	1					
LICK	70.63	57.3	11 20A	0					
GORIS	70.82	305.6	11 21	0				14 6	PP
BUTTE	70.95	45.7	11 22	0					
UPPSALA	71.29	334.4	11 23	-1				14 2	
BOZEMAN	72.01	45.3	11 30	2				11 50	
FRESNO	72.16	56.9	11 29	0					
SHIRAZ	72.44	294.1	11 2	-29					
EUREKA	72.95	52.7	11 33	-1					
RIVERVIEW	73.48	173.3			21 6	0			
ADELAIDE	74.40	184.1	11 43	1					
SIMFEROPOL	74.57	316.0	11 43	0					
SALT LAKE C.	74.63	49.6	11 46	3					
CANBERRA	74.79	175.3	11 44K	0					
PASADENA	74.80	58.2	11 42	-2	21 22	1		26 16	SS
GOTEBORG	74.82	335.4	11 41	-3				14 31	
MUNDARING	75.64	203.7	11 48	-1					
LWOW	76.19	324.5	11 52	0				14 41	PP
COPENHAGEN	76.29	333.9	11 53	0	21 40	3			
IASI	76.40	320.9	11 54	1					
MELBOURNE	77.14	178.8	11 57	-1					
RAPID CITY	77.26	42.7	11 59	1					
KRAKOW	77.81	326.7	12 1	0	21 59	5		12 8	PCP
LARAMIE	77.86	46.0	12 3	2				12 25	
SKALNATE PL.	78.33	325.9	12 5K	1					
RACIBORZ	78.51	327.5	12 5	0					
POTSDAM	78.71	331.6	12 4	-2					
BUCHAREST	79.09	319.6	12 2	-6					
COLLMBERG	79.61	331.0	12 10A	-1				15 20	PP
HALLE	79.84	331.6	12 12	0	22 24	9		15 6	PP
PRUHONICE	80.07	329.3	12 13A	-1				15 10	PP
BUDAPEST	80.15	325.4	12 15	1					
JENA	80.43	331.5	12 13	-2	21 52	-29		15 16	PP
WITTEVEEN	80.57	335.1	12 17K	1					
PLAUEN	80.58	330.9	12 12	-4				14 57	PP



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VIENNA-H.	80.69	327.3	12 17	0							
TUCSON	80.75	55.7	12 18	1							
TUCSON TELE.	80.76	55.6	12 18	1							
CHEB	80.83	330.5	12 24	6							
KSARA	80.91	306.5	11 47	-31						15 29	PP
MUNSTER	80.97	334.1	12 16	-2							
SONNEBERG	81.02	331.3	12 18	-1							
DURHAM	81.28	340.4	12 20	0							
BELGRADE	81.53	322.9	12 22A	1						15 51	
DE BILT	81.66	335.5	12 15	-7	22 40	6					
BENSBERG	81.97	333.8	12 23	-1							
KARAPIRO	82.65	155.0	12 29	2							
JERUSALEM	82.68	305.4	12 28	1	22 47	2					
HEIDELBERG	82.74	332.1	12 27	-1							
STUTTGART	83.06	331.5	12 29	0						15 50	PP
LJUBLJANA	83.20	326.9	12 28A	-2						14 35	
TUBINGEN	83.34	331.4	12 30	-1							
TOLMEZZO	83.55	328.0	12 34	2						15 21	
DOURBES	83.57	334.8	12 37	5						15 52	PP
EBINGEN	83.67	331.3	12 33	1							
RAVENSBURG	83.75	330.7	12 32	-1							
STRASBOURG	83.77	332.2	12 33	0	23 4	8					
RATHFARNHAM	83.78	342.3	12 35K	2							
KEW	83.88	338.2	12 33	0	22 56	-1					
BASLE	84.72	331.7	12 36	-2							
ATHENS	85.02	316.5	12 37	-2							
LAWRENCE	85.07	42.0	12 41	2							
LUBBOCK	85.35	49.6	12 46	5							
NEUCHATEL	85.40	331.8	12 41	0							
FOLINIERE	86.34	337.0	12 45	-1							
HELWAN	86.42	306.3	12 45	-1						13 34	
GARCHY	86.52	334.2	12 46A	0							
ISOLA	87.71	324.1	12 52	0						16 19	PP
CLERMONT-FD.	87.82	333.5	12 53	0					13 20		
ST. LOUIS 1	87.85	39.2	12 58A	5	23 38	3				29 33	SS
SHAWINIGAN	88.25	24.1	12 58	3							
OTTAWA	88.29	26.5	12 56	1							
SEVEN FALLS	88.34	22.6	12 56	1							
MESSINA	88.98	321.6			23 30	-16					
LITTLE ROCK	89.76	42.9	13 4	2							
MORGANTOWN	91.66	32.1	13 14	3							
SETIF	95.20	327.1	13 27	0						17 22	PP
TOLEDO	95.45	335.5	13 28	0							
TAMANRASSET	106.51	319.9	14 39K	777						16 8	
LWIRO	110.29	284.5	18 44	10							
BULAWAYO	121.50	269.1	18 57	1							
KIMBERLEY	129.02	262.5	19 12	1							
BYRD STATION	129.98	166.9	19 13	1							
HUANCAYO	136.08	62.1	19 29	5							
LA PAZ	144.11	59.0	19 42	4						20 17	

MARCH 21 11.H 40.M 15.S EPICENTRE -16.37-172.59 DEPTH= 0.KM

A=-0.95193 B=-0.12385 C=-0.28016 D=-0.1290 E= 0.9916  
G= 0.2778 H= 0.0361 K=-0.9600 HT= 5.5

SE= 2.74

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	O-C S	M	S	M	S
APIA	2.68	17.1	0	42	-3	1	10	-8				
SUVA	8.76	257.1	2	20	9	4	1	10				
NOUMEA	20.63	250.1	4	44	1						6	10
ONERAHI	22.55	208.6	5	2	-1							
KARAPIRO	23.89	203.7	5	16	0						5	46
CHATEAU	25.00	202.2	5	33	7							
KAIMATA	29.44	204.5	6	15	8							
BRISBANE	33.85	245.1	6	46	0	12	14	4				
RIVERVIEW	36.91	235.1	7	12	0							
CANBERRA	39.07	233.7	7	28A	-2							
CHARTERS TS.	39.19	258.2	7	28	-3						13	46
PORT MORESBY	39.80	274.9	7	35	-1	13	56	15				
MELBOURNE	42.94	231.7	7	59	-3							
ADELAIDE	47.14	237.3	8	33	-2							
CAPE HALLETT	56.83	186.2	9	51	3	17	53	12			23	45 SSS
TERRE ADELIE	58.59	199.5	10	0	-1							

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MUNDARING	65.76	241.9	10 46	-3				
BYRD STATION	67.88	171.3	11 0	-2				
MIZUSAWA	70.13	323.3			19 32	-55		
MATUSIRO	70.18	319.6	11 17	1				
BERKELEY	71.72	39.9	11 26	1	20 50	5		
LICK	71.77	40.7	11 27A	1				
UKIAH	71.93	38.4	11 27	0				
PASADENA	72.14	45.1	11 28	0	20 59	9	12	5
MANILA	72.40	291.6	11 32	2				
FRESNO	72.59	42.1	11 31	0				
SHASTA	73.43	37.5	11 35	-1				
SOUTH POLE	73.73	180.0	11 36	-1			12	11
RENO	74.25	39.8	11 45A	5				
CORVALLIS	75.43	34.0	11 39	-8				
TUCSON	76.34	50.2	11 54	2				
TUCSON TELE.	76.47	50.2	11 54	1				
EUREKA	76.62	41.6	11 54	0				
LEMBANG	78.34	266.2	12 2	-1	21 42	-17		
SALT LAKE C.	79.97	42.3	12 13	1				
HONG KONG	81.34	296.2	12 21	2				
BUTTE	82.34	37.5	12 25	0				
HUNGRY HORSE	82.80	35.0	12 26	-1				
BOZEMAN	83.05	38.4	12 29	1				
COLLEGE	83.17	10.4	12 28	-1				
LARAMIE	84.36	44.2	12 36	1				
RAPID CITY	87.17	42.5	12 50	1				
COLLMBERG	144.87	353.9	19 35	-4				
RACIBORZ	145.27	347.8	19 42	3				
JENA	145.37	355.4	19 40	1			20	23
BENSBERG	145.50	0.3	19 42	2				
PLAUEN	145.75	354.6	19 39	-1				
SONNEBERG	145.94	355.7	19 43	3				
PRUHONICE	145.99	351.8	19 43	2			22	29
DOURBES	146.28	3.3	19 39	-2				
FOLINIÈRE	147.05	9.6	19 46	4				
VIENNA-H.	147.37	348.9	19 47	4				
STUTTGART	147.66	357.7	19 50	7			21	36
STRASBOURG	147.88	359.6	19 51	7				
KSARA	149.07	309.5	19 55	9				
BESANCON	149.19	1.9	19 52	6				
LJUBLJANA	149.82	350.1	19 54	7				
SERRA PILAR	151.71	26.1	20 3	13				
ISOLA	155.07	348.3	20 8	14				
SETIF	160.17	4.8	20 14	13				
TAMANRASSET	173.38	15.3	20 16	5			21	43 PKP2

MARCH 21 19.H 48.M 55.S EPICENTRE -20.88 -70.72 DEPTH= 0.KM

A= 0.30879 B=-0.88270 C=-0.35425 D=-0.9439 E=-0.3302  
G=-0.170 H= 0.3344 K=-0.9351 HT= 4.5

SE= 3.58

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
ANTOFAGASTA	2.82	174.4	0	47	0	1	26	3				
LA PAZ	5.00	29.8	1	21	3	2	20	2			1	32 PP
HUANCAYO	9.83	332.6	2	25	-1	4	7	-11				
SANTA LUCIA	12.51	179.7				6	4	40			7	10
BOGOTA	25.55	352.2	5	33	1	9	55	-3				
CHINCHINA	26.13	348.9	5	38	0	10	4	-4				
SAN JUAN	39.27	6.9	7	27	-5				7	38	10	17
TACUBAYA	48.78	323.2	9	15	26							
COLUMBIA	55.45	349.6	9	47	8							
LITTLE ROCK	59.04	339.3	10	1	-3				10	12		
MORGANTOWN	60.80	351.8	10	25K	9							
FAYETTEVILLE	60.85	338.3	9	14K	-63				9	24		
PALISADES	61.64	357.3				18	45	1				
LUBBOCK	61.76	330.7	10	31	8							
ST. LOUIS I	61.97	342.8	10	32A	8							
BYRD STATION	62.85	188.5	10	33	3							
MBOUR	63.36	61.0	10	56	23							
LAWRENCE	63.81	338.9	10	34	-2							
TUCSON	65.30	323.1	10	47	1							
TUCSON TELE.	65.30	323.2	10	46	0				10	57	11	31
HALIFAX	65.50	5.6	10	45	-2							

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SHAWINIGAN	67.13	358.5	10 55	-3		
SEVEN FALLS	67.57	359.9	10 59	-2		
SOUTH POLE	69.25	180.0	11 12	1		
LARAMIE	69.81	332.7	11 8	-6		
PASADENA	70.94	319.7	11 21	0		11 32
RAPID CITY	71.16	335.9	11 21	-2	11 33	
SALT LAKE C.	72.27	328.4	11 24	-5		
EUREKA	73.43	325.0	11 36	0	11 47	
FRESNO	73.70	320.8	1 37	-1		
RENO	75.59	322.9	11 51	2		
BOZEMAN	75.68	332.1	11 48	-1		
BUTTE	76.63	331.5	11 54	0		
SHASTA	77.83	322.4	12 0	-1		
HUNGRY HORSE	79.05	332.2	12 7	-1		
WINDHOEK	80.32	110.4	12 14	-1		
CORVALLIS	80.89	324.9	12 19	1		
KIMBERLEY	84.79	118.6	12 7K	-31		
TAMANRASSET	86.05	64.0	12 42A	-2	23 7 -11	16 1 PP
PRETORIA	88.70	117.0	13 26	29		
BULAWAYO	91.21	112.0	13 8A	-1	13 25	
LWIRO	98.09	95.5	13 42K	2		17 6
SHIRAZ	128.36	68.2	19 9A	0		
QUETTA	140.88	67.5	19 34	2		
POONA	146.60	87.8	19 45A	3		
MATUSIRO	150.36	308.0	19 55	7		
LEMBANG	152.42	176.4	19 53A	2		
SHILLONG	163.33	70.4	20 7	3		

MARCH 21 22.H 56.M 56.S EPICENTRE 39.36 143.67 DEPTH= 0.KM

A=-0.62455 B= 0.45932 C= 0.63164 D= 0.5925 E= 0.8056  
G=-0.5088 H= 0.3742 K=-0.7753 HT= -1.4

SE= 3.85

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MIYAKO	1.35	283.0	0	24A	-3	0	38	-7				
MORI OKA	1.96	280.7	0	34A	-1	0	57	-4				
MIZUSAWA	1.98	264.1	0	30	-6	0	58	-4				
HATINOHE	2.02	306.1	0	33A	-3	0	54	-8				
ISINOMAKI	2.05	243.9	0	36A	-1	1	1	-2				
SENDAI	2.42	244.1	0	41A	-1						1	13
AOMORI	2.65	304.3	0	43	-2	1	12	-7				
AKITA	2.78	278.5	0	48	1	1	22	0				
YAMAGATA	2.82	247.9	0	47	-1	1	25	2				
URAKAWA	2.87	346.7	0	49	1	1	18	-6				
HIROO	2.93	354.9	0	50	1	1	21	-5				
HUKUSIMA	2.98	238.3	0	48	-2	1	26	-1				
SAKATA	3.02	262.5	0	56	6	1	36	8				
ONAHAMA	3.25	223.1	1	20	26	1	46	12				
HAKODATE	3.30	318.8	0	54	0	1	31	-4				
SHIRAKAWA	3.52	231.6	1	3	5	1	49	9				
OBHIRO	3.57	354.5	0	59	1	1	48	6				
MURORAN	3.59	326.3	1	5	6						1	42
MORI	3.61	320.3	1	5	6	1	45	2				
TOMAKOMAI	3.63	334.9	1	10	11	1	49	6				
KUSIRO	3.66	8.5	1	3	3	1	40	-4				
NIIGATA	3.89	249.8	1	18	15	1	53	3				
MITO	3.91	221.4	1	5	2	1	45	-5				
SAPPORO	4.10	335.5	1	12	6	1	58	3				
UTUNOMIYA	4.11	228.1	1	6	0	1	40	-15			2	21
KAKI OKA	4.17	222.6	1	8	1	2	13	16				
NEMURO	4.22	19.3	1	7	-1	1	51	-7				
TUKUBASAN	4.22	223.1	1	5	-3							
TYOSI	4.27	212.5				1	48	-11				
SUTTSU	4.31	324.0	1	19	10						2	22
AIKAWA	4.45	254.2	1	20	9	2	34	30			3	12
ASAHIGAWA	4.52	348.0	1	11	-1							
KUMAGAYA	4.67	228.0	1	15	1	2	26	16				
ABASHIRI	4.68	5.4	1	13	-1	2	5	-5				
MAEBASI	4.69	232.3	1	16	2	2	20	10				
HONGO	4.78	221.6	1	34	18							
TOKYO C.M.O.	4.82	221.5	1	34	18							
TAKADA	4.83	243.8	1	16	0							
TITIBU	4.96	228.6	1	19	1							
OIWAKE	5.06	234.8	1	5	-14							

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NAGANO	5.08	239.8	1 22	2	2 36	16	
MATUSIRO	5.15	238.6	1 20A	-1	2 21	-1	
MATUMOTO	5.48	237.2	1 41	16	2 59	29	
HUNATU	5.48	226.8	1 26	1	2 35	5	
KOHU	5.48	229.4	1 28	3	2 46	16	
MISIMA	5.66	223.1	1 46	18	3 4	29	
IIDA	6.02	232.3			2 40	-3	
WAKKANAI	6.23	347.0			2 28	-19	
GIHU	6.77	236.4	1 53	10			
NAGOYA	6.78	234.0	2 15	31	3 36	33	
Y.-SAKHLINSK	7.69	355.1	2 5	9			
NARA	7.82	235.7	2 10	12			
ABUYAMA	7.87	237.8	1 57A	-2			
UGLEGORSK	9.78	353.8	2 23	-3			
MAGADAN	20.71	10.3	4 45	0			
YAKUTSK	24.24	343.9	5 17	-3			
ULAN-BATOR	27.73	300.1	5 50	-3			
SHILLONG	45.24	268.4	8 19	-2			
COLLEGE	46.18	33.4	8 31	2			
CHITTAGONG	46.98	264.7	8 32	-3			
ANDIJAN	53.16	296.0	9 20	-2			
NAMANGAN	53.56	296.5	9 26	1			
SVERDLOVSK	54.60	318.0	9 31	-2			
RESOLUTE	59.91	15.2	10 9	-2			
APATITY	61.30	335.7	10 19	-1			
QUETTA	61.95	287.3	10 22	-2			
SODANKYLA	63.51	337.3	10 32	-3			
MOSCOW	66.44	323.6	10 52	-2			
PULKOVO	67.09	329.7	10 56	-2			
NURMI JARVI	68.72	332.3	11 6	-2			
HELSINKI	68.84	332.0	11 7	-2			
HUNGRY HORSE	68.88	44.3	11 10	1			13 56 PP
UPPSALA	71.64	334.5	11 24	-2			
SHIRAZ	72.70	294.3	11 29	-3			
EUREKA	73.02	52.8	11 35	1			
PASADENA	74.83	58.3	11 47	2			
COLLMBERG	79.95	331.1	12 12	-1			
PRUHONICE	80.41	329.5	12 14A	-1			
JENA	80.78	331.6	12 16	-1			12 36
LUBBOCK	85.44	49.7					14 37
TAMANRASSET	106.85	320.0					18 39 PP

MARCH 21 23.H 21.M 43.S EPICENTRE 39.49 143.54 DEPTH= 0.KM

A=-0.62234 B= 0.45989 C= 0.63340 D= 0.5943 E= 0.8042  
G=-0.5094 H= 0.3764 K=-0.7738 HT= -1.5

SE= 3.57

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
MIYAKO	1.22	278.0	0	20	-4	0	33	-8				
MORIOKA	1.84	277.3	0	31K	-2	0	49	-8				
HATINOHE	1.86	304.6	0	31	-2	0	51	-7				
MIZUSAWA	1.90	259.8	0	33	-1	0	53	-6				
ISINOMAKI	2.03	239.2	0	34A	-1	0	59	-3				
SENDAI	2.39	240.2	0	39A	-2	1	5	-6				
ADMORI	2.50	303.0	0	41	-1	1	10	-4				
AKITA	2.66	276.0	0	43A	-2	1	14	-4				
URAKAWA	2.72	348.0	0	48	3	1	17	-2				
YAMAGATA	2.78	244.5	0	46	0	1	19	-2				
HIROO	2.79	356.7	0	48	2	1	20	-1				
SAKATA	2.94	259.6	0	51	3	1	32	7				
HUKUSIMA	2.96	235.1	0	47	-2	1	28	2				
HAKODATE	3.14	318.5	0	50	-1	1	27	-3				
ONAHAMA	3.28	220.1	1	12	19							
MURORAN	3.43	326.4	0	58	3	1	35	-2				
OBHIRO	3.44	355.9	1	2	6	1	43	5				
MORI	3.44	320.1	0	59	3	1	44	6				
TOMAKOMAI	3.47	335.4	1	7	11	1	43	5				
SHIRAKAWA	3.52	228.8	1	5	8	1	38	-2				
KUSIRO	3.55	10.3	0	58	1	1	37	-3				
NIIGATA	3.84	247.3	1	38	37						2 0	
SAPPORO	3.94	336.0	1	9	6							
MITO	3.94	218.9	1	3	0	1	49	-1				
UTUNOMIYA	4.12	225.7	1	6	1	2	5	10				

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NEMURO	4.13	21.2	1	5	0	1	49	-6	
SUTTSU	4.14	324.0	1	18	12	2	12	17	2 2
KAKI OKA	4.20	220.3	1	4	-2	1	48	-9	
TUKUSBASAN	4.25	220.9	1	4	-3				
TYOSI	4.33	210.4	1	5	-3				
ASAHI GAWA	4.37	348.8	1	12	3				
AIKAWA	4.39	252.1	1	13	4				
ABASHIRI	4.56	6.8	1	11	0	2	2	-4	
MAEBASI	4.69	230.2	1	14A	1	2	16	7	
TAKADA	4.79	241.8	1	14	-1				
TOKYO C.M.O.	4.85	219.5	1	17	1	2	22	9	2 10
TITIBU	4.98	226.6	1	17	0				
OI WAKE	5.05	232.9	1	21	3				
NAGANO	5.06	237.9	1	23	4	2	39	20	
YOKOHAMA	5.10	218.5							2 39
MATUSIRO	5.13	236.7	1	18A	-2	2	18	-3	
NERA	5.44	214.1							2 45
MATUMOTO	5.46	235.4	1	29	5				
KOHU	5.49	227.6	1	29	4	2	41	12	
HUNATU	5.50	225.1	1	19	-6	2	29	-1	
MISIMA	5.69	221.4	1	42	15	2	55	21	
IIDA	6.02	230.6							2 56
WAKKANAI	6.08	347.6	2	5	32				
GIHU	6.76	234.9	1	49	7				3 12
NAGOYA	6.78	232.5	1	56	13				2 57
Y.-SAKHLINSK	7.55	355.7	1	52	-2				
KYOTO	7.66	236.8	2	2	7	3	42	18	
NARA	7.81	234.4	2	0	3				
ABUYAMA	7.85	236.5	1	54K	-4				
MAGADAN	20.60	10.5	4	40	-3				
ULAN-BATOR	27.58	299.9	5	48	-2				
SHILLONG	45.14	268.2	8	17	-3				
COLLEGE	46.13	33.5	8	29	2				
CHITTAGONG	46.89	264.5	8	31	-2				
SVERDLOVSK	54.43	317.9	9	31	0				
RESOLUTE	59.81	15.2	10	7A	-2				
APATITY	61.14	335.7	10	15	-3				
QUETTA	61.82	287.1	10	20	-3				
SODANKYLA	63.35	337.3	10	30	-3				
KIRUNA	64.81	339.4	10	39	-3				
PENTICTON	65.25	45.7	10	46	1				
MOSCOW	66.28	323.5	10	50	-2				
NURMI JARVI	68.56	332.3	11	4	-2				
HELSINKI	68.68	331.9	11	6	-1				
HUNGRY HORSE	68.85	44.3	11	9	1				
BERKELEY	69.98	57.1	1	27	12				
RENO	70.59	54.5	11	32	13				
LICK	70.69	57.3	11	31A	12				
UPPSALA	71.48	334.5	11	21	-3				
SHIRAZ	72.56	294.2	11	27K	-3				
EUREKA	73.02	52.7	11	35	2				
PASADENA	74.85	58.2	11	56	12				
KRAKOW	77.99	326.7	11	0	-61				
COLLMBERG	79.79	331.0	12	10	-1				
PRUHONICE	80.25	329.4	12	13	-1				
STUTTGART	83.24	331.5	12	29	0				
PALISADES	92.92	27.4							20 57
TAMARRASSET	106.68	319.9							18 4 PP

MARCH 22 1.H 48.M 31.S EPICENTRE 16.50 -97.83 DEPTH= 0.KM

A=-0.13072 B=-0.95039 C= 0.28224 D=-0.9907 E= 0.1363  
G=-0.0385 H=-0.2796 K=-0.9593 HT= 5.5

SE= 3.07

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
OAXACA	1.14	62.9	0	22A	-1							
PUEBLA	2.54	352.1	0	48	5	1	24	9				
VERA CRUZ	3.14	30.9	0	55	3							
TACUBAYA	3.17	335.9	0	55K	3	1	35	4				
COMITAN	5.48	91.8	1	33	8							2 25
GUADALAJARA	6.66	309.5	2	41	60							3 29
MERIDA	8.95	59.1	2	38	25	4	2	6				5 50
CHIHUAHUA	14.27	329.2	3	30	5							

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LITTLE ROCK	18.86	14.1	4	22	-2	7	55	3			
TUCSON	19.62	325.4	4	34	1	8	18	9			
TUCSON TELE.	19.63	325.8	4	34	1				5	17	
FAYETTEVILLE	19.78	8.7	3	32A	-62	8	0	-12			
LAWRENCE	22.50	5.3	5	1	-1						
GALERAZAMBA	22.64	101.7				9	23	15			
ST. LOUIS 1	23.04	15.3	5	6K	-2	9	20	5			
COLUMBIA	23.06	37.8	5	4	-4	9	27	12			
FLORISSANT	23.16	15.0	5	8	-1	9	24	7			
CHINCHINA	24.61	115.3	5	24	1	9	58	16			
PASADENA	25.35	317.7	5	32	2				10	11	
CHAPEL HILL	25.57	37.3	5	30	-2						
LARAMIE	25.61	346.4	5	33	0						
BOGOTA	26.13	114.2	5	40	3	10	14	6			
SALT LAKE C.	27.06	336.1	5	34	-12				5	56	
MORGANTOWN	27.82	30.5	5	52	-1						
EUREKA	27.83	328.9	5	53	0						
RAPID CITY	27.87	351.7	5	53	0						
LICK	29.54	319.3	6	9K	1				7	1	
RENO	29.90	324.5	6	13K	1						
SAN JUAN	30.29	81.7	6	13	-2						
BOZEMAN	31.12	341.9	6	23	1						
BUTTE	31.90	340.4	6	29	0						
PALISADES	31.99	35.4	6	29	-1	11	57	16			
SHASTA	32.14	323.6	6	24	-7						
OTTAWA	34.26	28.1	6	48	-2						
HUNGRY HORSE	34.43	340.8	6	50	-1						
HUANCAYO	36.05	140.5	7	6	1				9	11	PCP
SHAWINIGAN	36.48	29.5	7	9	0						
PENTICTON	37.22	336.3	7	14	-1						
BANFF	37.38	341.6	7	14	-2						
SEVEN FALLS	37.82	30.4	7	21	1						
HALIFAX	40.18	38.5	7	40	0						
LA PAZ	43.97	136.8	8	9	-1						
RESOLUTE	58.21	0.9	9	55A	-3						
COLLEGE	58.76	337.5	10	1	-1						
ISFJORD	78.29	11.4	11	42	-21						
FOLINIÈRE	82.51	41.4	12	26	0						
KIRUNA	84.91	19.6	12	37	-1						
UPPSALA	87.97	27.1	12	51	-2						
TAMANRASSET	95.50	64.4	13	27	-1						
QUETTA	131.33	17.6	19	15	1						
MUNDARING	145.52	237.2	19	46	6						

MARCH 22 2.H 31.M 19.S EPICENTRE -61.24 154.42 DEPTH= 0.KM

A=-0.43620 B= 0.20884 C=-0.87528 D= 0.4318 E= 0.9020  
G= 0.7895 H=-0.3780 K=-0.4836 HT= -9.3

SE= 2.95

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
TERRE ADELIE	7.98	219.9	1	58	-2						4	19
CAPE HALLETT	12.67	157.7	3	2K	-2							
SCOTT BASE	17.16	171.2	4	0	-2							
ROXBURGH	18.05	35.7	4	13A	0	7	35	2				
FORT NELSON	18.83	343.7	4	26	-3	7	57	6				
WILKES	19.70	236.1	4	36	3	8	7	-3				
GEBBIES PASS	20.65	40.0	4	42	-1							
KAIMATA	21.36	36.4	4	51	0							
COBB RIVER	23.07	37.3	5	10	2						9	37
WELLINGTON	23.51	41.1	5	14	2	9	44	21			7	47
MELBOURNE	24.17	341.5	5	19A	1	9	41	7	5	29	10	22
CHATEAU	25.65	40.3	5	32	-1						5	53
CANBERRA	26.17	349.9	5	37K	0	10	17	9				
KARAPIRO	26.81	39.2	5	42	-1							
RIVERVIEW	27.51	354.1	5	50A	0	10	39	9			6	32
ADELAIDE	28.14	331.9	5	55K	0	10	45	5			16	39
SOUTH POLE	28.92	180.0	6	2	0						6	48
BYRD STATION	29.81	159.5	6	12	2							PP
BRISBANE	33.86	357.4	6	45	-1	12	5	-5				
MUNDARING	38.36	302.1	7	23	-1	13	33	14				
PERTH	38.53	301.7	7	35	10	13	34	12			16	18
NOUMEA	39.80	17.6	7	36	0						14	52
CHARTERS TS.	41.51	348.4	7	50	0	14	4	-3				



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PORT MORESBY	52.02	350.9	9 13	0	16 45	9		
RABAU	56.93	357.3	9 47	-2				
LEMBANG	64.39	306.6	10 40K	0	19 25	7		
HERMANUS	77.94	216.6					22 17	
SANTA LUCIA	78.79	142.9	12 8	2	22 34	31	12 37	23 26 PS
MANILA	80.17	327.3	12 7	-6				15 10 PP
KIMBERLEY	81.49	223.1	12 20	0				
PORT BLAIR	87.21	300.3			23 44	16		
BULAWAYO	88.07	229.7	13 0	7			13 23	
COLOMBO	88.65	286.8			23 42	0		
HONG KONG	89.33	323.2	12 45	-14	23 58	10		29 7 SS
WINDHOEK	89.69	218.8	13 4	3				
KIPAPA	90.79	43.5	13 0	-6			13 16	
KODAIKANAL	92.69	286.3					17 32	
LA PAZ	95.44	139.3	13 29	2	25 15	72		24 26 SKS
KUNMING	95.60	314.4	17 22	777			18 32	
ZO-SE	95.91	331.8	17 9	777				
WUHAN	97.01	326.1	16 49	777				
NANKING	97.39	330.1	17 35	777				
TUKUBASAN	97.82	348.4					30 56 SS	
MATUSIRO	98.33	346.9			25 20	62	32 5	SS
CHENG TU	100.28	317.6	17 53	777				
BOMBAY	102.41	286.5					32 53	
CHANGCHUN	107.35	338.4	19 2	777				
DEHRA DUN	109.94	296.6			25 28	16	21 35	
ULAN-BATOR	115.34	326.7	19 34	51				
PASADENA	118.10	69.9	19 5	16				
TUCSON TELE.	120.05	77.0	18 53	1				
NAMANGAN	121.71	298.0	20 27	91				
EUREKA	123.49	68.1	18 59	0				
YAKUTSK	124.37	346.2	19 20	19				
BOZEMAN	130.61	67.0	19 20	7				
HUNGRY HORSE	131.36	62.7	19 15	1				
COLLEGE	132.95	29.6	19 24	7			23 16	PKS
RAPID CITY	132.96	74.1	19 32	15				
MAKHACH-KALA	134.25	281.4	20 21	61				
TAMANRASSET	135.98	223.3	19 23	0				
PALISADES	144.64	102.4	19 51	13			23 21	PKS
BUCHAREST	145.63	264.8	19 51	11				
MESSINA	145.69	246.9	19 43	3			28 28	
OTTAWA	147.09	95.5	19 43	1				
MOSCOW	147.68	289.2	19 46	3				
SETIF	148.22	232.2	19 50	6				
SHAWINIGAN	149.34	96.8	19 49	3				
ALGIERS UNI.	149.60	229.5	19 59	13			20 12	PKP2
LWOW	150.44	270.1	19 54	6			20 38	
SEVEN FALLS	150.68	97.9	19 53	5				
KHEYS	150.72	340.5	19 54	6				
RESOLUTE	152.77	32.9	19 49	-2				
TOLMEZZO	153.30	253.9	20 22	30				
PRUHONICE	155.11	261.4	20 19K	25			21 54	
NURMI JARVI	156.02	290.6	20 18	23			20 44	
COLLMBERG	156.73	262.3	20 28	32			21 34	
STUTTGART	156.76	253.4	20 1	4			20 33	PKP2
BESANCON	157.14	246.6	20 8	11			20 35	
JENA	157.16	260.1	20 14	17			23 19	
SODANKYLA	157.18	307.9	20 27	30				
STRASBOURG	157.32	251.3	20 14	17				
HALLE	157.36	261.6					20 35	PKP2
UPPSALA	158.99	285.4	20 37	38				
KIRUNA	159.60	308.4	20 38	38				
UCCLE	160.46	251.2	19 58	-3				
GOTEBORG	160.78	276.2	20 44	43				

MARCH 22 10.H 22.M 58.S EPICENTRE 39.29 143.52 DEPTH= 0.KM

A=-0.62399 B= 0.46138 C= 0.63068 D= 0.5945 E= 0.8041  
G=-0.5071 H= 0.3750 K=-0.7760 HT= -1.4

SE= 4.03

	DELTA		P			S			*PP		SUPP.	
	DEG.	DEG.	M	S	O-C	M	S	O-C	M	S	M	S
MIYAKO	1.25	287.2	0	24	0	0	38	-4				
MIZUSAWA	1.86	265.8	0	32	-1	0	53	-5				
MORIOKA	1.86	283.4	0	33A	0	0	52	-6				

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ISINOMAKI	1.92	244.1	0 33A	-1	0 53	-6				
HATINOHE	1.97	309.6	0 34	-1	0 52	-8				
SENDAI	2.29	244.4	0 38A	-1	1 5	-3			1 1	
AOMORI	2.60	306.9	0 37	-7	1 7	-9				
AKITA	2.68	280.3	0 43	-2	1 20	2				
YAMAGATA	2.69	248.3	0 43	-2	1 17	-2				
HUKUSIMA	2.84	238.2	0 45	-2	1 18	-5				
SAKATA	2.90	263.4	0 52	4	1 24	0				
URAKAWA	2.91	349.1	0 35	-13	1 5	-19				
HIROO	2.99	357.1	0 51	2	1 27	1				
ONAHAMA	3.12	222.3	0 46	-5	1 31	2				
HAKODATE	3.28	321.0	0 55	2	1 36	2			1 24	
SHIRAKAWA	3.38	231.2	0 53	-2	1 30	-6				
MURORAN	3.59	328.3	1 5	7	1 46	5				
MORI	3.59	322.3	1 0	2	1 43	2				
OBHIRO	3.63	356.3	1 10	12						
TOMAKOMAI	3.65	336.9	1 8	10	1 53	10				
KUSIRO	3.75	9.9	1 3	3	1 45	0				
NIIGATA	3.76	250.1	1 6	6	1 55	9				
MITO	3.78	220.7	0 58	-2	1 38	-8				
UTUNOMIYA	3.98	227.7	1 3	0	1 45	-6				
KAKIOKA	4.04	221.9	1 0	4					2 4	
TUKUBASAN	4.09	222.6	0 49K	-16						
SAPPORO	4.12	337.3	1 14	9	2 6	11				
TYOSI	4.15	211.6	1 6	0					2 8	
SUTTSU	4.30	325.7	1 21	13	2 28	29			2 0	
AIKAWA	4.32	254.6	1 8	0						
NEMURO	4.32	20.4	1 9	1	1 57	-3			1 32	
KUMAGAYA	4.54	227.6	1 10	-1	2 15	10				
MAEBASI	4.55	232.1	1 12A	1	2 1	-5				
ASAHI GAWA	4.57	349.5	1 16	4						
HONGO	4.65	221.0	1 12	-1	1 59	-9				
TOKYO C.M.O.	4.69	220.9	1 10	-3	2 8	-1				
TAKADA	4.69	243.9	1 12	-1						
ABASHIRI	4.76	6.6	1 15	1	2 10	-1				
TITIBU	4.83	228.2	1 13	-2	2 19	6				
OIWAKE	4.92	234.6	1 14	-3						
YOKOHAMA	4.93	219.9	1 19	2					2 8	
NAGANO	4.95	239.8	1 17A	0	2 32	16				
MATUSIRO	5.02	238.5	1 16	-2					2 11	
MERA	5.26	215.2	1 30	9	2 42	18				
MATUMOTO	5.34	237.1	1 22	-1	2 35	9				
KOHU	5.35	229.0	1 20	-3	2 20	-6				
AJIRO	5.51	221.2	1 32	7					2 20	
MISIMA	5.53	222.6	1 28	3	2 40	10				
WAZIMA	5.54	252.0	1 20	-5						
OSIMA	5.60	217.6	1 28	2						
TAKAYAMA	5.88	239.7	1 30	0						
IIDA	5.89	232.0	1 38	8	2 49	10				
SHIZUOKA	5.94	225.1	1 38	7					2 33	
WAKKANAI	6.28	348.1							2 32	
OMAESAKI	6.32	223.8	1 50	14						
HAMAMATU	6.51	227.3			2 42	-13			3 23	
GIHU	6.63	236.3	1 38	-3	2 56	-2				
NAGOYA	6.65	233.8	1 49	8	3 11	13				
TSURUGA	6.95	240.8	1 44	-1	3 19	13				
HIKONE	7.05	237.6	1 46	-1	3 27	19				
KAMEYAMA	7.17	234.0	1 56	8	3 35	24				
MAIZURU	7.51	242.0	1 54	1	3 33	13				
KYOTO	7.54	238.0	1 51	-2	3 27	6				
NARA	7.68	235.6	1 55	0	3 36	12				
ABUYAMA	7.73	237.7	1 53K	-3						
Y. -SAKHLINSK	7.75	355.9	1 58	2	3 22	-4				
OSAKA	7.89	236.6	2 12	14					4 32	
SUMOTO	8.49	237.1	2 13K	6					3 48	
UGLEGORSK	9.84	354.4	2 37	12						
CHANGCHUN	14.36	294.3	3 24	-2						
ZO-SE	19.97	252.7	4 33	-4						
MAGADAN	20.80	10.5	4 46	1						
PEKING	21.04	280.8	4 41A	-6	8 26	-12				
NANKING	21.31	257.9	4 45	-5						
YAKUTSK	24.28	344.1	5 18	-1						
WUHAN	25.22	258.6	5 27A	-1						
PAOTOW	25.63	283.7	5 30	-2						
ULAN-BATOR	27.67	300.2	5 49	-2						
SIAN	28.06	270.6	5 52	-3						
LANCHOW	31.41	276.8	6 21	-3						
CHENG TU	33.29	267.3	6 37	-4						

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KUNMING	36.97	259.9	7 10A	-2	
LHASA	43.80	273.9	8 9	0	
SHILLONG	45.12	268.4	8 14	-5	
COLLEGE	46.30	33.4	8 23	-6	
CHITTAGONG	46.86	264.6	8 11	-22	
ANDI JAN	53.09	295.9	9 20	-1	
SVERDLOVSK	54.57	318.0	9 31	-1	
STALINABAD	56.52	294.9	9 43	-3	
APATITY	61.32	335.7	10 17	-2	
QUETTA	61.87	287.2	10 21	-2	
SODANKYLA	63.53	337.3	10 33	-1	
KIRUNA	65.00	339.5	10 43	-1	
CORVALLIS	65.77	51.5	11 42A	53	
MOSCOW	66.43	323.6	10 50	-3	
PULKOVO	67.09	329.7	10 55	-2	
SHASTA	68.43	54.6	11 10	5	
NURMIJARVI	68.73	332.3	11 6	-1	
HELSINKI	68.85	331.9	11 7	-1	
HUNGRY HORSE	69.01	44.2	11 0	-9	
UPPSALA	71.65	334.5	11 24	-1	
SHIRAZ	72.63	294.2	11 29K	-2	
EUREKA	73.15	52.7	11 17	-17	1 35
GOTEBORG	75.18	335.4	11 43	-3	
LWOW	76.52	324.6	11 53	0	
RAPID CITY	77.52	42.7	12 1	2	
SKALNATE PL.	78.67	326.0	11 57	-8	
COLLMBERG	79.96	331.0	12 12	0	12 26
PRUHONICE	80.41	329.4	12 15A	1	
JENA	80.79	331.5	12 16	0	12 26
TUCSON TELE.	80.95	55.6	12 24	7	
STUTT GART	83.41	331.5	12 30	0	
BASLE	85.07	331.8	12 38	0	
FAYETTEVILLE	88.05	43.2	11 55	-58	
TAMANRASSET	106.83	319.8			18 42 PP
BYRD STATION	129.60	167.0	19 12	1	

MARCH 22 13.H 19.M 46.S EPICENTRE 18.84-105.14 DEPTH= 101.KM

A=-0.24730 B=-0.91420 C= 0.32105 D=-0.9653 E= 0.2611  
G=-0.0838 H=-0.3099 K=-0.9471 HT= 4.9

DEPTH OF FOCUS= 0.011R

SE= 2.58

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S		
GUADALAJARA	2.50	42.8	0	38	-2							
TACUBAYA	5.64	83.4	1	21	-2	2	32	5				
PUEBLA	6.57	87.3	1	35	-1							
VERA CRUZ	8.53	86.2	2	4	2					2	44	
CHIHUAHUA	9.78	355.1				4	31	23		4	9	
TUCSON	14.30	340.1	3	18	-1							
TUCSON TELE.	14.35	340.6	3	18	-1					4	23	
PASADENA	19.16	325.3	4	15	-3					8	0	
FAYETTEVILLE	19.71	27.1	3	22A	-62	9	47	1'2				
LAWRENCE	21.81	21.1	4	44	-1	8	56	21				
FRESNO	22.02	327.2	4	46	-1							
LARAMIE	22.40	359.1	4	51	0							
EUREKA	22.60	337.8	4	52	-1							
SALT LAKE C.	22.60	346.6	4	55	2							
VINEYARD	22.84	324.6	4	59	4							
LICK	23.42	325.3	5	0A	-1					6	28	
ST. LOUIS I	23.60	30.2	5	2A	0							
FLORISSANT	23.66	29.8	5	3	0							
BERKELEY	24.14	325.3	5	8	0	9	34	19				
RENO	24.21	331.5	5	10K	2							
RAPID CITY	25.21	3.3	5	20	2							
UKIAH	25.57	326.0	5	24	3							
SHASTA	26.34	329.5	5	26	-2							
BOZEMAN	27.20	350.9	5	37	1							
CORVALLIS	29.81	333.4	6	0K	0							
HUNGRY HORSE	30.31	348.2	6	3	-1							
CHINCHINA	31.93	111.9	6	29	11							
PENTICTON	32.56	342.3	6	23	-1							
BANFF	33.29	348.0	6	29	-1							
BOGOTA	33.46	111.1	6	50	19	12	0	16				

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FORDHAM	34.59	43.9	6 41	-1					
PALISADES	34.64	43.6	6 42	1	12 24	21			7 54 PP
SAN JUAN	36.93	84.3	7 2	1					
BERMUDA	38.66	61.5			13 24	20			8 51 PP
LA PAZ	50.59	131.6	8 47	-3	15 4	-52			
COLLEGE	54.01	339.0	9 16	0					10 21 PCP
RESOLUTE	56.13	3.3	9 28	-3	17 21	10			
THULE	60.59	9.4	10 4	2					
NORD	71.26	8.9	11 7	-3					
QUETTA	130.67	9.0	19 3	4					

MARCH 22 20.H 24.M 45.S EPICENTRE 13.03 -44.43 DEPTH= 0.KM

A= 0.69591 B=-0.68231 C= 0.22396 D=-0.7001 E=-0.7140  
G= 0.1599 H=-0.1568 K=-0.9746 HT= 6.1

SE= 2.42

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
BARBADOS	14.78	272.1	3	32	0							
FORT FRANCE	16.32	277.9	3	52	0							
DOMINICA	16.61	279.8	3	56	0							
MBOUR	26.71	83.9	5	42	-1							
BOGOTA	30.42	256.7	6	22	6	1	23	6				
CHINCHINA	31.79	258.3	6	25	-4							
LA PAZ	37.54	219.3	7	18	0	13	7	-1				
PALISADES	37.96	322.7				13	24	-13			15	52
HUANCAYO	39.50	232.2	7	31	-3							
SHAWINIGAN	41.05	330.1	7	48	1							
TAMANRASSET	48.32	71.1	8	46	1	15	36	-9			10	47 PP
FOLINIERE	50.79	36.3	9	6	2							
STUTTGART	56.67	39.7	9	45	-3	17	52	13				
RAPID CITY	58.70	313.8	10	1	-1							
LJUBLJANA	59.29	44.0	10	7	1							
COLLMBERG	59.76	37.8	10	9	0						11	9
PRUHONICE	60.31	39.6	10	13K	0							
GOTEBORG	61.42	30.6	10	19	-2							
BRATISLAVA	61.49	42.0	10	17	-4							
TUCSON TELE.	63.19	299.7	10	32	0							
THULE	64.64	353.9	10	42	0							
LWOW	66.27	41.2	10	57K	5							
HUNGRY HORSE	66.83	317.1	10	54	-2							
EUREKA	67.62	307.4	11	0	-1							
KIRUNA	68.63	21.7	11	6	-1							
PASADENA	69.42	301.7	11	19	7							
BROKEN HILL	77.17	108.3	12	0	2							
KIMBERLEY	78.67	123.1	12	5	-1							
COLLEGE	83.91	335.3	12	33	0							
SHIRAZ	89.57	59.8	13	2A	1							

MARCH 23 0.H 23.M 23.S EPICENTRE 39.70 143.14 DEPTH= 0.KM

A=-0.61733 B= 0.46284 C= 0.63615 D=0.5999 E= 0.8001  
G=-0.5090 H= 0.3816 K=-0.7716 HT= -1.6

SE= 3.61

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MIYAKO	0.90	267.5	0	18A	-2	0	39	5				
HATINOHE	1.49	304.5	0	30A	2	1	5	16				
MORIOKA	1.52	270.8	0	30A	1	1	4	15			0	51
MIZUSAWA	1.66	250.7	0	32	1	0	53	0				
ISINOMAKI	1.90	228.8	0	32A	-2	1	9	10				
AOMORI	2.13	302.6	0	39A	2	1	20	15			1	2
SENDAI	2.25	231.5	0	38A	-1	1	9	1			1	3
AKITA	2.34	271.6	0	43A	3							
URAKAWA	2.47	353.8	0	45A	3	1	18	5				
HIROO	2.59	3.0	0	44	0	1	33	17			1	19
YAMAGATA	2.61	237.3	0	45	1	1	24	7				
SAKATA	2.69	253.9	0	51	6	1	37	18				
HAKODATE	2.78	320.2	0	49A	2	1	29	8			1	49

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HUKUSIMA	2.85	227.9	0 45A	-3	1 25	2				
MURORAN	3.09	328.8	0 53	2	1 40	11			1 16	
MORI	3.09	321.8	0 55A	4	1 36	7				
TOMAKOMAI	3.16	338.6	0 57	5					1 59	
ONAHAMA	3.26	213.4	0 50	-3	1 39	5				
KUSIRO	3.42	15.7	0 54	-2	1 36	-2				
SHIRAKAWA	3.45	222.6	0 56	0	1 43	5				
SAPPORO	3.63	338.8	1 0A	1	1 53	10				
NIIGATA	3.65	242.3	1 0	1	1 48	4			2 19	
SUTTSU	3.80	325.7	1 3	2	2 1	14			1 43	
MITO	3.92	213.3	1 1	-2	1 55	5				
UTUNOMIYA	4.06	220.4	1 1	-4					2 12	
NEMURO	4.07	26.0	1 2	-3	1 47	-7				
ASAHIGAWA	4.12	352.2	1 7	1	2 3	8				
AIKAWA	4.17	247.9	1 6A	0	2 12	15				
KAKIOKA	4.18	215.0	1 4	-3	2 3	6				
TUKUBASAN	4.22	215.6	1 2K	-5						
TYOSI	4.36	205.3	1 4K	-5	2 2	0				
ABASHIRI	4.40	10.8	1 8	-2	2 1	-2				
MAEBASI	4.60	225.6	1 11A	-1	2 14	7			1 50	
KUMAGAYA	4.62	221.2	1 11	-2					2 43	
TAKADA	4.63	237.5	1 15	2	2 20	12				
HONGO	4.79	214.9	1 10	-5	2 0	-12				
TOKYO C.M.O.	4.83	214.9	1 11	-5	2 13	0			1 29	
TITIBU	4.91	222.2	1 14	-3					2 31	
NAGANO	4.93	233.7	1 17A	0	2 29	13				
OIWAKE	4.94	228.6	1 18	1						
MATUSIRO	5.00	232.5	1 17A	-1					2 20	
YOKOHAMA	5.08	214.2	1 20	1	2 22	2				
MATUMOTO	5.34	231.5	1 21	-2	2 37	11				
WAZIMA	5.41	246.7	1 25	1	3 3	35				
KOHU	5.42	223.5	1 23	-1	2 45	17				
HUNATU	5.44	221.0	1 22	-2	2 33	4				
NERA	5.45	210.0	1 23	-2	2 40	11				
TOYAMA	5.55	239.3	1 25	-1	3 13	42			1 37	
AJIRO	5.64	216.0	1 3	-24					1 37	
MISIMA	5.65	217.4	1 24	-3	2 41	7				
OSIMA	5.76	212.5	1 26	-3	1 55	-42				
WAKKANAI	5.82	349.8	1 35	5	2 45	7				
TAKAYAMA	5.85	234.6	1 29	-1	3 6	27				
IIDA	5.93	227.0	1 37	6	3 5	24				
SHIZUOKA	6.04	220.1	1 35	2	2 55	11				
NAGATURO	6.13	215.3	1 47	13					3 8	
OMAESAKI	6.43	219.2	1 41	3	3 12	19				
KURILSK	6.54	30.8	1 37	-3	2 56	0				
HUKUI	6.57	238.5	1 41	1	3 21	24				
HAMAMATU	6.58	222.7	1 46	5	2 39	-18				
GIHU	6.63	231.7	1 39A	-2	3 5	7				
NAGOYA	6.67	229.3	1 45	3	3 9	10			2 47	
TSURUGA	6.91	236.4	1 46	1	3 25	20				
HIKONE	7.04	233.3	1 46	-1					3 49	
HATIDYOZIMA	7.11	203.3	1 52	4					3 2	
KAMEYAMA	7.19	229.8	1 49	0	3 24	12				
TU	7.26	228.7	2 4	14						
Y.-SAKHLINSK	7.33	357.7	1 50	-1						
MAIZURU	7.46	238.0	1 54	1	3 35	16				
KYOTO	7.52	234.0	1 53	-1	3 41	20				
NARA	7.69	231.6	1 55	-1	3 31	6				
ABUYAMA	7.72	233.8	1 56A	0						
TOYOOKA	7.80	240.4	1 56	-2	3 42	14				
OSAKA	7.89	232.7	2 4	5	3 54	24			3 33	
OWASE	7.90	226.9	2 1	2	3 51	21				
KOBE	8.09	234.2	2 6	4	3 37	2				
WAKAYAMA	8.39	231.9	2 12	6	3 59	17				
SUMOTO	8.48	233.5	2 12	5	3 57	12			2 48	
SAIGO	8.50	248.8	1 51	-16					3 51	
SIOMISAKI	8.60	225.8	2 9	0	3 54	6			4 24	
HIMEJI	8.69	236.1	2 10	0	4 7	17				
TOKUSIMA	8.86	233.3	2 12	0	3 53	-1			2 32	
YONAGO	8.86	244.3	2 13	1	3 59	5				
OKAYAMA	8.90	238.6	2 16	3	4 16	21				
TAKAMATU	9.03	236.4	2 15	0	4 20	22				
MATSUE	9.05	245.2	2 6	-9	4 27	23				
VLADIVOSTOK	9.11	295.7	2 18	2	4 4	4				
UGLEGORSK	9.41	355.7	2 19	-1						
TORISIMA	9.48	195.0	2 26	5	4 28	18			3 49	
MUROTO	9.66	231.0	2 30	7	4 30	16			5 10	
KOTI	9.86	234.5	2 25	-1	4 29	10				

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HAMADA	10.03	245.0	2 29	0	4 46	23		
HIROSIMA	10.07	241.5	2 36	7	4 31	7		
MATUYAMA	10.16	238.1	2 29	-1	4 45	19	3 28	
UWAZIMA	10.69	236.2	2 32	-6	5 10	31	3 3	
SIMIDU	10.72	233.1	2 35	-3	5 12	32	5 44	
OOITA	11.29	238.7	2 45K	-1			3 19	
SIMONOSEKI	11.34	243.4	2 52	6	5 10	15		
ASOSAN	11.86	238.9	3 2	9	5 16	8		
HUKUOKA	11.92	243.2	2 57A	3	5 20	11		
KUMAMOTO	12.15	239.5	2 57	0	5 54	39	6 40	
SAGA	12.17	242.1	3 9	11			6 31	
MIYAZAKI	12.27	234.4	2 57	-2	5 27	9		
ITUHARA	12.37	248.0	3 1	1	5 26	6		
UNZENDAKE	12.51	240.2	3 2	0	5 34	10		
NAGASAKI	12.76	241.1	3 8A	2	5 55	25		
KAGOSIMA	13.05	235.5	3 8	-1			6 49	
TOMIE	13.58	243.1	3 16	0	7 14	85		
YAKUSIMA	13.85	232.1	3 17	-3			7 21	
OKHA	13.86	359.5	3 23	3	6 1	5		
CHANGCHUN	13.93	293.0	3 20A	-1				
PETROPAVLOVK	17.04	33.5	4 5	4	7 13	2	4 12 PP	
ZO-SE	19.81	251.1	4 30A	-5				
KLYUCHI	20.33	29.2	4 42	1	8 24	0		
MAGADAN	20.46	11.2	4 40	-2	8 25	-2		
PEKING	20.68	279.6	4 41A	-3				
NANKING	21.12	256.4	4 49	0				
TAIPEI	23.31	237.6	5 8	-3	9 26	6		
ILAN	23.34	236.8	5 13	2	9 14	-7		
YAKUTSK	23.81	344.3	5 12	-3	9 24	-5		
HSINCHU	23.83	238.1	5 35	19				
HWALIEN	23.99	235.6	5 23	6	9 59	27		
TAICHUNG	24.47	237.4	5 49	27				
HSINKONG	24.78	234.6	5 36	11	9 55	10		
ALISHAN	24.84	236.2	5 57	32	10 27	41		
WUHAN	25.02	257.4	5 25A	-2	9 44	-5		
TAITUNG	25.17	234.4	5 27	-2	9 56	4		
PAOTOW	25.25	282.7	5 26A	-3				
TAINAN	25.58	236.2	5 43	11	10 13	14		
TAWU	25.62	234.1	5 41	8	10 13	14		
KAHSIUNG	25.82	235.5	5 46	11				
HENGCHUN	25.97	233.8	5 37	1	10 36	31		
GUAM	26.17	176.5	5 39	1	10 12	3		
ULAN-BATOR	27.21	299.6	5 47	0	10 27	1		
IRKUTSK	29.39	308.3	6 6A	-1				
HONG KONG	30.10	243.4	5 58	-15	10 39	-33		
CANTON	30.16	245.6	6 7A	-7	11 1	-12		
BAGUIO CITY	30.40	226.7	6 19	3	11 27	10		
LANCHOW	31.07	275.9	6 20	-2				
MANILA	31.55	224.0	6 29	3	11 49	14		
TIKSI	32.82	351.7	6 35	-2				
CHENG TU	33.01	266.4	6 36A	-3				
KUNMING	36.75	259.1	7 9A	-2				
TOCKLAI	42.00	267.2	7 58	3				
LHASA	43.48	273.3	8 7A	0				
RABAU	44.46	167.1	8 9	-6	14 38	-12	8 33	
SHILLONG	44.84	267.7	8 11A	-7	14 57	1	9 56 PP	
COLLEGE	46.12	33.6	8 28	0	15 17	3		
CHITTAGONG	46.61	264.0	8 34A	2	15 26	5	10 24 PP	
CHATRA	47.82	272.2	8 40	-1	15 44	6		
PORT MORESBY	48.99	174.8	8 51	1	15 54	-1		
KHEYS	50.33	347.7	9 0	-1				
BOKARO	50.44	269.7	9 3A	2	16 26	11	11 3 PP	
PORT BLAIR	52.45	252.2	9 17	0	16 52	10	9 37 PCP	
KIPAPA	52.92	91.9	9 16	-4				
HONOLULU	52.92	92.1	9 19	-1	16 55	6	20 41 SS	
DEHRA DUN	53.09	281.2	9 20	-1	17 0	9	11 36 PP	
SITKA	53.50	42.3	9 27	3				
SVERDLOVSK	54.08	317.7	9 27	-2			10 30 PCP	
AGRA	54.70	277.8	9 37A	4	17 19	6	11 40 PP	
LAHORE	55.30	284.5	9 34	-4			11 44 PP	
WARSAK DAM	56.18	288.4	9 42	-2	17 43	10		
DJAKARTA	56.62	224.8	9 50	3	17 44	5		
LEMBANG	56.74	223.6	9 45	-3	17 39	-1		
SEHORE	57.52	274.4	9 45	-9				
NORD	58.48	356.6	10 5	5	18 9	6		
ISFJORD	58.67	349.2	9 57	-5				
CHARTERS TS.	59.54	176.6	10 1	-7	18 3	-14		
RESOLUTE	59.69	15.1	10 4	-5	18 17	-2		
HYDERABAD	59.72	268.0	10 8	-1	18 17	-2	12 24 PP	



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APATITY	60.83	335.5	10 14K	-2	18 27	-6	12 31	PP
MADRAS	61.05	262.8	10 18	0	18 48	12	12 37	PP
QUETTA	61.47	286.8	10 19A	-2	18 54	13	12 39	PP
PORT VILA	61.77	152.6	10 30	7	18 48	3		
ALBERNI	62.44	47.6	10 32	5				
THULE	62.45	8.0	10 22	-5				
POONA	62.62	272.0	10 26A	-3	19 6	10	12 43	PP
SODANKYLA	63.04	337.1	10 28	-3			19 10	PS
KOUMAC	63.11	157.7	10 30	-2	19 2	0		
BOMBAY	63.20	272.9	10 29	-3	19 10	7	14 54	PCS
HORSESHOE B.	63.26	46.9	10 32	-1				
VICTORIA	63.62	47.8	10 35	0				
KARACHI	64.27	281.7	10 40A	1				
KIRUNA	64.51	339.3	10 38	-3				
KODAIKANAL	64.84	262.3	10 59	16	19 46	22	15 1	PPP
PENTICTON	65.33	45.6	10 42	-4				
NOUMEA	65.40	156.2	10 52	5	19 34	3		
CORVALLIS	65.75	51.5	10 49	0				
MOSCOW	65.93	323.3	10 48	-2			11 14	PCP
SUVA	66.30	143.1			19 49	7	12 49	
BANFF	66.49	42.3	10 54	0				
PULKOVO	66.59	329.5	10 52	-2			11 26	PCP
ARCATA	67.27	55.2	10 59	0				
BRISBANE	67.34	170.7	10 59	0	19 55	1		
AFIAMALU	67.85	132.1	11 5K	3	20 5	5	21 8	SCS
NURMIJARVI	68.24	332.1	11 2	-3	20 13	8	13 42	PP
HELSINKI	68.36	331.7	11 3	-2	20 13	7		
SHASTA	68.44	54.6	11 3	-3				
UKIAH	68.79	56.4	11 11	3				
HUNGRY HORSE	68.92	44.2	11 7	-2	20 18	5	39 20	PKPPKP
MINERAL	69.13	54.5	11 14	4				
SCORESBY SD.	69.60	354.7	11 14	1	19 57	-24	20 12	PS
SKALSTUGAN	69.93	338.9	11 14	-1				
SAN FRANCISCO	70.06	57.2	11 15	-1				
BERKELEY	70.13	57.0	11 14K	-2	20 19	-8	11 23	SP
TIFLIS	70.25	308.1	11 16	-1			13 42	PP
GORIS	70.60	305.5	11 18	-1			21 17	SCS
RENO	70.72	54.4	11 22	2				
LICK	70.84	57.2	11 21A	0	20 52	16		
BUTTE	71.12	45.5	11 21	-1	20 47	8		
UPPSALA	71.16	334.3	11 20	-3			13 55	
VINEYARD	71.35	57.5	11 27	3				
BOZEMAN	72.17	45.1	11 27	-2			11 49	
SHIRAZ	72.19	293.9	11 26K	-3	20 46	-5		
FRESNO	72.36	56.7	11 30	0				
EUREKA	73.14	52.6	11 32	-2				
RIVERVIEW	73.53	173.1	11 38A	1	21 9	3	11 54	PCP
SIMFEROPOL	74.37	315.8	11 40	-1			11 49	PCP
ADELAIDE	74.41	183.8	11 42	0	21 16	0	26 1	SS
BERGEN	74.44	339.8	11 37	-5	21 27	11	16 14	PPP
GOTEBORG	74.69	335.2	11 44	1			14 31	
SALT LAKE C.	74.81	49.5	11 41	-3	21 29	8		
CANBERRA	74.84	175.0	11 43	-1	21 11	-10	14 43	PP
PASADENA	75.00	58.1	11 44	-1	21 24	1	26 7	SS
MUNDARING	75.55	203.4	11 44	-4	21 29	0		
WARSAW	75.57	327.5	12 1	13	21 15	-14	14 30	PP
PERTH	75.65	203.7	11 53	4	21 44	14	27 13	SS
REYKJAVIK	75.84	353.3	11 52	2				
LWOW	76.02	324.3	11 49	-2	21 41	7	12 1	PCP
COPENHAGEN	76.15	333.7	11 49	-3	21 44	9		
IASI	76.22	320.7	11 58	6	21 22	-14	15 8	PP
BACAU	76.99	320.6	12 2	6	22 2	18	15 14	PP
MELBOURNE	77.17	178.5	11 57	0	21 47	1	26 49	SS
RAPID CITY	77.42	42.6	11 57	-2	21 50	1		
FOCSANI	77.45	319.8	12 13	14				
KRAKOW	77.65	326.5	12 0	0	21 57	5	14 55	PP
CHORZOW	77.87	327.1	11 52	-9			14 56	PP
LARAMIE	78.03	45.9	12 4	2			14 23	
SKALNATE PL.	78.17	325.7	12 4K	1	21 59	2	14 50	PP
RACIBORZ	78.36	327.4	12 4	0	22 3	4	12 20	PCP
POTSDAM	78.57	331.4	12 3	-2			15 9	PP
CAMPULUNG	78.83	320.6	12 19	13			15 14	PP
BUCHAREST	78.91	319.4	12 7K	0	22 3	-2	15 15	PP
ABERDEEN	79.15	341.6			22 18	10	27 26	SS
COLLMBERG	79.46	330.8	12 8	-2	22 20	9	15 24	PP
HALLE	79.69	331.4	12 9	-2	22 17	4	15 3	PP
ISTANBUL UN.	79.79	315.5	12 17	5				
PRAGUE	79.89	329.3	12 17	5	22 24	9	15 16	PP

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PRUMONICE	79.91	329.2	12 11K	-1	22 23	7				15 21	PP
BUDAPEST	79.99	325.2	12 13	0	20 57	-79					
HURBANOVO	80.05	325.9	12 16	3	22 18	1					
KECSKEMET	80.11	324.5	12 53	40					15 51	PP	
BRATISLAVA	80.29	326.7	12 10K	-4	22 22	2			15 10	PP	
JENA	80.29	331.3	12 12	-2	22 19	-1			15 24	PP	
TIMISOARA	80.30	322.9	12 16	2	22 38	18					
JENA	80.29	331.3	12 12	-2	22 19	-1			15 24	PP	
TIMISOARA	80.30	322.9	12 16	2	22 38	18					
ONERAHI	80.43	154.7	12 37	22							
PLAUEN	80.43	330.7	12 12	-3	22 13	-8			15 16	PP	
VIENNA-H.	80.53	327.1	12 15	-1	22 24	2			15 31	PP	
EDINBURGH	80.54	341.5							27 37		
CHEB	80.68	330.4	12 15	-1	22 33	9			15 31	PP	
KSARA	80.69	306.3	12 23	7	22 43	19			15 40		
MUNSTER	80.84	334.0	12 16	-1							
SONNEBERG	80.88	331.2	12 16	-1	22 32	6			15 17	PP	
TUCSON	80.95	55.6	12 19	1	22 24	-2			26 3		
TUCSON TELE.	80.96	55.4	12 18	0	22 33	6			38 4	PKPPKP	
DURHAM	81.17	340.2	12 14	-5					12 27	PCP	
BELGRADE	81.35	322.7	12 22A	2	22 45	14			15 35	PP	
DE BILT	81.53	335.3	12 32	11	22 41	8			28 7	SS	
SOFIA	81.54	319.7	12 22	1	22 48	15			15 39	PP	
BENSBERG	81.84	333.6	12 21	-1	22 43	7					
FORT NELSON	82.33	176.9	12 36	11	22 30	-11					
JERUSALEM	82.46	305.2	12 26A	0	23 2	20					
HEIDELBERG	82.60	331.9	12 25	-1							
ZAGREB	82.60	325.8	12 24K	-2	22 51	8			13 15		
KARAPIRO	82.78	154.7	12 27	0							
STUTTGART	82.92	331.3	12 27	-1	23 2	15			15 49	PP	
UCCLE	82.92	335.1	12 29	1	22 55	8					
LJUBLJANA	83.04	326.8	12 27A	-2					15 43	PP	
TUBINGEN	83.19	331.2	12 29	0	22 55	6					
TOLMEZZO	83.39	327.8	13 31	61	22 57	6			16 6	PP	
DOURBES	83.44	334.6	12 28	-3	22 51	-1					
EBINGEN	83.52	331.1	12 30	-1	23 2	9					
RAVENSBURG	83.61	330.5	12 30	-2	23 2	8					
STRASBOURG	83.63	332.0	12 31A	-1	22 53	-1					
RATHFARNHAM	83.68	342.1	12 36	4					16 1		
TRIESTE	83.69	326.9	12 31	-1	23 0	6			18 1	PPP	
KEW	83.77	338.0	12 30	-2	23 10	15			15 51	PP	
CHATEAU	83.93	155.2	12 32	-1							
CHUR	84.41	330.0	12 34	-2	23 5	3					
BASLE	84.58	331.5	12 37	0	23 12	9					
ATHENS	84.82	316.3	12 43A	5							
LAWRENCE	85.23	41.8	12 38	-2							
PARIS	85.24	335.1	12 38	-2	23 12	2					
NEUCHATEL	85.26	331.6	12 38	-2					23 9	SCS	
BESANCON	85.40	332.3	12 39	-2	22 57	-14					
LUBBOCK	85.53	49.4	12 44	3							
WELLINGTON	85.58	156.6	12 49	7	23 7	-6			22 49	SKS	
BOLOGNA	85.63	327.7	12 51	9	23 20	7					
PAVIA	85.94	329.3	12 49K	6	23 25	9					
OROPA	86.04	330.3	12 51	7	23 33	16					
HELWAN	86.20	306.1	12 43	-2	23 13	-6					
TARANTO	86.20	321.7	11 47	-58	23 27	8			18 27		
FOLINIERE	86.21	336.8	12 44	-1							
JERSEY	86.33	338.0	12 53	8	23 33	13					
CHIHUAHUA	86.41	55.4			23 29	8			16 11	PP	
CHIAVARI	86.59	328.7	12 40	-7	23 32	9			25 11	PS	
ROME	87.25	325.5	12 55	5			13 25		16 26	PP	
ISOLA	87.54	323.9	12 49	-2					16 0	PP	
CLERMONT-FD.	87.68	333.2	12 52	0	23 30	-3					
FLORISSANT	87.80	39.0			23 27	-7	12 58		23 5	SKS	
MONACO	87.83	329.6	12 51	-2					12 58	PCP	
FAYETTEVILLE	87.95	43.0	11 50	-63							
ROXBURGH	87.99	161.9	13 1	8	23 23	-13			24 33	PS	
ST. LOUIS 1	87.99	39.0	12 51	-2	23 28	-8	13 0		23 45		
SHAWINIGAN	88.33	23.9	12 54	-1							
OTTAWA	88.39	26.2	12 55	0							
SEVEN FALLS	88.41	22.4	12 58	3							
MESSINA	88.80	321.4	12 56	-1					16 29	PP	
REGGIO CALA.	88.83	321.2	12 56	-1	23 39	-5			16 38	PP	
CLEVELAND	89.57	31.9	13 8	7	23 54	3					
CUGLIERI	90.35	326.9	13 57	53	24 27	29					
PITTSBURGH	91.09	31.4							24 7		
PENNSYLVANIA	91.60	29.9	13 18	8	24 14	5			16 58	PP	
MORGANTOWN	91.78	31.9	13 14A	3							

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BARCELONA	91.82	331.7				24	23	12			18	52
WESTON	92.53	24.8	13	18A	4	24	25	8				
HALIFAX	92.68	18.8	13	15	0							
PALISADES	92.88	27.2	13	25	9	24	16	-4	14	10	23	54 SKS
TORTOSA	92.93	332.5	13	1	-15	23	50	-31				
FORDHAM	93.03	27.2	13	36	19	24	23	2				
WASHINGTON	93.55	30.3	13	27	8						16	23
GUADALAJARA	93.74	59.3				24	37	9			30	37 SS
LEON	94.52	57.9									31	1 SS
SETIF	95.04	326.9	13	28	2						17	16 PP
TOLEDO	95.32	335.2	13	28	1	24	46	43			17	26 PP
ALICANTE	95.47	332.1	13	26	-2	24	40	36			17	18 PP
ALGIERS UNI.	95.51	328.8	13	23	-5	23	59	-5			17	19 PP
SERRA PILAR	95.54	338.9	13	23A	-5	24	33	29			17	16 PP
COLUMBIA	96.07	35.6	13	41	10							
TACUBAYA	97.36	57.5									18	6
RELIZANE	97.38	330.1									17	18 PP
ALMERIA	97.52	332.8	13	31	-6	24	44	29			31	54 SS
GRANADA	97.61	333.8									17	37 PP
LISBON	97.94	338.5				24	37	20			17	37 PP
VERA CRUZ	99.48	55.4	13	47	1	24	25	0			18	9 PP
OAXACA	100.66	57.4									32	39 SS
BERMUDA	103.79	24.0				26	1	9			18	1 PP
COMITAN	104.20	54.5				26	5	10			33	25 SS
TAMANRASSET	106.33	319.6	14	8	777	25	6	9			18	31 PP
WILKES	108.65	193.3				25	15	8			34	1 SS
LWIRO	110.03	284.3	14	42A	777	25	24	12				
CAPE HALLETT	113.31	171.3	16	12	777	25	37	11			19	37 PP
BROKEN HILL	118.02	274.3	18	51	2							
BULAWAYO	121.25	268.9	18	54	-1							
FORT FRANCE	121.31	27.8									20	57 PP
CARACAS	122.79	35.9									20	47 PP
CHINCHINA	123.00	48.1	19	6	7	26	0	0			20	49 PP
MBOUR	123.10	336.8				26	17	17			20	39 PP
BOGOTA	124.17	46.8									21	2 PP
LUANDA	125.90	290.6									21	1 PP
KIMBERLEY	128.77	262.3	19	8	-2							
SOUTH POLE	129.51	180.0	19	21	10							
BYRD STATION	130.06	166.9	19	10	-2						21	50 PKS
HUANCAYO	136.29	61.7	19	31	7						22	23 PP
LA PAZ	144.31	58.6	19	40	2						23	26 PP
SANTA LUCIA	152.27	87.7	19	56	5	26	54	-3			23	44 PP

MARCH 23 1.H 7.M 15.S EPICENTRE 39.49 143.40 DEPTH= 0.KM

A=-0.62127 B= 0.46137 C= 0.63338 D= 0.5962 E= 0.8028  
G=-0.5085 H= 0.3776 K=-0.7738 HT= -1.5

SE= 2.52

	DELTA DEG.	AZ. DEG.	P		D-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MIYAKO	1.12	278.7	0	19A	-3	0	34	-5				
MORIOKA	1.74	277.7	0	31A	0	0	57	2				
HATINOHE	1.77	306.5	0	32A	0	0	57	2				
MIZUSAWA	1.80	259.2	0	33	1	0	52	-4				
ISINOMAKI	1.94	237.6	0	33A	-1	0	58	-2				
SENDAI	2.30	238.8	0	34	-5	1	9	0			0	57
ADMORI	2.41	304.3	0	41A	0	1	11	-1				
AKITA	2.56	276.2	0	44A	1	1	17	2				
YAMAGATA	2.68	243.5	0	46	1	1	23	4				
URAKAWA	2.70	350.1	0	47	2	1	16	-3				
HIROO	2.79	358.8	0	48	2	1	13	-8				
SAKATA	2.84	259.2	0	52	5	1	32	10				
HUKUSIMA	2.88	233.8	0	46	-2	1	29	5				
HAKODATE	3.07	319.9	0	51A	1	1	25	-3				
ONAHAMA	3.21	218.6	0	52	0	1	39	7				
MURORAN	3.37	327.8	0	54	-1	1	41	5				
MORI	3.38	321.4	0	56A	1	1	40	4				
TOMAKOMAI	3.43	336.9	0	59	4	1	48	11				
OBIIHIRO	3.43	357.5	0	56	0	1	36	-2				
SHIRAKAWA	3.44	227.6	0	55	-1	1	40	2				
KUSIRO	3.57	11.9	0	57	0	1	36	-5				
NIIGATA	3.75	246.7	1	2	2	1	52	6				
MITO	3.87	217.7	1	15	13	2	4	15				
SAPPORO	3.90	337.3	1	2	0	1	49	0				
UTUNOMIYA	4.05	224.6	1	4	0	1	55	2				

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SUTTSU	4.08	325.1	1	5	0	1	50	-4	1	28
NEMURO	4.17	22.4	1	5K	-1	1	49	-7		
TUKUBASAN	4.18	219.7	1	OK	-6					
TYOSI	4.27	209.1	1	4	-3	2	5	6		
AIKAWA	4.29	251.6	1	9A	1	2	17	18		
ASAHIGAWA	4.36	350.1	1	8	-1	2	1	0		
ABASHIRI	4.57	8.0	1	11	-1	2	3	-3		
MAEBASI	4.61	229.3	1	12A	0	2	14	7		
KUMAGAYA	4.61	224.9	1	12	0	2	24	17		
TAKADA	4.70	241.1	1	24	10	2	29	19		
HONGO	4.75	218.5	1	26	12					
TOKYO C.M.O.	4.78	218.5	1	13	-2	2	15	3		
TITIBU	4.90	225.7	1	15	-1	2	30	15		
OIWAKE	4.97	232.1	1	17	0	2	37	21		
NAGANO	4.98	237.2	1	19A	2	2	33	16		
YOKOHAMA	5.03	217.5	1	20	2	2	26	8		
MATUSIRO	5.05	235.9	1	18A	0				2	24
MATUMOTO	5.38	234.7	1	24	1					
MERA	5.38	213.1	1	23	0	2	29	2		
KOHU	5.41	226.7	1	24	0	2	36	8		
HUNATU	5.42	224.2	1	23	-1	2	35	7		
WAZIMA	5.52	249.6	1	26A	1					
AJIRO	5.60	219.1	1	27	1	2	26	-6		
MISIMA	5.62	220.5	1	25	-2	2	37	4		
TOYAMA	5.63	242.3	1	26	-1				3	7
OSIMA	5.70	215.5	1	26	-2					
TAKAYAMA	5.90	237.5	1	32	2	3	22	42		
IIDA	5.94	229.9	1	40	9				2	26
SHIZUOKA	6.02	223.0	1	32	0	3	2	19		
WAKKANAI	6.06	348.4	1	31	-2				1	49
OMAESAKI	6.40	221.9	1	38	0	2	58	6		
HAMAMATU	6.58	225.4	1	40	0	3	8	11	3	36
GIHU	6.67	234.3	1	42K	1	3	6	7	3	52
NAGOYA	6.70	231.9	1	40	-2	2	54	-6		
TSURUGA	6.97	238.9	1	47	1	3	19	12		
HATIDYOZIMA	7.01	205.7	2	17	31	2	54	-14		
HIKONE	7.08	235.7	1	46	-1	3	38	29		
KAMEYAMA	7.21	232.2	1	53	4	3	38	25		
TU	7.28	231.1	2	7	17					
MAIZURU	7.53	240.3	1	54	1	3	30	10		
Y. -SAKHLINSK	7.54	356.4	1	57	3					
KYOTO	7.57	236.3	1	55	1	3	37	15		
NARA	7.72	233.9	1	55	-1	3	33	8		
ABUYAMA	7.77	236.0	1	55A	-2					
TOYOOKA	7.88	242.6	1	58A	0	3	32	3		
OWASE	7.91	229.1	1	58	-1	4	10	40		
OSAKA	7.93	234.9	1	58	-1	3	34	3	4	29
KOBE	8.13	236.4	2	1	-1	3	46	10		
WAKAYAMA	8.43	234.0	2	18	12					
SUMOTO	8.52	235.5	2	8A	1	4	2	17	2	38
SIOMISAKI	8.61	227.9	2	6	-2	4	7	20	4	36
SAIGO	8.62	250.8	2	9	0	4	12	24		
HIMEJI	8.75	238.1	2	11	1	4	30	39		
TOKUSIMA	8.90	235.3	2	12	-1	3	56	1		
YONAGO	8.96	246.2	2	14	1	3	45	-11		
MATSUE	9.15	247.1	2	17	1					
MUROTO	9.69	232.9	3	1	38				5	3
KOTI	9.91	236.3	2	37	11	4	32	12		
HAMADA	10.13	246.7	2	31	1	4	22	-3		
HIROSIMA	10.16	243.2	2	33	3	4	34	8		
MATUYAMA	10.22	239.8	2	29	-2	4	33	6	5	33
UWAZIMA	10.75	237.8	2	52	14				5	9
SIMIDU	10.76	234.8	2	35	-3				5	17
OOITA	11.36	240.3	2	45A	-1	4	59	4		
SIMONOSEKI	11.43	244.9	2	47	0				5	37
ASOSAN	11.93	240.4	2	56	2	5	27	18		
HUKUOKA	12.01	244.6	3	3	8				4	58
KUMAMOTO	12.23	240.9	2	57	-1				6	30
SAGA	12.25	243.5	3	6	8				6	47
MIYAZAKI	12.32	235.9	3	4	5	5	9	-9		
ITUHARA	12.48	249.4	3	2	1					
NAGASAKI	12.84	242.5	3	8	2	5	48	17		
KAGOSIMA	13.10	236.9	3	7	-3				6	15
TOMIE	13.67	244.4	3	16	-1				7	25
YAKUSIMA	13.89	233.4	3	18	-2					
MAGADAN	20.62	10.7	4	43	0					
TAIPEI	23.37	238.4	5	12	1					
ILAN	23.40	237.6	5	17	6	9	36	15		

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HWALIEN	24.05	236.4	5 19	2						
HSINKONG	24.83	235.3	5 25	0						
ALISHAN	24.89	236.9	5 56	31					8 5	
TAITUNG	25.22	235.1	5 28	-1	9 39	-13				
TAWU	25.67	234.9	5 33	0						
KAOHSIUNG	25.87	236.3	6 14	39						
GUAM	25.95	177.0	5 38	3	10 18	13				
HENGCHUN	26.02	234.6	5 44	8						
KYAKHTA	28.06	305.1	5 52	-3						
HONG KONG	30.19	244.1	6 12	-2						
BAGUIO CITY	30.40	227.4	6 17	1	11 5	-11				
MANILA	31.55	224.6	6 25	-1	11 55	21				
TIKSI	33.05	351.6	6 39	0						
TOCKLAI	42.19	267.6	7 55	-1						
RABAU	44.22	167.4	8 11	-1						
SHILLONG	45.04	268.1	8 23A	4						
COLLEGE	46.18	33.5	8 29	1						
CHITTAGONG	46.79	264.4	8 32A	-1	15 25	2			10 24 PP	
CHATRA	48.03	272.5	8 22A	-21	15 57	16				
KHEYS	50.57	347.8	9 3	1						
FRUNSE	50.58	297.4	9 1	-1						
KIPAPA	52.71	91.9	9 18	0						
NAMANGAN	53.31	296.3	9 21	-2						
SVERDLOVSK	54.37	317.9	9 31	1						
LAHORE	55.54	284.7	9 36	-3					11 40 PP	
WARSAK DAM	56.44	288.7	9 42	-3	17 36	0				
DJAKARTA	56.62	225.2	9 26	-21	17 34	-4				
LEMBANG	56.73	224.0	9 46	-2	17 36	-4				
ISFJORD	58.91	349.2	9 59	-4						
CHARTERS TS.	59.33	176.9	9 58	-8						
RESOLUTE	59.84	15.2	10 6	-3						
APATITY	61.10	335.6	10 17A	-1						
QUETTA	61.72	287.1	10 20A	-2	18 45	1			10 58 PCP	
ALBERNI	62.43	47.6	10 28	1						
THULE	62.62	8.0	10 25	-3						
POONA	62.83	272.2	10 38A	9						
KOUMAC	62.84	158.0	10 42	12						
HORSESHOE B.	63.25	46.9	10 32	0						
SODANKYLA	63.31	337.3	10 29	-4						
VICTORIA	63.60	47.8	10 35	0						
KARACHI	64.51	282.0	10 38	-3						
KIRUNA	64.78	339.4	10 41	-1						
NOUMEA	65.13	156.4	10 44	-1					11 8	
PENTICTON	65.33	45.6	10 45	-1						
CORVALLIS	65.72	51.5	10 49K	1						
MOSCOW	66.21	323.5	9 51	-60						
BANFF	66.51	42.4	10 52	-1						
BRISBANE	67.11	171.0	11 0	3						
ARCATA	67.22	55.2	10 59	1						
SHASTA	68.39	54.6	11 5	0						
NURMIJARVI	68.51	332.2	11 6	0	20 6	-2			13 55 PP	
HELSINKI	68.63	331.8	11 6	-1						
UKIAH	68.74	56.4	11 9	2						
HUNGRY HORSE	68.93	44.2	11 8	-1	20 15	2				
SCORESBY SD.	69.83	354.8	11 13A	-1						
BERKELEY	70.07	57.1	11 16	0						
SKALSTUGAN	70.20	339.0	11 15	-1						
RENO	70.68	54.5	11 21A	2						
LICK	70.78	57.2	11 21A	1						
BUTTE	71.12	45.6	11 19	-3						
VINEYARD	71.29	57.6	11 23	0						
UPPSALA	71.43	334.4	11 22	-2					15 32	
BOZEMAN	72.17	45.2	11 29	1						
FRESNO	72.31	56.8	11 30K	1						
SHIRAZ	72.46	294.1	11 29K	-1	20 51	-3				
EUREKA	73.10	52.7	11 34	0						
ADELAIDE	74.21	184.0	11 39	-1						
CANBERRA	74.62	175.3	11 44	2	21 18	0				
SIMFEROPOL	74.66	316.0	11 43	0						
SALT LAKE C.	74.79	49.6	11 44	1						
PASADENA	74.94	58.2	11 45	1	21 24	2			13 21	
GOTEBORG	74.96	335.4	11 46	2						
MUNDARING	75.45	203.7	11 46	-1						
COPENHAGEN	76.43	333.9	11 53K	0						
IASI	76.51	320.9	11 54	1						
MELBOURNE	76.96	178.7	11 57	1						
RAPID CITY	77.43	42.7	11 59	1						
KRAKOW	77.93	326.6	12 1	0						

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LARAMIE	78.03	46.0	12 3	1				
SKALNATE PL.	78.45	325.9	12 2	-2				
POTSDAM	78.85	331.6	12 6	0				
COLLMBERG	79.74	330.9	12 11	0			16 25	
HALLE	79.97	331.6	12 12	0			15 12 PP	
PRUHONICE	80.19	329.3	12 13A	0			15 15 PP	
JENA	80.57	331.4	12 14	-1			13 4	
PLAUEN	80.71	330.9	12 14	-2				
WITTEVEEN	80.71	335.1	12 18	2				
VIENNA-H.	80.82	327.3	12 18	1				
TUCSON	80.90	55.7	12 18	1				
TUCSON TELE.	80.91	55.5	12 18	1				
CHEB	80.96	330.5	12 18	1				
MUNSTER	81.11	334.1	12 19	1				
SONNEBERG	81.16	331.3	12 17	-2				
DURHAM	81.43	340.4	12 19K	-1				
BELGRADE	81.64	322.9	12 21A	0			13 1	
BENSBERG	82.11	333.8	12 25	2				
KARAPIRO	82.50	154.9	12 27	1				
JERUSALEM	82.74	305.3	12 28	1				
HEIDELBERG	82.87	332.1	12 26	-1				
UCCLE	83.19	335.2	12 31	2	23 0 11			
STUTTGART	83.19	331.4	12 27	-2			13 9	
LJUBLJANA	83.33	326.9	12 31A	1				
TUBINGEN	83.47	331.4	12 30	0				
CHATEAU	83.66	155.4	12 31	0				
TOLMEZZO	83.67	328.0	12 30	-2			16 48	
EBINGEN	83.80	331.3	12 32	0				
RAVENSBERG	83.89	330.7	12 32	-1				
RATHFARNHAM	83.94	342.3	12 33K	0				
TRIESTE	83.97	327.1	12 32	-1				
KEW	84.03	338.2	12 33	0				
BASLE	84.86	331.7	12 38A	1				
LAWRENCE	85.25	41.9	12 40	1				
LUBBOCK	85.51	49.5	12 42	1				
PARIS	85.52	335.3	12 40	-1			17 3	
NEUCHATEL	85.53	331.8	12 41	0				
BESANCON	85.67	332.5	12 42	0				
FOLINIERE	86.48	337.0	12 47	1				
HELWAN	86.49	306.2	12 45	-1			14 33	
GARCHY	86.66	334.2	12 47A	1				
ISOLA	87.83	324.1	12 51	-1				
ST. LOUIS 1	88.02	39.1	12 55	2	23 36 0			
MONACO	88.11	329.7	12 50	-3				
OTTAWA	88.48	26.4	12 55	0				
SEVEN FALLS	88.52	22.6	12 57	2				
HALIFAX	92.81	18.9	13 20	5				
TAMARASSET	106.61	319.8	14 16	777			18 38 PP	
LWIRO	110.28	284.4					19 9 PP	
BUI AWAYO	121.44	269.0	18 56	1				
BYR. STATION	129.81	167.0	19 13	2				
HUANCAYO	136.21	62.2	19 29	6			22 9 PP	
LA PAZ	144.25	59.2	19 45	7				

MARCH 23 1.H 51.M 39.S EPICENTRE 39.62 143.76 DEPTH= 0.KM

A=-0.62297 B= 0.45659 C= 0.63517 D= 0.591 E= 0.8066  
G=-0.5123 H= 0.3755 K=-0.7724 HT= -1.5

SE= 3.47

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S		
MIYAKO	1.38	271.7	0	23A	-4	0	38	-8				
HATINOHE	1.94	298.6	0	32A	-3	0	59	-1				
MORIOKA	2.00	273.0	0	34	-2	0	54	-8				
MIZUSAWA	2.10	257.3	0	36	-1	0	58	-6				
ISINOMAKI	2.24	238.7	0	37A	-2	1	6	-2				
AOMORI	2.58	298.6	0	43	-1	1	13	-3				
SENDAI	2.61	239.7	0	42A	-2	1	9	-8				
URAKAWA	2.63	343.9	0	46	1	1	16	-2				
HIROO	2.68	353.0	0	47	2	1	12	-7				
AKITA	2.83	273.1	0	46A	-1						1 26	
YAMAGATA	2.99	243.8	0	51	1							
SAKATA	3.14	257.9	1	0	8	1	41	11				
HAKODATE	3.16	314.7	0	51A	-1	1	30	-1				
HUKUSIMA	3.18	235.1	0	49	-3							



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1960		PAGE 254						
OBIIHIRO	3.32	352.9	0	58	4	1	30	-5
KUSIRO	3.39	8.0	0	54	-1	1	33	-4
MURORAN	3.42	322.9	1	3	7	1	44	6
TOMAKOMAI	3.43	332.0	1	8	12	1	49	11
MORI	3.46	316.7	0	57	1	1	52	13
ONAHAMA	3.49	221.1	1	12	15	2	1	22
SHIRAKAWA	3.74	229.2	0	58	-2	1	34	-12
SAPPORO	3.89	333.0	1	1	-2			
NEMURO	3.95	19.7	1	2	-1	1	45	-6
NIIGATA	4.06	246.7	1	22	17	2	7	13
SUTTSU	4.14	321.1	1	17	11			2 51
MITO	4.15	219.8	1	3	-3	1	48	-8
ASAHI GAWA	4.28	346.4	1	9	1			
UTUNOMIYA	4.34	226.2	1	7	-2	2	6	5
ABASHIRI	4.41	4.9	1	10	0	1	59	-4
TUKUBASAN	4.46	221.6	1	5K	-6			
TYOSI	4.53	211.6	1	8	-4			
AIKAWA	4.59	251.4	1	18	6	2	15	8
KUMAGAYA	4.90	226.4	1	17	0	2	23	8
MAEBASI	4.91	230.5	1	15	-2			2 38
TAKADA	5.01	241.6	1	14	-4			
HONGO	5.03	220.3	1	38	19			
TOKYO C.M.O.	5.06	220.2	1	25	6			
TITIBU	5.19	227.0	1	18	-3			
OIWAKE	5.27	233.0	1	21	-1	2	40	16
NAGANO	5.28	237.8	1	21	-1	2	44	19
YOKOHAMA	5.31	219.3	1	35	12			2 42
MATUSIRO	5.35	236.6	1	21A	-2			
MERA	5.64	215.0	1	41	14	3	1	27
MATUMOTO	5.68	235.5	1	29	1			
KOHU	5.71	227.9	1	26	-2	2	51	16
HUNATU	5.71	225.5	1	27	-1	2	37	1
WAZIMA	5.83	249.6	1	34	4			
AJIRO	5.88	220.6	1	36	5	2	30	-10
MISIMA	5.90	221.9	1	39	8			
TOYAMA	5.94	242.6	1	37	6	3	7	26
OSIMA	5.97	217.2	1	35	3			
WAKKANAI	5.99	345.8	1	36	4			
IIDA	6.24	230.8				2	49	1
SHIZUOKA	6.31	224.3	1	37	0	2	44	-6
OMAESAKI	6.69	223.2	2	18	36	3	39	39
HAMAMATU	6.87	226.5	2	37	52			3 23
GIHU	6.97	235.0	1	45	-1	3	4	-3
NAGOYA	7.00	232.7	1	53	7	3	16	8
HIKONE	7.39	236.3	1	58	6			
KAMEYAMA	7.52	232.9	1	50	-4	3	25	4
MAIZURU	7.83	240.7	2	4	6	3	21	-8
KYOTO	7.88	236.8	1	58	-1	3	36	6
NARA	8.03	234.5	2	15	14			
ABUYAMA	8.07	236.6	1	58K	-3			
TOYDOKA	8.19	242.9	2	10	7	3	39	2
OWASE	8.21	229.9	2	30	27	3	54	16
OSAKA	8.23	235.5	2	35	31	3	59	20
SUMOTO	8.83	236.1						
TAKAMATU	9.40	238.8	2	41	21			2 57
KOTI	10.21	236.8						3 19
HAMADA	10.44	246.8	2	42	8	4	38	5
OOITA	11.67	240.6	2	49	-2			
SHILLONG	45.32	268.2	8	13	-9			
COLLEGE	45.92	33.6	8	27	1			
CHITTAGONG	47.08	264.5	8	33	-2			
LAHORE	55.78	284.8	9	39	-2			
WARSAK DAM	56.66	288.8	9	42	-5			
RESOLUTE	59.63	15.3	10	5	-3			
QUETTA	61.95	287.2	10	21A	-3	18	43	-5
THULE	62.45	8.1	10	24	-3			
HORSESHOE B.	62.96	47.1	10	31	0			
SODANKYLA	63.30	337.3	10	31	-2			
VICTORIA	63.31	48.0	10	34	1			
KIRUNA	64.75	339.5	10	40	-2			
PENTICTON	65.04	45.8	10	44	0			
CORVALLIS	65.42	51.7	10	54	7			
SHASTA	68.09	54.9	11	4	0			
NURMIJARVI	68.52	332.3	11	4	-2			
HUNGRY HORSE	68.64	44.4	11	7	0			
HELSINKI	68.65	331.9	11	5	-2			
RENO	70.37	54.7	11	19A	1			
LICK	70.47	57.5	11	19A	1			

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UPPSALA	71.43	334.5	11 21	-3		
FRESNO	72.00	57.0	11 29	1		
SHIRAZ	72.66	294.3	11 29K	-3	20 50	-6
EUREKA	72.80	52.9	11 32	0		
SALT LAKE C.	74.49	49.8	11 41	-1		
PASADENA	74.63	58.4	11 43	0		12 29
GOTEBORG	74.96	335.5	11 46	1		
LWOW	76.36	324.6	12 15	22		
COPENHAGEN	76.43	334.0	11 52	-1		
RAPID CITY	77.15	42.9	11 58	1		
LARAMIE	77.74	46.2	12 2	2		
KRAKOW	77.97	326.8	12 1	-1		
SKALNATE PL.	78.49	326.1	12 8	3		
POTSDAM	78.86	331.7	12 5	-2		
COLLMBERG	79.76	331.1	12 11	-1		
HALLE	79.98	331.8	12 20	7		
PRUHONICE	80.22	329.5	12 13A	-1		12 51
JENA	80.58	331.6	12 15	-1		
TUCSON	80.60	55.9	12 17	1		
TUCSON TELE.	80.61	55.8	12 16	0		12 32
WITTEVEEN	80.71	335.2	12 17	0		
PLAUEN	80.73	331.1	12 14	-3		
STUTTART	83.21	331.6	12 29	-1		13 9
TUBINGEN	83.49	331.6	12 31	0		
EBINGEN	83.82	331.5	12 32	-1		
RAVENSBERG	83.91	330.9	12 32	-1		
BASLE	84.87	331.9	12 12	-26		
LAWRENCE	84.96	42.1	12 38	0		
FOLINIÈRE	86.47	337.2	12 48	2		
TAMANRASSET	106.69	320.1				18 43 PP
BYRD STATION	129.88	167.0	19 12	0		

MARCH 23 2.H 9.M 16.S EPICENTRE 39.74 142.95 DEPTH= 48.KM

A=-0.61543 B= 0.46454 C= 0.63675 D= 0.6025 E= 0.7982  
G=-0.5082 H= 0.3836 K=-0.7711 HT= -1.6

DEPTH OF FOCUS= 0.002R

SE= 3.38

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MIYAKO	0.76	263.6	0	13A	-3	0	26	-1				
HATINOHE	1.35	306.3	0	23A	0	0	46	6				
MORIOKA	1.38	268.9	0	23A	-1	0	44	3				
MIZUSAWA	1.54	247.3	0	26	0	0	41	-4				
ISINOMAKI	1.82	224.7	0	28A	-2	0	54	2				
ADMORI	1.98	303.7	0	33	1	1	3	7				
SENDAI	2.17	228.1	0	33A	-2	1	7	6				
AKITA	2.20	270.4	0	36A	1	1	10	9				
URAKAWA	2.41	356.9	0	38	0	1	9	2				
YAMAGATA	2.52	234.6	0	39	-1	1	17	8				
HIROO	2.55	6.1	0	38	-2	1	8	-2				
SAKATA	2.56	251.9	0	47	7	1	28	17				
HAKODATE	2.66	321.9	0	42	0	1	20	7				
HUKUSIMA	2.78	225.1	0	41	-2	1	16	0				
MORI	2.97	323.3	0	58	12	1	37	16				
MURORAN	2.98	330.6	0	49	3	1	34	13				
TOMAKOMAI	3.07	340.7	0	57	10	1	32	9				
OBIIHIRO	3.18	3.3	0	50	1							
ONAHAMA	3.22	210.7	0	55	5							
SHIRAKAWA	3.38	220.2	0	48	-4	1	28	-3				
KUSIRO	3.42	18.1	0	52	0	1	28	-4				
SAPPORO	3.54	340.6	0	58	4							
NIIGATA	3.55	240.4	0	55	1						1 47	
SUTTSU	3.68	327.0	1	5	9						2 42	
MITO	3.88	211.1	0	56	-3	1	46	2				
UTUNOMIYA	4.01	218.3	0	59	-2	1	55	8				
AIKAWA	4.05	246.4	1	1	0	2	9	21				
ASAHI GAWA	4.06	354.0	1	0	-1	2	4	16				
NEMURO	4.09	27.9	0	56A	-6	1	39	-10			1 55	
TUKUBASAN	4.17	213.6	0	58K	-5							
TYOSI	4.35	203.2	1	20	15						2 17	
ABASHIRI	4.39	12.6	1	2	-4	1	53	-4				
MAEBASI	4.53	223.8	1	6	-2	2	14	14				
TAKADA	4.54	236.0	1	7	-1							

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1960		PAGE 256						
KUMAGAYA	4.56 219.4	1 6	-2	2 10	9			
HONGO	4.75 213.1	1 9	-2					
TOKYO C.M.O.	4.78 213.1	1 8	-4	2 10	4			
NAGANO	4.84 232.2	1 13	1	2 32	24			
TITIBU	4.85 220.4	1 8	-4					
OI WAKE	4.87 227.0	1 16	3					
MATUSIRO	4.92 231.0	1 12A	-1	2 9	-2			
YOKOHAMA	5.04 212.4	1 19	4	2 11	-2			
MATUMOTO	5.26 230.0	1 18	0	2 34	16			
WAZIMA	5.30 245.5	1 17	-2					
KOHU	5.35 222.0	1 19	0	2 33	12			
HUNATU	5.38 219.4	1 14	-6	2 21	0			
HERA	5.42 208.3	1 27	7	2 52	30			
TOYAMA	5.45 238.0	1 19	-2	2 48	25			
AJIRO	5.60 214.4	1 27	4	2 20	-7			
MISIMA	5.60 215.9	1 23	0					
OSIMA	5.72 211.0	1 58	33					
TAKAYAMA	5.76 233.3	1 28	3					
IIDA	5.85 225.6	1 35	9	2 44	11			
KANAZAWA	5.91 239.2	1 28	1					
SHIZUOKA	5.98 218.7			2 56	20			
OMAESAKI	6.37 217.8	1 53	19			3 14		
GIHU	6.55 230.5	1 36	0	2 54	4			
NAGOYA	6.59 228.1	1 42	5	3 4	12			
HIKONE	6.95 232.1	1 41	-1					
KAMEYAMA	7.11 228.6	1 54	10	3 29	25			
MAIZURU	7.36 237.0	1 51	3	3 27	16			
KYOTO	7.43 232.9	1 49	0	3 28	16			
NARA	7.60 230.6	1 54	3	3 26	9			
ABUYAMA	7.63 232.7	1 49K	-2					
TOYOOKA	7.70 239.5	1 51	-1					
OSAKA	7.80 231.7	2 0	6					
OWASE	7.83 225.8	2 4	10	3 33	11			
SUMOTO	8.39 232.5	2 22	20	4 3	27			
TOKUSIMA	8.77 232.4	2 14	7					
TAKAMATU	8.94 235.5	2 14	5					
KOTI	9.77 233.7	2 41	20	4 36	26			
HAMADA	9.92 244.3	2 26	3	4 41	27			
KUMAMOTO	12.05 238.9					3 13		
MAGADAN	20.44 1.5	4 35	-1					
YAKUTSK	23.72 344.4	5 9	1					
TIKSI	32.75 351.8	6 30	0					
SHILLONG	44.70 267.5	8 4A	-6					
COLLEGE	46.17 33.6	8 23	1					
CHATRA	47.68 272.0	8 34A	0					
FRUNSE	50.15 297.1	8 54	1					
KHEYS	50.26 347.7	8 54	1					
NAMANGAN	52.89 296.0	9 14	1					
SVERDLOVSK	53.95 317.6	9 21	0					
LAHORE	55.15 284.3	9 30	0					
STALINABAD	55.94 294.4	9 35	-1					
WARSAK DAM	56.03 288.3	9 35	-1					
ISFJORD	58.60 349.1	9 50	-4					
RESOLUTE	59.68 15.1	9 59A	-3					
APATITY	60.73 335.5	10 7	-2					
QUETTA	61.32 286.7	10 12A	-1	18 43	15			
THULE	62.42 8.0	10 17	-3					
SODANKYLA	62.95 337.1	10 22	-2					
KIRUNA	64.42 339.2	10 33	-1			11 4		
CORVALLIS	65.83 51.4	10 43	0					
NURMIJARVI	68.13 332.0	10 56	-1					
HELSINKI	68.25 331.6	10 57	-1					
SHASTA	68.53 54.5	10 59	-1					
HUNGRY HORSE	68.99 44.1	1 1	-1					
SKALSTUGAN	69.84 338.8	11 14	6			13 35		
RENO	70.81 54.3	11 18	4					
LICK	70.93 57.1	11 17K	3					
UPPSALA	71.06 334.2	11 14	-1					
FRESNO	72.46 56.7	11 27	4					
EUREKA	73.23 52.5	11 27	-1					
GOTEBORG	74.59 335.1	11 38	2					
LWOW	75.90 324.2	12 43A	60					
COPENHAGEN	76.05 333.7	11 44K	0					
RAPID CITY	77.48 42.5	11 51	-1					
KRAKOW	77.53 326.4	11 52	0			12 2 PCP		
COLLMBERG	79.35 330.7	12 2	0			15 7 PP		
PRUHONICE	79.80 329.1	12 5A	0			14 55 PP		
JENA	80.18 331.2	12 6	-1			15 1		

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PLAUEN	80.32	330.6	12 2	-6	
TUCSON	81.04	55.5	12 15	4	
TUCSON TELE.	81.05	55.3	12 16	5	
HEIDELBERG	82.49	331.8	12 19	0	
STUTT GART	82.81	331.2	12 21	0	
TUBINGEN	83.08	331.1	12 22	0	
TOLMEZZO	83.28	327.7	12 24	1	15 42
EBINGEN	83.41	331.0	12 24	0	
RAVENSBURG	83.50	330.4	12 24	0	
BASLE	84.47	331.4	12 26	-3	
FOLINIERE	86.12	336.7	12 17	-20	
GARCHY	86.28	333.9	12 39K	1	
TAMARRASSET	106.20	319.4			17 14

MARCH 23 8.H 46.M 43.S EPICENTRE 39.92 143.00 DEPTH= 0.KM

A=-0.61424 B= 0.46280 C= 0.63916 D= 0.6018 E= 0.7987  
G=-0.5105 H= 0.3846 K=-0.7691 HT= -1.7

SE= 3.65

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
MIYAKO	0.84	251.7	0	20	1	0	33	1				
HATINOHE	1.28	298.9	0	28A	3	0	49	5				
MORIOKA	1.43	261.8	0	27K	-1	0	46	-1				
MIZUSAWA	1.65	242.1	0	32	1	0	50	-3				
AOMORI	1.92	298.6	0	38	3	1	6	6				
ISINOMAKI	1.98	221.9	0	35A	0	1	0	-1				
URAKAWA	2.24	355.7	0	43	4	1	12	4				
AKITA	2.25	265.8	0	41A	2	1	15	7				
SENDAI	2.32	225.5	0	40A	0	1	11	1				
HIROO	2.37	5.7	0	44	3	1	9	-2				
HAKODATE	2.54	318.7	0	47A	4	1	25	9				
YAMAGATA	2.65	231.9	0	45	0	1	22	4				
SAKATA	2.66	248.5	0	50	5	1	34	15				
MURORAN	2.84	328.1	0	53	5	1	31	8				
MORI	2.85	320.6	0	53	5	1	48	25				
TOMAKOMAI	2.91	338.8	0	58	9	1	38	13				
HUKUSIMA	2.93	223.2	0	49K	0	1	27	1				
OBIHIRO	3.00	2.8	0	53	3	1	30	3				
KUSIRO	3.23	18.5	0	54	1	1	31	-2				
SAPPORO	3.38	339.0	0	59	4	1	49	12				
ONAHAMA	3.39	209.8	0	48	-8	1	30	-7				
SHIRAKAWA	3.55	218.9	0	58	0	1	39	-2				
SUTTSU	3.56	324.9	1	3	5	1	54	13				
NIIGATA	3.67	238.3	1	10	10	1	49	5				
ASAHIKAWA	3.89	353.2	1	5	2	2	1	11				
NEMURO	3.92	28.7	1	3A	0	1	45	-5				
MITO	4.06	210.3	1	3	-2	1	43	-11				
AIKAWA	4.16	244.4	1	10	4	2	16	19				
UTUNOMIYA	4.17	217.2	1	5	-2	2	3	6		1 49		
ABASHIRI	4.21	12.7	1	8	1	1	56	-2				
KAKIOKA	4.30	212.1	1	6	-3	2	1	1				
TUKUBASAN	4.35	212.7	1	6A	-3							
TYOSI	4.53	202.8	1	16	4	2	18	12				
TAKADA	4.67	234.5	1	15	1	2	14	5				
MAEBASI	4.69	222.7	1	14A	0	2	7	-3				
KUMAGAYA	4.73	218.4	1	13	-2	2	13	2				
HONGO	4.92	212.4	1	16	-1							
TOKYO C.M.O.	4.95	212.4	1	17	-1	2	17	0		2 11		
NAGANO	4.98	230.9	1	19	1	2	34	17				
TITIBU	5.01	219.5	1	17	-2	2	28	10				
OIWAKE	5.02	225.8	1	20	1	2	28	10				
MATUSIRO	5.06	229.7	1	19A	0	2	16	-3		2 32		
YOKOHAMA	5.21	211.7	1	22	1	2	25	2				
MATUMOTO	5.40	228.9	1	24	0							
WAZIMA	5.41	244.0	1	25	1							
KOHU	5.51	221.1	1	25	-1	2	36	5				
HUNATU	5.54	218.6	1	22	-4	2	31	0				
WAKKANAI	5.58	350.4								2 47		
NERA	5.59	207.8	1	32	5	2	40	7				
AJIRO	5.77	213.8										
MISIMA	5.77	215.2	1	27	-2							
OSIMA	5.89	210.4	1	41	10							
TAKAYAMA	5.90	232.2	1	33	2							

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1960		PAGE 258					
IIDA	6.01	224.7	1 41	8	2 49	6	
KANAZAWA	6.04	237.9	1 35	2			
SHIZUOKA	6.15	218.0	1 43	8	3 3	16	
KURILSK	6.41	32.5			2 48	-5	
OMAESAKI	6.54	217.2	1 53	13	3 14	18	
HAMAMATU	6.68	220.7	1 53	11	3 26	26	
GIHU	6.69	229.6	1 42	0	3 4	4	3 14
NAGOYA	6.74	227.2	1 52	9	3 15	14	
TSURUGA	6.95	234.4	1 47	1	3 21	14	
HIKONE	7.09	231.2	1 49	1	3 23	13	
KAMEYAMA	7.25	227.8	1 58	8	3 43	29	
MAIZURU	7.49	236.0	1 58	5	3 29	9	
KYOTO	7.57	232.1	1 55	0	3 37	15	
NARA	7.75	229.8	1 59	2			
ABUYAMA	7.77	231.9	1 56A	-1			
TOYOOKA	7.82	238.5	1 57	-1			
OSAKA	7.94	230.9	2 9	9	4 3	31	
OWASE	7.98	225.1	2 10	10	4 3	31	
KOBE	8.13	232.4	2 12	10	3 54	18	
SUMOTO	8.53	231.8	2 16	8	4 5	19	4 23
SIOMISAKI	8.68	224.2	2 29	19	4 16	26	
TOKUSIMA	8.91	231.7	2 18	5	4 5	9	
VLADIVOSTOK	8.92	294.6	2 17	4	3 59	3	
TAKAMATU	9.07	234.8					
UGLEGORSK	9.18	356.2	2 17	0			
KOTI	9.91	233.0	2 38	11	4 29	9	
HAMADA	10.03	243.5	2 29	0	4 54	31	
HIROSIMA	10.09	240.0	2 41	11			
SIMIDU	10.77	231.7	2 36	-3	4 24	-17	
OOITA	11.32	237.4	2 44	-2	4 47	-8	5 27
HUKUOKA	11.93	241.9	3 19	24	5 39	29	
KUMAMOTO	12.18	238.3	2 57	-1			
SAGA	12.18	240.8	3 21	23			
KAGOSIMA	13.09	234.3	3 5	-5			7 3
CHANGCHUN	13.75	292.3	3 22	3	6 1	7	
PETROPAVLOVK	16.91	34.1	4 1	1			7 17 SS
ZO-SE	19.79	250.4	4 34	-1			
MAGADAN	20.26	11.5	4 41	1	8 21	-2	
PEKING	20.54	279.0	4 39A	-4	8 25	-3	
NANKING	21.07	255.7					
YAKUTSK	23.56	344.3	5 12	-1			
WUHAN	24.97	256.8	5 25A	-2	9 48	-1	
PAOTOW	25.10	282.2	5 26	-2			
ULAN-BATOR	27.01	299.2	5 46	0	10 21	-2	
SIAN	27.66	269.1	5 51A	-1			
IRKUTSK	29.17	308.0					
HONG KONG	30.11	242.9	6 10	-4	11 11	-1	
CANTON	30.16	245.1	6 13	-1			
LANCHOW	30.95	275.5	6 21	0			
TIKSI	32.58	351.7	6 33	-2			
CHENG TU	32.92	266.0	6 37A	-1	11 53	-3	
KUNMING	36.69	258.7	7 10A	-1	12 53	-2	
LHASA	43.36	273.0	8 7	1			
SEMI PALATNSK	44.24	305.4	8 12	-1			9 56 PCP
RABAU	44.70	166.9					
SHILLONG	44.75	267.4	8 12A	-5	15 1	6	10 16 PP
COLLEGE	46.00	33.7	8 27	0			
CHITTAGONG	46.53	263.7	8 31	0	15 21	1	10 21 PP
CHATRA	47.71	271.9	8 40A	-1	15 37	0	
KHEYS	50.09	347.7	8 59	0			
FRUNSE	50.11	297.0	8 59	0			10 56 PP
DEHRA DUN	52.95	281.0	9 37	16	17 8	19	
SVERDLOVSK	53.84	317.6	9 27	0			11 30 PP
TASHKENT	54.35	297.2	9 29	-2			10 23
LAHORE	55.14	284.3	9 35	-2			
STALINABAD	55.90	294.3	9 40	-2			
WARSAK DAM	56.01	288.2	9 41A	-2			
LEMBANG	56.83	223.4	9 45K	-4			17 5
ISFJORD	58.43	349.1	9 56	-4			
RESOLUTE	59.50	15.2	10 5A	-3			
CHARTERS TS.	59.77	176.5	10 35	26			
APATITY	60.58	335.5	10 13	-2			
QUETTA	61.30	286.6	10 18A	-2	18 45	5	12 38 PP
THULE	62.24	8.0	10 23	-3			
POONA	62.51	271.8	10 26A	-2			
SODANKYLA	62.80	337.1	10 28	-2			
BOMBAY	63.09	272.7					19 20
HORSESHOE B.	63.18	47.0	10 31	-1			

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1960					PAGE 259				
ASHKABAD	63.38	298.3	10 33	-1					
VICTORIA	63.54	47.8	10 43	8					
KARACHI	64.13	281.6	10 39	0					
KIRUNA	64.27	339.2	10 38	-2			11 7		
PENTICTON	65.25	45.6	10 44	-2					
MOSCOW	65.69	323.2	10 47	-2					
CORVALLIS	65.69	51.5	10 49	0					
PULKOVO	66.35	329.4	10 51	-2			20 0 PS		
ARCATA	67.23	55.2	11 7A	8					
NURMI JARVI	67.99	332.0	11 2	-1					
HELSINKI	68.11	331.6	11 1	-3					
SHASTA	68.39	54.6	11 5	-1					
HUNGRY HORSE	68.84	44.2	11 7	-2					
SKALSTUGAN	69.69	338.8	11 12	-2					
TIFLIS	70.03	308.0	11 15	-1			20 40 PS		
BERKELEY	70.10	57.0	11 20	4					
RENO	70.68	54.4	11 20	0					
LICK	70.80	57.2	11 25A	4					
UPPSALA	70.91	334.2	11 20	-1					
BUTTE	71.04	45.5	11 19	-3					
SHIRAZ	72.01	293.8	11 27K	-1	21 5 16				
BOZEMAN	72.09	45.1	11 28	0					
FRESNO	72.33	56.7	11 29	-1					
EUREKA	73.09	52.6	11 34	0					
GOTEBORG	74.44	335.1	11 35	-7					
SALT LAKE C.	74.74	49.5	11 43	-1					
PASADENA	74.97	58.1	11 44	-1					
CANBERRA	75.07	174.9	11 43	-3					
LWOW	75.78	324.2	11 50	0					
COPENHAGEN	75.91	333.7	11 51	1					
RAPID CITY	77.32	42.5	11 58	0					
KRAKOW	77.41	326.4					12 16 PCP		
LARAMIE	77.95	45.8	12 8	6					
RACIBORZ	78.1	327.3	12 3	0					
POTSDAM	78.32	331.3	12 3	-1					
COLLMBERG	79.22	330.7	12 8A	-1			12 15 PCP		
HALLE	79.45	331.3	12 9	-1			15 15		
PRUHONICE	79.67	329.1	12 11A	0			15 6 PP		
BRATISLAVA	80.04	326.6	12 14	1					
JENA	80.04	331.2	12 12	-1			13 10		
PLAUEN	80.18	330.6	12 11	-3					
WITTEVEEN	80.19	334.8	12 16	2					
MUNSTER	80.59	333.9	12 16	0					
TUCSON	80.91	55.5	12 18	0					
TUCSON TELE.	80.92	55.4	12 18	0					
HEIDELBERG	82.35	331.8	12 25	0			13 41		
STUTTGART	82.67	331.2	12 26A	-1			14 2		
LJUBLJANA	82.80	326.7	12 27	-1					
TUBINGEN	82.95	331.2	12 28	0					
EBINGEN	83.27	331.0	12 29	-1					
RAVENSBURG	83.36	330.4	12 30	-1					
TRIESTE	83.44	326.9	12 31	0					
LAWRENCE	85.13	41.7	12 38	-1					
FOLNIERE	85.97	336.8	12 43	-1					
ST. LOUIS 1	87.88	38.9	12 52	-1	23 36 1 13 2		18 33 PP		
TAMANRASSET	106.09	319.5							
LA PAZ	144.29	58.2	19 33	-5					

MARCH 23 10.H 28.M 56.S EPICENTRE 39.12 143.49 DEPTH= 47.KM

A=-0.62528 B= 0.46284 C= 0.62833 D= 0.5949 E= 0.8038  
G=-0.5050 H= 0.3738 K=-0.7779 HT= -1.4

DEPTH OF FOCUS= 0.002R

SE= 3.41

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S		
MIYAKO	1.29	294.8	0	20A	-2	0	41	2				
I SINOMAKI	1.83	248.7	0	29A	0	0	58	6				
MIZUSAWA	1.84	271.2	0	29	-1	0	49	-3				
MORI OKA	1.89	288.7	0	30A	0	0	56	3				
HATINOHE	2.07	313.7	0	31A	-2	1	0	2				
SENDAI	2.20	248.2	0	34A	-1	1	4	3				
YAMAGATA	2.61	251.6	0	40	0	1	17	6				
AOMORI	2.69	310.1	0	47	5	1	24	1				



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1960		PAGE 260					
AKITA	2.69	284.0	0 41A	-1	1 23	10	
HUKUSIMA	2.74	241.0	0 41A	-1			
SAKATA	2.86	266.8	0 48	4	1 30	12	
ONAHAMA	2.98	224.2	0 42	-4	1 21	0	
URAKAWA	3.08	350.1	0 45	-2	1 14	-9	
HIROO	3.16	357.7	0 46	-2	1 22	-3	
SHIRAKAWA	3.26	233.3	0 49	-1	1 37	9	
HAKODATE	3.40	323.1	0 54	2	1 40	9	
MITO	3.63	222.2	0 55	0	1 47	10	
NIIGATA	3.68	252.5	1 3	7	1 54	16	
MORI	3.72	324.2	0 57	1	1 47	8	
MURORAN	3.73	330.0	1 2	6	1 46	7	
TOMAKOMAI	3.80	338.2	1 7	10	1 56	15	
OBHIRO	3.81	356.8	0 57	0	1 46	5	
UTUNOMIYA	3.84	229.3	0 57	-1	2 4	22	1 43
KAKIOKA	3.90	223.4	0 57	-2	1 39	-5	
KUSIRO	3.92	9.8	0 57	-2	1 40	-4	
TUKUBASAN	3.95	224.0	0 56K	-3	1 48	3	
TYOSI	3.99	212.6	0 59A	-1	2 10	24	
AIKAWA	4.25	256.7	1 4	0	2 3	10	
SAPPORO	4.27	338.4	1 5	1	1 50	-3	
KUMAGAYA	4.41	229.0	1 4	-2	2 13	16	
MAEBASI	4.43	233.6	1 5A	-1	2 8	11	
SUTTSU	4.43	327.2	1 15	9	2 12	15	
NEMURO	4.49	19.8	1 4	-3	1 50	-9	
HONGO	4.51	222.2	1 16	9			
TOKYO C.M.O.	4.54	222.1	1 5	-3	2 4	4	1 54
TAKADA	4.60	245.7	1 8	0	2 8	7	
TITIBU	4.70	229.6	1 9	-1	2 21	17	
ASAHIGAWA	4.74	350.1	1 12	2	2 24	19	
YOKOHAMA	4.79	221.0	1 17	6	2 22	16	
OIWAKE	4.80	236.2	1 16	5	2 31	24	
NAGANO	4.85	241.4	1 12A	0	2 22	14	3 4
MATUSIRO	4.91	240.0	1 12A	-1	2 13	4	2 31
ABASHIRI	4.94	6.6	1 9	-4	2 5	-5	
MEHA	5.11	216.1	1 14	-2	2 39	25	
HUNATU	5.21	227.6	1 16	-1	2 26	9	
KOHU	5.22	230.3	1 17	0	2 33	16	
MATUMOTO	5.23	238.6	1 17	0	2 30	13	
AJIRO	5.37	222.2	1 19	0	2 16	-5	
MISIMA	5.39	223.7	1 19	-1	2 41	20	
OSIMA	5.45	218.5	1 30	10			
WAZIMA	5.47	253.6	1 21	0			
TOYAMA	5.53	246.1	1 21A	0	2 41	16	
IIDA	5.76	233.2	1 36	11	2 57	26	
TAKAYAMA	5.77	241.1	1 26	1			
SHIZUOKA	5.80	226.1	1 22	-3	2 46	14	
KANAZAWA	6.00	246.6	1 28	0			
OMAESAKI	6.18	224.8	1 46	15	3 4	23	
HAMAMATU	6.37	228.3	1 50	17	3 4	18	
WAKKANAI	6.44	348.6					2 53
GIHU	6.52	237.4	1 35	0	2 59	10	
NAGOYA	6.53	234.9	1 36	1	2 57	7	
TSURUGA	6.85	241.9	1 41	1	3 13	16	
KURILSK	6.92	26.6	1 39	-2	2 54	-5	
HIKONE	6.94	238.6	1 42	1	3 16	16	
KAMEYAMA	7.05	235.0	1 46	3	3 29	27	
TU	7.11	233.9					3 26
MAIZURU	7.41	243.1	1 47	-1			3 2
KYOTO	7.43	239.0	1 48	0	3 30	18	
NARA	7.57	236.5	1 50	0	3 33	18	
ABUYAMA	7.62	238.7	1 48A	-3			
OWASE	7.73	231.6	2 1	9	3 41	22	
TOYOOKA	7.78	245.3	1 52	-1	3 31	10	
OSAKA	7.78	237.5	2 0	7	3 38	17	3 14
Y.-SAKHLINSK	7.92	356.2	1 49	-6	3 13	-11	
KOBE	7.99	238.9	1 57	1	3 34	8	4 24
TOTTORI	8.24	247.0	2 5	6			
SUMOTO	8.38	238.0	2 12	11	3 52	17	5 45
SIOMISAKI	8.41	230.1					2 50
SAIGO	8.57	253.3					4 28
TOKUSIMA	8.76	237.6	2 3	-3	3 54	9	
TAKAMATU	8.96	240.6	2 8	-1	4 10	20	
MUROTO	9.53	235.0	2 37	20	4 44	40	
VLADIVOSTOK	9.62	298.3	2 18	0	4 9	3	
KOTI	9.77	238.4	2 52	32	4 45	35	
UGLEGORSK	10.01	354.6	2 19	-5	4 11	-5	
HAMADA	10.05	248.8	2 22	-2	4 39	22	

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1960										PAGE 261	
HIROSI MA	10.06	245.3	2 27	3	4 36	19					
SIMIDU	10.61	236.7	2 29	-3	4 53	23					
OOITA	11.24	242.2	2 39K	-1	5 32	46					
HUKUOKA	11.92	246.4	3 16	26	5 40	38					
KUMAMOTO	12.11	242.7	2 51	-1							
SAGA	12.15	245.3	3 13	20						6 27	
NAGASAKI	12.73	244.1	2 58	-2	5 56	34				6 10	
KAGOSIMA	12.96	238.4	3 7	4						6 48	
CHANGCHUN	14.42	294.9	3 20	-2							
PETROPAVLOVK	17.38	31.9	4 0	0							
ZO-SE	19.90	253.1	4 28	-2	8 5	-1					
MAGADAN	20.98	10.4	4 39	-2							
PEKING	21.05	281.2	4 38	-4	8 25	-4					
NANKING	21.26	258.3	4 41	-3	8 34	2					
YAKUTSK	24.44	344.3	5 13	-2							
WUHAN	25.17	259.0	5 22A	0	9 45	4					
GUAM	25.58	177.2	5 57	31							
PAOTOW	25.65	284.0	5 26	-1							
ULAN-BATOR	27.74	300.5	5 46	0	10 26	3					
SIAN	28.04	270.9	5 47A	-2							
IRKUTSK	29.97	309.0	6 5A	-1							
HONG KONG	30.09	244.8	6 5	-2	11 12	11					
CANTON	30.18	246.9	6 8	0	11 7	5					
BAGUIO CITY	30.20	228.0	6 7	-1							
MANILA	31.33	225.2	6 22	4	11 30	10					
LANCHOW	31.41	277.0	6 18	0	11 24	3					
CHENG TU	33.26	267.6	6 34A	-1	11 54	4					
TIKSI	33.43	351.6	6 35	-1							
KUNMING	36.92	260.1	7 6A	0	12 50	3					
LHASA	43.79	274.1	8 4	2	14 34	5					
RABAUL	43.84	167.5	8 1	-2							
SEMI PALATNSK	45.01	306.1	8 12	0	14 48	1				10 0 PP	
SHILLONG	45.09	268.5	8 9	-4	14 48	0				10 32 PP	
COLLEGE	46.46	33.3	8 26	2							
CHITTAGONG	46.82	264.8	8 27	0	15 4	-9					
CHATRA	48.12	272.9	8 38A	1	15 35	4					
FRUNSE	50.81	297.7	8 58	1						10 57 PP	
KHEYS	50.95	347.8	8 59	1	16 16	6					
PORT BLAIR	52.54	252.9	9 12	2							
DEHRA DUN	53.47	281.8	9 37	20	16 52	7					
SVERDLOVSK	54.69	318.1	9 27	1							
TASHKENT	55.06	297.8	9 29	0	17 11	5					
LAHORE	55.71	285.0	9 34	0							
STALINABAD	56.58	295.0	9 41	1	17 34	8					
WARSAK DAM	56.63	288.9	9 40	0							
ISFJORD	59.29	349.3	9 56	-3							
RESOLUTE	60.18	15.1	10 4	-1	18 19	6					
APATITY	61.47	335.8	10 14	0							
QUETTA	61.90	287.3	10 16A	-1	18 38	3	10 40	12 33	PP		
POONA	62.92	272.5	9 22	-61							
THULE	62.98	8.0	10 21	-3							
BOMBAY	63.51	273.4								19 5	
SODANKYLA	63.68	337.3	10 20	-8							
ASHKABAD	64.10	298.9	10 31	0							
KARACHI	64.66	282.2	10 35A	0							
KIRUNA	65.15	339.5	10 37	-1							
CORVALLIS	65.90	51.4	10 59	16							
MOSCOW	66.56	323.6	10 45	-2							
PULKOVO	67.23	329.7	10 50	-1							
NURMIJARVI	68.87	332.3	11 1	0	20 0	-1					
HUNGRY HORSE	69.15	44.2	11 3	0							
SKALSTUGAN	70.57	339.1	11 11	-1							
TIFLIS	70.82	308.4	11 14	1	20 23	0					
RENO	70.84	54.4	11 16	3							
BUTTE	71.33	45.6	11 16	0							
UPPSALA	71.80	334.5	11 18	-1							
BOZEMAN	72.39	45.2	11 25	2							
SHIRAZ	72.68	294.3	11 24	0	20 43	-2					
EUREKA	73.28	52.6	11 30	2							
PASADENA	75.08	58.1	11 25	-13						12 0	
GOTEBORG	75.33	335.4	11 40	0							
LWOW	76.65	324.6	11 49	2							
RAPID CITY	77.66	42.7	11 55	2							
LARAMIE	78.24	46.0	12 0	4							
KRAKOW	78.28	326.7	11 57	1						12 23	PCP
RACIBORZ	78.99	327.6	12 2	2							
POTSDAM	79.21	331.6	12 11	10							
COLLMBERG	80.10	331.0	12 6A	0			12 32	12 16	PCP		
HALLE	80.33	331.7	11 56	-11							

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PRUHONICE	80.55	329.4	12 10A	2					14 19
BRATISLAVA	80.92	326.9	12 11	1					
JENA	80.93	331.5	12 10	0					12 47
TUCSON	81.05	55.7	12 22	11					
TUCSON TELE.	81.06	55.5	12 13	2					
PLAUEN	81.07	331.0	12 19	8					
STUTTGART	83.55	331.5	12 25	1					13 41
LJUBLJANA	83.68	327.0	12 24	-1					
EBINGEN	84.16	331.3	12 28	1					
TRIESTE	84.32	327.2	12 29	1					
PALISADES	93.27	27.4				24 17	6		
TAMANRASSET	106.94	319.8							18 36 PP
BYRD STATION	129.44	167.0	19 3	0					
LA PAZ	144.38	59.7	19 40	9					

MARCH 23 11.H 50.M 59.S EPICENTRE 39.27 143.28 DEPTH= 0.KM

A=-0.62222 B= 0.46408 C= 0.63045 D= 0.5979 E= 0.8016  
G=-0.5054 H= 0.3769 K=-0.7762 HT= -1.4

SE= 3.17

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
MIYAKO	1.08	290.8	0	25A	2	0	45	6				
MIZUSAWA	1.68	265.8	0	33	2	0	52	-2				
MORIOKA	1.69	285.3	0	34A	3	0	57	3				
I SINOMAKI	1.75	241.8	0	33A	1	1	2	6				
HATINOHE	1.84	313.5	0	36A	2	1	5	7				
SENDAI	2.11	242.5	0	38A	1	1	6	1				
ADMORI	2.47	309.6	0	49	7	1	27	13				
AKITA	2.50	281.3	0	45A	2	1	18	3				
YAMAGATA	2.51	246.9	0	44	1	1	22	7				
HUKUSIMA	2.68	236.3	0	46A	0	1	28	9				
SAKATA	2.71	263.2	0	53	7	1	32	12				
URAKAWA	2.90	352.6	0	51	2	1	22	-3				
ONAHAMA	2.98	219.8	0	45	-5	1	27	0				
HIROO	3.00	0.5	0	51	1	1	27	0				
HAKODATE	3.18	323.6	0	56	3	1	35	3				1 18
SHIRAKAWA	3.23	229.3	0	53	0	1	38	5				1 29
MORI	3.50	324.7	1	6	9	1	52	12				
MURORAN	3.51	330.9	0	59	2	1	50	10				
NIIGATA	3.58	249.2	1	1	3	1	57	15				
TOMAKOMAI	3.59	339.5	1	12	13	1	59	17				
OBHIRO	3.64	359.0	1	0	1	1	33	-11				
MITO	3.65	218.5	0	59	0	1	50	6				
KUSIRO	3.80	12.5	1	1	0	1	43	-5				
UTUNOMIYA	3.83	225.9	1	0	-2	1	49	1				1 18
TUKUBASAN	3.96	220.6	1	1A	-3							
TYOSI	4.04	209.4	1	2	-3	2	18	24				
SAPPORO	4.06	339.6	1	5	0	2	6	12				
AIKAWA	4.13	254.0	1	8	2	2	18	22				
SUTTSU	4.21	327.8	1	23	16	2	11	14				
KUMAGAYA	4.39	226.0	1	12	2	2	20	17				
MAEBASI	4.40	230.6	1	10A	0	2	12	9				
NEMURO	4.41	22.4	1	7	-3	1	52	-11				
TAKADA	4.52	242.9	1	12	0							
HONGO	4.52	219.2	1	11	-1							
TOKYO C.H.O.	4.56	219.2	1	9	-3	2	11	4				
ASAHIGAWA	4.56	351.6	1	14	2	2	25	18				
TITIBU	4.68	226.7	1	13	-1	2	26	16				
OIWAKE	4.76	233.4	1	17	2	2	36	24				
NAGANO	4.78	238.7	1	18	3	2	17	5				2 39
ABASHIRI	4.80	8.6	1	15	-1	2	5	-8				
YOKOHAMA	4.80	218.2	1	21	5	2	22	9				
MATUSIRO	4.85	237.4	1	17A	1	2	13	-1				2 46
MERA	5.15	213.5	1	20	-1							
MATUMOTO	5.18	236.0	1	21	0	2	42	20				
KOHU	5.20	227.7	1	22	1	2	33	10				
HUNATU	5.20	225.1	1	21	0	2	32	9				
WAZIMA	5.36	251.4	1	25	1							
AJIRO	5.38	219.7	1	26	2							
MISIMA	5.40	221.2	1	27	3	2	47	19				
TOYAMA	5.45	243.8	1	26A	1	2	47	18				
OSIMA	5.47	216.0	1	24	-1							
TAKAYAMA	5.71	238.8	1	30	1							



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1960					PAGE 264		
SODANKYLA	63.48	337.3	10 33	-1			
ASHKABAD	63.88	298.7	10 35	-2	19	5	-7
KARACHI	64.47	282.0	10 41	0			
KIRUNA	64.95	339.4	10 43	-1			
CORVALLIS	65.93	51.4	10 56	6			
MOSCOW	66.33	323.5	10 51	-2			
PULKOVO	67.01	329.6	10 55	-2			20 40 SCS
NURMI JARVI	68.66	332.2	11 6	-2			
HELSINKI	68.78	331.8	11 15	7			
HUNGRY HORSE	69.15	44.1	11 9	-2			
TIFLIS	70.59	308.3	11 18	-1			
RENO	70.88	54.3	11 32	11			
BUTTE	71.34	45.5	11 30	6			
UPPSALA	71.59	334.4	11 24	-1			
BOZEMAN	72.39	45.1	11 32	2			
SHIRAZ	72.46	294.1	11 29	-2	20	48	-7
EUREKA	73.31	52.5	11 34	-2			
SIMFEROPOL	74.75	316.0					17 29 PSP
SALT LAKE C.	75.00	49.5	1 49	4			
GOTEBORG	75.12	335.3	11 44	-2			
PASADENA	75.13	58.1	11 54	8			
LWOW	76.43	324.5	11 53	-1			
RAPID CITY	77.65	42.6	12 3	3			
KRAKOW	78.06	326.6	12 2	-1			12 20 PCP
LARAMIE	78.25	45.9	12 7	3			
RACIBORZ	78.77	327.5	12 6	0			
COLLMBERG	79.88	330.9	12 12	-1			12 21 PCP
PRUHONICE	80.33	329.3	12 13A	-2			15 19 PP
JENA	80.71	331.4	12 16	-1			13 7
PLAUEN	80.85	330.8	12 13	-5			
VIENNA-H.	80.95	327.2	12 18	0			
TUCSON	81.10	55.6	12 18	-1			
TUCSON TELE.	81.1	55.4	12 28	9			
HEIDELBERG	83.02	332.0	12 27	-2			
STUTTGART	83.34	331.4	12 29	-2			
LJUBLJANA	83.46	326.9	12 30	-1			
TOLMEZZO	83.81	327.9	12 32	-1			13 44
TRIESTE	84.10	327.1	12 34	0			
BASLE	85.00	331.6	12 39	0			
PARIS	85.67	335.2	12 41	-1			
BESANCON	85.82	332.4	12 42	-1			
FOLINIERE	86.64	336.9	12 49	2			
TAMARASSET	106.72	319.6					18 42 PP
BYRD STATION	129.62	167.0	19 11	-1			

MARCH 23 16.H 1.M 10.S EPICENTRE 39.21 143.57 DEPTH= 45.KM

A=-0.62508 B= 0.46139 C= 0.62960 D= 0.5939 E= 0.8046  
G=-0.5066 H= 0.3739 K=-0.7769 HT= -1.4

DEPTH OF FOCUS= 0.002R

SE= 3.33

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S		
MIYAKO	1.31	290.1	0	20A	-3	0	40	0				
MIZUSAWA	1.90	268.4	0	28	-3	0	54	0				
MORI OKA	1.92	285.5	0	31	0	0	58	3				
ISINOMAKI	1.92	246.8	0	30A	-1	1	4	9				
HATI NOHE	2.05	310.7	0	31	-2	1	2	4				
SENDAI	2.29	246.6	0	34A	-2	1	0	-4				
AOMORI	2.68	307.8	0	45	3	1	24	10				
YAMAGATA	2.69	250.2	0	40	-2	1	17	3				
AKITA	2.73	281.8	0	42A	-1	1	7	-8				
HUKUSIMA	2.83	240.0	0	42A	-2	1	18	0				
SAKATA	2.93	265.1	0	55	9	1	34	14				
URAKAWA	3.00	348.7	0	44	-3	1	15	-7				
HIROO	3.07	356.6	0	45	-3	1	21	-3				
ONAHAMA	3.09	223.9	0	46	-2							
SHIRAKAWA	3.36	232.7	0	50	-2	1	27	-4				
HAKODATE	3.37	321.4	0	52	0	1	33	2				
MURORAN	3.68	328.5	1	5	9	1	47	8				
MORI	3.68	322.7	0	58	2	1	41	2				
OB IHIRO	3.72	355.8	1	0	3	1	44	4				
TOMAKOMAI	3.73	336.9	1	6	9	1	57	17				
MITO	3.74	221.9	0	54	-3	1	35	-6				

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NIIGATA	3.77	251.4	1 8	11	2 0	19	
KUSIRO	3.82	9.2	0 54	-4	1 36	-6	
UTUNOMIYA	3.95	228.9	0 56	-4	1 58	12	
KAKIOKA	4.01	223.1	0 59	-2	2 5	18	
TUKUBASAN	4.06	223.7	0 58K	-4			
TYOSI	4.10	212.7	0 59	-3	2 11	21	
SAPPORO	4.20	337.2	1 6	2	2 6	14	
AIKAWA	4.33	255.8	1 5	0	2 16	21	
SUTTSU	4.39	325.9	1 20	14	2 5	8	2 48
NEMURO	4.39	19.6	1 2	-4	1 47	-10	
KUMAGAYA	4.51	228.7	1 7	-1	1 59	-1	
MAEBASI	4.53	233.2	1 7	-1	2 18	18	
HONGO	4.62	222.0	1 9	0			
TOKYO C.M.O.	4.65	221.9	1 6	-4	1 59	-4	2 55
ASAHI GAWA	4.65	349.2	1 8	-2			
TAKADA	4.69	245.0	1 11	1			
TITIBU	4.81	229.3	1 10	-2			
ABASHIRI	4.84	6.1	1 10	-3	2 2	-6	
YOKOHAMA	4.90	220.8	1 22	9	2 36	26	2 8
OI WAKE	4.91	235.7	1 16	3	2 30	20	
NAGANO	4.94	240.8	1 14	0	2 16	5	
MATUSIRO	5.01	239.5	1 14A	-1			2 6
MERA	5.22	216.1	1 16	-2			
HUNATU	5.32	227.4	1 21	2	2 33	13	
KOHU	5.33	230.0	1 19	0	2 43	23	
MATUMOTO	5.33	238.1	1 19	0			
AJIRO	5.47	222.1	1 28	7	2 22	-2	
MISIMA	5.50	223.5	1 20	-2	2 43	18	
WAZIMA	5.55	252.9	1 28	5			
OSIMA	5.56	218.4	1 23	0			
TOYAMA	5.62	245.5	1 24	1	2 40	12	3 9
IIDA	5.87	232.9	1 30	3	2 57	23	
SHIZUOKA	5.91	225.9			2 59	24	
OHAE SAKI	6.29	224.6	1 46	13	3 3	19	3 27
WAKKANAI	6.36	347.9					2 50
HAMAMATU	6.48	228.1					2 10
GIHU	6.62	237.0	1 36	-1	3 0	7	
NAGOYA	6.63	234.6	1 41	3	3 5	12	
HIKONE	7.04	238.3	1 45	2	3 21	18	
KAMEYAMA	7.15	234.7	2 9	24			3 47
KYOTO	7.53	238.7	1 50	0	3 27	12	
NARA	7.67	236.3	1 52	0			
ABUYAMA	7.72	238.4	1 50K	-3			
Y.-SAKHLINSK	7.83	355.7	1 52	-2	3 18	-5	
OWASE	7.83	231.4	2 6	12			3 54
OSAKA	7.88	237.2	2 17	22			4 17
KOBE	8.09	238.6			3 38	9	
SUMOTO	8.48	237.7	2 16	13			4 44
SIOMI SAKI	8.52	230.0					3 17
TAKAMATU	9.06	240.4	2 13	2			
VLADIVOSTOK	9.63	297.7	2 16	-3	3 58	-9	
KOTI	9.87	238.2	2 15	-7			
MATUYAMA	10.20	241.6	2 26	-1			3 27
CHANGCHUN	14.43	294.5	3 20	-3			
PETROPAVLOVK	17.27	32.0	4 5	5	7 19	10	
ZO-SE	19.98	253.0	4 31	-1	8 10	1	
MAGADAN	20.87	10.4	4 39	-2	8 25	-1	
PEKING	21.10	281.0	4 40A	-3	8 22	-8	
NANKING	21.33	258.1	4 42	-3			
YAKUTSK	24.36	344.1	5 13	-2	9 29	0	
WUHAN	25.24	258.9	5 25A	1			
PAOTOW	25.68	283.8	5 27	-1			
ULAN-BATOR	27.74	300.3	5 48	1			
SIAN	28.10	270.8	5 49A	-1			
IRKUTSK	29.95	308.9	6 5	-1	10 59	-1	
HONG KONG	30.19	244.7	6 16	8			
BAGUIO CITY	30.31	228.0	6 12	2			
MANILA	31.44	225.2	6 22	2			
LANCHOW	31.46	276.9	6 19A	-1			
CHENG TU	33.32	267.5	6 35	-1	11 50	-2	
TIKSI	33.34	351.6	6 36	0			
KUNMING	36.99	260.1	7 8	1			
SHILLONG	45.16	268.5	8 10	-4			
COLLEGE	46.35	33.3	8 23	-1			
FRUNSE	50.82	297.7	8 57	-1			9 56
SVERDLOVSK	54.66	318.0	9 27	0			
TASHKENT	55.07	297.8	9 28	-2			
LAHORE	55.74	285.0	9 35	0			
STALINABAD	56.59	295.0	9 40	-1			



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WARSAK DAM	56.65	288.9	9 40	-1	
ISFJORD	59.21	349.3	9 56	-3	
RESOLUTE	60.07	15.2	10 4	-1	
APATITY	61.41	335.8	10 13	-1	
QUETTA	61.93	287.3	10 17A	-1	
THULE	62.88	8.1	10 21	-3	
SODANKYLA	63.62	337.3	10 28	-1	
KIRUNA	65.08	339.5	10 38	0	
PENTICTON	65.43	45.6	10 40	-1	
MOSCOW	66.52	323.6	10 47	0	
PULKOVO	67.18	329.7	10 51	-1	
NURMI JARVI	68.82	332.3	11 2	0	
HUNGRY HORSE	69.04	44.2	11 4	1	
SKALSTUGAN	70.50	339.1	11 11	-1	
TIFLIS	70.81	308.4	11 14	0	
UPPSALA	71.74	334.5	1 19	-1	
BOZEMAN	72.28	45.2	11 30	7	
EUREKA	73.17	52.7	11 29	1	
GOTEBORG	75.27	335.5	11 41	1	
RAPID CITY	77.55	42.7	12 1	8	13 9
KRAKOW	78.24	326.8	11 58	1	12 7 PCP
RACIBORZ	78.94	327.6	12 2	1	
CPILLMBERG	80.05	331.0	12 7	0	12 16 PCP
PRUHONICE	80.50	329.4	12 10A	1	
COLLMBERG	80.05	331.0	12 7	0	12 16 PCP
PRUHONICE	80.50	329.4	12 10A	1	
JENA	80.88	331.5	12 11	0	12 39
STUTTGART	83.50	331.5	12 25	0	
LJUBLJANA	83.63	327.0	12 26	1	
TAMANRASSET	106.91	319.8			18 37 PP
BYRD STATION	129.51	167.0	19 6	2	

MARCH 23 20.H 3.M 43.S EPICENTRE 32.39 103.60 DEPTH= 0.KM

A=-0.19889 B= 0.82231 C= 0.53315 D= 0.9720 E= 0.2351  
G=-0.1253 H= 0.5182 K=-0.8460 HT= 1.0

SE= 2.1

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
CHENG TU	1.76	168.4	0	34	2	0	59	4				
SIAN	4.83	66.0	1	17	1	2	17	4				
KUNMING	7.29	186.1	1	51	1							
WUHAN	9.55	98.3	2	19	-3							
LHASA	11.12	259.0	2	46	3							
SHILLONG	12.31	239.5	2	58A	-1						6	52
CANTON	12.65	134.7	3	5	1	5	33	6				
PEKING	12.69	49.6	3	6	2							
NANKING	12.86	87.4	3	4	-3	5	30	-2				
CHITTAGONG	14.46	229.2	2	37	-51							
ZO-SE	15.02	90.2	3	34	-1							
CHATRA	15.32	253.0	3	40	1							
ULAN-BATOR	15.71	8.2	3	51	7							
IRKUTSK	19.87	1.3	4	38	3							
CHANGCHUN	20.48	49.9	4	42	0	8	30	3				
DEHRA DUN	21.90	271.4				8	59	5				
LAHORE	24.81	275.9	5	28	3							
WARSAK DAM	26.81	282.2	5	44	0							
MATUSIRO	28.74	72.1	5	59	-2							
QUETTA	31.30	275.8	6	18	-6							
YAKUTSK	34.07	21.8	7	5	17							
MOSCOW	50.61	318.1	9	4	1							
KHEYS	51.46	351.4	9	10	1							
APATITY	52.95	333.1	9	20	0							
SODANKYLA	55.57	332.8	9	39	0							
KIRUNA	57.90	333.6	9	55	-1							
ISFJORD	58.56	345.9	9	58	-3							
UPPSALA	60.64	324.7	10	14	-1							
SKALSTUGAN	62.09	329.6	10	24	-1							
GOTEBORG	64.09	323.4	10	34	-4							
PRUHONICE	65.40	314.8	10	46A	0							
CHARTERS TS.	66.25	135.9	10	53	1							
LJUBLJANA	66.92	310.8	10	56	0							
COLLEGE	68.47	25.8	11	5	-1							
STUTTGART	69.04	315.1	11	10	1							

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THULE	71.33	358.0	11 22	-1
RESOLUTE	72.50	5.1	11 29A	-1
ADELAIDE	74.69	150.7	11 45	2
CANBERRA	79.69	143.7	12 10A	-1
TAMARASSET	84.52	293.4	12 36	0
BROKEN HILL	85.52	249.9	12 42A	1
BULAWAYO	88.66	245.2	12 56	0
PENTICTON	90.02	26.6	13 2	-1
HUNGRY HORSE	92.85	24.1	13 17	1

MARCH 23 21.H 34.M 18.S EPICENTRE 39.36 143.60 DEPTH= 0.KM

A=-0.62403 B= 0.46006 C= 0.63161 D= 0.5934 E= 0.8049  
G=-0.5084 H= 0.3748 K=-0.7753 HT= -1.4

SE= 3.17

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
MIYAKO	1.29	283.5	0	25A	-1	0	44	0				
MORI OKA	1.91	281.0	0	35A	1	1	2	3				
MI ZUSAWA	1.93	264.0	0	35	0	0	52	-8				
HATI NOHE	1.98	307.0	0	36A	1	1	3	2				
I SINOMAKI	2.01	243.2	0	35A	-1	0	57	-5				
SENDAI	2.37	243.6	0	38A	-3	1	4	-7				
AOMORI	2.61	304.9	0	47	3	1	18	1				
AKITA	2.73	278.7	0	54	8	1	31	11				
YAMAGATA	2.77	247.5	0	46	-1	1	16	-5				
URAKAWA	2.86	347.7	0	49	1	1	19	-5				
HIROO	2.93	355.9	0	50	1	1	25	0				
HUKUSIMA	2.93	237.8	0	48A	-1	1	32	7				
SAKATA	2.97	262.3	1	3	13	1	39	13				
ONAHAMA	3.21	222.4	0	58	5	1	42	9				
HAKODATE	3.27	319.5	0	55	1	1	32	-2			1	23
SHIRAKAWA	3.48	231.0	0	54	-3	1	34	-5				
MURORAN	3.56	326.9	1	12	14	1	52	11				
OB IHIRO	3.57	355.3	1	1	3						1	31
MORI	3.58	320.9	1	9	11	1	38	-4				
TOMAKOMAI	3.61	335.6	1	11	12	1	42	-1				
KUSIRO	3.67	9.2	1	1	2	1	41	-3				
NIIGATA	3.84	249.5	1	25	23						2	6
MITO	3.87	220.8	1	1	-1	1	43	-6				
UTUNOMI YA	4.07	227.6	1	4	-1	1	46	-8				
SAPPORO	4.08	336.1	1	13	8	1	59	5				
KAKI OKA	4.13	222.0	1	4	-2	1	50	-6				
TUKUBASAN	4.18	222.6	1	3A	-4	1	51	-6				
NEMURO	4.24	19.9	1	6	-2	1	53	-5				
TYOSI	4.24	211.9	1	12	4						2	16
SUTTSU	4.28	324.5	1	18	10						2	34
AIKAWA	4.39	254.0	1	26	16						2	20
ASAHI GAWA	4.51	348.6	1	14	3							
KUMAGAYA	4.63	227.5	1	10	-3						2	30
MAEBASI	4.64	231.9	1	13A	0	1	56	-13				
ABASHIRI	4.69	6.0	1	15	1	2	8	-2				
HONGO	4.75	221.1	0	56	-19							
TAKADA	4.78	243.5	1	16	1							
TOKYO C.M.O.	4.78	221.0	1	15	0	2	16	4			1	37
TITIBU	4.92	228.2	1	15	-2							
OI WAKE	5.01	234.5	1	17	-2	2	39	21				
YOKOHAMA	5.03	220.0	1	24	5	2	27	9				
NAGANO	5.04	239.5	1	19	0	2	37	18				
MATUSIRO	5.11	238.2	1	19A	-1	2	16	-4			2	27
NERA	5.36	215.4	1	27	4							
MATUMOTO	5.43	236.9	1	27	3							
KOHU	5.44	229.0	1	26	1	2	41	12				
HUNATU	5.44	226.4	1	28	3	2	40	11				
AJIRO	5.60	221.3	1	35	8						2	23
MISIMA	5.63	222.7	1	30	3	2	52	19				
OSIMA	5.69	217.7	1	35	7							
TOYAMA	5.71	244.3	1	32	4	3	3	27				
IIDA	5.98	231.9	1	43	11	3	3	21				
SHIZUOKA	6.04	225.1				3	0	16				
WAKKANAI	6.22	347.4									2	38
OMAESAKI	6.41	223.9	1	50	12	3	9	16				
HAMAMATU	6.60	227.3	1	24	-17						3	29
KURILSK	6.67	27.0	1	40	-2	2	54	-5				

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GIHU	6.72	236.1	1 41	-2	3 5	4					
NAGOYA	6.74	233.7	1 48	5	3 17	16					
HIKONE	7.14	237.4	1 48	0							
KAMEYAMA	7.26	233.9	2 4	14	3 47	33					
MAIZURU	7.60	241.8	2 17	22	3 38	15					
KYOTO	7.63	237.9	1 54	-1	3 30	6					
Y.-SAKHLINSK	7.68	355.5	1 54	-2	3 23	-2					
NARA	7.77	235.5	1 45	-12							
ABUYAMA	7.82	237.6	1 55K	-3							
OWASE	7.95	230.7	2 20	20						4 1	
FSAKA	7.98	236.4								2 47	
KOBE	8.19	237.9			3 21	-17					
SUMOTO	8.58	237.0								3 7	
SIOMISAKI	8.64	229.3			3 35	-14					
TAKAMATU	9.16	239.6	2 15	-2						5 0	
VLADIVOSTOK	9.58	296.8	2 23	1							
UGLEGORSK	9.78	354.1	2 25	0	4 14	-3					
CHANGCHUN	14.39	294.0	3 32	5							
ZO-SE	20.05	252.6	4 36	-2	8 13	-5					
MAGADAN	20.72	10.4	4 44	-1	8 34	2					
PEKING	21.09	280.6	4 45A	-4	8 32	-7					
NANKING	21.39	257.8	4 54	2	8 42	-3					
YAKUTSK	24.23	344.0	5 18	-2	9 34	-2					
WUHAN	25.30	258.6	5 30A	0							
ULAN-BATOR	27.69	300.1	5 52	0							
SIAN	28.12	270.5	5 53A	-3							
IRKUTSK	29.88	308.7	6 12	0	1 8	-1					
HONG KONG	30.27	244.5	6 10	-5	11 19	4					
CANTON	30.35	246.7			11 12	-4					
LANCHOW	31.46	276.7	6 24A	-2							
MANILA	31.56	225.1	6 28	1							
KUNMING	37.04	259.9	7 12	-2							
SEMI PALATNSK	44.94	305.9	8 17	-2							
SHILLONG	45.19	268.3	8 18K	-3							
COLLEGE	46.21	33.4	8 29	0							
CHITTAGONG	46.93	264.6	8 35	1							
CHATRA	48.19	272.8	8 42A	-2							
KHEYS	50.73	347.8	9 5	1							
FRUNSE	50.77	297.6	9 4	0						11 2 PP	
SVERDLOVSK	54.57	318.0	9 32	0							
TASHKENT	55.02	297.7	9 34	-2						9 44	
LAHORE	55.73	284.9	9 42	1							
STALINABAD	56.55	294.9	9 45	-2							
WARSAK DAM	56.63	288.8	9 45	-2							
RESOLUTE	59.92	15.2	10 9A	-1							
APATITY	61.28	335.7	10 18	-2							
QUETTA	61.91	287.2	10 22A	-2							
THULE	62.73	8.1	10 26	-3							
POONA	62.99	272.4	10 30	-1							
SODANKYLA	63.49	337.3	10 33	-1							
KIRUNA	64.95	339.5	10 42	-2							
PENTICTON	65.31	45.7	10 46	0							
CORVALLIS	65.68	51.5	10 50	1							
MOSCOW	66.41	323.6	10 52	-1							
PULKOVO	67.06	329.7	10 57	0							
SHASTA	68.34	54.7	11 5	0							
HELSINKI	68.82	331.9	11 7	-1							
HUNGRY HORSE	68.91	44.3	11 10	1							
SKALSTUGAN	70.37	339.1	11 16	-2						13 41	
RENO	70.63	54.5	11 24	5							
TIFLIS	70.73	308.4	11 19	-1							
UPPSALA	71.62	334.5	11 25	0							
BOZEMAN	72.16	45.3	11 28	-1							
SHIRAZ	72.65	294.2	11 30	-2							
EUREKA	73.06	52.7	11 35	1							
PASADENA	74.88	58.2	11 45	0							
GOTEBORG	75.15	335.5	11 46	0							
LWOW	76.50	324.6	11 54	0							
RAPID CITY	77.42	42.7	11 59	0							
COLLMBERG	79.93	331.0	12 12A	-1						12 21 PCP	
PRUHONICE	80.39	329.4	12 14A	-1						13 6	
JENA	80.76	331.6	12 16	-1						13 8	
TUCSON TELE.	80.86	55.6	12 18	0							
PLAUE	80.90	331.0	12 22	4							
SONNEBERG	81.35	331.4	12 20	0							
STUTTGART	83.38	331.5	12 30	-1						12 40 PCP	
LJUBLJANA	83.52	327.0	12 31	0							
TOLMEZZO	83.86	328.1	12 32	-1						13 32	

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BASLE 85.04 331.8 12 40A 1  
 TAMANRASSET 106.81 319.9 18 40 PP  
 BYRD STATION 129.65 167.0 19 11 -1

MARCH 23 22.H 22.M 37.S EPICENTRE 39.35 143.24 DEPTH= 0.KM

A=-0.62123 B= 0.46401 C= 0.63148 D= 0.5984 E= 0.8012  
 G=-0.5059 H= 0.3779 K=-0.7754 HT= -1.4

SE= 2.83

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
MIYAKO	1.03	287.4	0	22A	1	0	36	0				
MORIOKA	1.64	283.0	0	33A	3	0	57	5				
MIZUSAWA	1.66	263.1	0	31	1	0	55	3				
ISINOMAKI	1.76	239.2	0	31A	-1	1	0	5				
HATINOHE	1.77	312.4	0	33A	1	0	56	1				
SENDAI	2.12	240.3	0	33A	-4	1	7	3			0	58
AOMORI	2.39	308.7	0	44A	3	1	17	6				
AKITA	2.46	279.7	0	44A	2	1	24	11				
YAMAGATA	2.51	245.0	0	43	1	1	20	6				
SAKATA	2.69	261.5	0	53	8	1	34	15				
HUKUSIMA	2.70	234.6	0	45	0							
URAKAWA	2.82	353.0	0	50	3	1	21	-1				
HIROO	2.93	1.1	0	48	0	1	25	0				
ONAHAMA	3.02	218.4	0	47	-3	1	35	8				
HAKODATE	3.10	323.2	0	54A	3	1	37	8				
SHIRAKAWA	3.26	227.9	0	52	-1	1	29	-4				
MORI	3.42	324.4	0	58A	3	1	39	2				
MURORAN	3.43	330.7	0	57	2	1	51	14				
TOMAKOMAI	3.51	339.5	1	2	5	1	43	4				
OBHIRO	3.57	359.5	1	0	3	1	46	5				
NIIGATA	3.58	247.8	1	1	3	1	51	10			2	6
MI TO	3.69	217.4	1	0	1	1	33	-11				
KUSIRO	3.73	13.2	1	1	1	1	44	-1				
UTUNOMIYA	3.86	224.7	1	3	1	1	43	-5			1	28
KAKIOKA	3.95	218.9	1	2	-1	1	46	-4				
SAPPORO	3.98	339.6	1	3A	0	1	57	6				
TYOSI	4.09	208.4	1	2K	-3	2	5	11				
AIKAWA	4.13	252.8	1	8	3	1	59	4				
SUTTSU	4.13	327.5	1	6	1	1	43	-12			2	10
NEMURO	4.35	23.1	1	7	-1	1	54	-7				
MAEBASI	4.42	229.6	1	8A	-1	2	5	3				
KUMAGAYA	4.42	225.0	1	11	2	2	17	15				
ASAHI GAWA	4.48	351.9	1	11	1	2	26	22				
TAKADA	4.53	241.8	1	12	1	2	5	0				
HONGO	4.56	218.3	1	10	-1							
TOKYO C.M.O.	4.60	218.2	1	8	-4	2	12	5			1	43
TITIBU	4.71	225.8	1	12	-2	2	22	12				
ABASHIRI	4.73	9.1	1	13	-1	2	6	-4				
OIWAKE	4.78	232.4	1	15	0						2	37
NAGANO	4.80	237.7	1	16	1						2	44
YOKOHAMA	4.85	217.3	1	11	-4	2	5	-8				
MATUSIRO	4.87	236.4	1	15A	-1	2	18	4				
MERA	5.19	212.7	1	20	0	2	30	8				
MATUMOTO	5.20	235.1	1	20	0	2	33	11				
KOHU	5.23	226.8	1	22	1	2	32	9				
HUNATU	5.24	224.2	1	21	0	2	32	9				
WAZIMA	5.36	250.5	1	25	2							
AJIRO	5.42	218.9	1	25	1	2	20	-8			2	52
MISIMA	5.44	220.4	1	26	2	2	33	5				
TOYAMA	5.45	242.9	1	26	2	2	46	18				
OSIMA	5.52	215.2	1	24	-1						2	9
TAKAYAMA	5.72	237.9	1	29	1							
IIDA	5.76	230.1	1	29	1	2	44	8				
SHIZUOKA	5.84	223.0	1	28	-1	2	55	17			2	41
KANAZAWA	5.92	243.7	1	13	-18							
WAKKANAI	6.18	349.7	1	37	3	2	38	-9				
OMAESAKI	6.21	221.9	1	44	9	2	55	7				
HAMAMATU	6.39	225.4	1	45	8	3	0	8				
HUKUI	6.46	241.5	1	38	0	2	59	5				
GIHU	6.49	234.6	1	37	-2	3	0	6				
NAGOYA	6.51	232.1	1	43	4	3	15	20				
TSURUGA	6.79	239.3	1	44	1	3	17	15				
KURILSK	6.80	28.8	1	41	-2	2	55	-7				
HIKONE	6.90	236.0	1	47	3	3	21	16				

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KAMEYAMA	7.03	232.4	1 40	-6	3 17	9	
TU	7.10	231.3					2 37
MAIZURU	7.35	240.7	1 53	2	3 26	10	
KYOTO	7.39	236.6	1 50	-1	3 24	7	
NARA	7.54	234.1	1 52	-1	3 25	4	
ABUYAMA	7.59	236.3	1 52A	-2			
Y.-SAKHLINSK	7.68	357.3	1 55	0	3 23	-1	
TOYOOKA	7.71	243.0	1 55	-1	3 41	16	
OWASE	7.73	229.2	2 1	5	3 42	17	
OSAKA	7.75	235.1	1 58	2	3 41	15	
KOBE	7.95	236.6	1 57	-2	3 34	3	
WAKAYAMA	8.25	234.2	2 12	9			
SUMOTO	8.34	235.8	2 11	6	3 55	14	4 33
SIOMISAKI	8.42	227.9	2 12	6	4 0	17	
SAIGO	8.45	251.3	2 8	2	4 14	31	
TOKUSIMA	8.72	235.5	2 25	15	4 4	14	
YONAGO	8.79	246.7	2 13	2	3 54	2	5 25
TAKAMATU	8.91	238.6	2 5	-8	4 15	20	
MATSUE	8.98	247.5	2 17	4			
TORISIMA	9.17	196.1			3 54	-9	
VLADIVOSTOK	9.34	297.4	2 19	1	4 1	-4	
MUROTO	9.51	233.0	2 37	16			4 42
KOTI	9.73	236.5	2 24	0	4 25	10	
HAMADA	9.96	247.0	2 25	-2	4 20	-1	
HIROSIWA	9.98	243.5	2 25	-2	4 25	4	
MATUYAMA	10.05	240.1	2 28	0	4 17	-6	5 28
UWAZIMA	10.57	238.0	2 36	1	5 14	38	5 48
SIMIDU	10.58	234.9	2 33	-3	5 3	27	
OOITA	11.19	240.5	2 49	5	5 8	17	
ASOSAN	11.75	240.6	3 5	13			5 42
HUKUOKA	11.84	244.9	2 53	0	5 25	18	
KUMAMOTO	12.05	241.1	2 53	-3			6 27
SAGA	12.08	243.7	2 56	0			6 50
MIYAZAKI	12.14	236.0	2 55	-2	6 1	47	6 50
NAGASAKI	12.67	242.7	3 1A	-3	5 53	26	
KAGOSIMA	12.92	237.0	2 55	-12			6 29
TOMIE	13.50	244.6	3 15	0			7 23
YAKUSIMA	13.71	233.5	3 4	-14			
CHANGCHUN	14.14	294.2	3 22A	-1	5 59	-3	
OKHA	14.21	359.2	3 25	1	6 0	-4	
PETROPAVLOVK	17.29	32.7	4 7	3			4 24 PPP
ZO-SE	19.78	252.2	4 30A	-4	8 6	-6	
KLYUCHI	20.59	28.7	4 43	0			
MAGADAN	20.78	10.9	4 45	0	8 31	-2	
PEKING	20.82	280.5	4 40A	-5	8 24	-9	
NANKING	21.12	257.4	4 45A	-3	8 33	-6	
TAIPEI	23.20	238.5	4 56	-13	9 14	-3	
ILAN	23.22	237.6	5 7	-2			
HWALIEN	23.87	236.4	5 21	6			
YAKUTSK	24.16	344.4	5 16	-2	9 31	-3	
TAICHUNG	24.35	238.2	6 10	50			
WUHAN	25.02	258.3	5 26A	-1	9 48	-1	
TAITUNG	25.04	235.1	5 24	-3	9 48	-1	
GUAM	25.82	176.7	5 33	-1	10 0	-2	
HENGCHUN	25.83	234.6	5 41	7			
ULAN-BATOR	27.45	300.2	5 50	1			
SIAN	27.84	270.3	5 50	-3			
IRKUTSK	29.67	308.7	6 9A	0	11 4	-1	
HONG KONG	30.02	244.1	6 1A	-1	11 5	-5	
CANTON	30.09	246.3	6 12A	-1	11 9	-2	
BAGUIO CITY	30.22	227.3	6 11	-3	11 11	-2	
LANCHOW	31.19	276.5	6 21A	-2			
MANILA	31.36	224.6	5 58	-26	11 28	-3	
TIKSI	33.17	351.7	6 38	-2			7 51 PP
KUNMING	36.77	259.6	7 9A	-2	12 52	-3	
LHASA	43.58	273.7	8 8	1			
RABAUL	44.11	167.2	8 6	-5			9 51
SEMIPALATNSK	44.72	305.9	8 15	-1	14 46	-7	14 52
SHILLONG	44.91	268.1	8 16A	-2	14 54	-2	9 51 PP
COLLEGE	46.37	33.4	8 28	-1	15 17	0	18 19 SS
CHITTAGONG	46.65	264.4	8 32A	0	15 20	-1	10 21 PP
CHATRA	47.92	272.6	8 39A	-3	15 36	-3	
PORT MORESBY	48.63	174.9	8 46	-1	15 44	-5	
CALCUTTA	49.23	266.9	8 30	-22	16 0	3	
BOKARO	50.52	270.0	9 2A	0	16 13	-2	
FRUNSE	50.53	297.5	9 1	-1			
KHEYS	50.68	347.8	9 4	1	16 17	-1	
PORT BLAIR	52.42	252.6	9 18	2	16 41	-1	

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KIPAPA	52.83	91.7	9 19	0							
HONOLULU	52.83	91.9	9 17	-2	16 48	1					
DEHRA DUN	53.24	281.5	9 26	4	16 54	1				11 23	PP
SVERDLOVSK	54.39	317.9	9 29	-1						11 36	PP
TASHKENT	54.78	297.6	9 32	-1						17 15	PS
AGRA	54.83	278.1	9 31A	-3	17 13	-1				11 34	PP
LAHORE	55.46	284.8	9 41	3	17 29	6				11 45	PP
STALINABAD	56.30	294.8	9 44	0	17 34	0					
WARSAK DAM	56.37	288.7	9 42	-3							
DJARKARTA	56.43	225.1								15 43	
LEMBANG	56.55	223.9	9 40K	-6	17 26	-11					
NORD	58.83	356.6	10 0A	-2	18 9	2					
ISFJORD	59.02	349.2	10 2	-2							
CHARTERS TS.	59.19	176.7	10 8	3	18 3	-9					
HYDERABAD	59.78	268.3	10 8	-1	18 19	0				12 22	PP
RESOLUTE	60.00	15.1	10 7	-3	18 21	-1					
MADRAS	61.08	263.1	10 17	-1	18 31	-5				12 32	PP
APATITY	61.18	335.6	10 10	-8	18 15	-22				14 1	PPP
QUETTA	61.64	287.1	10 19A	-2	18 44	1				12 37	PP
POONA	62.72	272.2	10 27A	-2	18 56	-1					
THULE	62.78	8.0	10 25	-4						11 16	PCP
BOMBAY	63.30	273.2	10 31	-1	19 2	-2				12 53	PP
SODANKYLA	63.39	337.2	10 31	-2							
VICTORIA	63.79	47.7	10 32	-4							
ASHKABAD	63.81	298.7	10 36	0						11 13	PCP
KARACHI	64.42	282.0	10 39A	-1							
KIRUNA	64.86	339.4	10 43	0						12 50	
KODAI KANAL	64.87	262.5								18 42	
COLOMBO	65.14	258.0	10 45	1	19 45	18					
PENTICTON	65.51	45.5	10 47	0							
CORVALLIS	65.90	51.4	10 49	0							
MOSCOW	66.25	323.5	10 52	0						13 20	PP
PULKOVO	66.93	329.6	10 54	-2							
BRISBANE	66.99	170.8	10 51	-5	19 46	-3					
BERMUDA	104.07	24.1			25 55	1				33 23	SS
SHASTA	68.57	54.5	11 4	-2							
NURMIJARVI	68.58	332.2	11 7	1	20 6	-2				11 33	PCP
HELSINKI	68.70	331.8	11 5	-2							
HUNGRY HORSE	69.12	44.1	11 10	0							
SCORESBY SD.	69.96	354.8	11 15	0	20 27	2					
BERKELEY	70.25	57.0	11 18	1	20 30	2				12 3	
SKALSTUGAN	70.28	339.0	11 16	-1						13 53	
TIFLIS	70.52	308.2	11 18	0	20 29	-2				15 37	PPP
RENO	70.86	54.3	11 22	2							
GORIS	70.86	305.6	11 20	0	20 34	-1				14 1	PP
LICK	70.96	57.1	11 25A	4							
BUTTE	71.31	45.5	11 25	2							
UPPSALA	71.51	334.4	11 22	-2						14 10	
BOZEMAN	72.36	45.1	11 29	0							
FRESNO	72.49	56.7	11 32	2							
RIVERVIEW	73.18	173.1			20 59	-3				11 51	PCP
EUREKA	73.29	52.5	11 33	-2							
ADELAIDE	74.07	183.9	11 53	14							
CANBERRA	74.49	175.1	11 47A	5							
SIMFEROPOL	74.68	315.9	11 42A	-1						14 29	PP
SALT LAKE C.	74.97	49.5	11 47	3							
GOTEBORG	75.04	335.3	11 46	1						14 15	
PASADENA	75.12	58.0	11 43	-2	21 23	0				14 53	PP
WARSAW	75.90	327.6	11 55	5	21 36	4					
LWOW	76.35	324.4	11 53	1						14 45	PP
COPENHAGEN	76.50	333.8	11 52	-1	21 39	0					
IASI	76.54	320.8	11 54	1							
MELBOURNE	76.82	178.6	12 3	8							
RAPID CITY	77.62	42.6	12 2	3							
KRAKOW	77.98	326.6	12 2	1	21 53	-2				13 13	PCP
LARAMIE	78.21	45.9	12 5	2							
RACIBORZ	78.69	327.5	12 5	0						12 17	PCP
POTSDAM	78.91	331.5	12 4	-2						22 5	PS
BUCHAREST	79.22	319.5	12 8A	0	22 11	3				15 11	PP
ABERDEEN	79.51	341.6			22 14	3				27 24	SS
COLLMBERG	79.80	330.9	12 10	-1						15 23	PP
HALLE	80.03	331.5	12 11	-1	22 29	13				15 13	PP
PRAGUE	80.23	329.4	12 26	13							
PRUHONICE	80.25	329.3	12 12A	-2	22 21	2				14 42	
BUDAPEST	80.32	325.3	12 27	13	22 19	0					
HURBANOVO	80.38	326.0								15 53	
BRATISLAVA	80.62	326.8	12 15	-1							
JENA	80.63	331.4	12 14	-2	22 20	-3				16 7	



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PLAUEN	80.77	330.8	12 10	-6							
WITTEVEEN	80.79	335.0	12 18	2							
KSARA	80.96	306.4	12 17A	0	22 29	3			15 22	PP	
CHEB	81.02	330.4	12 25	7							
TUCSON	81.08	55.6	12 26	8							
TUCSON TELE.	81.09	55.4	12 20	2							
MUNSTER	81.18	334.0	12 18	-1					12 43		
SONNEBERG	81.22	331.2	12 17	-2							
DURHAM	81.52	340.3	12 4K	-16							
BELGRADE	81.68	322.8	12 22K	1	22 42	9			15 31	PP	
SOFIA	81.86	319.8	12 22	0					15 33	PP	
DE BILT	81.88	335.4	12 21	-1	22 39	3			15 53	PP	
BENSBERG	82.18	333.7	12 23	-1							
KARAPIRO	82.43	154.8	12 24	-1							
JERUSALEM	82.72	305.3	12 47	20							
ZAGREB	82.93	325.9	12 27K	-1	22 48	2			14 7		
HEIDELBERG	82.94	332.0	12 27	-1							
STUTTGART	83.26	331.3	12 29	0	22 51	1			15 38	PP	
UCCLE	83.26	335.2	12 22	-7	22 48	-2					
LJUBLJANA	83.38	326.8	12 29	-1					17 32	PP	
TUBINGEN	83.53	331.3	12 31	0							
CHATEAU	83.58	155.3	12 38	7							
TOLMEZZO	83.72	327.9	12 30	-2	22 53	-1			13 30		
DOURBES	83.78	334.7	12 33	1	22 56	1					
EBINGEN	83.86	331.2	12 31	-1							
RAVENSBURG	83.95	330.6	12 33	0							
STRASBOURG	83.97	332.1	12 32	-1	22 53	-4					
TRIESTE	84.02	327.0	12 33	0	22 54	-3					
RATHFARNHAM	84.03	342.2	12 32	-1							
KEW	84.12	338.1	12 33	-1	22 57	-1			28 17	SS	
BASLE	84.92	331.6	12 37A	-1							
LAWRENCE	85.43	41.8	12 41	1							
PARIS	85.59	335.2	12 42	1							
BESANCON	85.74	332.4	12 40	-2					16 4	PP	
HELWAN	86.47	306.2	12 45	0	23 7	-14					
TARANTO	86.52	321.8			22 28	-54			27 58		
FOLINIÈRE	86.56	336.9	12 46	0							
PRATO	86.56	327.5	12 47	1	23 7	-15					
JERSEY	86.68	338.1	14 3	77	23 25	2					
CHIAVARI	86.93	328.8	12 51	3	22 59	-26					
ROME	87.58	325.5	12 44	-7	23 20	-12			16 6	PP	
ISOLA	87.87	324.0	12 52	0					16 21	PP	
FLORISSANT	88.02	39.0			23 35	-1			29 32	SS	
FAYETTEVILLE	88.15	43.1	11 55	-58							
ST. LOUIS 1	88.21	39.0	12 57	3	23 37	-1			23 21	SKS	
OTTAWA	88.66	26.3	12 59	3							
MESSINA	89.12	321.4	12 56	-2	23 21	-25			16 28	PP	
PENNSYLVANIA	91.86	30.0			24 9	-2					
PALISADES	93.15	27.2			23 48	-34			25 34	PS	
SETIF	95.37	327.0	13 17	-10					17 6	PP	
ALGIERS UNI.	95.85	328.9			24 13	8			17 23	PP	
GRANADA	97.96	333.8							17 39	PP	
BERMUDA	104.07	24.1			25 55	69			33 23	SS	
TAMANRASSET	106.64	319.6			25 0	3			18 41	PP	
LWIRO	110.20	284.2	19 1	28					21 35		
BULAWAYO	121.32	268.8	17 56K	-59							
MBOUR	123.45	336.8							20 41	PP	
BOGOTA	124.35	47.0	19 18	17	25 23	-41			30 58	PS	
BYRD STATION	129.71	167.0	19 10	-1							
HUANCAYO	136.39	62.2	19 31	8							
LA PAZ	144.42	59.1	19 39	1							
SANTA LUCIA	152.20	88.4	20 3	13					20 46	PKP2	

MARCH 23 23.H 8.M 50.S EPICENTRE 46.57 8.07 DEPTH= 0.KM

A= 0.68306 B= 0.09681 C= 0.72392 D= 0.1403 E=-0.9901  
G= 0.7168 H= 0.1016 K=-0.6899 HT= -4.1

SE= 3.32

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
NEUCHATEL	0.88	299.6									0 21	PG
DROPA	0.95	184.1									0 15	PG
BASLE	1.01	341.0									0 25	PG
CHUR	1.04	74.0									0 21	PG
PAVIA	1.59	150.6									0 28	PG

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RAVENSBURG	1.61	40.7	0 31A	1	0 57	5	
EBINGEN	1.72	20.6	0 33A	1	1 1	6	1 6 SG
STRASBOURG	2.02	354.4	0 38A	2			1 10 SG
TUBINGEN	2.07	18.8	0 37A	0			1 18
STUTTGART	2.35	20.0	0 40A	-1	1 18	8	0 48 PG
CHIAVARI	2.42	158.2	0 48	6			1 9
ISOLA	2.59	23.0	0 40	-4			1 17 SG
HEIDELBERG	2.86	8.6	0 48A	0	1 39	15	0 59 PG
MONACO	2.88	189.2	0 46	-2			1 30 SG
BOLOGNA	3.09	130.9	1 0	9	1 44	15	
TOLMEZZO	3.43	91.1	0 56	0	1 40	2	
PRATO	3.44	140.4	1 4	8			1 53 SG
GARCHY	3.50	283.5	0 58	1			2 1 SG
CLERMONT-FD.	3.53	258.7	0 58	1			1 55 SG
TRIESTE	4.06	101.1	1 2	-3	1 48	-6	1 15 PG
DOORBES	4.22	328.0	1 9	2	2 1	3	
SONNEBERG	4.34	27.5	1 13	4			2 22 SG
PARIS	4.38	302.8	1 10	1			2 23 SG
BENSBERG	4.43	352.6	1 11A	1			2 18 SG
LJUBLJANA	4.50	94.3	1 10	-1	2 6	1	1 29 PG
CHEB	4.54	37.8	1 7	-5			2 30 SG
PLAUEN	4.77	33.2	1 16	1	2 33	21	1 32 PG
UCCLE	4.89	331.2	1 38	21			2 43 SG
JENA	4.94	26.8	1 14	-3	2 2	-14	1 35 PG
MUNSTER	5.41	357.1	1 24	0			
PRAGUE	5.50	48.2	1 24	-1	2 24	-6	1 48 PG
PRUHONICE	5.51	49.4	1 24A	-1	2 22	-8	1 50 PG
ZAGREB	5.55	94.9	1 27	1			1 44 PG
HALLE	5.55	25.9	1 23	-3	2 23	-9	1 36 PG
ROME	5.64	144.3	1 42	15			2 36
COLLMBERG	5.74	32.7	1 25K	-4	2 31	-5	1 54 PG
VIENNA-H.	5.88	70.4	1 29	-2	2 36	-4	1 56 PG
FOLINIERE	6.18	294.0	1 34	-1			
WITTEVEEN	6.32	352.3	1 38A	1			2 17
BRATISLAVA	6.34	72.1	1 35	-2			1 59 PG
POTSDAM	6.66	27.4	1 52	10			3 42 SG
HAMBURG	7.00	9.1	1 44A	-2			2 23
HURBANOVO	7.02	75.7					2 14 PG
JERSEY	7.32	294.6	2 22	31			5 10
KEW	7.38	314.7	1 58	6	3 34	17	2 34 PG
RACIBORZ	7.61	58.8	1 52	-3	3 31	8	2 4 PP
TORTOSA	7.94	226.3	2 24	24	3 52	21	
CHORZOW	8.16	58.9			3 39	2	4 16 S*
BELGRADE	8.84	96.9	2 17A	5			5 4 SG
COPENHAGEN	9.53	15.2	2 23	1			3 11 PG
WARSAW	10.16	51.4			4 29	3	2 44 PPP
DURHAM	10.23	326.9	2 34	3			5 24
ALICANTE	10.36	220.5	2 29	-4	4 22	-9	4 46 SSS
SETIF	10.55	191.9	2 37	1			2 46 PP
TOLEDO	11.08	237.2	2 39	-4			2 50 PP
LWOW	11.14	67.2					5 32
GOTEBORG	11.40	10.7	2 51	4			3 50
RATHFARNHAM	11.43	311.3	2 50K	2	4 46	-11	
ALMERIA	12.49	222.7	2 46	-16			
SERRA PILAR	13.19	251.7	3 5A	-6	5 31	-9	3 17 PP
ATHENS	14.41	121.0					3 36 PP
UPPSALA	14.46	19.6	3 28	0			
HELSINKI	16.87	30.1	3 57	-2			
NURMIJARVI	17.02	28.9	4 0	-1	7 6	-4	
SKALSTUGAN	17.21	6.4	4 7	4			9 1
KIRUNA	22.25	12.4	5 0	0			
SODANKYLA	22.99	18.4	5 7	0			
TAMANRASSET	23.83	185.8	5 16	0			5 52 PP
HELWAN	24.60	124.5	5 21	-2			
APATITY	24.79	23.1	5 25	0			
THULE	42.11	340.0	7 56	0			
QUETTA	47.87	88.4	8 38	-4			
CHATRA	63.80	77.9	10 33A	-3			
SHILLONG	67.79	75.9	10 58	-4			
BULAWAYO	68.95	159.3	11 6	-3			

MARCH 24 5.H 54.M 26.S EPICENTRE 46.68 152.64 DEPTH= 0.KM

A=-0.61 49 B= 0.31640 C= 0.72524 D= 0.4596 E= 0.8881  
G=-0.6441 H= 0.3333 K=-0.6885 HT= -4.2

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SE= 2.54												
	DELTA DEG.	AZ. DEG.	P		O-C	S			*PP		SUPP.	
			M	S	S	M	S	O-C	M	S	M	S
KURILSK	3.63	248.2	1	4	6	1	44	2			1	23
SEVERO-KUR.	4.60	28.6	1	19	7	2	11	4				
Y.-SAKHLINSK	6.81	276.4	1	50	7	3	9	6				
UGLEGORSK	7.50	292.5	2	0	7	3	26	6				
OKHA	9.28	321.4	2	23	5	4	8	4				
KLYUCHI	10.92	24.9	2	44	4							
MAGADAN	12.94	355.8	3	11	4						5	45
MATUSIRO	14.78	231.9	3	32K	0	6	10	-7				
VLADIVOSTOK	15.12	263.9	3	37	1	6	23	-2				
CHANGCHUN	19.42	271.5	4	27	-3							
PEKING	27.16	269.2	5	46K	0	10	19	-5				
TIKSI	27.43	343.9	5	47	-2							
ZO-SE	28.77	248.5				10	49	-1				
NANKING	29.71	252.7	6	10	1							
ULAN-BATOR	30.70	289.3	6	17	-1							
WUHAN	33.47	254.8	6	43K	1							
COLLEGE	36.41	38.3	7	9	1						7	26
LANCHOW	37.59	271.5	7	18K	0	12	59	-9				
CANTON	39.34	246.9	7	34K	2	13	29	-5				
BAGUIO CITY	40.21	232.1	7	38	-1							
MANILA	41.39	230.0	8	47	58							
KUNMING	44.91	259.2	8	18K	0	14	50	-6				
SEMIPALATNSK	46.33	302.5	8	26	-3							
LHASA	50.07	272.9	8	59	1							
RABAU	50.66	180.6	9	3	0							
RESOLUTE	51.01	18.4	9	4K	-1							
SHILLONG	52.05	268.2	9	11K	-2							
FRUNSE	53.39	296.3	9	22	-1							
HORSESHOE B.	53.46	54.0	9	25K	1							
SVERDLOVSK	53.66	317.0	9	23	-2							
VICTORIA	53.84	55.0	9	28	2							
CHITTAGONG	54.19	265.3	9	29	0	17	1	-5			11	30 PP
THULE	54.42	11.0	9	28	-3	16	50	-19			11	35 PP
PENTICTON	55.51	52.5	9	39	0							
CORVALLIS	56.07	58.9	9	44A	1							
TASHKENT	57.52	297.5	9	51	-2						18	10 PS
SHASTA	58.87	62.2	10	3	1							
HUNGRY HORSE	59.09	50.9	10	5	1							
SODANKYLA	59.20	338.6	10	2	-3							
STALINABAD	59.47	295.2	10	4	-3							
LAHORE	60.22	285.6	10	10	-2							
KIRUNA	60.30	341.1	10	10	-2							
WARSAK DAM	60.51	289.5	10	12	-2							
BERKELEY	60.67	64.8	10	16	1							
PORT BLAIR	61.07	255.6	10	19	1							
RENO	61.14	61.9	10	19A	1							
BUTTE	61.31	52.3	10	19	0							
LICK	61.38	64.9	10	21K	1							
VINEYARD	61.91	65.3	10	25	2							
BOZEMAN	62.35	51.9	10	27	1						10	45
FRESNO	62.88	64.3	10	30	0							
SCORESBY SD.	63.09	358.0	10	31K	0							
EUREKA	63.49	59.8	10	35	1						10	56
PULKOVO	63.94	331.6	10	34	-3							
SALT LAKE C.	65.07	56.5	10	45	1							
NURMI JARVI	65.13	334.5	10	44	0						20	30 SCS
HELSINKI	65.31	334.2	10	44	-2							
PASADENA	65.59	65.6	10	47	0	19	28	-4			11	4
SKALSTUGAN	65.71	341.8	10	36	-12							
QUETTA	65.95	289.0	10	49K	-1	19	30	-7			11	9
ASHKABAD	66.21	300.5	10	52	1							
CHARTERS TS.	66.70	186.5	10	54	0						11	22
UPPSALA	67.65	337.3	10	58	-2						11	21
LARAMIE	68.22	52.6	11	5	1						11	26
POONA	69.14	275.1	11	9K	-1							
GOTEBORG	70.98	338.9	11	22	1							
TIFLIS	71.16	311.2	11	22	0						21	1 PS
TUCSON	71.41	62.6	11	24	0						14	3 PP
TUCSON TELE.	71.41	62.5	11	24	0						14	3 PP
COPENHAGEN	72.66	337.7	11	31	0							
LAWRENCE	75.39	48.3	11	46	-1							
POTSDAM	75.42	335.7	11	46	-1						12	15
SHIRAZ	75.43	297.7	11	46A	-1							
COLLMBERG	76.40	335.3	11	51	-2						12	19

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HALLE	76.52	336.0	11 52	-1			
DURHAM	76.60	345.0	11 52K	-2			
WITTEVEEN	76.70	339.6	11 55	1			
PRUHONICE	77.11	333.7	11 56K	0		13 6	PCP
JENA	77.14	335.9	11 56	-1		13 0	
MUNSTER	77.24	338.7	12 6	9			
SONNEBERG	77.74	335.9	11 59	-1			
FAYETTEVILLE	78.12	49.5	11 2A	-60			
ST. LOUIS 1	78.16	45.4	12 3A	1	21 51	-6	
BENSBERG	78.28	338.5	12 2	-1			
RATHFARNHAM	78.79	347.3	12 8	2			
UCCLE	79.12	340.1	12 9	2			
HEIDELBERG	79.31	337.0	12 8	-1			
KEW	79.50	343.2	12 9	-1			
BELGRADE	79.61	327.6	12 9K	-1		13 20	
DOURBES	79.71	339.7	12 11	0		15 5	PP
STUTTGART	79.73	336.3	12 10	-1		12 36	
TUBINGEN	80.00	336.4	12 12	0			
EBINGEN	80.35	336.3	12 13	-1			
RAVENSBURG	80.53	335.7	12 14	-1			
LJUBLJANA	80.59	331.9	12 14K	-1			
TRIESTE	81.20	332.2	12 17	-2			
PARIS	81.41	340.6	12 20	0			
NEUCHATEL	81.98	337.1	12 22	-1			
BESANCON	82.01	337.8	12 13	-10			
FOLINIERE	82.09	342.4	12 23	0			
PALISADES	83.35	33.6			22 55	5	28 51 SS
ATHENS	84.12	321.8	12 32A	-2			
MELBOURNE	84.41	186.1	12 35	0			
MONACO	84.86	335.5	12 28	-9			
MUNDARING	84.91	210.4	12 38	0			
ISOLA	85.51	329.8	12 37	-4		12 40	PCP
KARAPIRO	86.70	162.0	12 47	1		13 7	
HELWAN	87.22	312.0	12 48	-1			
LA PAZ	134.82	62.0	19 24	3			
BYRD STATION	135.20	165.7	19 10	-11			

MARCH 24 9.H 58.M 43.S EPICENTRE 39.70 143.71 DEPTH= 0.KM

A=-0.62188 B= 0.45668 C= 0.63617 D= 0.5919 E= 0.8060  
G=-0.5128 H= 0.3765 K=-0.7715 HT= -1.6

SE= 3.91

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MIYAKO	1.34	268.6	0	23A	-3	0	41	-4				
HATINOHE	1.87	297.2	0	34A	0	0	58	0				
MORIOKA	1.96	270.9	0	37A	2	0	57	-4				
MIZUSAWA	2.08	255.0	0	36	-1	0	57	-7				
ISINOMAKI	2.25	236.5	0	38A	-1	1	9	1				
AOMORI	2.51	297.5	0	50	7	1	23	8				
URAKAWA	2.55	344.3	0	48	5	1	18	2				
HIROO	2.60	353.6	0	48	4	1	16	-1				
SENDAI	2.61	237.8	0	43A	-1	1	19	2			1 13	
AKITA	2.78	271.6	0	54	7	1	25	3				
YAMAGATA	2.99	242.2	0	49	-1	1	24	-3				
HAKODATE	3.08	314.3	0	51	0	1	28	-1				
SAKATA	3.11	256.4	0	54	3	1	31	1			1 53	
HUKUSIMA	3.19	233.5	0	50A	-3	1	37	5				
OBIHIRO	3.24	353.4	1	8	15							
KUSIRO	3.32	8.8	0	53	-1	1	31	-4				
MURORAN	3.34	322.7	1	31	36							
TOMAKOMA I	3.34	332.0	0	56	1	1	38	2				
MORI	3.38	316.3	1	13	18	1	28	-9				
ONAHAMA	3.52	219.7	0	58	1	1	50	10				
SHIRAKAWA	3.76	227.9	0	59	-2	1	51	5				
SAPPORO	3.81	333.0	1	0	-1	1	51	3				
NEMURO	3.89	20.6	1	OK	-3	1	43	-7				
NIIGATA	4.05	245.5				1	59	5			1 26	
SUTTSU	4.06	320.9	1	29	24	1	52	-3				
MITO	4.18	218.7	1	5	-2	1	55	-2				
ASAHIGAWA	4.20	346.7	1	10	3							
ABASHIRI	4.34	5.5	1	8	-1	1	58	-3				
UTUNOMIYA	4.36	225.1	1	7	-2						1 45	
KAKIOKA	4.44	220.0	1	5	-5	1	59	-5				



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GOTEBOURG 74.87 335.5 11 51 -7  
LWOW 76.28 324.6 11 50 -2 12 0 PCP

MARCH 24 20.H 2.M 42.S EPICENTRE 39.53 143.39 DEPTH= 0.KM

A=-0.62088 B= 0.46120 C= 0.63388 D= 0.5963 E= 0.8028  
G=-0.5089 H= 0.3780 K=-0.7734 HT= -1.5

SE= 3.28

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
MIYAKO	1.11	276.8	0	21	-1	0	33	-6				
MORI OKA	1.73	276.5	0	32A	1	0	50	-4				
HATINOHE	1.75	305.6	0	31A	-1	0	54	-1				
MIZUSAWA	1.80	258.0	0	33	1	0	51	-5				
ISINOMAKI	1.95	236.6	0	34A	-1	0	55	-5				
SENDAI	2.32	238.0	0	38A	-2	1	9	0				
AOMORI	2.38	303.7	0	42	1	1	11	0				
AKITA	2.55	275.4	0	45	2	1	15	0				
URAKAWA	2.66	350.1	0	49	4	1	19	1				
YAMAGATA	2.70	242.8	0	44	-1	1	19	0				
HIROO	2.75	358.8	0	49	3	1	21	1				
SAKATA	2.84	258.4	0	54	7	1	32	9				
HUKUSIMA	2.90	233.2	0	45	-3	1	26	2				
HAKODATE	3.04	319.5	0	51	1	1	31	3				
ONAHAMA	3.24	218.1	1	1	8	1	35	2				
MURORAN	3.34	327.5	1	14	20						1	42
MORI	3.35	321.1	0	59	5	1	37	1				
TOMAKOMAI	3.39	336.7	1	2	7	1	45	8				
OBIIHRO	3.39	357.6	0	56	1							
SHIRAKAWA	3.46	227.1	0	56	0	1	35	-3				
KUSIRO	3.53	12.1	0	58	1	1	39	-1				
NIIGATA	3.76	246.1	1	24	24						1	56
SAPORO	3.86	337.1	1	15	13	1	54	5				
MITO	3.90	217.3	1	2	0	1	48	-1				
SUTTSU	4.05	324.9	1	15	11						2	8
UTUNOMIYA	4.07	224.2	1	4	-1	1	43	-11			2	3
NEMURO	4.14	22.7	1	6	0	1	51	-5				
KAKI OKA	4.16	218.7	1	6	0	1	53	-3				
TUKUBASAN	4.21	219.3	1	4K	-3							
AIKAWA	4.29	251.1	1	13	5	2	13	14				
TYOSI	4.30	208.8	1	8	0	2	11	11				
ASAHI GAWA	4.32	350.1	1	11	3	2	14	14				
ABASHIRI	4.54	8.1	1	12	1	2	4	-2				
MAEBASI	4.63	228.9	1	10	-3	2	22	14				
KUMAGAYA	4.63	224.6	1	12	-1	2	14	6				
TAKADA	4.72	240.7	1	14	0	2	22	12				
TOKYO C.M.O.	4.81	218.1	1	17	2	2	15	3				
TITIBU	4.92	225.3	1	15	-2							
OIWAKE	4.98	231.7	1	17	-1	2	37	20				
NAGANO	4.99	236.8	1	19	1	2	34	17				
YOKOHAMA	5.06	217.2	1	23	4						2	25
MATUSIRO	5.06	235.6	1	17A	-2	2	14	-5			3	27
MATUMOTO	5.39	234.4	1	23	0							
MERA	5.41	212.8	1	26	2	2	44	16			2	10
KOHU	5.44	226.4	1	23	-1	2	30	2				
HUNATU	5.45	223.9	1	23	-1	2	34	5				
WAZIMA	5.53	249.2	1	27	2							
AJIRO	5.63	218.8	1	35	8	2	28	-5				
TOYAMA	5.64	241.9	1	29	2						3	17
MISIMA	5.65	220.2	1	35	8							
OSIMA	5.73	215.3									2	25
IIDA	5.96	229.6	1	39	8	2	50	9			3	3
WAKKANAI	6.02	348.4										
SHIZUOKA	6.05	222.8	1	52	19	2	43	-1				
GIHU	6.69	234.0	1	40	-2							
NAGOYA	6.71	231.6	1	49	7	3	8	8				
HIKONE	7.10	235.5	1	48	1							
KAMEYAMA	7.23	232.0									2	22
Y.-SAKHLINSK	7.51	356.5	1	55	2	3	21	1				
KYOTO	7.59	236.0	1	53	-1						2	17
NARA	7.74	233.7									2	9
ABUYAMA	7.78	235.8	1	54K	-3							
CHANGCHUN	14.18	293.5	3	26	2							
MAGADAN	20.59	10.8	4	43	0							



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PEKING	20.91	280.1	4 40	-6	
NANKING	21.27	257.1	4 49	-1	
YAKUTSK	24.02	344.1	5 16	-1	9 30 -2
WUHAN	25.18	258.0	5 26	-2	
ULAN-BATOR	27.47	299.8	5 48	-1	
LANCHOW	31.29	276.3	6 21	-3	
KUNMING	36.92	259.5	7 11	-1	
LHASA	43.69	273.6	8 10	2	
SHILLONG	45.03	268.0	8 14	-5	
COLLEGE	46.16	33.5	8 29	1	
CHITTAGONG	46.79	264.3	8 31	-2	
CHATRA	48.03	272.5	8 41A	-2	
KHEYS	50.54	347.8	8 58	-4	
ANDI JAN	52.90	295.7	9 18	-2	
SVERDLOVSK	54.33	317.8	9 29	-1	
LAHORE	55.53	284.7	9 41	2	
STALINABAD	56.34	294.8	9 40	-5	
WARSAK DAM	56.42	288.6	9 43	-2	
RESOLUTE	59.80	15.2	10 7A	-2	
APATITY	61.06	335.6	10 15	-3	
QUETTA	61.70	287.1	10 19A	-3	
THULE	62.59	8.0	10 25	-3	
SODANKYLA	63.28	337.2	10 31	-2	
KIRUNA	64.74	339.4	10 40	-2	
MOSCOW	66.18	323.5	10 49	-2	
PULKOVO	66.84	329.6	10 54	-2	
HUNGRY HORSE	68.91	44.3	11 9	0	
SKALSTUGAN	71.15	341.3	11 20	-3	
UPPSALA	71.40	334.4	11 22	-2	
EUREKA	73.09	52.7	11 36	2	
PASADENA	74.92	58.2	11 55	11	
GOTEBORG	74.93	335.4	11 52	8	
COLLMBERG	79.71	330.9	12 10	-1	14 35
PRUHONICE	80.16	329.3	12 13A	0	
STUTTART	83.16	331.4	12 28	-1	

MARCH 25 2.H 28.M 57.S EPICENTRE -19.31-177.52 DEPTH= 378.KM

A=-0.94354 B=-0.04092 C=-0.32873 D=-0.0433 E= 0.9991  
G= 0.3284 H= 0.0142 K=-0.9444 HT= 4.8

DEPTH OF FOCUS= 0.054R

SE= 1.47

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
SUVA	4.01	286.1	1	13	2	2	15	8				
AFJAMALU	7.69	46.5	1	50A	-2	3	12	-8				
NOUMEA	15.28	256.0	3	20	1	5	41	-17				
KARAPIRO	19.51	196.6	4	3	2						5	5
BRISBANE	28.38	248.0	5	22	-1	9	34	-8				
RIVERVIEW	31.39	236.2	5	48A	-1						7	17
RABAUL	33.17	293.1	6	1	-3						10	31
CANBERRA	33.56	234.7	6	8K	0	11	0	-2	7	19		
CHARTERS TS.	34.07	262.5	6	11	-1	11	7	-3				
MELBOURNE	37.44	232.5	6	39A	-1							
ADELAIDE	41.61	238.8	7	13A	-1	12	58	-4			9	3 PP
GUAM	49.42	308.4	8	15	0							
BYRD STATION	65.73	170.7	10	6	-1				11	33		
MATUSIRO	69.53	323.1	10	30K	0							
VINEYARD	76.89	43.2	11	14	1							
BERKELEY	77.00	41.9	11	14K	0						12	29
LICK	77.07	42.6	11	15K	1							
UKIAH	77.17	40.4	11	15	1							
PASADENA	77.55	46.9	11	17	0							
FRESNO	77.93	44.0	11	19K	0							
SHASTA	78.64	39.5	11	23K	1							
RENO	79.53	41.7	11	28K	1							
NANKING	79.54	309.3	11	28K	1							
CORVALLIS	80.52	36.0	11	33K	1							
CHANGCHUN	81.74	322.1	11	39K	0							
TUCSON	81.83	51.8	11	41	2							
WUHAN	81.94	306.1	11	40K	0							
EUREKA	81.95	43.4	11	40	0							
VICTORIA	82.95	32.9	11	45	0							
HORSESHOE B.	83.57	32.3	11	48	0							

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SALT LAKE C.	85.31	44.0	11 57	1	
PEKING	85.37	315.1	11 58K	1	
PENTICTON	85.42	33.8	11 56	-1	
COLLEGE	86.96	12.2	12 3	-1	13 38
BUTTE	87.54	39.2	12 7	0	
SIAN	87.87	307.3	12 9K	0	
HUNGRY HORSE	87.92	36.7	12 8	-1	
BANFF	88.63	33.8	12 6	-6	
KUNMING	89.22	296.9	12 17K	2	
LARAMIE	89.75	45.7	12 18	1	
SHILLONG	98.64	294.0	12 57K	-1	
QUETTA	121.13	294.1	18 10K	2	
SODANKYLA	129.54	348.2	18 19	-6	21 9 SKP
KIRUNA	130.18	351.2	18 24	-2	
SKALSTUGAN	135.26	353.8	18 26	-9	
HELSINKI	136.13	344.0	18 33	-4	
BROKEN HILL	137.81	219.2	18 30	-10	
UPPSALA	138.07	348.6	18 34	-7	
GOTEBORG	141.03	351.9	18 42	-5	
DURHAM	144.47	4.1	18 50A	-2	
LWOW	145.03	335.5	18 53K	0	
RATHFARNHAM	145.40	9.3	18 54	0	
WITTEVEEN	146.40	355.4	18 48K	-7	
LWIRO	146.42	233.2	18 58	3	
KSARA	146.99	302.7	19 4	8	
COLLMBERG	147.02	347.8	18 59K	3	20 35
HALLE	147.02	349.1	18 59	3	
MUNSTER	147.16	354.1	18 59	2	
JENA	147.64	349.2	18 59	2	20 48
PRUHONICE	147.92	345.3	19 1K	3	20 47 21 29 *SPKP
JERUSALEM	148.09	299.4	19 3K	5	20 36
DOURBES	149.24	357.3	19 5	6	
STUTTGART	150.10	351.0	19 1	0	
FOLINIERE	150.52	4.0	19 1	0	
PARIS	150.57	360.0	19 7	5	19 56
LJUBLJANA	151.54	342.3	19 10K	7	20 53
BASLE	151.55	352.7	19 12	9	
TOLMEZZO	151.63	344.6			20 35
HELWAN	151.81	297.5	19 11K	8	
BESANCON	151.99	354.9	19 8	4	
TRIESTE	152.13	343.0	19 11	7	
ATHENS	153.78	319.6	19 7	1	
ISOLA	155.07	352.7			20 11 PKP2
TAMANRASSET	175.53	321.1	19 25	0	20 6 24 58 PP

MARCH 27 3.H 48.M 28.S EPICENTRE -13.36 165.92 DEPTH= 0.KM

A=-0.94402 B= 0.23681 C=-0.22967 D= 0.2433 E= 0.9699  
G= 0.2228 H=-0.0559 K=-0.9733 HT= 6.0

SE= 2.00

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PORT VILA	4.92	152.2	1	18	1	1	50	-25				
NOUMEA	8.90	176.8	2	11	-2	3	44	-11				
SUVA	12.95	113.2	3	17	9	5	37	3			6	37
RABAU	16.34	302.6	3	51	-1						9	46
BRISBANE	18.59	219.3	4	18	-2	7	44	-1				
PORT MORESBY	18.81	280.1	4	22	-1	8	0	9				
CHARTERS TS.	19.97	247.8	4	35	-1	8	17	1				
AFIAMALU	21.68	94.1	4	52K	-2	8	54	4			5	30 PP
ONERAHI	23.57	162.6	5	14	1	9	43	19				
RIVERVIEW	24.40	210.9	5	20K	-1	9	37	-2			5	56 PP
KARAPIRO	25.92	162.4	5	34	-1						12	51
CANBERRA	26.66	212.0	5	41	-1	10	14	-2	6	8	6	30 PP
TUAI	27.22	160.6	5	44	-3							
COBB RIVER	28.25	169.1	5	58	1	10	50	8				
WELLINGTON	28.87	166.1	6	2	0	10	32	-20			6	52 PP
KAIMATA	29.44	171.7	6	8	1							
MELBOURNE	30.68	213.7	6	17	-1	11	14	-7				
GEBBIES PASS	30.78	170.4	6	17	-2							
ADELAIDE	32.65	224.1	6	34	-2	11	50	-2			11	16
FORT NELSON	33.54	205.0	6	49	6	12	7	2				
GUAM	33.92	321.0	6	47	0	12	13	2				

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MUNDARING	49.01	239.2	8 48A	-2						9 9
PERTH	49.32	239.3			16 7	8				19 45 SS
HONOLULU	49.35	46.2			16 16	17				
HAWAII V.OB.	50.23	50.3	8 59	-1	16 29	17				
MANILA	52.40	300.5	9 19	3	16 43	2				
BAGUIO CITY	53.70	302.1	9 26	0	17 2	3				
TUKUBASAN	55.02	334.5	9 34	-1	17 10	-7				21 10 SS
ABUYAMA	55.95	329.9	9 44A	2						
MATUSIRO	56.10	333.2	9 41	-2	17 37	6				19 31 SCS
LEMBANG	57.66	270.3	9 53A	-1	17 53	1				
DJAKARTA	58.55	270.9	10 1K	1	18 6	2				
CAPE HALLETT	58.98	178.5	10 2K	-1	18 18	9				21 47 SS
ZO-SE	61.64	316.7	10 21	-1	18 43	0				12 41 PP
HONG KONG	61.88	304.4	10 24	1	18 29	-17				
CANTON	62.93	304.8	10 32	2	19 3	3				10 49 *SP
Y.-SAKHLINSK	63.60	342.5	10 34	-1	19 10	2				
NANKING	63.84	316.1	10 36	0	19 12	1				12 57 PP
WILKES	64.33	201.6			19 12	-5				19 49 PPS
SCOTT BASE	64.49	179.8	10 45	4						
UGLEGORSK	65.65	343.0	10 48	0	19 33	0				
WUHAN	65.90	312.4	10 49	-1	19 35	-1				11 7 *SP
CHANGCHUN	67.88	329.3	11 2	0	19 57	-4				11 21 *SP
PETROPAVLOVK	66.41	355.2	10 40	-13	19 19	-24				
PEKING	70.38	321.5	11 17	-1	20 32	2				11 36 *SP
MIRNY	71.04	203.9	11 28	6	20 38	0				
SIAN	71.91	313.0	11 28	1	20 49	1				
KUNMING	72.47	302.0	11 31	1	20 58	4				11 50 *SP
MAGADAN	73.69	352.0	11 37	0	21 4	-4				
CHENG TU	73.84	307.7	11 39	1	21 10	1				11 56 *SP
BYRD STATION	74.26	169.9	11 38	-2	21 22	8				
PAOTOW	74.52	319.1	11 42	0	21 20	3				12 1 *SP
LANCHOW	76.43	312.6	11 53	0	21 39	1				
SOUTH POLE	76.72	180.0	11 52	-3						12 28
YAKUTSK	80.33	343.6	12 11	-3	22 19	-1				
ULAN-BATOR	80.38	324.2	12 15	0						
CHITTAGONG	80.79	295.6	12 19	2	22 26	1				15 22 PP
SHILLONG	81.78	298.7	12 20	-2	22 35	0				15 23 PP
LHASA	83.80	302.3	12 33	1	22 53	-2				
CALCUTTA	83.88	294.8	12 34	1	23 0	4				23 19
UKIAH	84.04	47.6	12 34	0						
IRKUTSK	84.07	327.1	12 33	-1	22 58	0				
ARCATA	84.11	45.8	12 33	-1						
BERKELEY	84.27	49.1	12 35K	0	22 59	-1				23 55 PS
VINEYARD	84.51	50.4	12 37	1						
LICK	84.53	49.8	12 35A	-1						
SITKA	85.21	28.0	12 39	0						
SHASTA	85.22	46.4	12 39K	0						
COLLEGE	85.43	18.0	12 39	-1	23 4	-7				30 32 PKKP
CORVALLIS	86.08	42.6	12 44	0						
PASADENA	86.09	53.7	12 44A	0	23 16	-2				23 4 SKS
CHATRA	86.18	298.6	12 44	0	23 9	-10				
BOKARO	86.52	295.3	12 49	3	23 23	1				
RENO	86.65	48.2	12 46K	-1						
ALBERNI	87.01	37.8	12 47	-1						
VICTORIA	87.55	38.9	12 52	1						
COLOMBO	87.75	277.6	12 52	0	23 22	-12				23 52
MADRAS	88.90	283.5	12 59	2	23 43	-1				16 29 PP
EUREKA	89.44	49.2	12 59	-1						30 42 PKKP
PENTICTON	90.18	39.1	13 3	0						
KODAIKANAL	90.84	280.2								13 37
TUCSON	91.44	57.3	13 10	1	23 55	-12				16 53 PP
TUCSON TELE.	91.55	57.3	13 11	1						13 50
HYDERABAD	91.57	287.4	13 13	3	23 43	-25				
SALT LAKE C.	92.84	48.9	13 14	-2						
ARGENTINE I.	93.10	161.1	13 16	-1						
BANFF	93.25	38.2	13 18	1						
HUNGRY HORSE	93.38	41.2	13 17	-1						
BUTTE	93.71	43.7	13 19	-1						
AGRA	94.15	296.8	13 23	1	23 54	-37				
BOZEMAN	94.64	44.3	13 22	-2						
DEHRA DUN	94.82	299.9	14 7	42	24 0	-36				
POONA	96.08	287.5	13 31	1	24 5	-2				
BOMBAY	97.11	287.7	13 40	5	24 14	2				25 0 SKS
LARAMIE	97.58	49.4	13 38	1						
ANDIJAN	101.25	309.4								16 37
STALINABAD	103.74	306.8	14 7	2						
QUETTA	104.26	298.1	14 7	0	24 50	3				
RESOLUTE	105.23	15.8	14 10	777	24 50	-1				26 4
KHEYS	105.99	350.7	18 34	777						

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SANTA LUCIA	108.82	132.5			25	37	30		28 19 PS
ST. LOUIS 1	108.98	53.5							28 30 PS
HUANCAYO	114.23	109.9	18 44	3					29 26 SKKS
APATITY	117.68	341.3	18 48	0	25	44	2		23 12 PPP
CHINCHINA	118.81	91.7	18 51	1	25	56	10		31 3 PS
LA PAZ	118.90	117.5	18 53	3					
OTTAWA	119.26	45.3	18 51A	0					
MAKHACH-KALA	119.73	312.0	18 53	1					
SODANKYLA	119.82	343.1	18 52	0					
BOGOTA	120.24	92.4			25	56	5		30 3 PS
BREBEUF	120.68	44.8	18 54A	0					
FUQUENE	120.75	91.6	18 54	0	25	51	-1		20 20 PP
SHAWINIGAN	121.02	43.5	18 51A	-4					
KIRUNA	121.12	345.5	18 54	-1					28 57 PKKP
PALISADES	121.35	50.0	18 55	0					20 25 PP
TIFLIS	121.93	311.0							20 32 PP
MOSCOW	122.04	328.4	18 58	2					
SEVEN FALLS	122.16	42.4	18 57	0					
SCORESBY SD.	122.71	3.1	19 2	4					20 35 PP
PULKOVO	123.36	334.9	18 59	0					
HELSINKI	125.22	337.3	19 3	0					
BULAWAYO	126.41	232.3	19 5	0					
SKALSTUGAN	126.55	345.7	19 5	0					
HALIFAX	127.73	43.4	19 7	0					
UPPSALA	128.04	340.3	19 7	-1					
CARACAS	128.29	37.1	19 11	2					24 7 PPP
SIMFEROPOL	128.49	317.4	19 8	-1					
REYKJAVIK	129.01	4.4	19 14	4					
SIDA	129.57	2.3	19 15	4					
BROKEN HILL	129.62	238.3	19 4	-7					19 23
SAN JUAN	129.83	77.1	19 12	1					22 43 PKS
BERMUDA	130.18	58.8							21 16 PP
KSARA	130.43	303.1	19 13A	0	26	20	-1		21 48 PP
GOTEBORG	131.54	341.6	19 16	1					
WARSAW	132.13	331.5	19 18	2					21 40 PP
COPENHAGEN	133.04	339.7			26	12	-15		21 47 PP
TRINIDAD	133.69	88.0	19 10	-9					22 48
BUCHAREST	133.87	320.1	19 20	1					21 52 PKS
KRAKOW	134.08	329.9							22 10 PP
LWIRO	134.72	253.1	19 23A	2					
HELWAN	135.01	299.0	19 21	0					21 52 PP
POTSDAM	135.42	336.5	19 22	0					22 21 PP
COLLMBERG	136.29	335.6	19 25	1					22 6 PP
HALLE	136.55	336.5	19 25	1					22 9 PP
PRUHONICE	136.63	333.2	19 24K	0					22 12 PP
VIENNA-H.	137.02	330.2	19 26	1					22 20 PP
JENA	137.14	336.2	19 24	-1	26	2	-32		22 9 PP
PLAUEN	137.25	335.4	19 23	-2					
MUNSTER	137.72	340.1	19 26	0					
DE BILT	138.38	342.2							40 38 SS
ATHENS	138.46	313.1	19 28K	0					
BENSBERG	138.73	339.7	19 32	4					22 24 PP
LJUBLJANA	139.46	329.1	19 23	-6					23 42
HEIDELBERG	139.47	337.1	19 30	1					
STUTTART	139.76	336.0	19 22	-8					22 25 PP
TOLMEZZO	139.94	330.7	19 31	1					23 15 PKS
DOURBES	140.31	341.2	19 29	-2					22 34 PP
STRASBOURG	140.50	337.1	19 32	1					22 35 PP
BASLE	141.43	336.3	19 30K	-3					
PARIS	142.09	342.1	19 43	9					22 57 PP
NEUCHATEL	142.11	336.4	19 33	-1					
BESANCON	142.27	337.5	19 36	2					22 48 PP
PAVIA	142.64	332.6	19 34A	-1					22 51 PKS
FOLINIERE	142.95	345.0	19 32	-3					
ROME	143.39	326.0	19 35A	-1					22 43 PP
MESSINA	143.90	318.6	19 37	0	26	44	-1		22 48 PP
MONACO	144.55	332.7	19 37	-1					20 3
CLERMONT-FD.	144.57	339.1	19 39	1					23 9 PP
LUANDA	145.04	232.3	19 41A	2					
SETIF	151.31	325.8	19 54	5					20 3 PKP2
ALGIERS UNI.	152.09	329.6	19 50	0					23 40 PP
TOLEDO	152.15	343.3	19 58	8					21 4
TAMANRASSET	159.17	299.5	19 59	-1					24 25 PP
MBOUR	177.02	69.9	20 12	0	27	41	28		

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MARCH 27 8.H 57.M 55.S EPICENTRE -13.30 165.75 DEPTH= 0.KM

A=-0.94357 B= 0.23959 C=-0.22861 D= 0.2461 E= 0.9692  
G= 0.2216 H=-0.0563 K=-0.9735 HT= 6.1

SE= 3.02

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
NOUMEA	8.97	175.9	2	10	-4	3	40	-17				
SUVA	13.12	113.2	3	15	4	5	45	7			8	34
RABAU	16.18	302.8	3	51	1				4	16	7	53
BRISBANE	18.53	218.9	4	19	-1	7	47	2				
PORT MORESBY	18.64	280.1	4	23	2	7	55	8				
CHARTERS IS.	19.84	247.5	4	33	-2	8	20	6				
AFIAMALU	21.85	94.2	4	57A	1	8	53	-1			5	29 PP
ONERAHI	23.68	162.3	5	20	6	9	49	22				
RIVERVIEW	24.37	210.6	5	23A	2	9	45	7			7	31
KARAPIRO	26.03	162.2	5	34	-3						12	47
CANBERRA	26.63	211.7	5	42	0	10	21	5			6	21 PP
CHATEAU	27.21	163.2	5	45	-3							
COBB RIVER	28.34	168.8	5	59	1	10	53	9				
WELLINGTON	28.97	165.9	6	3	0	10	58	4			7	0 PP
KAIMATA	29.52	171.5	6	14	6							
MELBOURNE	30.65	213.4	6	16	-2	11	25	4				
GEBBIES PASS	30.87	170.2	6	18	-2							
ADELAIDE	32.58	223.9	6	35	0	11	59	8			7	57
FORT NELSON	33.53	204.8	6	45A	1						14	30
PERTH	49.22	239.2	8	58	6	16	6	8			10	55 PP
HONOLULU	49.42	46.4	8	57	3	16	25	24				
HAWAII V.OB.	50.31	50.5				16	31	18				
BAGUIO CITY	53.53	302.2	9	24	-1	17	3	6				
TUKUBASAN	54.89	334.7	9	34A	-1	17	37	21				
ABUYAMA	55.82	330.0	9	48A	6							
MATUSIRO	55.97	333.3	9	41	-2	17	35	5			19	27 SCS
LEMBANG	57.49	270.3	9	54K	0	17	54	4				
DJAKARTA	58.39	270.9	9	56	-4	18	3	1				
CAPE HALLETT	59.04	178.4	10	9	5	18	21	10			20	15 SCS
ZO-SE	61.49	316.8	10	19K	-2	18	46	4	10	25	10	34 *SP
HONG KONG	61.71	304.5	10	15	-8	18	49	4				
CANTON	62.76	304.8	10	29	-1	19	3	5	10	36	10	45 *SP
Y.-SAKHLINSK	63.50	342.6	10	33	-1	19	21	14				
NANKING	63.69	316.2	10	35K	-1	19	13	3	10	41	10	50 *SP
VLADIVOSTOK	64.13	333.0	10	39	0	19	13	-2				
WILKES	64.33	201.6	10	38	-2	19	17	0	10	51	11	5 PCP
UGLEGORSK	65.55	343.1	10	47	-1							
WUHAN	65.74	312.5	10	48	-1	19	59	24	10	54	11	3 *SP
CHANGCHUN	67.77	329.5	11	2K	0	20	5	6	11	8	11	17 *SP
PEKING	70.23	321.6	11	17K	0	20	34	5	11	23	11	32 *SP
MIRNY	71.03	203.8	11	20	-2	20	43	5				
SIAN	71.75	313.1	11	27K	1							
KUNMING	72.30	302.0	11	31K	1	21	1	8	11	37	11	47 *SP
MAGADAN	73.60	352.1	11	37	0							
CHENGTU	73.67	307.7	11	39	1	21	13	5	11	45	11	54 *SP
BYRD STATION	74.35	169.9	11	40	-1	21	46	30				
PAOTOW	74.37	319.2	11	42K	0	21	21	5				
LANCHOW	76.27	312.6	11	54K	2	21	44	7				
PORT BLAIR	76.56	285.6	12	6	12	21	48	8				
SOUTH POLE	76.78	180.0	11	54	-1						17	13
YAKUTSK	80.23	343.6	12	14	0	22	22	3				
ULAN-BATOR	80.24	324.3	12	18	4							
CHITTAGONG	80.62	295.6	12	17	1	22	26	3			15	24 PP
SHILLONG	81.61	298.7	12	22A	1	22	38	5			15	25 PP
LHASA	83.63	302.3	12	34K	2	22	58	4	12	41		
IRKUTSK	83.93	327.1	12	33	0	23	1	4				
CALCUTTA	83.45	294.9	12	37	7	23	2	10			23	34
UKIAH	84.12	47.7	12	34	0							
BERKELEY	84.35	49.1	12	35	0	23	8	7			28	5 SS
LICK	84.61	49.8	12	37A	0							
SHASTA	85.30	46.5	12	39	-1							
COLLEGE	85.42	18.1	12	37	-4	23	10	-2			27	21
FRESNO	85.79	50.9	12	42	-1							
CHATRA	86.01	298.6	12	45K	1	23	10	-7				
CORVALLIS	86.15	42.6	12	45	1							
PASADENA	86.19	53.8	12	43	-2	23	28	9			24	29 PS
BOKARO	86.35	295.4	12	49	4	23	19	-2				
RENO	86.73	48.3	12	48A	1							
ALBERNI	87.06	37.9	12	48	-1							
VICTORIA	87.60	38.9	12	52	0							

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TIKSI	88.28	349.0	12 54	-1	23 43	4				
MADRAS	88.73	283.6	13 1	4	23 39	-4			16 28	PP
EUREKA	89.52	49.3	12 58	-3						
PENTICTON	90.23	39.1	13 4	0						
KODAIKANAL	90.67	280.3	13 18	12						
HYDERABAD	91.39	287.5	13 10	1	23 46	-21			16 10	PP
TUCSON	91.54	57.4	13 10	0						
TUCSON TELE.	91.65	57.3	13 11	0						
SALT LAKE C.	92.92	48.9	13 16	0						
ARGENTINE I.	93.21	161.1	13 14	-4						
BANFF	93.30	38.2	13 18	0						
HUNGRY HORSE	93.44	41.2	13 18	-1						
BUTTE	93.77	43.7	13 20	0						
AGRA	93.98	296.8	13 18	-3	23 58	-32			17 5	
DEHRA DUN	94.65	299.9			24 5	-30			17 14	PP
BOZEMAN	94.71	44.3	13 23	-2						
POONA	95.90	287.6	13 30K	0					24 12	
BOMBAY	96.94	287.7	13 42	7	24 16	4			17 31,	PP
LARAMIE	97.66	49.5	13 40	2						
WARSAK DAM	100.75	302.5	13 51	-1						
ANDI JAN	101.09	309.4							16 50	
NAMANGAN	101.64	309.6	18 11	777						
STALINBAD	103.57	306.8	18 21	777						
QUETTA	104.08	298.1	14 7	0	24 47	0				
RESOLUTE	105.21	15.8	14 11	777	26 9	5				
KHEYS	105.91	350.6	18 39	777						
SANTA LUCIA	108.98	132.6	14 32	777	25 8	4			19 0	PP
ST. LOUIS I	109.08	53.5							28 25	PS
SVERDLOVSK	109.30	325.8	18 33	777						
HUANCAYO	114.40	109.9	18 47	5					30 26	SKKS
SHIRAZ	116.54	296.6	18 47	1	25 51	13				
APATITY	117.57	341.3	18 48	0	25 38	-4			20 8	PP
CHINCHINA	118.97	91.7	18 51	0	25 54	7			30 4	PS
LA PAZ	119.08	117.5	18 54	3					26 53	SKKS
OTTAWA	119.33	45.2	18 51	-1					30 11	
MAKHACH-KALA	119.57	312.0	18 54	2						
SODANKYLA	119.71	343.0	18 49	-3						
BOGOTA	120.40	92.4			25 36	-16			20 16	PP
BREBEUF	120.75	44.8	18 53	-1						
FUQUENE	120.92	91.6							20 22	PP
KIRUNA	121.02	345.4	19 1	6						
SHAWINIGAN	121.08	43.4	18 51	-4						
PALISADES	121.44	50.0	18 55	-1	25 58	3			20 22	PP
TIFLIS	121.76	311.0	18 58	2						
MOSCOW	121.90	328.4	18 56	-1						
SEVEN FALLS	122.22	42.4	18 56	-1						
SCORESBY SD.	122.66	3.1	18 58	0					20 33	PP
PULKOVO	123.24	334.9	18 58	-1						
NURMI JARVI	124.99	337.7	19 4	1						
HELSINKI	125.10	337.3	19 3	0						
BULAWAYO	126.32	232.5	19 5	0						
SKALSTUGAN	126.45	345.6	19 10	5					20 10	
HALIFAX	127.80	43.3	19 7	-1						
UPPSALA	127.93	340.2	19 12	4						
SIMFEROPOL	128.33	317.4	19 10	1						
CARACAS	128.45	87.1	19 10A	1					27 6	SKKS
BROKEN HILL	129.51	238.4	19 12	1						
SAN JUAN	129.97	77.1	19 11	-1					22 37	PKS
KSARA	130.26	303.1	19 15	2						
BERMUDA	130.28	58.8							21 11	PP
JERUSALEM	131.20	300.7	19 17	2					21 41	PP
GOTEBOG	131.43	341.5							21 41	PP
WARSAW	132.00	331.5	19 22	6					21 48	PP
LWOW	132.00	327.3	19 25	9	26 43	18				
COPENHAGEN	132.92	339.7							21 52	PP
BUCHAREST	133.72	320.1	19 27K	8					21 53	
SKALNATE PL.	134.35	328.7	19 21	1						
LWIRO	134.59	253.3	19 24A	3						
HELWAN	134.84	299.0	19 22	1					21 56	PP
POTSDAM	135.30	336.4	19 24	2						
COLLMBERG	136.16	335.5	19 25	1					22 9	PP
HALLE	136.42	336.4	19 25	1	26 38	5			22 9	PP
PRUHONICE	136.50	333.1	19 25	1					22 12	PP
BRATISLAVA	136.58	329.6	19 25	0						
VIENNA-H.	136.89	330.1	19 17	-8					22 13	PP
JENA	137.02	336.1	19 25	0					22 11	PP
PLAUEN	137.34	335.5	19 27	1					22 8	PP
SONNEBERG	137.60	335.9	19 26	0						
MUNSTER	137.61	340.0	19 30	4						



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DE BILT	138.27	342.0	19 25	-3		22 25 PP
ATHENS	138.30	313.0	19 27A	-1		23 3 PKS
BENSBERG	138.61	339.6				22 26
LJUBLJANA	139.32	329.1	19 25	-5		23 19 PP
RATHFARNHAM	139.60	352.6	19 35	5		
STUTTGART	139.64	335.9	19 27	-3		22 26 PP
UCCLE	139.66	341.8	19 29	-1		22 33 PP
TOLMEZZO	139.81	330.6	19 30	0		23 11 PKS
DOURBES	140.19	341.0	19 26	-5		22 31 PP
STRASBOURG	140.38	337.0	19 29	-2		22 33 PP
BASLE	141.31	336.2	19 31A	-2		
PARIS	141.98	342.0	19 36	2		23 17 PP
NEUCHATEL	141.99	336.3	19 36	2		
BESANCON	142.15	337.4	19 32	-3		22 38 PP
PAVIA	142.51	332.5	19 39	4		22 48
ISOLA	143.21	323.2	19 38	2		19 55 PKP2
ROME	143.25	325.9	19 37	1		22 57
MESSINA	143.74	318.5	19 37	0	26 43 -2	22 52 PP
MONACO	144.42	332.6	19 37	-1		
CLERMONT-FD.	144.45	338.9	19 39	1		
LUANDA	144.95	232.6	19 42A	3		23 45 PKS
SETIF	151.17	325.7	19 51	2		23 35 PP
SERRA PILAR	151.84	350.9	19 43A	-7		20 2 PKP2
ALGIERSOUNI.	151.96	329.5	19 47	-4		19 58 PKP2
TOLEDO	152.04	343.1	19 49	-2		33 32
ALMERIA	154.29	337.8	19 42	-12		23 51 PP
TAMANRASSET	159.00	299.4	20 OK	0		24 17 PP

MARCH 27 20.H 15.M 37.S EPICENTRE 18.74-105.18 DEPTH= 0.0M

A=-0.24820 B=-0.91453 C= 0.31941 D=-0.9651 E= 0.2619  
G=-0.0837 H=-0.3083 K=-0.9476 HT= 5.0

SE= 3.31

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
MANZANILLO	0.86	69.3	0	19K	0	0	47	15				
GUADALAJARA	2.61	42.1	0	47	3	1	33	16				
LEON	4.06	53.9	1	5	1						1 30	
MAZATLAN	4.56	345.8	0	57	-15	1	54	-12			2 39	
TACUBAYA	5.70	82.5	1	25K	-3	2	53	18				
PUEBLA	6.62	86.4	1	41	0						3 25	
OAXACA	8.19	100.8	2	3	0						2 35	
VERA CRUZ	8.58	85.5	2	9	1	4	11	24			4 27 SS	
CHIHUAHUA	9.87	355.4	2	8	-18	4	12	-7			5 48	
COMITAN	12.70	99.3	3	7	3						6 25 SS	
TUCSON	14.38	340.4	3	29	2							
TUCSON TELE.	14.43	340.9	3	29	2							
LUBBOCK	15.07	10.8	3	37	1							
PASADENA	19.22	325.5	4	26	-2	7	43	-16			5 7 PP	
LITTLE ROCK	19.63	33.0	4	31	-1							
FAYETTEVILLE	19.82	27.1	3	32A	-63						6 12	
LAWRENCE	21.92	21.1	4	55	-1	9	6	12				
FRESNO	22.08	327.4	4	57	-1							
LARAMIE	22.49	359.2	5	3	1						10 21	
EUREKA	22.67	337.9	5	3	-1							
SALT LAKE C.	22.69	346.8	5	4	0	9	23	15			10 27	
VINEYARD	22.90	324.8	5	8	2							
LICK	23.47	325.5	5	12A	0						10 28	
ST. LOUIS 1	23.71	30.2	5	11A	-3	9	30	4				
FLORISSANT	23.77	29.7	5	14	-1	9	39	11				
BERKELEY	24.20	325.5	5	20A	1	10	1	26				
RENO	24.28	331.6	5	25	6							
UKIAH	25.63	326.2	5	33	1							
COLUMBIA	26.35	50.0	5	39	0						5 54	
SHASTA	26.40	329.6	5	29	-11							
BOZEMAN	27.29	351.0	5	48	0						6 3	
BUTTE	27.88	349.0	5	52	-1	11	6	30			6 36	
CORVALLIS	29.88	333.5	6	14	3							
MORGANTOWN	30.13	41.0	6	12K	-1						6 58 PP	
HUNGRY HORSE	30.39	348.3	6	16	0						7 40	
WASHINGTON	31.58	44.6	6	25	-1							
CHINCHINA	31.93	111.7	6	25	-4	1	47	7				
PENNSYLVANIA	32.10	41.0	6	28	-3	11	46	3				
PENTICTON	32.64	342.4	6	38	3							

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VICTORIA	33.18	337.7	6 38	-2				
BANFF	33.38	348.1	6 37	-5				
BOGOTA	33.46	110.9	6 52	9	12	9	5	
HORSESHOE B.	33.86	338.6	6 47	1				
FORDHAM	34.68	43.8	6 52	-1				
PALISADES	34.74	43.6	6 52	-2	12	9	-15	6 58 7 58 PP
OTTAWA	36.10	36.0	7 4K	-1				19 41
SAN JUAN	36.98	84.1	7 0	-13				7 13
WESTON	37.11	43.2	7 13A	-1				
BREBEUF	37.35	37.4	7 15K	-1	13	9	5	
CARACAS	37.85	97.0	7 26	6	13	50	38	
SHAWINIGAN	38.44	36.5	7 24K	-1				
BERMUDA	38.75	61.4			13	33	8	8 57 PP
SEVEN FALLS	39.86	37.0	7 36	-1				
HUANCAYO	42.46	133.8	7 57	-1				
HALIFAX	43.13	43.9	8 3K	0				
LA PAZ	50.55	131.5	8 59	-3	16	23	7	
COLLEGE	54.09	339.1	9 28	0				
RESOLUTE	56.23	3.3	9 40	-4	17	33	0	
SANTA LUCIA	61.48	147.3			18	48	7	12 32 PP
SCORESBY SD.	70.22	20.8	11 17	1				13 47 PP
NORD	71.36	8.9	11 23	0				
ISFJORD	77.45	10.8	11 56	-2				
KHEYS	80.43	2.8	12 14	-1				
MAGADAN	80.91	330.0	12 15	-2				
MBOUR	83.83	77.0	12 32	0				
KEW	84.42	37.4	12 42	7				
SKALSTUGAN	84.83	23.5	12 26	-11				
KIRUNA	85.06	18.0	12 43	4				
FOLINIERE	85.39	39.9	12 39	-1				
SODANKYLA	87.13	16.8						16 8 PP
UCCLE	87.38	36.8	12 45	-5	23	17	-13	
DOURBES	87.83	37.3	12 55	3				16 16 PP
GOTEBORG	87.87	28.6	12 52	0				
BENSBERG	88.88	35.8	13 5	8				
UPPSALA	89.05	25.1	12 57	-1				
STRASBOURG	90.38	37.7	13 6	2				
STUTTGART	91.15	37.0	13 5	-3				16 42 PP
HALLE	91.19	33.8						16 42 PP
POTSDAM	91.30	32.7						16 45 PP
JENA	91.30	34.4						16 38 PP
NURMI JARVI	91.31	22.3	13 9	1				16 43 PP
PLAUEN	91.85	34.6						16 49 PP
COLLMBERG	91.85	33.6						16 50 PP
KARAPIRO	93.21	231.1	13 11	-6				
PRUHONICE	93.41	34.2						17 2 PP
CHATEAU	93.67	229.9	13 23	4				
PULKOVO	93.81	20.8						17 2 PP
SETIF	94.68	49.4						17 9 PP
FLORENCE X.	94.90	40.6						17 33
LJUBLJANA	95.61	37.4	13 30	2				17 19
ROME	96.66	41.7						17 27 PP
SKALNATE PL.	96.86	32.6						15 12
LWOW	98.32	30.5						17 28
MOSCOW	99.42	20.3						17 23
TAMANRASSET	100.73	61.5	13 55	4				18 0 PP
MAKHACH-KALA	113.64	21.6						19 39 PP
TIFLIS	113.74	24.1						19 22
JERUSALEM	117.03	37.5						19 51 PP
SHIRAZ	127.30	24.5	19 3	-3				
BROKEN HILL	135.47	91.7	19 23	1				
LEMBANG	145.96	286.0	19 38K	-3				19 48

MARCH 27 23.H 28.M 26.S EPICENTRE -39.01 175.23 DEPTH= 224.KM

A=-0.77646 B= 0.06477 C=-0.62682 D= 0.0831 E= 0.9965  
G= 0.6247 H=-0.0521 K=-0.7792 HT= -1.3

DEPTH OF FOCUS= 0.030R

SE= 1.75

	DELTA	AZ.	P		O-C	S O-C			*PP	SUPP.	
	DEG.	DEG.	M	S	S	M	S	S	M	S	
TONGARIRO	0.30	130.0	1	32	62						
KARAPIRO	1.10	12.8	0	35A	2						

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TUAI	1.51	82.8	0	40	3						
WELLINGTON	2.30	188.7	0	44	0						
COBB RIVER	2.83	222.0	0	48	-2	1	24	-4			
ONERAHI	3.30	347.7	0	56	1	1	38	0			
KAIMATA	4.55	218.3	1	8	-2	1	59	-6			
GEBBIES PASS	5.08	201.7	1	14	-3	2	9	-7			
ROXBURGH	7.81	212.2	1	50	-2	3	10	-9			
RAOUL ISLAND	11.26	32.3	2	42	6	4	24	-14			
NOUMEA	18.27	333.2	3	58	-1	7	24	12			
RIVERVIEW	20.03	277.5	4	19K	2	7	53	8			4 52 PP
SUVA	20.97	8.5	4	24	-3						6 24
CANBERRA	21.20	271.8	4	31	2	8	14	8	4	42	
FORT NELSON	21.37	250.5	4	32	2						4 59
BRISBANE	22.01	295.0	4	37K	0						5 7 PP
AFIAMALU	27.50	28.2	5	22K	-6	10	21	30			6 15 PP
ADELAIDE	29.31	266.4	5	44	0						6 47
CHARTERS TS.	31.27	298.7	6	1	0	10	51	1			
PORT MORESBY	38.74	312.1	7	5	1	12	45	1			9 11 PCP
RABAUL	40.48	323.0	7	19	0	13	9	-1			8 39
BYRD STATION	47.61	167.6	8	1	-14				8	54	10 5 PP
MUNDARING	47.85	259.4	8	16K	-1				9	7	
SOUTH POLE	51.18	180.0	8	45	3	15	47	5	9	44	10 55 PP
GUAM	59.45	325.0	9	40	-1				10	18	
HAWAII V.OB.	64.36	31.0	10	13	-1						
KIPAPA	65.12	27.5	10	18	-1						
ARGENTINE I.	66.29	156.7	10	28	2						
LEMBANG	68.36	279.0	10	39K	0	19	21	0			
ABUYAMA	82.16	328.0	11	58A	1						
MATUSIRO	82.56	330.7	11	59	0	21	53	-3			
CANTON	84.63	305.3	12	11	1	22	19	3	13	9	24 3 *SS
SANTA LUCIA	85.56	130.1	12	15	1	22	29	4			24 1 PPS
ZO-SE	85.97	315.9	12	16A	0	22	29	0	13	13	24 12 *SS
NANKING	88.02	314.9	12	26A	0	22	50	2	13	25	24 33 *SS
WUHAN	89.28	311.2	12	32A	0	23	2	2	13	30	24 44 *SS
Y.-SAKHLINSK	90.43	338.4	11	39	-58						23 16
KUNMING	92.99	300.0	12	51	2	22	59	-33	13	49	23 37 *SS
CHANGCHUN	93.99	326.3	12	53	-1				13	56	
SIAN	95.27	310.4	12	59	0						
PASADENA	95.37	49.9	12	59	-1						
PEKING	95.39	318.6	13	0	0	23	55	42			25 42 *SS
CHENG TU	95.85	304.9	13	1	-1				14	1	
HUANCAYO	97.10	111.6	13	13A	5						
TUCSON	98.64	55.4	13	17	2						
TUCSON TELE.	98.77	55.4	13	17	2						
LA PAZ	99.10	119.7	13	8	-9						
LANCHOW	99.55	308.8	13	20	1	23	31	-3			
MAGADAN	100.26	347.6									17 14
EUREKA	100.30	47.2	13	23	1						
SHI LLONG	100.82	294.0	13	23K	-2						
BUTTE	106.47	43.8									18 11 PP
YAKUTSK	107.17	339.4	16	58	777						
COLLEGE	107.51	15.6	13	53	777						
BOMBAY	111.12	277.6				25	13	47			
FAYETTEVILLE	111.96	60.8	17	58	-10						
LITTLE ROCK	112.52	62.9	18	9	0						19 1 PP
TIKSI	115.09	345.3	18	13	-1						
ST. LOUIS I	115.98	60.3	18	14	-2						19 24 PP
BROKEN HILL	118.42	217.1	18	23	2						
COLUMBIA	120.17	69.0									19 52 PP
TRINIDAD	122.44	103.4	18	30	1						
CHAPEL HILL	122.51	67.9									20 12 PP
SAN JUAN	123.45	92.8	18	31	0						
PALISADES	128.29	64.3	18	40	0						20 35 PP
OTTAWA	128.61	58.5	18	40A	-1						
BREBEUF	130.04	59.0	18	42A	-1						21 39
SHAWINIGAN	130.92	57.9	18	43	-2						21 43
SEVEN FALLS	132.36	57.6	18	30	-18						18 47
SHIRAZ	132.46	276.9	18	47	-1						31 22
KHEYS	132.59	348.6	18	44	-4						
SVERDLOVSK	134.58	315.4	18	39	-13						
ISFJORD	140.09	354.1	18	54	-8						21 57 PP
TIFLIS	142.55	290.4	19	3	-4						
APATITY	144.48	335.9	19	7A	-3				20	28	
SODANKYLA	146.65	338.5	19	13	-1						22 37 SKP
JERUSALEM	146.82	269.9	19	17A	3						20 4 PKP2
KSARA	147.08	273.8	19	17	3				20	16	23 37 PP
SCORESBY SD.	147.20	10.6	19	16A	2						22 42 PP
MOSCOW	147.39	314.9	19	15	0						

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KIRUNA	147.94	342.3	19 17	2					
OULU	148.57	335.8	19 19	3					
HELWAN	149.03	264.0	19 22	5				20 20	
PULKOVO	149.69	324.8	19 22	4					
SIMFEROPOL	150.69	294.4	19 25	5					
NURMI JARVI	151.70	329.1	19 20	-1				19 37	
HELSINKI	151.78	328.4	19 19	-2				19 37	
REYKJAVIK	152.87	16.5	19 30	7					
SKALSTUGAN	153.36	343.0	19 23	0				19 44	PKP2
SIDA	153.95	13.4	19 32K	8					
UPPSALA	154.79	333.2	19 24	-1				19 50	PKP2
ATHENS	157.71	276.3			20 3				
GOTEBORG	158.34	335.2						20 6	PKP2
KRAKOW	159.31	310.3	20 11	40					
COPENHAGEN	159.74	331.0						20 12	PKP2
RACIBORZ	160.32	311.7						20 19	PKP2
TAMANRASSET	161.60	211.5	19 33	0				23 33	PP
POTSDAM	161.79	323.1	20 22	48					
VIENNA-H.	162.17	308.1	20 25	51					
PRUMONICE	162.44	314.9	20 24K	50				24 8	PP
COLLMBERG	162.50	320.4	20 24K	50				24 6	PP
HALLE	162.89	322.3	20 26	51				23 59	PP
PLAUEN	163.42	319.3	20 27	52				24 13	PP
JENA	163.43	321.3	20 27	52				24 10	PP
WITTEVEEN	164.08	334.0	20 32K	56				21 53	
LJUBLJANA	164.15	302.6	19 38	2				20 32	PKP2
MUNSTER	164.42	330.4	20 34	58				24 17	PP
TOLMEZZO	165.00	305.2	20 34	57				24 38	PP
BENSBERG	165.39	328.8	20 37K	60					
ISOLA	165.56	282.8						20 58	PKP2
STUTTGART	165.95	318.6	19 42	4				20 50	PKP2
UCCLE	166.57	334.3	20 43	65	26 44	26			
STRASBOURG	166.84	320.7						20 41	PKP2
DOURBES	167.06	332.1	20 46	68					
KEW	167.15	347.4	20 43	64				24 31	PP
PARIS	168.89	334.3	20 54	74				24 48	PP
FOLINIERE	169.76	343.8	20 55	75					

MARCH 28 O.H 13.M 39.S EPICENTRE 7.64 -81.66 DEPTH= 0.KM

A= 0.14372 B=-0.98077 C= 0.13201 D=-0.9894 E=-0.1450  
G= 0.0191 H=-0.1306 K=-0.9912 HT= 6.8

SE= 2.54

	DELTA DEG.	AZ. DEG.	P O-C			S O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S	M	S
CHINCHINA	6.56	113.4	1	38K	-2	2	57	0				
GALERAZAMBA	7.04	63.2	1	56	9	3	20	11				
BOGOTA	8.12	111.2	2	3K	1	3	37	1				
SANTIAGO MA.	8.86	311.6									1	11
SAN SALVADOR	9.53	309.7	1	21	-61	4	45	34				
COMITAN	13.34	310.9	3	41	28						6	5 SS
CARACAS	14.82	77.8	3	34K	1	6	42	23				
OAXACA	17.44	303.7	4	7	1						8	17
VERA CRUZ	18.15	310.7	4	14	-1	7	41	5			4	34 PP
SAN JUAN	18.51	53.3	4	21	1							
PUEBLA	19.65	306.8	4	37	4							
GRENADA	20.12	75.8	4	38	0							
TRINIDAD	20.23	80.0	4	38	-1							
HUANCAYO	20.55	162.1	4	41	-2	8	37	9				
TACUBAYA	20.65	306.2	4	43K	-1	8	25	-5			5	6 PP
ST. KITTS	20.83	60.6	4	48	2							
DOMINICA	21.25	67.2	4	51	1							
FORT FRANCE	21.31	68.9	4	52	1							
GUADALAJARA	24.63	304.0	5	25	2	9	56	13			6	25 PPP
COLUMBIA	26.24	1.2	5	40	2							
LA PAZ	27.47	150.9	5	50	0	10	37	7			12	21 SS
MAZATLAN	28.34	305.8									15	57
LITTLE ROCK	28.75	341.5	6	0	-1							
BERMUDA	29.25	30.4	6	3	-3	11	9	11				
FAYETTEVILLE	30.55	339.8	5	17A	-60							
CHIHUAHUA	31.09	315.3	6	44	22						10	40
WASHINGTON	31.40	6.9	6	26	1	11	41	9			8	45 PCP
ST. LOUIS 1	31.82	347.2	6	26A	-3	11	38	-1				
MORGANTOWN	31.89	2.5	6	30A	1	11	34	-6				
TERRE HAUTE	32.00	351.6	5	51	-39	11	31	-11				

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FLORISSANT	32.00	347.1	6 30	0	11 41	-1		
PENNSYLVANIA	33.20	5.3	6 40	-1	12 10	10		
LAWRENCE	33.51	340.6	6 42	-1	12 6	1		
CLEVELAND	33.70	0.2	6 43	-2	12 9	1		
FORDHAM	33.79	10.6	6 47	1	12 17	7		
PALISADES	33.94	10.5	6 47	0	12 18	6	7 26	7 58 PP
WESTON	35.79	13.1	7 4A	1	12 50	10		
TUCSON TELE.	36.51	316.3	7 9	0	12 58	6		8 56 PCP
TUCSON	36.53	316.1	7 9	0	12 56	4		9 15 PCP
OTTAWA	37.97	6.8	7 21A	0				8 55
BREBEUF	38.36	9.1	7 25A	1	13 23	3		
SHAWINIGAN	39.52	9.7	7 34A	0				
LARAMIE	39.70	331.4	7 35	-1				
HALIFAX	40.06	20.1	7 40A	1				
SEVEN FALLS	40.42	11.4	7 42	0				
SANTA LUCIA	42.17	166.2	7 58	2	14 18	1		
SALT LAKE C.	42.55	325.6	7 59	0				
PASADENA	42.73	313.4	8 1	0	14 33	8		9 50 PP
EUREKA	44.17	321.2	8 12	0				
FRESNO	45.19	315.7	8 20	0				
BOZEMAN	45.59	331.2	8 23	-1				8 59
VINEYARD	46.29	314.8	8 29	0				
BUTTE	46.58	330.5	8 29	-2				
RENO	46.65	318.9	8 33	1				
LICK	46.75	315.3	8 32K	-1	15 26	3		
BERKELEY	47.44	315.6	8 40	2	15 38	5		9 39
UKIAH	48.71	316.6	8 50	2				
SHASTA	48.94	318.9	8 54	4				
HUNGRY HORSE	48.94	331.7	8 49	-1	15 56	2		10 21 PCP
ARCATA	50.14	318.2	9 2	3				
CORVALLIS	51.55	322.7	9 14	4				
BANFF	51.63	333.4	9 5	-5				
PENTICTON	52.32	329.4	9 13	-3				
VICTORIA	53.83	326.7	9 29	2				
HORSESHOE B.	54.25	327.7	9 31	1				
MBOUR	63.69	77.8	10 37	1	19 19	10		
RESOLUTE	67.43	356.2	10 56A	-4	19 53	-2		
REYKJAVIK	70.27	23.7	11 16K	-1				
SIDA	71.70	24.8	11 23	-3				
SERRA PILAR	72.26	49.4	11 26A	-3				
SCORESBY SD.	73.00	17.7	11 32	-1	21 5	5		21 35 SKS
COLLEGE	73.11	335.9	11 35	1	21 3	1		25 35
ARGENTINE I.	73.83	172.5						15 4
HONOLULU	74.67	290.0			21 29	10		
TOLEDO	75.65	50.9	11 49A	0	21 32	2		26 28 SS
GRANADA	75.93	53.7	11 40A	-10	21 34	1		15 56
ALMERIA	76.83	54.0	11 48	-7	21 31	-12		22 9 PS
ABERDEEN	77.96	33.2			22 7	12		19 13
DURHAM	78.08	35.7	12 2A	0				
ALICANTE	78.40	52.5	12 7	3	22 6	6		
FOLINIERE	78.49	41.9	12 5	0				
KEW	78.68	39.1	12 5A	-1	22 10	7		
NORD	78.92	7.8	12 4A	-3				
PARIS	80.46	41.8	12 15	0	22 32	11		
CLERMONT-FD.	80.95	44.9	12 20	2	22 34	8		
ALGIERS UNI.	81.26	54.0			22 37	7		
UCCLE	81.62	39.8	12 22	1	22 40	7		
DOURBES	81.80	40.5	12 23	1	22 39	4		
DE BILT	82.09	38.5			22 49	11		
BESANCON	82.85	43.3	12 27	-1				
WITTEVEEN	82.97	37.7	12 28	0				
SETIF	83.18	54.4	12 29	0				12 56
BENSBERG	83.40	39.5	12 31	1				12 38 PCP
NEUCHATEL	83.53	43.5	12 31	0				
ISFJORD	83.68	12.0	12 31	-1				
BASLE	83.92	43.0	12 33A	0				
STRASBOURG	83.96	41.9	12 31	-2	22 58	1		
MONACO	84.13	46.8	12 24	-10				
TAMARRASSET	84.50	67.8	12 37A	1	23 8	6		15 51 PP
HEIDELBERG	84.51	41.0	12 35	-1				
EBINGEN	84.79	42.2	12 37	-1				
TUBINGEN	84.83	41.9	12 37	-1				
STUTTGART	84.94	41.6	12 38	0	22 55	-12		16 14 PP
PAVIA	85.23	45.2	12 39	-1	23 7	-3		
RAVENSBURG	85.27	42.6	12 40	0				
CHUR	85.31	43.5	12 40	0				
CHIAVARI	85.43	46.1	12 46	5	22 59	-13		25 19 PS
SONNEBERG	86.00	39.9	12 43	-1				

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COPENHAGEN	86.07	34.5	12 44A	0	23 29	11				23 8	SKS
JENA	86.17	39.3	12 44	0	23 15	-4				16 9	PP
HALLE	86.33	38.7	12 46	1	23 11	-9				16 9	PP
PLAUEN	86.60	39.7	12 45	-1							
PRATO	86.75	46.3	12 43	-4	22 38	-46					
POTSDAM	86.90	37.7	12 48	0	23 30	4					
COLLMBERG	87.01	38.8	12 49A	0						16 18	PP
TOLMEZZO	87.75	43.7	12 51	-1	23 35	1					
ROME	88.03	48.2	12 57	4	23 21	-15				23 55	PS
PRAGUE	88.10	39.9	13 2	8	23 40	3					
PRUHONICE	88.19	40.0	12 54A	0	23 42	4				16 25	PP
LJUBLJANA	88.83	43.8	12 56	-1							
ISOLA	89.27	49.1	12 34	-25							
BYRD STATION	89.63	186.1	12 58	-3						17 26	PKP
KHEYS	89.65	6.1	13 1	0	23 39	-12					
VIENNA-H.	89.68	41.4	13 3	2	23 59	7					
ZAGREB	89.88	43.9	13 0A	-2	23 35	-18					
SODANKYLA	89.92	21.6	13 1	-1							
BRATISLAVA	90.17	41.4	13 5	1							
MESSINA	90.96	51.4			24 14	11					
NURMIJARVI	91.33	28.4	13 8	-1						16 47	PP
KRAKOW	91.58	39.2								23 50	SKKS
HELSINKI	91.58	28.6	13 9	-1							
WARSAW	91.71	36.9								23 54	SKKS
SKALNATE PL.	91.99	40.0	13 15	3							
APATITY	92.27	20.4			23 48	-27				17 1	PP
LWOW	94.19	38.7	13 23	1	24 5	-26					
PULKOVO	94.24	28.1	13 21	-1	23 56	-36					
BUCHAREST	97.16	43.5	13 36	0	23 58	-15				17 43	PP
ATHENS	97.29	50.2	13 36	0							
SOUTH POLE	97.59	180.0	17 11	777						18 26	
KISHINEV	98.12	40.3			24 18	0				17 52	PP
MOSCOW	99.53	30.0	13 46	0							
MAGADAN	101.19	335.7								17 11	
SIMFEROPOL	102.31	40.9			24 38	0				18 15	PP
HERMANUS	103.25	123.5								27 30	PS
HELWAN	105.72	56.2								18 33	PP
YAKUTSK	106.42	345.2	18 1	777							
KSARA	107.97	50.9	14 23	777						18 53	PP
JERUSALEM	108.21	53.1								18 56	PP
SVERDLOVSK	108.71	20.8			25 5	-2				19 11	PP
LWIRO	110.58	89.5	14 46	777							
TIFLIS	110.70	40.1			24 56	-19				19 8	PP
BROKEN HILL	111.30	102.5								18 39	PP
BULAWAYO	111.59	108.6								19 53	PP
MAKHACH-KALA	111.71	37.8								19 26	PP
IRKUTSK	120.11	355.8								20 23	PP
MATUSIRO	122.30	322.3	19 3	6						32 23	PPS
SHIRAZ	122.44	47.7	18 58	1	27 33	95					
RIVERVIEW	124.88	233.9								31 6	PS
CANBERRA	126.14	231.6	19 9	4							
STALINABAD	126.43	28.7			26 20	10				21 6	PP
TANANARIVE	129.48	108.2								21 31	PP
QUETTA	131.81	37.2	19 16	0	26 21	-3				21 40	PP
LAHORE	134.78	29.3	19 20	-1							
DEHRA DUN	137.53	26.4								22 18	
BOMBAY	143.55	43.4	19 35	-2						22 57	
POONA	144.51	42.6	19 38A	0							
SHILLONG	146.40	10.6	19 42A	0							
HONG KONG	146.45	332.8	19 45	3							
BAGUIO CITY	147.51	317.4	19 51	8							
MANILA	148.38	314.5	19 51	6						26 7	
CHITTAGONG	149.51	12.0	19 53	6	27 1	8				23 57	PP
MUNDARING	150.62	212.1	19 50	2							
KODAIKANAL	152.67	49.8								24 3	
LEMBANG	170.75	274.4	20 12A	2						29 38	

MARCH 28 6.H 36.M 0.S EPICENTRE -13.46 165.93 DEPTH= 0.KM

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SE= 2.31

DELTA	AZ.	P	O-C	S	O-C	*PP	SUPP.	
DEG.	DEG.	M	S	S	M	S	M	S



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PORT VILA	4.83	151.9	1 18	3	2 18	5					
NOUMEA	8.81	176.9	2 10	-1	3 46	-6					
SUVA	12.90	112.8	3 0	-7							
RABAU	16.41	302.8	4 3	10					10 44		
BRISBANE	18.53	219.6	4 18	-1	7 49	5					
PORT MORESBY	18.85	280.4	4 23	0	7 54	3					
CHARTERS TS.	19.95	248.0	4 34A	-2							
AFIAMALU	21.66	93.8	4 49K	-5	9 30	41					
ONERAHI	23.48	162.6	5 15	3	9 42	20					
RIVERVIEW	24.33	211.0	5 20A	0	9 28	-9	5 31	6 0	PPP		
KARAPIRO	25.83	162.4	5 34	0							
CANBERRA	26.60	212.1	5 42	1			6 17	10 38			
CHATEAU	27.01	163.4	5 46K	1							
WELLINGTON	28.77	166.1	6 6	5							
MELBOURNE	30.62	213.8	6 18	0							
GEBBIES PASS	30.69	170.4	6 18	0							
ADELAIDE	32.60	224.2	6 36	1							
MUNDARING	48.97	239.3	8 48	-2	15 33	-21					
PERTH	49.29	239.4							19 47		
MANILA	52.46	300.6	9 16	0	16 4	-38					
BAGUIO CITY	53.76	302.2	9 25	-1	16 10	-50					
TUKUBASAN	55.10	334.6	9 23A	-13					13 3	PPP	
MATUSIRO	56.19	333.2	9 41	-3	17 31	-1			21 26	SS	
LEMBANG	57.67	270.4	9 55	1	16 31	-81					
CAPE HALLETT	58.88	178.5	10 4	1							
ZO-SE	61.72	316.7	10 21	-1	18 44	0			10 36	*SP	
HONG KONG	61.94	304.5	10 26	2	18 52	5					
CANTON	63.00	304.8	10 30	-1							
Y.-SAKHLINSK	63.70	342.5	10 36	1							
NANKING	63.92	316.1	10 36A	-1	19 14	2			10 51	*SP	
WILKES	64.25	201.6			19 14	-2					
VLADIVOSTOK	64.35	333.0	10 38	-1	19 16	-1					
UGLEGORSK	65.74	343.0	10 50	2	19 40	6					
WUHAN	65.97	312.4	10 47	-3	19 40	3					
CHANGCHUN	67.98	329.5	11 2K	-1					11 17	*SP	
PEKING	70.46	321.5	11 17	-1	20 34	3			11 32	*SP	
MIRNY	70.96	203.9	11 18	-3	20 34	-3					
SIAN	71.99	313.1	11 28	1	20 56	8					
KUNMING	72.54	302.0	11 32	2	20 59	4			11 46	*SP	
MAGADAN	73.78	352.0	11 37	-1							
CHENG TU	73.90	307.7	11 39A	1	21 13	3			11 54	*SP	
BYRD STATION	74.16	169.9	11 36	-4							
PAOTOW	74.60	319.1	11 43	1							
LANCHOW	76.50	312.6	11 53	0							
SOUTH POLE	76.63	180.0	11 53	-1					12 21		
YAKUTSK	80.43	343.6	12 13	-2	22 20	-1					
ULAN-BATOR	80.47	324.2	12 13	-2	22 22	1					
CHITTAGONG	80.85	295.6	12 18	1	22 0	-25			15 31	PP	
SHILLONG	81.84	298.7	12 21	-1	22 33	-2			12 34	PCP	
LHASA	83.86	302.3	12 34	2							
IRKUTSK	84.16	327.1	12 32	-2							
BERKELEY	84.31	49.1	12 35	0	23 11	11			24 6	PS	
LICK	84.58	49.7	12 39K	3							
SHASTA	85.28	46.4	12 41	1							
COLLEGE	85.51	18.0	12 39	-2	23 12	0			13 50		
FRESNO	85.75	50.8	12 43	1							
PASADENA	86.13	53.7	12 44	0							
CORVALLIS	86.14	42.6	12 47	3							
RENO	86.70	48.2	12 48A	1							
HORSESHOE B.	88.04	38.1	12 54	1							
TIKSI	88.46	349.0	12 55	0	23 45	5					
MADRAS	88.94	283.5	13 14	17	23 32	-12					
EUREKA	89.49	49.2	12 59	-1							
PENTICTON	90.24	39.1	13 4	1							
TUCSON	91.47	57.3	13 11	2							
TUCSON TELE.	91.59	57.3	13 11	1							
HUNGRY HORSE	93.44	41.2	13 19	1							
BUTTE	93.76	43.7	13 20	0							
DEHRA DUN	94.88	299.9			24 1	-36			17 19		
BOMBAY	97.15	287.7			24 14	14			19 32		
NAMANGAN	101.88	309.5	18 8	777	24 39	3					
STALINABAD	103.81	306.8	18 33	777	24 48	3					
QUETTA	104.31	298.0							18 21	PP	
OTTAWA	119.31	45.3	18 50A	-1							
MAKHACH-KALA	119.81	311.9			25 49	0			20 17	PP	
BREBEUF	120.74	44.9	18 53	-1							
SHAWINIGAN	121.07	43.5	18 52A	-2							
PALISADES	121.40	50.1							30 29	PS	
TIFLIS	122.00	310.9	18 57	1	25 43	-13					

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SEVEN FALLS	122.21	42.5	18 56	-1	
PULKOVO	123.45	334.9	18 59	0	
NURMIJARVI	125.20	337.7	19 3	1	
SAN JUAN	129.83	77.2	19 12	1	25 58
BERMUDA	130.21	58.9			22 40 PKS
KSARA	130.49	303.1	19 14	1	21 29 PP
KISHINEV	131.02	321.9			21 48 PP
JERUSALEM	131.43	300.6	19 18	4	21 39 PP
GOTEBORG	131.64	341.6	19 4	-11	
IASI	131.68	322.7			21 41 PP
WARSAW	132.22	331.5			22 49 PKS
BUCHAREST	133.95	320.1	19 20	1	21 48 PP
LWIRO	134.71	253.0	19 23	3	
HELWAN	135.07	298.9	19 20	-1	26 7
COLLMBERG	136.38	335.5	19 24	0	22 2 PP
PRUHONICE	136.72	333.2	19 26	2	22 8 PP
STUTTGART	139.85	336.0	19 26	-4	
UCCLE	139.86	341.9	19 17	-13	
TRIESTE	140.21	329.2			22 26 PP
DOURBES	140.40	341.1			21 41
ISOLA	143.44	323.3	19 36	0	19 44 PKP2
MESSINA	143.98	318.5	19 37	0	23 1
SETIF	151.39	325.7	19 56	7	21 4 23 29 PP
TOLEDO	152.24	343.3	19 55	5	21 27
TAMANRASSET	159.22	299.3	20 0	0	21 1 24 25 PP
MBOUR	177.03	71.6	20 17	5	26 0 PP

MARCH 28 12.H 37.M 53.S EPICENTRE -22.72-176.51 DEPTH= 0.KM

A=-0.92162 B=-0.05627 C=-0.38400 D=-0.0609 E= 0.9981  
G= 0.3833 H= 0.0234 K=-0.9233 HT= 4.0

SE= 3.77

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
AFIAMALU	9.84	27.9	2	32	6	4	8	-10				
ONERAHI	15.24	209.4	3	48	10	6	38	10				
NOUMEA	15.76	268.2	3	53	8	6	37	-4				
KARAPIRO	16.63	202.5	4	1	5							
TUAI	16.92	197.3				6	56	-12				
CHATEAU	17.77	200.6	4	12	2	7	19	-8				
WELLINGTON	19.91	199.6	4	33	-3	7	59	-16				
COBB RIVER	20.43	203.9	4	44	3	8	10	-16				
KAIMATA	22.16	204.2	5	1	2	8	44	-15				
GEBBIES PASS	22.77	200.6	5	2	-3	8	56	-14				
BRISBANE	28.17	254.1	5	55	-1						6 36	
RIVERVIEW	30.44	241.5	6	5K	-11						13 31	
CANBERRA	32.51	239.5	6	33A	-1						9 19	
CHARTERS TS.	34.71	267.2	6	52	-1							
PORT MORESBY	37.23	284.9	7	15	0							
ADELAIDE	40.76	242.4	7	43K	-1						9 45 PCP	
MUNDARING	59.64	245.3	10	4	-4						12 53	
SOUTH POLE	67.42	180.0	10	57	-2						11 23 PCP	
MATUSIRO	72.81	323.2	11	30A	-2	20	48	-10			14 19 PP	
LEMBANG	74.39	269.0	11	37K	-4							
BERKELEY	78.92	40.9	12	7A	0							
LICK	78.95	41.6	12	7K	0						12 54	
PASADENA	79.20	45.9	12	8	0							
SHASTA	80.67	38.6	12	17K	1							
RENO	81.46	40.8	12	21A	1							
CORVALLIS	82.73	35.2	12	29	2							
TUCSON	83.20	51.0	12	30	1						16 5 PP	
TUCSON TELE.	83.33	51.0	12	31	1						16 6 PP	
EUREKA	83.78	42.7	12	32	0						16 7 PP	
PENTICTON	87.73	33.3	12	50	-2							
BUTTE	89.58	38.8	12	58	-3							
COLLEGE	90.08	11.8	13	1	-2							
HUNGRY HORSE	90.08	36.3	13	2	-1							
RAPID CITY	94.30	43.8	13	21	-1							
PALISADES	113.79	53.8									29 16 PS	
KHEYS	117.82	351.3	18	45	-3							
QUETTA	123.32	292.0	18	58	-1							
KIMBERLEY	124.87	202.9	19	1	-1							
BULAWAYO	130.85	211.8	19	12	-1							
SODANKYLA	133.05	348.0	19	15	-3						22 27 SKP	

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BROKEN HILL	135.69	215.8	19 16	-6	
PULKOVO	138.43	339.9	19 17	-11	
MOSCOW	138.50	331.4			22 46 PP
SKALSTUGAN	138.73	354.1	19 21	-7	
NURMI JARVI	139.44	344.1	19 20	-9	20 12
HELSINKI	139.65	343.6	19 22	-8	
TIFLIS	140.70	308.7	19 21	-11	
UPPSALA	141.58	348.6	19 26	-7	
GOTEBORG	144.52	352.2	19 36	-2	20 24
LWIRO	145.00	228.1	19 38	-1	
COPENHAGEN	146.42	350.8	19 41A	0	
SIMFEROPOL	146.57	319.0	19 42	0	
DURHAM	147.77	5.5	19 45	1	
KISHINEV	148.32	326.1	19 46	1	
LWOW	148.50	334.2	19 46	1	
POTSDAM	149.49	348.4	19 49	3	
KSARA	149.53	298.4	19 47	1	23 47 PP
WITTEVEEN	149.85	356.2	19 50A	3	
RACIBORZ	150.35	340.7	19 51	3	
SKALNATE PL.	150.45	337.4	19 51K	3	
JERUSALEM	150.47	294.7	19 52	4	22 42 PP
COLLMBERG	150.53	347.8	19 45	-3	19 52 PKP2
HALLE	150.53	349.2	19 53	5	23 23 PP
MUNSTER	150.63	354.8	19 53	5	
JENA	151.14	349.4	19 48	-1	23 31 PP
PRUHONICE	151.44	345.0	19 54K	5	24 6 PP
PLAUEN	151.46	348.4	19 52	3	
BENSBERG	151.67	355.1	19 55	5	
SONNEBERG	151.74	349.6	19 55	5	20 19
UCCLE	151.96	358.8	19 55	5	
VIENNA-H.	152.53	341.2	19 51	0	
DOURBES	152.66	358.4	19 57	6	
HEIDELBERG	153.05	352.5	19 58	6	
STUTTGART	153.60	351.4	19 50	-2	20 13
FOLINIERE	153.81	6.0	19 59	6	
HELWAN	154.09	291.8	19 59	6	
TOLMEZZO	155.15	344.2			20 19
TRIESTE	155.64	342.4			20 22 PKP2
ATHENS	156.93	315.8			20 26 PKP2
ISOLA	159.99	336.4	19 59	-2	20 33 PKP2
TAMANRASSET	178.13	272.2	20 10A	-2	25 50 PP

MARCH 28 20.H 48.M 45.S EPICENTRE 58.15 -32.10 DEPTH= 0.KM

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G= 0.7182 H=-0.4506 K=-0.5303 HT= -8.3

SE= 1.38

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
REYKJAVIK	7.76	35.1	1	57	0							
SIDA	8.85	44.5	2	14	2						2	43
ABERDEEN	16.02	80.7									7	10
KEW	19.36	96.4	4	33	3							
FOLINIERE	20.85	103.0	4	46	0							
SKALSTUGAN	21.90	57.0	4	57	1							
UCCLE	22.19	93.5	5	0	1							
THULE	22.34	338.5	5	3	2							
PARIS	22.37	99.6	5	1	0							
DOURBES	22.72	94.8	5	5	0						5	33 PP
GOTEBORG	23.11	72.1	5	9	1							
MUNSTER	23.30	88.1	4	36	-34							
HALI FAX	23.60	248.8	5	18	5							
BENSBERG	23.60	90.6	5	14	1							
UPPSALA	25.19	64.8	5	29	1							
HEIDELBERG	25.30	92.4	5	30	0							
SEVEN FALLS	25.60	261.4	5	32	0							
TOLEDO	25.64	123.2	5	32	-1						6	6
HALLE	25.84	85.7	5	35	0						6	48
JENA	25.95	87.0	5	35	-1						6	22 PP
STUTTGART	25.98	93.0	5	35	-1						6	11
SONNEBERG	26.06	88.4	5	37	0							
EBINGEN	26.17	94.4	5	38	0							
COLLMBERG	26.50	85.2	5	39	-2							
PLAUEN	26.50	87.4	5	37	-4							

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SHAWINIGAN	26.99	262.4	5	45A	0	
PRUHONICE	28.06	86.4	5	54	-1	6 39 PP
RESOLUTE	28.14	329.9	5	54	-2	
NURMIJARVI	28.29	60.8	5	57	0	
OTTAWA	29.29	263.4	6	6A	0	
ST. LOUIS I	41.71	268.2	7	52	0	
LAWRENCE	44.13	272.8	8	11	-1	
TAMANRASSET	44.44	126.4	8	14A	0	10 4 PP
RAPID CITY	44.64	284.0	8	15	-1	10 3
LITTLE ROCK	45.73	266.4	8	24	-1	
HUNGRY HORSE	47.05	295.5	8	35	0	10 6 PCP
BOZEMAN	47.49	291.0	8	38	0	
COLLEGE	48.06	328.9	8	42	-1	
PENTICTON	48.99	300.0	8	50	0	
KSARA	50.57	87.8	9	4	2	
HELWAN	51.24	94.9	9	7	0	
JERUSALEM	51.80	90.0	9	12	0	
EUREKA	54.50	289.0	9	30	-2	
TUCSON TELE.	57.32	279.6	9	51	-1	
SHIRAZ	62.58	77.5	10	27K	-1	
BYRD STATION	146.17	198.2	19	37	-4	
BRISBANE	149.06	351.5	19	51	5	

MARCH 29 6.H 30.M 58.5 EPICENTRE -16.93 167.22 DEPTH= 0.KM

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G= 0.2823 H=-0.0641 K=-0.9572 HT= 5.4

SE= 3.63

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
PORT VILA	1.32	127.1	0	23	-3							
KOLMAC	4.56	217.2	1	8	-4							
NOUMEA	5.39	187.6	1	8	-16							
SUVA	10.77	98.1	2	47	8	5	2	21				
BRISBANE	16.93	229.6	3	58	-2	7	14	6				
RABAU	19.44	308.9	4	31	0						6	18
ONERAHI	19.81	162.6	4	35	0	8	19	6				
CHARTERS TS.	20.12	257.8	4	38	0	8	31	11				
AFIAMALU	20.47	84.5	4	38	-4	8	40	13			8	49 PCP
PORT MORESBY	20.91	288.5	4	48	1	8	35	-1			8	51 *SS
AUCKLAND	20.96	162.8	4	44	-3	8	44	7				
KARAPIRO	22.16	162.3	4	58	-1	9	9	10				
RIVERVIEW	22.17	217.6	4	58K	-1	9	7	7			5	28 PP
CHATEAU	23.34	163.5	5	12K	1	9	31	10			5	29
TUAI	23.46	160.2	5	12	0	9	25	2			5	29
CANBERRA	24.48	218.1	5	20A	-2	9	45	5			5	23
COBB RIVER	24.53	169.9	5	26	4						10	47
WELLINGTON	25.12	166.5	5	28	0	9	36	-15			9	54
KAIMATA	25.75	172.8	5	34	0	10	19	17			5	47
GEBBIES PASS	27.08	171.3	5	46	0	10	25	1				
ROXBURGH	28.52	176.9	6	5	6	10	44	-3				
MELBOURNE	28.56	218.8	6	1	1	10	44	-3			6	47 PP
FORT NELSON	30.95	209.0	6	23	2	11	27	2				
ADELAIDE	31.13	229.3	6	21	-2	11	29	1				
GUAM	37.48	322.3	7	19K	2	13	5	-2				
MUNDARING	48.36	242.1	8	43	-3	15	45	-1				
PERTH	48.68	242.2	8	56	8	15	55	5			10	52 PP
HONOLULU	50.99	43.1	9	9K	3	16	2	-21				
KIPAPA	51.13	43.0	9	6K	-1							
HAWAII V.OB.	51.62	47.1	9	6	-5	16	34	3				
CAPE HALLETT	55.40	178.9	9	38	-1	17	19	-3			10	15 PCP
BAGUIO CITY	56.67	303.4	9	46	-2	17	48	9				
HONGO	58.46	333.9	10	7	7						13	31
TUKUBASAN	58.76	334.5	9	52	-10	18	7	0			12	12 PP
LEMBANG	58.99	272.2	10	2K	-2	18	15	5				
ABUYAMA	59.65	330.0	11	12A	63							
TAWU	59.83	309.2	10	21	11							
MATUSIRO	59.83	333.1	10	7K	-3	18	21	0			22	27 SS
DJAKARTA	59.92	272.6	10	10	0	18	24	2				
HWALIEN	60.28	311.2	10	24	11							
MIZUSAWA	60.87	337.0	10	17	0	18	34	0				
SCOTT BASE	60.94	180.1	10	21	4						11	34 PCP
TAIPEI	61.01	312.1	10	32	14	18	49	13				
WILKES	61.51	202.6	10	10	-11	18	41	-1			13	30
NHATRANG	64.22	293.0	10	37	-2	19	23	7				

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HONG KONG	64.93	305.2	10 46	2	19 32	7	
ZO-SE	65.09	317.1	10 42	-3	19 27	0	
CANTON	66.00	305.5	10 55	4	19 47	9	
NANKING	67.27	316.5	10 58	-1	19 58	5	
Y.-SAKHLINSK	67.37	342.1	10 57	-2			13 26 PP
VLADIVOSTOK	67.99	332.8	11 7	4	20 5	3	
MIRNY	68.32	204.5	11 8	3			
WUHAN	69.23	312.8	11 9	-2	20 16	-1	
BYRD STATION	70.54	169.8	11 16	-3			13 44 PP
CHANGCHUN	71.59	329.4	11 24K	-1	20 51	7	
SOUTH POLE	73.17	180.0	11 32	-3	21 3	1	14 14 PP
PEKING	73.94	321.6	11 38	-1	21 7	-4	
KUNMING	75.42	302.3	11 47	-1	21 30	3	
MAGADAN	77.38	351.5	11 57	-2	21 45	-4	12 3 PCP
PORT BLAIR	78.90	285.9	12 7	0	22 7	2	
LANCHOW	79.75	312.6	12 11K	-1			
KERGUELEN I	81.89	221.0	12 27	4	22 41	5	
CHITTAGONG	83.46	295.6	12 32	1	22 58	6	15 49 PP
ULAN-BATOR	83.99	324.0	12 33	-1			
YAKUTSK	84.09	343.2	12 31	-3			
SHILLONG	84.58	298.6	12 35K	-2	23 5	2	15 58 PP
SAN FRANCISCO	85.48	48.5	12 45	4			
UKIAH	85.53	47.0	12 43A	2			
BERKELEY	85.66	48.4	12 41	-1	23 7	-7	24 19
VINEYARD	85.83	49.8	12 44	1			
LICK	85.89	49.1	12 41A	-2			15 58
CALCUTTA	86.51	294.7	12 48	2	23 18	-4	
LHASA	86.75	302.1	12 47	0			
SHASTA	86.78	45.8	12 45K	-3			
FRESNO	87.00	50.3	12 49	0			15 16
PASADENA	87.20	53.2	12 48	-2	23 33	4	16 11 PP
IRKUTSK	87.73	326.8	12 55A	3			23 21 SKKS
CORVALLIS	87.87	42.0	13 9	16			
RENO	88.10	47.7	12 55	1			
COLLEGE	88.43	17.6	12 50A	-5	23 25	-15	29 26 SS
BOKARO	89.17	295.1	13 4	5	23 49	2	
ARGENTINE I.	89.33	160.8	13 1	1			
VICTORIA	89.54	38.5	12 46	-15			
HORSESHOE B.	90.00	37.7	13 7	4			
EUREKA	90.82	48.9	13 4K	-3			
MADRAS	90.94	283.2	13 5	-2	24 8	5	15 51 PP
TIKSI	92.09	348.6	13 15	2			25 17 PS
TUCSON	92.30	57.1	13 12A	-2	24 20	5	17 4 PP
TUCSON TELE.	92.42	57.1	13 12A	-2			38 43 PKPPKP
KODAIKANAL	92.69	279.8	13 28K	13	24 4	-15	
MAZATLAN	93.31	66.9					24 47 SCS
HYDERABAD	93.81	287.0	13 38	18	23 55	-33	16 57
SALT LAKE C.	94.23	48.8	13 25A	3			
CHIHUAHUA	95.14	61.8					17 13 PP
HUNGRY HORSE	95.23	41.1	13 33A	6	24 7	4	17 33 PP
BUTTE	95.41	43.6	13 30	2			17 15
BOZEMAN	96.31	44.3	13 32A	0			
AGRA	96.85	296.2	13 40A	6	24 14	3	17 34 PP
DEHRA DUN	97.66	299.3	14 30	52	24 26	11	17 43 PP
POONA	98.32	286.8	13 45K	4	24 23	4	
TACUBAYA	98.75	72.4					17 40 PP
LARAMIE	98.93	49.6	13 49	5			17 59
BOMBAY	99.36	286.9	13 53	7	24 24	0	17 39 PP
OAXACA	100.31	75.3			24 23	-5	34 47
SEMIPALATNSK	100.95	319.4			24 29	-3	
VERA CRUZ	101.50	73.3					24 47 SKKS
FRUNSE	103.18	311.0	14 8	5	24 47	5	18 14
COMITAN	104.51	77.2					21 4 PPP
SANTA LUCIA	105.49	132.7					26 11
LAWRENCE	106.21	53.6	14 25	777			18 31
STALINABAD	106.85	305.9			25 5	6	
TASHKENT	106.85	308.8					18 45 PP
QUETTA	107.01	297.0	14 22	777	25 5	5	34 1 SS
LITTLE ROCK	107.88	58.3					18 35 PP
RESOLUTE	108.30	16.1	14 27	777			26 32
KHEYS	109.70	350.5					19 6 PP
FLORISSANT	109.96	54.3			25 12	0	19 7 PP
ST. LOUIS I	110.06	54.5			25 9	-4	19 6
TANANARIVE	110.80	241.6	18 42	7			19 34
HUANCAYO	111.82	110.8	18 48	11			
SVERDLOVSK	113.08	325.1	18 44	5	25 28	3	29 10 PS
THULE	114.16	12.3	18 46	4			29 26 PKKP
ASHKABAD	114.96	304.4	18 47	4			19 48 PP
NORD	115.26	0.6	18 41	-3	25 22	-11	20 8 PP

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LA PAZ	116.13	118.5	18 50	5				30 1	PS
COLUMBIA	117.12	60.1	18 47	0					
CHINCHINA	117.41	93.2	18 50	2	25 42	1		30 0	PS
ISFJORD	117.49	354.0						19 55	PP
MORGANTOWN	118.08	53.8	18 53	4				20 34	PP
LCO. MARQUES	118.63	226.9						29 44	SP
CHAPEL HILL	118.80	58.0	18 53	2					
SHIRAZ	119.38	294.8	18 51K	-1	25 49	1			
PENNSYLVANIA	119.64	52.4			25 51	2		30 13	PS
WASHINGTON	120.34	54.5	18 57	3				20 21	PP
OTTAWA	120.81	46.9	18 52A	-3				20 14	
APATITY	121.44	341.0	18 54	-2	25 28	-27		20 28	PP
KIMBERLEY	121.85	219.1	18 47	-10					
BREBEUF	122.26	46.6	18 55A	-2				26 0	SCS
PALISADES	122.62	51.9	18 57	-1	25 59	0		20 36	PP
FORDHAM	122.64	52.1	19 1	4					
SHAWINIGAN	122.68	45.2	18 58A	0					
SODANKYLA	123.58	342.8	18 58	-2					
SEVEN FALLS	123.88	44.3	18 59A	-1					
GORIS	124.30	306.5	19 5	4	26 1	-3			
WESTON	124.37	50.0	18 56	-5				29 24	
BULAWAYO	125.14	229.4	19 3	0					
TIFLIS	125.17	309.4	19 3	0				37 32	SS
MOSCOW	125.71	327.5	19 2	-2				20 59	PP
SCORESBY SD.	126.18	3.8	19 4A	-1				20 57	PP
PULKOVO	127.11	334.3	19 5	-2				21 8	PP
CARACAS	127.14	89.5	19 20A	13	26 22	10			
BROKEN HILL	128.71	234.9	19 16	6					
NURMI JARVI	128.87	337.3	19 9	-1	26 3	-14		21 16	PP
HELSINKI	128.98	336.8	19 9	-1				22 34	PKS
SAN JUAN	129.31	79.9	19 10	-1				22 34	PKS
HALIFAX	129.38	45.7	19 9	-2					
SKALSTUGAN	130.30	345.6	19 8	-5				22 38	PKS
BERMUDA	130.85	61.7	19 18	4				21 42	PP
WINDHOEK	131.04	217.6	19 20	6					
UPPSALA	131.80	340.0	19 14	-2				22 44	PKS
SIMFEROPOL	131.93	315.8	19 21	5				21 41	PP
ST. KITTS	132.38	81.8	19 18	1					
REYKJAVIK	132.44	5.4	19 17	0					
TRINIDAD	132.47	91.0	19 19	2				22 45	
SIDA	133.06	3.2	19 18	0					
KSARA	133.37	300.7	19 24	5				21 54	PP
FORT FRANCE	133.51	85.6	19 22	3				22 48	
JERUSALEM	134.20	298.0	19 18	-2				22 14	PKS
LWIRO	134.76	249.1	19 23	2				34 30	
IASI	135.16	321.2	19 30	8					
GOTEBORG	135.31	341.4	19 13	-9				22 50	PKS
LWOW	135.80	326.2	19 27	4				22 5	PP
WARSAW	135.84	330.6	19 30	7				25 11	PPP
COPENHAGEN	136.80	339.3	19 29	4				23 2	PKS
BUCHAREST	137.38	318.4	19 19	-7				23 6	PKS
CAMPULUNG	137.64	320.0						30 4	
HELWAN	137.76	295.9	19 26	-1				27 17	
KRAKOW	137.77	328.8	19 30	3				22 17	PP
SKALNATE PL.	138.16	327.6	19 24	-3				22 17	PP
RACIBORZ	138.60	329.9	19 34	6					
ABERDEEN	139.04	351.1						22 53	SKP
POTSDAM	139.18	335.9	19 28	-1				22 38	PP
TIMI SOARA	139.67	322.8						24 7	PP
SOFIA	139.83	317.5	19 30	0	26 41	3		22 35	PP
COLLMBERG	140.03	334.8	19 25	-6				22 30	PP
HURBANOVO	140.04	327.3						22 28	PP
HALLE	140.30	335.8	19 31	0				22 33	PP
PRAGUE	140.34	332.5	19 41	10				23 5	PKS
PRUHONICE	140.36	332.3	19 36A	5				23 15	PKS
BRATISLAVA	140.41	328.4	19 32	1				22 25	PP
BELGRADE	140.64	322.0	19 37A	5				22 38	PKP
VIENNA-H.	140.72	329.1	19 31	-1				22 41	PP
JENA	140.89	335.6	19 31	-1			19 56	22 39	PP
PLAUEN	141.00	334.7	19 29	-4				22 37	PP
WITTEVEEN	141.06	341.2	19 32	-1					
DURHAM	141.26	349.6	19 19A	-14				23 14	
SONNEBERG	141.47	335.3	19 34	1				22 38	PP
MUNSTER	141.48	339.7	19 33	0				22 58	
ATHENS	141.76	310.6	19 30K	-4				25 50	PPP
DE BILT	142.14	341.9						41 28	SS
BENSBERG	142.49	339.2	19 35	0				23 0	PP
ZAGREB	142.53	326.4	19 40	5				22 47	



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LJUBLJANA	143.14	327.8	19 36	0							19 58
STUTT GART	143.51	335.3	19 34	-3							41 35 SS
UCCLE	143.53	341.7	19 28	-9	26 37	-8					
TOLMEZZO	143.64	329.5	19 39	2				19 56			23 19 PP
LUANDA	143.69	227.1	19 38	1							
TUBINGEN	143.78	335.2	19 34	-3							
TRIESTE	143.80	328.0	19 39	2							23 6 PP
EBINGEN	144.10	335.0	19 36	-2							
KEW	144.14	346.7	19 40	2							22 47 PP
RAVENSBURG	144.15	334.0	19 35	-3							
CHUR	144.92	333.0	19 38K	-1							
TARANTO	145.02	318.2	19 27	-12							47 52 SS
BASLE	145.18	335.6	19 39K	-1							20 16
PARIS	145.85	341.9	19 42	1							23 5 PP
NEUCHATEL	145.86	335.7	19 41	0							
BESANCON	146.03	336.9	19 42	1							23 9 PP
PAVIA	146.36	331.5	19 49K	7				20 37			47 19 SSS
OROPA	146.55	333.2	19 40	-2							46 35 SS
JERSEY	146.68	347.2	19 47	5							35 34
ISOLA	146.93	321.3	19 47K	4							19 53 PKP2
CHIAVARI	146.94	330.3	19 41	-2							42 2 SS
ROME	147.01	324.2	19 50A	7				20 22			23 16 PP
REGGIO CALA.	147.35	315.9	19 49	6							
MESSINA	147.36	316.1	19 38	-5							23 12 PKS
MONACO	148.27	331.6	19 47	2							20 10
CLERMONT-FD.	148.33	338.6	19 49K	4	27 44	52					
SETIF	154.93	323.4	19 55	0							23 52 PP
SERRA PILAR	155.62	352.3	19 45K	-11	26 49	-12					23 53 PP
ALGIERS UNI.	155.78	327.7	19 52	-4							24 0 PP
TOLEDO	155.91	343.4	19 59	3							24 7 PP
ALICANTE	156.09	335.6	19 51	-5	26 56	-5					43 42 SS
RELIZANE	157.82	330.2	19 44	-15				20 22			24 2 PP
LISBON	158.06	352.4	20 38K	39							24 9 PP
ALMERIA	158.16	337.3	20 2A	3							24 10 PP
GRANADA	158.26	339.9	19 50A	-9	26 35	-28					24 26 PP
TAMANRASSET	161.83	291.6	20 2K	-1							24 29 PP

MARCH 29 7.H 30.M 36.S EPICENTRE 0.60 98.45 DEPTH= 0.KM

A=-0.14696 B= 0.98909 C= 0.01035 D= 0.9891 E= 0.1470  
G=-0.0015 H= 0.0102 K=-0.9999 HT= 7.2

SE= 2.23

	DELTA DEG.	AZ. DEG.	P			S			*PP		SUPP.	
			M	S	O-C	M	S	O-C	M	S	M	S
DJAKARTA	10.74	129.0										5 14
LEMBANG	11.75	129.0	2 51		-1							6 5
NHATRANG	15.72	42.3	2 52		-52							8 46 PCP
CHITTAGONG	22.57	343.8	5 4		1	9 11	4					5 32 PP
SHILLONG	25.63	346.2	5 33K		0							
BAGUIO CITY	26.89	53.1	5 48		4							
WARSAK DAM	41.70	325.6	7 53		1							
QUETTA	41.97	317.4	7 53		-1							13 32 PP
ULAN-BATOR	47.70	7.7	8 41		1							
CHARTERS TS.	51.12	116.6	9 7		1							
MATUSIRO	51.30	41.3	9 8		0							10 23 PCP
ADELAIDE	51.63	137.4	9 11		1							
TANANARIVE	53.58	245.9	9 30		5							
MELBOURNE	57.42	137.0	9 49		-4							
BRISBANE	59.09	122.7	10 6		2							
CANBERRA	59.09	132.6	10 4		0							
LWIRO	69.69	267.4	11 19		6							
BULAWAYO	71.32	248.6	11 20		-3							
KARAPIRO	80.19	128.5	12 14		0							
CHATEAU	80.38	129.8	12 15		0							
NURMI JARVI	81.54	331.3	12 20		-1							
SODANKYLA	82.51	338.2	12 25		-1							
KIRUNA	84.93	338.1	12 36		-2							
LJUBLJANA	85.35	316.0	12 39		-1							13 1'
ISOLA	85.48	310.7	12 54		13							
PRUHONICE	85.61	319.9	12 40		-1							13 5
COLLMBERG	86.68	321.2	12 45		-2							
SKALSTUGAN	87.76	333.5	12 50		-2							
TAMANRASSET	92.48	292.7	13 12		-2							
COLLEGE	99.35	23.3	13 51		6							

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HUNGRY HORSE	123.71	25.5	19 1	1	
EUREKA	129.19	34.4	19 12	2	
TUCSON TELE.	137.19	37.4	19 31	6	22 59 PKS
COLUMBIA	145.58	359.2	19 42	2	
LA PAZ	159.39	219.2	19 12	-48	

MARCH 29 22.H 10.M 22.S EPICENTRE -6.09 147.72 DEPTH= 0.KM

A=-0.84076 B= 0.53107 C=-0.10531 D= 0.5340 E= 0.8455  
G= 0.0890 H=-0.0562 K=-0.9944 HT= 6.9

SE= 3.38

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
PORT MORESBY	3.34	189.7	0 56	1	1 34	-2		
RABAU	4.81	67.3	1 18	3				
CHARTERS TS.	13.99	185.7	3 22	0	6 0	1		
KOUMAC	21.57	133.4	5 11	18	9 6	18		
BRISBANE	21.73	167.8	4 55	0	8 53	2		
NOUMEA	24.23	133.6	5 18	-1	8 56	-40		
RIVERVIEW	27.79	173.9	5 55A	2	10 33	-2		6 54
CANBERRA	29.12	177.9	6 4K	-1	10 54	-2		
ADELAIDE	29.92	194.9	6 9	-3	11 6	-3		7 11 PP
MELBOURNE	31.70	184.1	5 46	-41				11 34
MUNDARING	39.10	224.8	7 29	-2	13 25	-6		
PERTH	39.36	225.1	7 44	11	13 37	2		16 20
LEMBANG	39.85	266.6	7 36A	-1	13 44	2		
KARAPIRO	40.54	145.4	8 2	19				
AFIAMALU	40.58	104.2	7 41	-2				15 41
DJAKARTA	40.65	267.6						8 16
CHATEAU	41.44	146.8	7 59	9				8 11
NHTRANG	42.39	295.4						8 50
TUKUBASAN	42.69	350.9	7 57A	-3	14 37	13		9 53 PP
HONG KONG	43.30	311.7	8 8	3	14 34	1		
MATUSIRO	43.33	348.8	8 4A	-1	14 27	-7		17 55 SCS
CANTON	44.38	312.0	8 17	3				
ZO-SE	44.85	327.1	8 20	2				
NANKING	46.90	325.8	8 37	3				
VLADIVOSTOK	51.04	345.1	9 7	1				
Y.-SAKHLINSK	53.06	355.7	9 21	0	16 52	1		
KUNMING	53.62	307.3	9 27	2	17 17	19		
CHANGCHUN	53.65	340.0	9 26	1	17 18	19		
PEKING	54.32	330.4	9 20	-10	17 23	15		
UGLEGORSK	55.16	355.5	9 38	1				
PAOTOW	57.92	326.7	9 57	1	18 15	19		
LANCHOW	58.73	318.9	10 4	2				
SHILLONG	62.68	302.7	10 27	-2				
ULAN-BATOR	64.64	330.9	10 37	-5				
WILKES	65.42	195.6			19 26	-5		
MAGADAN	65.47	1.7	10 45	-2				
CAPE HALLETT	67.59	172.7			19 50	-7		24 34 SS
YAKUTSK	69.32	351.0	11 9	-2				
AGRA	74.95	300.1	11 45A	0				
BOMBAY	77.80	290.7	12 1	0	22 3	10		
TIKSI	78.55	354.0	12 3	-2				
WARSAK DAM	82.02	305.5	12 25	2				
ANDI JAN	82.96	312.2	12 28	0				
NAMANGAN	83.53	312.3	12 32	1				
SOUTH POLE	83.95	180.0	12 30	-3				
BYRD STATION	84.53	169.9	12 34	-2				
COLLEGE	84.96	22.8	12 37	-1				
QUETTA	85.10	300.9	12 37	-2	23 3	-5		15 58 PP
STALINABAD	85.18	309.5	12 53	14	23 22	13		
KHEYS	95.91	350.5						17 21 PP
PASADENA	96.77	56.4	13 51	17	25 15	64		26 27 PS
SHIRAZ	97.49	299.0	13 34	-3	24 36	22		
EUREKA	98.70	51.1	13 43	1				
HUNGRY HORSE	100.00	42.1	14 4	16				
MAKHACH-KALA	101.60	312.5						21 15
TIFLIS	103.67	311.3						18 20 PP
MOSCOW	106.27	326.4						18 46 PP
PULKOVO	108.81	331.7						19 2 PP
KSARA	111.49	303.8	18 31	-5				19 15 PP
BULAWAYO	114.74	244.7	18 43K	1				
BROKEN HILL	116.40	250.7	18 48K	2				

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COLLMBERG	121.42	328.5	18 56	1	19 19
STUTTGART	124.84	327.7	19 1	-1	19 32 PP
DURHAM	125.54	338.7	19 13K	10	
OTTAWA	125.69	36.6	19 4	0	32 44
ROME	126.67	319.1			22 6 PP
SHAWINIGAN	126.74	34.0	19 4	-2	
PALISADES	129.15	40.4	19 17	7	21 17 PP
HUANCAYO	133.55	112.9	19 21	2	22 41 PP
CHINCHINA	136.85	89.2	19 25	0	22 29 SKP
BOGOTA	138.37	89.9	19 30	2	23 6 SKP
TAMARASSET	139.97	298.4	19 25	-5	22 18 PP
BERMUDA	140.05	44.9	19 22	-9	22 38 PKS
SAN JUAN	144.82	66.6	19 39	0	
ST. KITTS	148.21	66.8	19 50	5	
GRENADA	150.34	76.4	19 51	3	
TRINIDAD	150.84	79.1	19 56	7	

MARCH 30 10.H 49.M 48.S EPICENTRE -13.53 165.93 DEPTH= 0.KM

A=-0.94341 B= 0.23644 C=-0.23254 D= 0.2431 E= 0.9700

G= 0.2256 H=-0.0565 K=-0.9726 HT= 6.0

SE= 2.01

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
KOUMAC	7.16	192.5	1	16	-33	2	36	-36				
NOUMEA	8.73	176.8	2	11	0	3	44	-7				
SUVA	12.87	112.5	3	24	17	5	20	-12				
RABAU	16.45	303.1	4	3	9							
BRISBANE	18.47	219.7	4	19	0	7	38	-5				
PORT MORESBY	18.86	280.6	4	22	-2	7	59	7				
CHARTERS TS.	19.92	248.2	4	34	-2	8	27	11				
AFIAMALU	21.66	93.6	4	55	1	9	10	20				
ONERAHI	23.41	162.5	5	15	3	9	42	20			6 51	
RIVERVIEW	24.26	211.1	5	20K	0	9	37	0			8 52	PCP
KARAPIRO	25.76	162.3	5	33K	-1						9 6	PCP
CANBERRA	26.53	212.2	5	40	-1	10	19	4			9 18	PCP
CHATEAU	26.94	163.4	5	45A	0						6 32	PP
TUAI	27.06	160.5	5	45	-1							
COBB RIVER	28.08	169.0	6	0	4							
WELLINGTON	28.70	166.0	6	2	1						6 44	PP
MELBOURNE	30.55	213.9	6	20	2	11	26	7				
GEBBIES PASS	30.61	170.4	6	17	-1							
ROXBURGH	31.97	175.5				11	46	5				
ADELAIDE	32.54	224.3	6	35	0	11	50	0			7 48	PP
FORT NELSON	33.39	205.2				12	7	3				
MUNDARING	48.93	239.3	8	49	-1				8 58			
PERTH	49.25	239.4	9	7	14	16	9	11			10 54	PP
MANILA	52.50	300.6	9	14	-3						14 59	
TUKUBASAN	55.17	334.6	9	35K	-2	17	17	-2			13 6	PPP
MATUSIRO	56.25	333.2	9	42	-3	17	25	-9			21 29	SS
DJAKARTA	58.57	271.0	10	14	13	18	30	26				
CAPE HALLETT	58.81	178.5	10	1A	-2	18	22	15				
ZO-SE	61.77	316.7	10	22	-1	18	44	-2				
NHATRANG	61.78	291.9	10	22	-1	18	44	-2				
HONG KONG	61.98	304.5	10	24	0	18	48	0				
CANTON	63.04	304.9	10	32	1	19	4	3			10 47	*SP
Y.-SAKHLINSK	63.77	342.5	10	36	0	19	15	4				
NANKING	63.97	316.2	10	38A	0				10 50			
VLADIVOSTOK	64.42	333.0	10	40	-1	19	22	3				
UGLEGORSK	65.82	343.0	10	51	1	19	40	4				
WUHAN	66.02	312.5	10	50	-1				11 2		11 5	*SP
CHANGCHUN	68.05	329.5	11	5K	1	20	4	1	11 17		11 25	PCP
PEKING	70.52	321.6	11	19	0	20	33	1	11 31		11 40	PCP
SIAN	72.04	313.1	11	28	0	20	46	-4				
KUNMING	72.57	302.0	11	33	2	20	59	3	11 45		11 52	PCP
MAGADAN	73.85	352.0	11	38	-1							
BYRD STATION	74.09	169.9	11	35	-5							
PAOTOW	74.65	319.2	11	44	1	21	25	6				
LANCHOW	76.55	312.6	11	55K	1	21	42	2				
YAKUTSK	80.50	343.6	12	14	-2	22	18	-4				
ULAN-BATOR	80.53	324.2	12	17	1	22	24	2				
CHITTAGONG	80.88	295.6	12	20	2							
SHILLONG	81.87	298.7	12	23K	0	22	49	13			15 46	PP
LHASA	83.90	302.3	12	35	2	22	58	1				

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IRKUTSK	84.22	327.1	12 34	-1	22 57	-3				
BERKELEY	84.37	49.1	12 36K	0	23 8	7			24 6	PS
LICK	84.63	49.7	12 38A	1						
SHASTA	85.33	46.4	12 40	0						
COLLEGE	85.59	18.0	12 40	-2	23 12	-1			16 7	PP
MINERAL	85.76	47.0	12 42A	-1						
FRESNO	85.81	50.8	12 44K	1						
PASADENA	86.18	53.7	12 41	-4	23 25	6			24 21	PS
RENO	86.76	48.2	12 47K	-1						
ALBERNI	87.13	37.8	12 50	1						
VICTORIA	87.68	38.9	12 53	1						
COLOMBO	87.79	277.6			23 20	-14				
HORSESHOE B.	88.10	38.1	12 55	1						
TIKSI	88.54	349.0	12 54	-2	23 44	3				
MADRAS	88.95	283.5	13 2	4	23 33	-12				
EUREKA	89.54	49.2	13 0	-1						
PENTICTON	90.30	39.1	13 4	0						
KODAIKANAL	90.88	280.2			23 52	-11				
TUCSON	91.52	57.3	13 11	1						
TUCSON TELE.	91.63	57.3	13 11	0						
SALT LAKE C.	92.94	48.9	13 15	-2						
BANFF	93.38	38.2	13 21	2						
HUNGRY HORSE	93.50	41.2	13 19	0						
BUTTE	93.82	43.7	13 19	-2						
AGRA	94.24	296.7	13 24A	2					17 11	
BOZEMAN	94.76	44.3	13 27	2						
BOMBAY	97.17	287.7	13 37	1	24 14	1				
RAPID CITY	99.90	47.0	13 48	0						
NAMANGAN	101.92	309.5			24 38	1			18 19	PP
STALINABAD	103.85	306.8							16 9	
QUETTA	104.35	298.0			24 49	1				
KHEYS	106.16	350.6	18 40	777						
SANTA LUCIA	108.69	132.5							28 23	PS
FLORISSANT	108.97	53.4							28 25	PS
ST. LOUIS I	109.07	53.6							28 27	PS
APATITY	117.84	341.3							17 12	
OTTAWA	119.37	45.4	18 51K	-1						
MAKHACH-KALA	119.85	311.9	18 47	-6						
SODANKYLA	119.98	343.1	18 52	-1						
BOGOTA	120.22	92.5			25 49	-2			30 10	PS
BREBEUF	120.79	44.9	18 53	-2						
SHAWINIGAN	121.13	43.5	18 54	-1						
KIRUNA	121.29	345.4	18 55	-1						
PALISADES	121.45	50.1	18 57	1					20 33	PP
TIFLIS	122.05	310.9	18 58	1						
MOSCOW	122.19	328.4	18 48	-9						
SEVEN FALLS	122.27	42.5	18 56	-1						
SCORESBY SD.	122.88	3.1							20 35	PP
PULKOVO	123.52	334.9	19 0	0						
KIMBERLEY	123.63	221.4	18 29	-31						
NURMI JARVI	125.27	337.7	19 1	-2						
HELSINKI	125.38	337.3	19 5	2						
BULAWAYO	126.31	232.2	19 6	1						
SKALSTUGAN	126.72	345.7	19 9	3						
HALIFAX	127.85	43.5	19 9	1						
UPPSALA	128.20	340.3	19 12	3						
SIMFEROPOL	128.62	317.4	19 12	2	25 58	-19				
SAN JUAN	129.86	77.3	19 13	1						
BERMUDA	130.25	59.0	19 12	-1					21 12	PP
KSARA	130.53	303.0	19 13	0					21 33	PP
KISHINEV	131.08	321.8	19 18	4					22 40	PKS
GOTEBORG	131.71	341.6	19 17	1						
LWOW	132.29	327.3	19 19	2					22 47	
COPENHAGEN	133.20	339.7	19 24	6					21 48	PP
BUCHAREST	134.01	320.0	19 21A	1					22 52	PKS
SKALNATE PL.	134.63	328.7	19 21	0						
LWIRO	134.68	253.0	19 23	2						
HELWAN	135.10	298.8	19 21	-1					22 4	PP
POTSDAM	135.58	336.4	19 25	2					23 0	
COLLMBERG	136.44	335.5	19 26	2					22 4	PP
HALLE	136.71	336.4	19 28	3	27 38	64			22 14	PP
PRUHONICE	136.78	333.2	19 28	3					22 7	PP
BRATISLAVA	136.87	329.5	19 27	2					22 12	PP
VIENNA-H.	137.17	330.1	19 27	1					22 12	PP
JENA	137.30	336.2	19 25	-1					22 9	PP
PLAUE	137.41	335.3	19 28	2					22 16	PP
SONNEBERG	137.88	336.0	19 30	3						
MUNSTER	137.88	340.1	19 29	2						
DE BILT	138.54	342.1	19 32	4					22 24	PP

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BENSBERG	138.89	339.6	19 30	1					22 24
ZAGREB	139.02	327.7							23 0 PP
LJUBLJANA	139.61	329.0	19 28	-2					22 8 PP
STUTT GART	139.92	336.0	19 27	-4					22 25 PP
UCCLE	139.93	341.8	19 30	-1	26 39	0			
TOLMEZZO	140.09	330.6	19 31	0					23 17
TRIESTE	140.27	329.2	19 33	2					22 31 PP
DOURBES	140.47	341.1	19 32	0					22 35 PP
STRASBOURG	140.66	337.1	19 32	0					22 32 PP
ROME	143.54	325.8	19 36	-1					
MESSINA	144.03	318.5	19 35	-3	26 35	-11			22 54 PP
MONACO	144.70	332.6	19 41	2					
CLERMONT-FD.	144.73	339.0	19 40	1					20 32
LUANDA	144.94	232.1	19 41	2					
SETIF	151.45	325.7	19 51	1					23 36 PP
SERRA PILAR	152.10	351.1	19 44K	-7					23 36 PP
ALGIERS UNI.	152.25	329.5	19 53	2					23 49 PP
TOLEDO	152.31	343.3	19 58	7					30 29 SKKS
ALICANTE	152.50	336.4	19 50	-1					30 31 SKKS
RELIZANE	154.26	331.8	19 58	4					24 17 PP
ALMERIA	154.57	337.9	19 56K	2					23 54 PP
GRANADA	154.66	340.2	19 57A	3					24 22 PP
TAMANRASSET	159.26	299.1	20 0	0					24 23 PP

MARCH 30 12.H 58.M 55.S EPICENTRE 69.10 -17.04 DEPTH= 0.KM

A= 0.34307 B=-0.10514 C= 0.93341 D=-0.2930 E=-0.9561  
G= 0.8924 H=-0.2735 K=-0.3588 HT=-1 .6

SE= 2.16

	DELTA DEG.	AZ. DEG.	P		O-C S	S		O-C S	*PP		SUPP.	
			M	S		M	S		M	S	M	S
SCORESBY SD.	2.20	311.4	0	37A	-2	1	3	-4				
AKUREYRI	3.47	187.3	0	41	-16	1	29	-10				
REYKJAVIK	5.35	203.5	1	21	-3	2	34	7				
SIDA	5.36	184.9	1	24	0							
VIK	5.76	188.9	1	38	9						2	24
ISFJORD	12.26	30.0	3	2	3							
NORD	12.57	0.2	3	1	-2	5	17	-8				
SKALSTUGAN	12.90	101.1	3	8	0							
KIRUNA	13.67	77.6	3	19	1							
ABERDEEN	13.68	143.6									4	3
DURHAM	16.03	146.0	3	51A	2	7	4	17				
SODANKYLA	16.03	75.4	3	45	-4							
THULE	16.25	318.8	3	50	-2	6	53	0				
GOTEBORG	17.07	117.5	4	2	0							
APATITY	18.28	70.8	4	16	-1							
COPENHAGEN	18.89	120.5	4	24	-1							
NURMI JARVI	19.32	95.7	4	30	0	7	58	-4			8	24
DE BILT	20.02	137.1				8	27	10				
KHEYS	20.62	26.7	4	46	2						5	12 PP
MUNSTER	20.76	133.3	4	44	-1							
UCCLE	21.03	139.8	4	48	0	8	45	7				
BENSBERG	21.56	135.1	5	52	58							
DOURBES	21.74	140.1	4	53	-2	8	51	-1				
PULKOVO	21.86	91.6	4	57	0	8	55	1				
POTSDAM	21.91	124.5	4	56	-1							
FOLINIERE	21.96	149.7	4	55	-3							
HALLE	22.37	127.2	5	2	0				5	7		
JENA	22.77	128.5	5	5	-1						5	59 PPP
COLLMBERG	22.85	126.0	5	6K	0						8	58 PCP
RESOLUTE	23.09	318.5	5	10	1							
SONNEBERG	23.16	129.6	5	9	0							
PLAUEN	23.33	128.1	5	9	-2							
HEIDELBERG	23.39	134.3	5	13	1							
STRASBOURG	23.91	136.6	5	17	0	9	43	12				
STUTT GART	24.12	134.1	5	19	0							
PRAGUE	24.36	125.4	5	22	1							
PRUHONICE	24.47	125.3	5	23	1	9	46	6				
BESANCON	24.73	140.5	5	25	0							
MOSCOW	27.49	91.2	5	50	0							
MONACO	28.39	140.8	5	53	-5							
BUCHAREST	33.00	115.9									8	54
SETIF	35.20	147.6	6	57	-1							
SIMFEROPOL	35.21	106.4									14	29 SS

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TIKSI	37.72	16.9	7 22	3	
COLLEGE	41.93	331.1	7 56	2	
HUNGRY HORSE	48.22	297.4	8 45	0	
TAMANRASSET	48.30	151.7	8 43	-2	
QUETTA	60.04	83.7	10 12	1	10 38 PP
TUCSON TELE.	61.48	286.0	10 22	1	

MARCH 30 15.H 19.M 31.S EPICENTRE -22.45 173.45 DEPTH= 0.KM  
 A=-0.91909 B= 0.10547 C=-0.37968 D= 0.1140 E= 0.9935  
 G= 0.3772 H=-0.0433 K=-0.9251 HT= 4.1  
 SE= 2.54

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
SUVA	6.33	48.4	1	39	2	3	4	13				
NOUMEA	6.48	270.0	1	43	4	2	57	2				
ONERAHI	13.30	176.8	3	13	0						3	42
KARAPIRO	15.53	173.8	3	41	-1						5	59
AFIAMALU	16.39	61.3	3	54	1	7	16	21				
TUAI	16.60	169.8	3	56	0							
CHATEAU	16.79	174.4	3	59K	1						5	30
COBB RIVER	18.59	181.7	4	23	3	7	49	3				
WELLINGTON	18.81	176.9	4	22K	-1	7	57	6			8	24 PCP
BRISBANE	19.38	251.1	4	30	0	8	6	3				
KAIMATA	20.09	184.4	4	38	0	8	26	7				
GEBBIES PASS	21.20	181.6	4	48	-2							
RIVERVIEW	22.65	235.1	5	5A	1	9	15	7				
ROXBURGH	23.22	187.4	5	11	1	9	21	3				
CANBERRA	24.88	233.6	5	27	1	9	47	0				
CHARTERS TS.	25.44	270.2	5	32	1	9	30	-26				
RABAUL	27.46	308.3	5	48	-2							
PORT MORESBY	28.36	293.0	5	57	-1						6	50
MELBOURNE	28.87	231.5	6	2A	0							
FORT NELSON	29.79	220.6				11	6	-1				
ADELAIDE	32.75	239.9	6	35	-2						11	5
GUAM	45.45	319.0	8	23	1							
MUNDARING	51.28	246.4	8	57	-11							
HAWAII V.OB.	51.64	38.7	9	11	1							
WILKES	58.85	204.8				18	13	5			24	55
BYRD STATION	64.10	169.7	10	36	-2							
MATUSIRO	67.45	329.8	10	59A	-1	20	0	5				
ZO-SE	73.12	314.8	11	32	-2	21	4	2			11	51
CANTON	73.95	303.8	11	38	-1	20	46	-25			11	57
Y.-SAKHLINSK	74.50	338.7	11	42	0	21	23	6				
NANKING	75.31	314.3	11	46A	-1	21	29	3			12	5
UGLEGORSK	76.51	339.4	11	54	0	21	23	-16				
WUHAN	77.26	310.8	11	58	0						12	17
CHANGCHUN	79.35	326.7	12	9A	0	22	9	-1			12	27
PEKING	81.91	319.3	12	23A	0	22	38	2			12	38
ARGENTINE I.	82.16	158.9	12	22	-2							
SIAN	83.29	311.1	12	41	11							
KUNMING	83.30	300.5	12	32	2	22	56	6			12	51
MAGADAN	83.79	348.6									22	51
BERKELEY	85.09	45.7	12	39A	0	23	18	10				
LICK	85.22	46.4	12	40A	0							
PASADENA	85.95	50.6	12	43	0						16	5
PAOTOW	86.03	316.9	12	45	1							
FRESNO	86.16	47.7	12	44	0							
SHASTA	86.56	43.3	12	46	0							
MINERAL	86.87	43.9	12	47K	-1							
RENO	87.60	45.3	12	51A	0							
LANCHOW	87.79	310.5	12	52	0							
CORVALLIS	88.16	39.7	12	59	5							
EUREKA	90.13	46.9	13	3	0							
VICTORIA	90.32	36.4	14	5	61							
TUCSON	90.47	55.2	13	6	1							
TUCSON TELE.	90.59	55.2	13	6	1							
HORSESHOE B.	90.88	35.7	14	6	59							
YAKUTSK	91.12	341.0	13	6	-2						23	32
ULAN-BATOR	91.91	321.9	13	11	-1							
COLLEGE	92.01	15.5	13	10	-2						16	45 PP
SHILLONG	92.33	296.6	13	11	-2							
PENTICTON	92.86	37.1	13	15	-1							
HUNGRY HORSE	95.59	39.7	13	27	-1						17	17 PP



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BOZEMAN	96.21	43.1						16 56	
SANTA LUCIA	97.45	130.7			24 40	26		26 26	PS
LARAMIE	98.06	48.7	17 38	777					
RAPID CITY	100.72	46.8	17 56	777					
LA PAZ	108.37	117.2	14 43	777					
RESOLUTE	111.91	16.6	18 34	-3					
QUETTA	114.68	294.0	18 55	13					
KHEYS	116.08	350.5	18 43	-2					
THULE	118.19	13.7	18 47	-2				20 2	PP
PALISADES	121.17	54.7	20 25	90				28 47	SKKS
SHAWINIGAN	122.15	48.2	18 56K	-1					
SHIRAZ	126.93	290.9	19 5	-1					
BERMUDA	128.00	65.8	18 45	-23				21 9	PP
HALIFAX	128.69	50.2	19 8	-2					
SODANKYLA	130.52	343.8	19 10	-3				22 34	SKP
MAKHACH-KALA	131.04	308.0	19 6	-8				24 41	
SCORESBY SD.	131.10	6.8	19 9	-5					
KIRUNA	131.62	346.7	19 14	-1					
TIFLIS	133.18	306.7	19 17	-1				21 55	PP
MOSCOW	133.51	327.1							
PULKOVO	134.59	334.8	19 23	2					
NURMI JARVI	136.17	338.3	19 23	-1				22 55	PKS
SKALSTUGAN	136.99	347.8	19 21	-4					
SIMFEROPOL	139.96	314.0	19 31	1					
KSARA	141.15	296.4	19 26	-7				22 56	
GOTEBORG	142.31	343.8	19 30	-5					
LWOW	143.63	326.2	19 34	-3					
COPENHAGEN	143.94	341.7	19 35	-2				22 53	PP
HELWAN	145.33	290.4	19 38	-2					
SKALNATE PL.	145.93	328.1	19 44	3					
RACIBORZ	146.27	330.9	19 41	0					
POTSDAM	146.53	338.1	19 41	-1					
COLLMBERG	147.44	337.0	19 45A	2				23 52	
HALLE	147.65	338.2	19 45	1				20 15	
PRAGUE	147.88	334.3	19 47	3					
PRUHONICE	147.91	334.1	19 47A	3				22 59	PKS
SOFIA	147.98	316.2	19 47	3					
BRATISLAVA	148.14	329.4	19 47	3					
JENA	148.25	338.0	19 46	1				23 14	PP
PLAUEN	148.41	337.0	19 46	1					
VIENNA-H.	148.42	330.2	19 44	-1				20 8	
MUNSTER	148.56	343.1	19 48	3					
SONNEBERG	148.85	337.8	19 49	3					
DE BILT	149.05	345.9	19 54	8				23 19	PP
BENSBERG	149.60	342.8	19 50	3					
UCCLE	150.45	345.9	19 45	-3				23 34	PP
HEIDELBERG	150.52	339.5	19 53	5					
KEW	150.63	352.0	19 49	1					
STUTTGART	150.87	338.2	19 48	-1				23 34	PP
LJUBLJANA	150.89	329.0	19 53A	4					
DOUBES	151.04	345.1	19 51	2				23 35	PP
TOLMEZZO	151.32	331.1	19 41	-8					
STRASBOURG	151.54	339.8	20 51	61				23 37	PP
TRIESTE	151.55	329.3	19 56	6				23 45	SKP
MESSINA	155.39	314.6						21 52	
SETIF	162.81	325.5	19 59	-5				24 31	PP
ALGIERS UNI.	163.48	331.9	20 5	1				24 41	PP
TAMANRASSET	168.85	274.0	20 8A	-1				25 12	PP

MARCH 31 O.H 39.M 59.S EPICENTRE 18.53 145.57 DEPTH= 218.KM

A=-0.78259 B= 0.53645 C= 0.31588 D= 0.5654 E= 0.8248  
G=-0.2605 H= 0.1786 K=-0.9488 HT= 5.0

DEPTH OF FOCUS= 0.029R

SE= 1.35

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
GUAM	5.10	189.1	1	16	0	2	13	-3				
MATUSIRO	19.08	341.6	4	7	-1	7	25	-3			5	29 *SP
MANILA	23.77	264.4	4	56	2						5	44
CHARTERS TS.	38.39	179.0	7	0	-1						9	10
YAKUTSK	44.85	349.5	7	53	-1							
BRISBANE	46.18	171.1	8	5	1						8	22
SHILLONG	49.99	288.1	8	34	1							

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RIVERVIEW	52.34	174.1	9	4A	13		
ADELAIDE	53.60	187.0	9	1	1	10	4 PCP
CANBERRA	53.65	176.5	9	1	0		
TIKSI	54.00	353.5	9	2	-1		
CHATRA	54.12	290.1	9	7	3		
KARAPIRO	62.83	153.6	10	4A	0	10	41
COLLEGE	63.48	26.0	10	7	-1		
CHATEAU	63.91	154.4	10	10	-1		
WELLINGTON	65.38	156.1	10	19	-2		
GEBBIES PASS	66.72	158.9	10	27	-2		
WARSAK DAM	66.87	299.7	10	30	0		
STALINABAD	68.53	304.9	10	42	2		
QUETTA	71.33	296.4	10	58	1		
KHEYS	71.44	350.0	10	57	-1		
SVERDLOVSK	71.95	324.8	11	2	1		
CORVALLIS	78.02	46.9	11	38	3		
PENTICTON	79.23	41.6	11	42	0		
RESOLUTE	79.62	13.6	11	43	-1		
NORD	79.66	357.4	11	43	-1		
MINERAL	80.33	50.7	11	48A	0		
BERKELEY	80.52	53.3	11	49A	0		
LICK	81.14	53.7	11	53A	1		
RENO	81.88	51.1	11	58K	2		
HUNGRY HORSE	83.05	41.4	12	3	1	12	57
THULE	83.06	7.6	12	1	-1		12 33
SODANKYLA	83.48	340.1	12	2	-2	12	59
SHIRAZ	83.60	299.0	12	4	-1		
MOSCOW	84.54	327.3				13	01
EUREKA	84.72	50.2	12	11	1	13	5
PASADENA	84.80	55.9	12	11	0		
BUTTE	84.80	43.2	12	12	1		
KIRUNA	85.13	341.9	12	10	-2		
BOZEMAN	85.91	43.1	12	16	0		
NURMI JARVI	88.09	334.9	12	26	0		
HELSINKI	88.16	334.5	12	25	-2		
SKALSTUGAN	90.49	341.0	12	36	-2		
TUCSON	91.22	55.5	12	43	2	13	38
UPPSALA	91.25	336.5	12	39	-2		
TUCSON TELE.	91.27	55.3	12	43	2	13	37
RAPID CITY	91.64	42.2	12	44	1		
BREBEUF	107.02	27.7	15	33	777		
BYRD STATION	108.98	169.4	18	4	777		
TAMARASSET	123.35	314.8	18	31K	0		
HUANCAYO	140.09	86.7	18	59	-3		
LA PAZ	147.82	91.7	19	20K	4		

MARCH 31 3.H 2.M 4.S EPICENTRE 39.67 143.36 DEPTH= 0.KM

A=-0.61932 B= 0.46065 C= 0.63580 D= 0.5968 E= 0.8024  
G=-0.5102 H= 0.3795 K=-0.7719 HT= -1.6

SE= 2.83

	DELTA DEG.	AZ. DEG.	P			O-C			*PP		SUPP.	
			M	S	S	M	S	S	M	S		
MIYAKO	1.07	269.4	0	24A	2	0	38	0				
HATINOHE	1.64	302.1	0	32A	2	0	58	5				
MORIOKA	1.69	271.7	0	31A	0	0	56	2				
MIZUSAWA	1.81	253.4	0	33	0	0	53	-4				
ISINOMAKI	2.01	232.7	0	36A	0	0	59	-3				
AOHORI	2.28	301.0	0	41	1	1	16	7				
SENDAI	2.37	234.7	0	41A	0	1	15	4		1	8	
AKITA	2.51	272.2	0	45	2	1	22	7				
URAKAWA	2.52	350.2	0	45	2	1	17	2				
HIROO	2.61	359.4	0	50	6	1	17	0				
YAMAGATA	2.74	239.8	0	46	0	1	26	6				
SAKATA	2.84	255.5	0	53	5	1	38	15				
HAKODATE	2.91	318.1	0	50	1	1	31	6				
HUKUSIMA	2.96	230.6	0	49A	0	1	30	4				
MURORAN	3.20	326.6	0	53	0	1	53	21				
MORI	3.22	319.9	0	59	6	1	45	12				
TOMAKOMAI	3.25	336.2	1	2	9	1	46	13				
OBHIRO	3.25	357.9	0	55	2	1	30	-3				
ONAHAMA	3.33	216.2	0	47	-8	1	24	-11				
KUSIRO	3.40	13.0	0	55	-1	1	34	-3				
SHIRAKAWA	3.54	225.1	0	58	0	1	47	6				

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SAPPORO	3.72	336.7	1	1	1	1	51	6		
NIIGATA	3.79	243.9	1	17	16	2	5	18		
SUTTSU	3.92	324.0	1	23	20				2	17
MITO	4.00	215.7	1	5	1					
NEMURO	4.02	23.8	1	3	-1	1	46	-7		
UTUNOMIYA	4.15	222.6	1	6	0	2	1	5	1	43
ASAHIGAWA	4.17	350.1	1	8	1					
KAKI OKA	4.25	217.2	1	6	-2	2	0	1		
AIKAWA	4.31	249.2	1	10	1	2	19	19		
ABASHIRI	4.40	8.7	1	9	-1	2	2	-1		
TYOSI	4.42	207.6	1	8	-2	2	18	15		
MAEBASI	4.70	227.4	1	14A	0	2	8	-2		
KUMAGAYA	4.72	223.1	1	15	1	2	13	3		
TAKADA	4.76	239.0	1	16	1	2	14	2		
TOKYO C.M.O.	4.90	216.8	1	16	-1	2	20	5	2	10
TITIBU	5.00	223.9	1	17	-1	2	12	-6		
NAGANO	5.05	235.2	1	21	2				2	56
OI WAKE	5.05	230.2	1	20	1	2	30	11		
MATUSIRO	5.12	234.0	1	20A	0	2	18	-3		
YOKOHAMA	5.16	216.0	1	40	20				2	14
MATUMOTO	5.46	233.0	1	25	0	2	37	8		
YOKOHAMA	5.16	216.0	1	40	20				2	14
MATUMOTO	5.46	233.0	1	25	0	2	37	8		
MERA	5.51	211.8	1	42	17				2	44
KOHU	5.51	225.1	1	26	0	2	48	17		
HUNATU	5.53	222.6	1	27	1	2	31	0		
WAZI MA	5.56	247.7	1	32	6					
TOYAMA	5.68	240.5	1	22	-6	3	6	31		
MISIMA	5.74	219.1	1	39	10	2	53	17		
WAKKANAI	5.88	348.4				2	40	0		
TAKAYAMA	5.97	235.9	1	31	-1					
SHIZUOKA	6.13	221.6				2	47	1		
OMAESAKI	6.51	220.6	1	54	14	3	19	23		
GIHU	6.75	232.9	1	42	-1				3	12
NAGOYA	6.78	230.5	1	52	9	3	23	21		
HIKONE	7.16	234.4	1	50	1					
KAMEYAMA	7.30	230.9	2	19	28	3	36	21		
KYOTO	7.64	235.0	1	56	1	3	42	18		
NARA	7.80	232.7	1	59	1					
OWASE	8.01	228.0	2	6	5					
VLADIVOSTOK	9.28	295.5	2	19	1					
UGLEGORSK	9.45	354.8	2	19	-2					
CHANGCHUN	14.10	293.0	3	22	-1	6	15	13		
ZO-SE	19.97	251.5	4	35	-2					
MAGADAN	20.45	10.9	4	41	-1					
PEKING	20.85	279.7	4	43	-3	8	44	9		
NANKING	21.27	256.7	4	46	-4					
YAKUTSK	23.88	344.1	5	14	-2	9	18	-12		
WUHAN	25.18	257.7	5	28A	-1					
ULAN-BATOR	27.37	299.6	5	49	0					
IRKUTSK	29.54	308.3	6	2	-7					
LANCHOW	31.24	276.1	6	22	-2					
MANILA	31.65	224.4	6	28	1					
TIKSI	32.87	351.6	6	36	-2					
KUNMING	36.91	259.3	7	12	0	12	55	-3		
SHILLONG	45.01	267.9	8	18	-1					
COLLEGE	46.05	33.6	8	27	0					
CHATRA	47.99	272.3	8	43A	0					
KHEYS	50.39	347.7	9	0	-1	16	11	-3		
ANDIJAN	52.81	295.6	9	19	0					
SVERDLOVSK	54.21	317.8	9	30	0					
STALINABAD	56.25	294.7	9	44	-1					
ISFJORD	58.72	349.2	10	1	-1					
RESOLUTE	59.67	15.2	10	6A	-3					
APATITY	60.92	335.6	10	16	-1					
QUETTA	61.64	287.0	10	21A	-1					
SODANKYLA	63.13	337.2	10	30	-2					
KIRUNA	64.60	339.3	10	40	-2				10	53
PULKOVO	66.70	329.5	10	53	-2					
SHASTA	68.32	54.7	11	5	0					
NURMI JARVI	68.34	332.2	11	5	0					
HELSINKI	68.46	331.8	11	5	-1					
HUNGRY HORSE	68.82	44.3	11	9	1					
SKALSTUGAN	70.02	339.0	11	14	-2					
TIFLIS	70.39	308.2	11	18	0					
UPPSALA	71.26	334.4	11	22	-1					
BOZEMAN	72.07	45.2	11	30	2					
SHIRAZ	72.36	294.0	11	28K	-2					
EUREKA	73.02	52.7	11	33	-1					

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GOTEBORG	74.79	335.3	11 43	-1	
LWOW	76.14	324.4	11 52	0	
COPENHAGEN	76.25	333.9	11 52K	0	
RAPID CITY	77.32	42.7	12 2	4	
RACIBORZ	78.47	327.5	12 5	0	
COLLMBERG	79.57	330.9	12 10A	-1	12 23
PRUHONICE	80.02	329.3	12 13	0	12 23 PCP
JENA	80.39	331.4	12 14	-1	12 29
PLAUEN	80.54	330.8	12 13	-3	
TUCSON	80.83	55.7	12 27	10	
TUCSON TELE.	80.84	55.5	12 22	5	
STUTTGART	83.02	331.4	12 28	-1	
LJUBLJANA	83.16	326.9	12 28A	-1	
LAWRENCE	85.13	41.9	12 40	1	
TAMARASSET	106.46	319.8			18 35 PP
BYRD STATION	130.00	166.9	19 17	5	

MARCH 31 15.H 48.M 15.S EPICENTRE 39.87 143.58 DEPTH= 0.KM

A=-0.61930 B= 0.45699 C= 0.63846 D= 0.5938 E= 0.8046  
G=-0.5137 H= 0.3791 K=-0.7697 HT= -1.6

SE= 2.74

	DELTA DEG.	AZ. DEG.	P		O-C S	S O-C			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
MIYAKO	1.26	260.6	0	25K	0	0	41	-1				
HATINOHE	1.70	293.6	0	29	-2	0	57	3				
MORIOKA	1.86	265.6	0	35	2	1	0	2				
MIZUSAWA	2.03	249.5	0	37	1	1	5	3				
ISINOMAKI	2.27	231.4	0	39A	0	1	11	3				
AOMORI	2.34	294.9	0	42	2	1	15	5				
URAKAWA	2.36	345.5	0	44	4	1	13	3				
HIROO	2.42	355.5	0	57	16							
SENDAI	2.62	233.4	0	43A	-1	1	19	2				
AKITA	2.68	268.0	0	46	1						1	36
HAKODATE	2.89	313.2	0	49	1	1	26	2				
YAMAGATA	2.99	238.3	0	50	1							
SAKATA	3.06	252.8	1	5	15						1	42
OBHIRO	3.06	354.8	1	5	15							
MURORAN	3.14	322.2	1	11	19							
TOMAKOMAI	3.14	332.1	1	5	13	1	32	2				
KUSIRO	3.17	11.0	0	51	-1	1	30	-1				
MORI	3.19	315.4	1	9	17	1	39	8				
HUKUSIMA	3.22	229.9	0	51	-2							
ONAHAMA	3.59	216.7	1	25	27						1	43
SAPPORO	3.61	333.1	1	3	5							
NEMURO	3.77	22.8	1	0	-1							
SHIRAKAWA	3.80	224.9	1	3	2	1	54	7				
SUTTSU	3.86	320.4	1	9	7							
ASAHIGAWA	4.01	347.4	1	8	4							
NIIGATA	4.03	242.6				1	55	2			2	22
UTUNOMIYA	4.41	222.6	1	10	0						2	10
KAKIOKA	4.51	217.5	1	7	-4	1	36	-29				
AIKAWA	4.54	247.7	1	15	4	2	24	18				
MAEBASI	4.96	227.2	1	19	2	2	27	11				
KUMAGAYA	4.97	223.1	1	18	0	2	25	8				
TAKADA	5.01	238.2	1	18	0							
TOKYO C.M.O.	5.16	217.1	1	23	3	2	14	-7				
TITIBU	5.26	223.9	1	17	-5							
NAGANO	5.30	234.7	1	26	4	2	47	22				
OIWAKE	5.31	229.9	1	27	5						2	23
MATUSIRO	5.37	233.5	1	23A	0	2	25	-2				
MATUMOTO	5.71	232.5	1	40	12	2	43	8				
KOHU	5.77	225.0	1	30	1	2	45	8				
HUNATU	5.79	222.7	1	36	7	2	46	9				
GIHU	7.00	232.6	1	46	0						4	1
NAGOYA	7.04	230.3	2	10	23						3	31
HIKONE	7.41	234.0	2	7	15							
KYOTO	7.89	234.7	1	57	-2	3	33	3				
ABUYAMA	8.09	234.5	2	0A	-1							
VLADIVOSTOK	9.34	294.1	2	15	-4							
MAGADAN	20.23	10.7									8	47
YAKUTSK	23.73	343.7	5	11	-3	9	25	-2				
ULAN-BATOR	27.42	299.3	5	45	-4							
IRKUTSK	29.55	308.0	6	2	-6							

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TIKSI	32.70	351.4	6 34	-2		
SHILLONG	45.18	267.8	8 18A	-2		
COLLEGE	45.80	33.7	8 28	3		
KHEYS	50.23	347.7	8 59	-1		
STALINABAD	56.32	294.6	9 43	-2		
WARSAK DAM	56.45	288.5	9 44	-2		
RESOLUTE	59.44	15.3	10 4	-3		
QUETTA	61.74	287.0	10 21	-1	18 42	-3
SODANKYLA	63.02	337.2	10 29	-2		
MOSCOW	65.99	323.5	10 50	0		
NURMI JARVI	68.24	332.2	11 4	0		11 32 PCP
HUNGRY HORSE	68.57	44.4	11 6	0		
TIFLIS	70.40	308.2	11 18	0		
SHIRAZ	72.43	294.1	12 28K	58		
EUREKA	72.77	52.8	11 32	0		
PASADENA	74.63	58.3	11 45	2		
LWOW	76.08	324.5	11 55	4		
COLLMBERG	79.48	331.0	12 9	-1		
PRUHONICE	79.94	329.4	12 12A	0		12 21 PCP

MARCH 31 19.H 56.M 16.S EPICENTRE 26.14-110.03 DEPTH= 0.KM

A=-0.30784 B=-0.84455 C= 0.43814 D=-0.9395 E= 0.3425  
G=-0.1500 H=-0.4116 K=-0.8989 HT= 3.0

SE= 2.83

	DELTA DEG.	AZ. DEG.	P		O-C S	S			*PP		SUPP.	
			M	S		M	S	S	M	S	M	S
CHIHUAHUA	4.30	53.8	1	6	-2	1	59	-1				
MAZATLAN	4.42	131.0	1	8	-2	1	58	-5				
TUCSON	6.13	353.6	1	32	-2	3	8	22				
TUCSON TELE.	6.21	354.6	1	32	-3							
GUADALAJARA	8.21	130.0									3	4
MANZANILLO	8.80	142.1				3	57	4				
PASADENA	10.65	320.5	2	37K	0						4	44
TACUBAYA	12.03	121.7	2	56	0						2	59 PP
FRESNO	13.48	324.2	3	12	-3							
EUREKA	14.21	340.9	3	27	2							
VERA CRUZ	14.56	115.5	3	24	-5	6	11	-2			4	29
SALT LAKE C.	14.67	354.5	3	34	3						7	47
LICK	14.90	321.4	3	34K	0							
BERKELEY	15.62	321.5	3	43K	0	6	46	8			4	32
RENO	15.68	330.9	3	46K	2							
FAYETTEVILLE	16.78	50.0	2	57A	-61	7	51	46				
UKIAH	17.04	322.7	5	2	61							
MINERAL	17.14	328.6	4	3K	0						4	53
LITTLE ROCK	17.49	56.3	4	7	0							
SHASTA	17.79	327.8	4	11	0							
LAWRENCE	17.83	40.5	4	7	-4							
RAPID CITY	18.74	15.5	3	23	-59							
ARCATA	18.76	325.1	4	21	-2							
COMITAN	19.35	117.0									6	4
MERIDA	19.40	101.2	4	29	-1	8	12	8			8	36 SS
BOZEMAN	19.51	357.9	4	32	1						4	57
BUTTE	19.95	354.8	4	35	-2	8	30	14				
FLORISSANT	20.79	47.8	4	46	1	8	40	7				
ST. LOUIS 1	20.80	48.3	4	45K	0	8	40	7				
CORVALLIS	21.30	333.1	4	52A	1						5	4
HUNGRY HORSE	22.39	353.0	5	1	-1							
PENTICTON	24.31	344.6	5	19	-1							
VICTORIA	24.68	338.4	6	24	60							
BANFF	25.35	351.9	5	17	-13							
HORSESHOE B.	25.38	339.5	5	5	-26							
ALBERNI	25.80	337.4	4	58	-36							
COLUMBIA	26.23	65.7	5	41	3						9	24 PCP
CHAPEL HILL	28.18	62.2	5	50	-6							
PENNSYLVANIA	30.35	53.1				11	16	0				
PALISADES	33.29	54.4	6	40	-1	12	6	4			7	52 PP
OTTAWA	33.48	46.0	6	46A	3						12	20
WESTON	35.51	52.9	7	6K	5							
SHAWINIGAN	35.82	45.6	7	7	4							
SEVEN FALLS	37.27	45.5	7	17	2							
CHINCHINA	39.05	116.7	7	33	3	13	35	5				
BERMUDA	39.82	70.0	7	28	-9	13	44	2			9	4 PP
BOGOTA	40.50	115.7	7	44	2	13	58	6				

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1960										PAGE 307
SAN JUAN	41.21	91.6	7	47	-1	13	25	-38		13 18
CARACAS	43.54	102.7	8	9	2	14	20	-17		
KIPAPA	43.98	274.4	8	8	-3					
HONOLULU	44.08	274.3	8	13	1					
COLLEGE	45.61	338.5	8	21	-3	14	52	-15		
RESOLUTE	49.23	5.3	8	48	-4					15 53
HUANCAYO	50.79	134.1	9	3	-1					10 57 PP
THULE	54.25	11.2	9	29	-1					11 48 PP
LA PAZ	58.79	131.5	10	1	-1					
NORD	64.81	9.3	10	39	-4					
SCORESBY SD.	64.99	21.8	10	45	1	19	25	0		
ISFJORD	71.05	10.6	11	21	-1					11 41 PCP
MAGADAN	72.30	328.1	11	42	13					
KHEYS	73.27	2.0	11	36	1	21	6	3		
TIKSI	74.44	343.6	11	38	-4	21	2	-14		
DURHAM	78.91	34.1	12	9	2	22	14	9		
KIRUNA	79.40	17.1	12	13	3					
SKALSTUGAN	79.81	22.6	12	12	0					
YAKUTSK	80.05	335.6	12	13	0	22	17	0		
KEW	81.24	36.6	12	23	4	22	31	1		
SODANKYLA	81.31	15.6	12	19	-1					
APATITY	82.69	13.3	12	29	2	22	45	1		
DE BILT	83.76	34.2				23	4	9		
UCCLE	84.08	35.5	12	37	3	23	1	3		
WITTEVEEN	84.08	33.0	12	27	-7					
PARIS	84.19	37.9	12	38	3					
UPPSALA	84.20	23.7	12	37	2					
DOURBES	84.61	36.0	12	42	5	23	8	4		
TOLEDO	84.87	48.0	12	43	5	23	13	7		28 45 SS
COPENHAGEN	84.97	28.7				23	8	1		
NURMIJARVI	86.10	20.6	12	43	-1					15 52 PP
MBOUR	86.46	75.8				23	33	11		
GRANADA	86.52	50.1	12	44K	-2	23	30	8		
STRASBOURG	87.18	36.0				23	32	4		
JENA	87.64	32.6	12	50	-2	23	26	-7		28 44 SS
STUTTGART	87.85	35.3	12	53	0	23	33	-2		29 9 SS
ALICANTE	88.04	47.8	12	52	-2	23	19	-17		
COLLMBERG	88.08	31.8	12	55	1					18 30 PPP
PULKOVO	88.41	18.8	12	57	2	23	27	-13		
PRUHONICE	89.70	32.1	13	4	3	24	0	8		18 38 PPP
MATUSIRO	90.50	311.6	13	4	-1					18 38 PPP
SETIF	93.13	47.0	13	22	5					13 36
ROME	93.96	39.1								16 35
TAMANRASSET	100.90	58.0								18 9 PP
SHIRAZ	122.06	17.9	19	55	58					
QUETTA	123.93	3.2	19	0	0					
SHILLONG	124.42	335.9	19	OK	-1					20 53 PP
BROKEN HILL	139.54	81.6	19	27	-3					
BULAWAYO	141.62	89.9	19	35	2					



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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.