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The Director of the I.S.S. wishes to express his thanks to H.M. Treasury, to UNESCO, and to the National Science Foundation of the United States, for financial support, which has covered the cost of the preparation and printing of this volume. Also to the United Kingdom Atomic Energy Commission for the services of their electronic computer which has performed the necessary calculations.

He also thanks the Director of the Meteorological Office and the Superintendent of Kew Observatory for the hospitality extended to the staff, and assistance with administration.

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JANUARY 2 2.H 8.M 14.S EPICENTRE 36.16 22.31 DEPTH= 0.KM

A= 0.74866 B= 0.30720 C= 0.58748 D= 0.3796 E=-0.9251
G= 0.5435 H= 0.2230 K=-0.8092 HT= -0.3

SE= 2.49

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
ATHENS	2.13	31.6	0	40A	3						1	15	SG
REGGIO CALA.	5.66	292.0	1	27	-1	2	28	-6					
MESSINA	5.77	292.7	1	28	-1	2	28	-9			1	40	P*
SKOPJE	5.85	353.3	1	30A	0						1	54	PG
TARANTO	5.86	318.8	1	13	-17	2	0	-39			2	5	SS
SOFIA	6.58	6.6	1	49	8						3	58	
ISTANBUL KA.	7.21	45.2	1	51	2	3	10	-3					
BUCHAREST	8.74	18.2	2	11	0	4	19	28					
BELGRADE	8.76	351.3	2	7A	-4	4	1	9			2	55	
CAMPULUNG	9.33	11.9	2	21	2								
ROME	9.55	309.8	2	21	-1	4	2	-9			2	55	P*
TIMISOARA	9.61	355.4	2	25	2	4	4	-9			4	38	S*
HELWAN	9.83	127.1	2	21	-5	4	9	-9					
SZEGED	10.21	351.4	2	38	7	5	24	56					
FOCSANI	10.22	19.7	3	20	49						3	53	
ZAGREB	10.76	335.6	2	35	-4						5	24	PS
KSARA	11.37	97.9	2	47	0	4	50	-6					
FLORENCE X.	11.39	315.3	2	48	1	4	59	3					
TRIESTE	11.47	328.3	2	46	-2	5	6	8			3	46	PSPG
PRATO	11.54	315.3	3	2	13	5	12	12					
BUDAPEST	11.56	349.0	2	55	5	5	33	32					
JERUSALEM	11.57	108.5	2	48	-2	4	46	-15					
IASI	11.70	17.9	2	52	1	5	9	5					
BOLOGNA	11.80	318.2	3	0	7	4	57	-10			6	14	
KISHINEV	11.89	22.2	2	55	1						5	27	
SIMFEROPOL	12.55	42.0	3	3	0								
PAVIA	13.42	316.2	5	23	128						8	9	
LWOW	13.72	4.7	3	20	2	5	54	1					
KRAKOW	13.99	353.6	3	20	-2	5	57	-2			3	33	PP
RACIBORZ	14.23	349.2	3	16	-9						3	35	PP -
CHUR	14.32	322.1	3	27K	1	5	51	-16					
PRUHONICE	14.92	340.2	3	31	-3	6	16	-5					
RAVENSBURG	14.94	324.9	3	36	2	6	4	-18					
PRAGUE	15.03	340.1	3	34	-2	6	21	-3			4	28	
ZURICH	15.15	321.9	3	41	4	6	13	-14					
SOTCHI	15.27	55.7	3	38	-1						6	54	
ALGIERS UNI.	15.51	277.9	3	42	0	6	35	0			3	57	PP
EBINGEN	15.53	324.8	3	40	-2	6	19	-17					
CHEB	15.66	335.7	3	42	-2								
TUBINGEN	15.74	325.8	3	45	0	6	25	-15					
NEUCHATEL	15.76	318.1	3	45	0	6	28	-13					
STUTTGART	15.85	326.7	3	45K	-1	6	26	-17					
WARSAW	16.09	357.1	3	50	1	6	58	9			4	0	
PLAUEN	16.10	336.0	3	49	0	7	24	35			4	9	PP
KARLSRUHE	16.38	325.9	3	55K	2	6	54	-1			4	54	
STRASBOURG	16.38	323.8	3	54	1	6	59	4			5	0	
COLLMBERG	16.54	339.1	3	51	-4						7	26	
JENA	16.66	335.7	3	58	1	7	2	0			4	2	PP
HALLE	17.03	337.4	4	2	1	7	23	13			4	21	PP
CLERMONT-FD.	17.35	309.5	4	37	32	6	26	-52					
POTSDAM	17.49	340.9	4	9	2	7	33	12			4	17	PP
RELIZANE	17.62	275.1	4	13	4	7	26	2			4	28	PP
ALICANTE	18.27	283.7	4	14	-3	7	33	-6			4	29	PP
TIFLIS	18.33	65.6	4	19	1	7	46	6					
BENSBERG	18.36	328.4	4	20	2	7	25	-16					
GORIS	19.25	72.8	4	28	-1	8	1	0					
TAMANRASSET	19.75	232.1	4	34	0	8	30	18			4	51	PP
WITTEVEEN	19.97	331.4	4	37	0								
DE BILT	20.04	328.0	4	37	-1	8	18	0					
MAKHACH-KALA	20.53	63.0	4	42	-1	8	54	26					
COPENHAGEN	20.65	344.0	4	41	-3	8	25	-6			5	0	PP
GRANADA	20.79	280.5	5	13K	28	9	0	27					
TOLEDO	21.07	288.1	4	48A	0	8	38	-1			5	5	PP
MALAGA	21.48	279.4	4	52A	0						5	10	PP
MOSCOW	22.19	23.3	4	58	-2	8	54	-6					
KEW	22.25	320.5	5	3	3	9	0	-1			5	40	PP
UPPSALA	23.90	354.2	5	14	-2	9	27	-3					
PULKOVO	24.19	9.9	5	18	-1	9	32	-3					
SERRA PILAR	24.57	291.1	5	20K	-3								
DURHAM	24.83	326.0	5	25K	0	9	50	4			12	5	

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LISBON	25.05	285.4	5	29K	2					
RATHFARNHAM	26.31	319.6	5	38	-1	10	16	5	6	14 PP
SKALSTUGAN	28.13	350.5	5	53	-3					
KIRUNA	31.73	358.6	6	25	-3	11	32	-6		
SVERDLOVSK	32.88	38.9	6	35	-3					
QUETTA	37.59	86.0	7	18	0	13	8	0	8	48 PP
LWIRO	38.69	169.6	7	30	3				9	5 PP
UVIRA	39.95	169.4	7	39K	1					
WARSAK DAM	40.01	78.2	7	36	-2					
SCORESBY SD.	41.57	339.3	7	50	-1					
LAHORE	43.03	80.5	8	1	-2					
DEHRA DUN	46.45	80.4	8	36	5	15	12	-7		
AGRA	47.72	84 4				15	31	-6		
POONA	48.46	97 0	8	50	4					
SHILLONG	59.51	79.2	9	46	-22					
ULAN-BATOR	60.92	50.0	10	17	0					
TIKSI	61.05	20.3	10	16	-2	18	30	-6		
RESOLUTE	62.10	344.5	10	23A	-2	18	52	2		
HALIFAX	63.10	307.0	10	42K	10					
KIMBERLEY	64.61	177.6	10	43	1					
SEVEN FALLS	66.49	312.0	10	52	-2					
SHAWINIGAN	67.93	312.1	10	45	-18					
BREBEUF	68.97	311.5	11	12K	3					
OTTAWA	70.29	312.2	11	0A	-17					
COLLEGE	79.00	355.7	12	6	-2					
COLUMBIA	80.10	304.9	12	16	3				12	26
RAPID CITY	86.07	324.0	12	46	2					
MATUSIRO	86.35	46.5	12	45	0	23	6	-15		
FAYETTEVILLE	87.02	313.5	12	49	0					
HUNGRY HORSE	87.30	332.5	12	50	0				16	42 PP
BOZEMAN	88.32	329.3	12	56	1					
BUTTE	88.66	330.4	12	57	0					
SALT LAKE C	92.64	326 9	12	59	-16				13	26
EUREKA	95 48	328 8	13	28	0					
HUANCAYO	103 13	264 6				24	40	-67	27	35
BYRD STATION	133 59	188 6	19	22	3				21	56 PP

JANUARY 2 21 H 12 M 6 S EPICENTRE 44.77 150.67 DEPTH= 39.KM

DEPTH OF FOCUS= 0.001R

A=-0.62098 B= 0.34896 C= 0.70186 D= 0.4899 E= 0.8718
G=-0.6119 H= 0.3438 K=-0.7123 HT= -3.5

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
KURILSK	2.04	284.0	0	33	0							
Y.-SAKHLINSK	5.96	294.3	1	33	5							
UGLEGORSK	7.29	309.3	1	41	-6							
PETROPAVLOVK	9.87	29.2	2	26	3						4	24
TUKURASAN	11.72	226.9	2	44	-4							
MATUSIRO	12.51	233.3	2	58	0							
MAGADAN	14.80	0.3	3	26	-2							
CHANGCHUN	18.16	276.0	4	9A	-2							
PEKING	25.79	271.6	5	31	2							
TIKSI	28.91	345.9									11	39
LANCHOW	36.28	272.8	7	2A	0							
COLLEGE	38.76	36 8	7	23	1				7	36		
KUNMING	43.28	259 4	8	1A	1							
LHASA	48 78	273 2	8	45	2							
SHILLONG	50.61	268 3	8	57A	0							
FRUNSE	53 00	296 7	9	16A	1							
RESOLUTE	53.25	17 6	9	16A	-1						10	24 PCP
TASHKENT	57 18	297 6	9	45	-1							
STALINABAD	59.05	295 2				18	4	3				
LAHORE	59.40	285 5	10	0	-1							
WARSAK DAM	59.84	289.3	10	4	0							
SHASTA	61.00	60.2	10	12	0							
HUNGRY HORSE	61.38	49.2	10	14	-1				10	28		
KIRUNA	61.66	340.8	10	14	-2							
MINERAL	61.69	60.2	10	16	-1							
RENO	63.28	60.0	10	29	2							
BOZEMAN	64.63	50.2	10	36	0				10	49		
SCORESBY SD.	64.94	357.3	10	36K	-2							

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QUETTA	65.26	288.6	10 40A	0			
EUREKA	65.66	58.0	10 43	0	10 54	10 58	
ASHKABAD	65.98	300.1	10 45	0			
SALT LAKE C	67.29	54 7	10 54	1	11 8		
PASADENA	67.66	63 7	10 36	-19			
BOULDER CITY	68 58	60 3	11 1	0	11 16		
UPPSALA	68 87	336 7	11 1	-2			
RAPID CITY	69 89	47 5	11 9	0	11 21		
TIFLIS	71 37	310 5	11 19	1			
BERGEN	71 44	342 7	11 24	6			
TUCSON	73 53	60 9	11 32	1	11 46		
SIMFEROPOL	74.45	318 7	11 36A	0			
IASI	75.63	323 9	11 45	2			
KRAKOW	76.30	329.8	11 47	0	11 56	12 11	PCP
RACIBORZ	76.88	330.8	11 50	0			
COLLMBERG	77.54	334.3	11 53	-1			
DURHAM	78.07	344.0	11 48	-8			
PRAGUE	78.16	332.9	11 56	-1	12 20		
PRUHONICE	78.20	332.8	11 58	1	12 9	12 35	
JENA	78.30	335.0	11 57	-1		12 26	
BUCHAREST	78.47	323.0	11 58	-1			
MUNSTER	78.51	337.7	11 59	0			
BRATISLAVA	78.89	330.4	12 2	1			
BENSBERG	79.54	337.5	12 4	-1			
ISTANBUL KA.	79.80	319.1	12 6	0			
RATHFARNHAM	80.33	346.2	12 24	15			
FAYETTEVILLE	80.42	48.0	12 9K	0	12 23		
KEW	80.91	342.1	12 12	0			
STUTTGART	80.93	335.3	12 12	0			
OTTAWA	81.26	31.1	12 13	-1			
SHAWINIGAN	81.32	28.7	12 14	0			
STRASBOURG	81.52	336.1	12 16A	1			
FRINGEN	81 53	335 2	12 15	0			
BREBEUF	81 93	29 7	12 16A	-1			
BASLE	82 52	335 8	12 22	2			
ATHENS	84 74	320 6	12 31K	0			
PALISADES	85 71	32 2	12 35	-1			
SCOTT BASE	122 75	176 0	17 29	-83		31 15	PKKS
BYRD STATION	133.69	166 0	19 10	-3	19 29		

JANUARY 2 22.H 35.M 30.S EPICENTRE 11.25 -60.66 DEPTH= 0.KM

A= 0.48075 B=-0.85515 C= 0.19389 D=-0.8717 E=-0.4901
G= 0.0950 H=-0.1690 K=-0.9810 HT= 6.4

SE= 3.22

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
TRINIDAD	1.03	235.7	0 21A	-1				
ST. VINCENT	2.00	342.6	0 36A	1	0 58	-3		
BARBADOS	2.12	29.0	0 42	5	1 2	-3		2 42
ANTIGUA	5.75	355.5	1 35K	6				
SAN JUAN	8.84	323.9	2 13	1				
GALERAZAMBA	14.35	269.5	3 37	10	6 29	21		
BOGOTA	14.82	244.7	3 35	2	6 32	13		3 46 PP
BALBOA HTS	18.75	264 7	4 23	1	7 52	3		
BERMUDA	21 35	350.6	4 53	2	8 49	5		
HUANCAYO	27 36	212 6	5 46	-3	10 24	-4		
COLUMBIA	29 31	323 8	6 6	0				
PALISADES	31 86	340 8	7 23	54	11 43	4		
BREBEUF	35 88	344 4	6 52	-12				
OTTAWA	36 39	342 0	7 8A	0				
SHAWINIGAN	36 65	346 0	7 11A	1				
RAPID CITY	49.06	319.8	8 49	-2				
BOULDER CITY	54.61	306.2	9 30	-3				
BUTTE	55.89	318.5	9 34	-8				9 59
EUREKA	56.30	310.1	9 43	-2				10 42 PCP
PASADENA	56.95	303.4	9 46	-3				
HUNGRY HORSE	57.67	320.7	9 49	-5				
LICK	60.24	306.6	10 10	-2				10 31
MINERAL	60.71	310.0	10 14	-2				
DURHAM	63.25	33.8	10 26A	-7				
TAMANRASSET	63.87	70.1	10 37K	0				12 59 PP
RESOLUTE	66.26	350.6	10 51A	-1	19 39	-2		
STRASBOURG	67.39	42.0	11 0A	1				11 31

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MUNSTER	67.85	38.4	11 3	1		
EBINGEN	68.12	42 5	11 3	-1		
STUTTGART	68.35	41 9	11 4K	-1		
JENA	70 15	39 8	11 15	-1		
HALLF	70 45	39 3	11 17	-1	11 43	
COLLMBERG	71 08	39 6	11 22	0		
TRIESTE	71 14	45 6	11 22	0	24 59 SS	
PRAGUE	71 88	40 9	11 27	0	13 53	
PRUHONICE	71.95	41 0	11 27	0	12 29	
SKALSTUGAN	72.41	26.7	11 31	1		
BRATISLAVA	73.54	43.0	11 38	1		
KRAKOW	75.42	41.1			11 48 PCP	
KIRUNA	76.29	22.7	11 53	1		
SOFIA	78.07	48.5	12 4	2		
COLLEGE	78.69	334.2	12 5	-1		
ATHENS	78.77	53.3	12 7A	1		
MOSCOW	85.42	34.2	12 41	0		
LWIRO	89.90	92.3	13 4	2		
UVIRA	90.45	93.4	13 6	1		
ASTRIDA	90.88	92.5	13 8K	1		
KIMBERLEY	91.39	118.9	12 39	-30		
BYRD STATION	95.88	188.6	13 44	14		
SCOTT BASE	109.28	189.5	12 46	777	18 7	
MATUSIRO	129.24	340.3	19 12	1		
RABAUL	146.75	279.6	19 45	3		
CHARTERS TS.	152.69	248.1	20 0A	9		

JANUARY 3 6 H 24 M 28.S EPICENTRE 31 45 -41.15 DEPTH= 0.KM

A= 0 64360 B=-0 56236 C= 0 51916 D=-0.6580 E=-0.7530
G= 0 3909 H=-0 3416 K=-0 8547 HT= 1.3

SE= 2 37

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
BERMUDA	20.00	278.9	4 35	-2	8 4	-13		
HALIFAX	21.95	313.1			8 54	-2		
SAN JUAN	26.05	245.9	5 39	2				
WESTON	26.35	303.0	5 41K	1				
LISBON	27.07	65.6	5 49K	3				
SEVEN FALLS	27.58	313.1	5 51	0				
PALISADES	27.96	299.1			10 39	1		
SHAWINIGAN	28.60	310.9	6 7	7				
MALAGA	30.76	70.0	6 18A	-2	12 18	55	7 13 PP	
GRANADA	31.39	69.1	6 34	9				
RATHFARNHAM	33.26	38.7	6 59	18				
COLUMBIA	33.51	285.2	6 46	2				
RELIZANE	34.81	71.4	6 59	4			8 21 PP	
KEW	35.94	44.2	7 3	-1				
DURHAM	36.40	38.5	7 13A	5				
ALGIERS UNI	36.73	69.4	7 10	-1	13 0	5	8 40 PP	
NEUCHATEL	39.72	52.9	7 36A	0				
BASLE	40.20	52.1	7 40	0				
BENSBERG	40.39	46.8	7 42	0			8 8	
STRASBOURG	40.43	50.5	7 42	0	13 56	5		
WITTEVEEN	40.45	43.9	7 42	0				
MUNSTER	40.85	45.3	7 41	-4				
KARLSRUHE	40.90	49.9	7 46A	0	13 32	-26	8 15	
ERINGEN	41.19	51.2	7 47	-1				
STUTTGART	41.40	50.4	7 48	-2			9 49 PCP	
TAMANRASSET	42.17	90.0	7 56	0	14 23	6	9 37 PP	
FLORENCE X.	42.63	57.9	6 41	-79	13 17	-67		
JENA	43.15	47.4	8 2	-2			9 38 PP	
HALLE	43.45	46.6	8 5	-2			8 57	
ROME	43.63	60.6	8 28	20	15 32	54		
COLLMBERG	44.08	47.0	8 10	-2				
POTSDAM	44.23	45.5					10 2	
COPENHAGEN	44.34	40.7			14 52	3		
TRIESTE	44.38	55.1	8 21	7				
PRAGUE	44.90	48.9	8 18	0	14 55	-2	8 49	
SKALSTUGAN	46.20	29.9	8 29	0				
MESSINA	46.41	65.4	8 34	4	15 28	10	10 34 PP	
BRATISLAVA	46.62	51.5	8 32	0				
RACIBORZ	47.33	48.9	8 36	-2				
UPPSALA	47.79	35.6	8 41K	0				

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KRAKOW	48.44	48.9	8	45	-1				10	37 PP
RAPID CITY	49.57	303.2	8	54	-1				10	17
LUBBOCK	50.58	289.5	9	2	-1					
RESOLUTE	50.59	343.9	9	2A	-1	16	12	-5	19	50 SS
KIRUNA	50.60	25.6	9	1	-2					
LWOW	51.09	49.0	9	6	-1					
BOULDER	51.78	298.4	9	13	1					
LA PAZ	54.26	212.4	9	30A	0	17	22	15	11	44 PP
HUANCAYO	54.27	222.6	9	27	-3					
BOZEMAN	54.83	306.3	9	35	1					
BUTTE	55.80	307.0	9	43	1					
ISTANBUL KA.	56.05	59.1	9	39	-4					
HUNGRY HORSE	56.32	310.0	9	44	-1					
SALT LAKE C.	56.48	300.7	9	47	1					
BANFF	56.76	313.5	9	45	-3					
TUCSON	58.19	290.8	10	0	2					
MOSCOW	58.52	40.6	10	0	-1					
SIMFEROPOL	58.67	53.5	10	1	-1					
EUREKA	59.87	300.3	10	11	1					
BOULDER CITY	60.10	296.1	10	14	2					
HELWAN	61.26	70.8	10	19	-1					
RENO	62.67	301.4	10	30	1					
SOTCHI	62.92	53.7	10	29	-2					
PASADENA	63.30	295.2	10	35	2					
FRESNO	63.61	298.5	10	30	-5					
MINERAL	63.70	302.8	10	36	0					
TIFLIS	67.08	54.2	10	57	-1					
COLLEGE	68.61	333.9	11	8	1					
SVERDLOVSK	70.26	34.9	11	18	1					
LWIRO	74.18	102.7	11	41A	0					
UV'RA	75.12	103.6	11	46	0					
ASTR'DA	75.15	102.5	11	47	1					
QUETTA	88.29	55.4	12	55K	0	23	40	1		
WARSAK DAM	89.14	50.0	12	54	-5					
LAHORE	92.50	50.5	13	15	0					

JANUARY 3 7.H 2.M 11.S EPICENTRE 31.38 -40.81 DEPTH= 0.KM

A= 0.64737 B=-0.55902 C= 0.51809 D=-0.6536 E=-0.7569
G= 0.3921 H=-0.3386 K=-0.8553 HT= 1.4
SE= 2.60

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
BERMUDA	20.29	279.1	4	43	3	8	10	-13				
SAN JUAN	26.28	246.5	5	39	1							
WESTON	26.63	302.9	5	41A	-1	10	8	-8				
LISBON	26.84	65.4	5	45A	1							
SEVEN FALLS	27.84	313.0	5	55	2							
PALISADES	28.25	299.2				10	26	-16				
SHAWINIGAN	28.87	310.8	6	2	0							
MALAGA	30.51	69.9	6	20	3						7	18 PP
GRANADA	31.15	69.0	6	55	33	12	7	39				
ALMERIA	32.06	69.6	6	31	1	11	49	7			7	54 PPP
RATHFARNHAM	33.14	38.5	6	56	16							
ALICANTE	33.61	66.8	6	37	-7	11	57	-9				
COLUMBIA	33.80	285.4	6	54	9							
RELIZANE	34.56	71.4	6	55	3						8	30 PP
KEW	35.80	44.0	7	3	0	12	44	4				
DURHAM	36.28	38.3				12	52	4				
ALGIERS UNI.	36.49	69.3	7	8	0	12	55	4			8	25
GALERAZAMBA	37.89	244.9				13	24	12				
DE BILT	39.25	44.5	7	49	17	13	31	-2				
BASLE	40.01	52.0	7	39	1						12	6
BENSBERG	40.23	46.7	7	42	2							
STRASBOURG	40.26	50.4	7	34	-6	13	55	7			16	56 SS
WITTEVEEN	40.31	43.7	7	43	3							
MUNSTER	40.70	45.2	7	42	-1							
KARLSRUHE	40.73	49.8	7	45A	1	13	19	-36			15	11 SS
PAVIA	40.95	55.7									9	37 PP
EBINGEN	41.01	51.2	7	46	0							
STUTTGART	41.22	50.3	7	48	0							
IAMANRASSET	41.88	90.1	7	54	1	14	22	10			9	34 PP
FLORENCE X.	42.43	57.9									13	12
JENA	42.99	47.3	8	3	1						9	34 PP

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HALLE	43.29	46.5	8	4	-1						
ROME	43.42	60.6	8	20A	14	15	9	34	17	59	SS
COLLMBERG	43.92	46.9	8	9	-1						
TRIESTE	44.18	55.1	8	5	-7	14	43	-3	9	49	PP
COPENHAGEN	44.21	40.6				14	54	8	18	13	SCS
PRAGUE	44.73	48.8	8	16	0	14	55	1	10	3	PP
PRUHONICE	44.80	48.9	8	17	0	14	55	0	9	59	PP
SKALSTUGAN	46.12	29.8	8	29	2						
MESSINA	46.18	65.4	8	33	5				9	33	
BRATISLAVA	46.45	51.5	8	29	-1						
UPPSALA	47.68	35.6	8	39	-1	15	34	-2			
WARSAW	48.94	46.0	8	50	1				10	36	PP
RAPID CITY	49.84	303.3	8	59	3						
KIRUNA	50.54	25.5	9	0	-2	16	19	3			
RESOLUTE	50.74	343.9	9	3	0	16	9	-9	19	55	SS
LUBBOCK	50.88	289.7	9	3	-1						
LWOW	50.92	49.0	9	6	1	16	30	9			
PULKOVO	54.07	36.3	9	29	1	17	7	3			
LA PAZ	54.35	212.8	9	29K	-1						
HUANCAYO	54.41	223.0	9	26	-5						
KISHINEV	54.45	52.0	9	29	-2						
BOZEMAN	55.10	306.4	9	34	-2						
ISTANBUL KA.	55.84	59.1	9	38	-3	17	31	3			
BUTTE	56.07	307.1	9	42	-1						
HUNGRY HORSE	56.58	310.1	9	43	-3				11	0	PP
SALT LAKE C.	56.76	300.8	9	52	4						
BANFF	57.02	313.6	9	45	-5						
MOSCOW	58.39	40.6	9	59	0						
TUCSON	58.48	290.9	10	1	1						
S'MFEROPOL	58.49	53.5	9	59	-1	18	4	1			
EUREKA	60.16	300.4	10	11	0						
BOULDER CITY	60.39	296.3	10	13	0						
HELWAN	61.02	70.9	10	19	2				20	19	
SOTCHI	62.73	53.7	10	27	-2	19	2	5			
RENO	62.95	301.5	10	39	9						
KSARA	63.20	65.2	10	32	0				11	10	PCP
PASADENA	63.59	295.4	10	32	-2						
FRESNO	63.90	298.6	10	30	-6						
MINERAL	63.98	302.9	10	35	-2						
TIFLIS	66.89	54.2	10	56	0	19	55	7			
COLLEGE	68.80	334.0	11	6	-2						
LWIRO	73.89	102.9	11	40A	2						
ASTRIDA	74.85	102.6	11	45	1						
TIKSI	77.02	3.3	11	56	0	21	51	7			
QUETTA	88.10	55.6	12	54	1	23	45	8	23	25	SKS

JANUARY 3 17.M 47.M 13.S EPICENTRE -22.08 64.67 DEPTH= 0.KM

A= 0.39682 B= 0.83837 C=-0.37372 D= 0.9039 E=-0.4278
G=-0.1599 H=-0.3378 K=-0.9275 HT= 4.2

SE= 2.21

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
TANANARIVE	16.34	278.0	3	52	0	7	5	11			4	7	PP
KODAIKANAL	34.48	22.7				12	22	2					
GRAHAMSTOWN	35.37	243.2	6	57	-2								
KIMBERLEY	36.51	251.2	7	7K	-2								
ASTRIDA	39.07	294.8	7	30	0								
UVIRA	39.12	293.1	7	31	1								
LWIRO	40.04	294.5	7	39	1	13	50	5					
POONA	41.35	13.2	7	50	1	14	7	3			13	36	
BOMBAY	41.50	11.7	7	52	2	14	7	1			14	21	PS
HYDERABAD	41.52	20.1	7	52	2	14	4	-3			9	34	PP
HERMANUS	41.56	242.6				14	8	1			17	7	SS
MEDAN	41.91	56.7	7	55A	2	14	21	9					
PORT BLAIR	43.38	42.1	8	9	4	14	42	8					
PERTH	46.26	113.6	8	32	3	15	23	7			18	51	SS
KARACHI	47.68	2.9	8	36	-4								
OASIS-BUNG.	49.75	161.7	8	56	0								
CALCUTTA	49.98	29.0	9	12	15						16	12	
QUETTA	52.00	2.5	9	12K	-1	16	30	-6			10	25	PCP
DEHRA DUN	53.66	14.4	9	24	-1								
LAHORE	54.12	10.2	9	27K	-2								
SHILLONG	54.22	30.6	9	27K	-2	17	5	-1					

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WARSAK DAM	56.15	6.9	9	42	-1					
TOCKLAI	56.62	32.5	9	47	0					
LHASA	57.34	27.3	9	52K	0	17	49	1		
KUNMING	59.63	40.3	10	7	-1					
JERUSALEM	60.53	331.3	10	15	1					
HELWAN	60.80	326.8	10	14	-2	18	30	-2		
KSARA	61.99	333.0	10	21	-3	18	50	2	19	4 PS
TIFLIS	66.09	343.8	10	50	-1	19	38	-1		
BAGUIO CITY	66.80	59.9	11	1	6					
SOUTH POLE	68.05	180.0	10	58	-5				13	25 PP
LANCHOW	68.68	33.3	11	6	-1	20	8	-2		
SOTCHI	69.24	340.9	11	10	0	20	13	-3		
MELBOURNE	69.39	123.5	11	10	-1					
ISTANBUL KA.	71.00	332.3	11	19	-2					
SCOTT BASE	71.09	167.4	11	23	1					
SIMFEROPOL	72.30	337.7	11	29	0	20	51	-1		
TAMANRASSET	72.84	304.0	11	33	1	21	3	5	14	22 PP
SEMIPALATNSK	73.46	10.3							11	45 PCP
CAPE HALLETT	73.78	162.1	11	40A	2	21	42	33	26	15 SS
KOROR	74.32	75.2	11	40	-1					
NANKING	74.68	45.5	11	42	-1					
BUCHAREST	74.99	332.4	11	46	1	21	22	0		
CHARTERS TS.	75.24	105.8	11	45K	-1					
MESSINA	75.63	322.1	11	52	4	22	5	36	21	30
ZO-SE	75.70	47.6	11	46	-3					
KISHINEV	76.00	335.6	11	50	0					
IASI	76.64	335.0	11	56	2					
BYRD STATION	78.08	179.3	12	2	0				14	55 PP
PEKING	78.23	37.9	12	1	-2					
SVERDLOVSK	78.67	357.7	12	4	-1					
BRISBANE	78.75	115.1	12	6	0	22	8	5		
ULAN-BATOR	79.31	27.4	12	11	2	22	11	2		
PORT MORESBY	79.61	96.0				22	24	12	30	43 SSS
ROME	79.87	323.2	13	0	48	22	13	-2	15	43 PP
LWOW	80.16	334.6	12	13	0					
MOSCOW	80.84	344.9	12	17	0					
IRKUTSK	81.72	23.3	12	20	-1	22	31	-3		
TRIESTE	81.73	326.6	12	19	-2	22	31	-3	26	59 SS
BRATISLAVA	81.88	330.1	12	22	0					
KRAKOW	82.01	332.7	12	22	-1	22	27	-10	12	33 PCP
ALGIERS UNI.	82.46	314.5	12	30	5				15	38 PP
WARSAW	83.22	334.7	12	33A	4	22	51	2	24	0 PPS
RELIZANE	83.57	312.6	12	33	2					
PRAGUE	84.46	330.2	12	22	-13	23	1	-1	15	2 PP
CHUR	84.72	325.6	12	36	-1					
EBINGEN	85.86	326.3	12	43	1					
CHANGCHUN	85.91	39.2	12	41A	-2					
COLLMBERG	85.97	330.4	12	46	3					
STUTTGART	86.12	326.9	12	43	-1	23	17	-1		
RABAUL	86.13	92.9	13	41	57					
BASLE	86.18	325.2	12	29	-15					
PULKOVO	86.26	343.4	12	43	-1	23	9	-10		
JENA	86.38	329.5	12	44	-1				14	21
STRASBOURG	86.73	326.1	12	47	0	23	27	3	23	16 SKS
GRANADA	87.17	312.0				23	29	1	16	42 PP
MALAGA	87.49	311.3	12	57	7					
KYOTO	88.07	51.0	12	51K	-2					
MUNSTER	88.94	328.7	12	57	0					
COPENHAGEN	89.21	333.4	12	59	0	24	0	13	23	23 SKS
UPPSALA	90.20	338.3	13	3A	0					
MATUSIRO	90.58	50.6	13	4A	-1					
TUKUBASAN	91.79	51.5	13	9A	-2				13	20 *PP
DURHAM	95.06	327.8	13	18K	-8					
KIRUNA	95.37	344.6	13	26	-1	23	58	-43	17	17 PP
RATHFARNHAM	96.73	325.2	13	37	4					
RESOLUTE	126.25	353.4	19	5K	1				38	6 SS
HUANCAYO	128.14	233.1	19	10	2					
COLLEGE	132.22	18.0	19	16	0				21	30
SEVEN FALLS	136.45	316.0	19	26	2					
SHAWINIGAN	137.90	315.9	19	29	3					
OTTAWA	140.24	315.4	19	26	-5					
PALISADES	140.41	308.2							22	47 PP
MORGANTOWN	145.23	308.4	19	39A	0					
CHAPEL HILL	145.61	301.7	19	40	0					
COLUMBIA	147.63	299.0	19	45	2					
ALBERNI	151.84	13.2	19	57	7					
HUNGRY HORSE	153.77	358.0	19	54	1				30	59
RAPID CITY	155.87	338.3	19	56	1				24	3
BUTTE	156.01	355.3	19	56	1					

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BOULDER	160.18	336.8	20	2	1									
SHASTA	160.50	16.3	20	43	42									
MINERAL	161.02	14.9	20	45	44									
SALT LAKE C.	161.13	351.8	20	47	45								24	27
UKIAH	161.71	19.9	20	50	48									
RENO	162.18	11.4	20	51	48									
EUREKA	162.65	1.7	20	5	2								24	39
BERKELEY	163.17	19.3	20	55K	51									
BOULDER CITY	166.14	358.3	19	57	-9									
PASADENA	167.72	11.1	20	9	2								21	13
TUCSON	169.11	339.4	20	12	4								25	12

JANUARY 4 6.H 39.M 47.S EPICENTRE 31.59 -40.97 DEPTH= 0.KM

A= 0.64428 B=-0.55955 C= 0.52135 D=-0.6557 E=-0.7550
G= 0.3936 H=-0.3419 K=-0.8533 HT= 1.3

SE= 2.22

	DELTA DEG.	AZ. DEG.	P M	P S	P O-C S	S M	S S	S O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
HALIFAX	21.96	312.7	4	57	2	9	3	11					
SAN JUAN	26.24	245.9	5	37	1								
LISBON	26.88	65.8	5	45	3	10	11	-5			6	25	PP
SEVEN FALLS	27.59	312.8	5	48	-1								
SERRA PILAR	27.62	60.7	5	39K	-10						6	20	PP
PALISADES	28.02	298.8	5	47	-6	10	19	-16			6	27	PP
SHAWINIGAN	28.62	310.6	5	59	1								
MALAGA	30.57	70.3	6	16A	1						7	18	PP
GRANADA	31.20	69.4	6	23K	2	11	36	11			6	58	PP
ALMERIA	32.12	69.9	6	29	0								
MORGANTOWN	32.48	295.2	6	33K	1								
RATHFARNHAM	33.06	38.8									15	8	
ALICANTE	33.66	67.1	6	35	-7	11	52	-12					
TORTOSA	34.44	62.7	6	55	6								
RELIZANE	34.62	71.7	6	48	-3	12	31	12			7	10	
ALGIERS UNI.	36.54	69.6	7	7	0	13	1	13			8	41	PP
ABERDEEN	36.96	34.7									14	28	
DE BILT	39.20	44.7				13	43	14					
NEUCHATEL	39.51	53.0	7	32	0								
BASLE	39.99	52.2	7	33	-3						10	47	
BENSBERG	40.19	46.9	7	39	2						8	5	
STRASBOURG	40.23	50.6	7	39	1	13	52	8			16	52	SS
WITTEVEEN	40.25	44.0	7	43	5								
MUNSTER	40.64	45.4	7	42	1								
KARLSRUHE	40.70	50.0	7	43	1	13	19	-32			8	42	
PAVIA	40.94	55.9	9	6	82								
EBINGEN	40.98	51.4	7	43	-1						7	55	
BOGOTA	41.03	236.0				14	24	28					
STUTTGART	41.19	50.5	7	44	-2	13	55	-3			9	40	PCP
TAMANRASSET	42.02	90.2	7	53K	1	14	20	9			9	34	PP
FLORENCE X.	42.43	58.1	7	56	0	14	35	18					
JENA	42.94	47.5	8	0	0						9	46	PP
HALLE	43.24	46.7	8	3	1						10	32	
CHEB	43.37	48.8				14	39	9			10	38	
ROME	43.43	60.7	8	4	0	14	49	18					
COPENHAGEN	44.14	40.8				14	50	8					
PRAGUE	44.69	49.0				14	59	9					
PRUHONICE	44.77	49.1	8	16	1	14	54	3			10	7	PP
SKALSTUGAN	46.00	29.9	8	25	0								
BRATISLAVA	46.42	51.7	8	28	0								
RACIBORZ	47.12	49.0	8	33	0						8	43	
TARANTO	47.17	62.2	8	13	-21	14	53	-32					
UPPSALA	47.59	35.7	8	36	-1								
WARSAW	48.89	46.1	8	57	10	15	47	-2			10	48	PP
RAPID CITY	49.61	303.1	8	53	0								
KIRUNA	50.40	25.6	8	58	-1								
RESOLUTE	50.49	343.8	8	59A	0	16	21	10			19	51	SS
LUBBOCK	50.67	289.5	9	1	0								
LWOW	50.89	49.1	9	1	-1								
NORD	50.95	4.5	9	2	-1								
BOULDER	51.84	298.3	9	9	-1								
LA PAZ	54.46	212.6	9	29K	0	17	13	7					
HUANCAYO	54.48	222.7	9	29	0	17	5	-1					
BOZEMAN	54.86	306.3	9	33	1								
BUTTE	55.83	307.0	9	39	0								

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ISTANBUL KA.	55.85	59.2	9	33	-6						
HUNGRY HORSE	56.34	309.9	9	41	-2						
SALT LAKE C.	56.53	300.7	9	43	-1						
TUCSON	58.27	290.7	9	57	1						
MOSCOW	58.31	40.7	9	57	0						
SIMFEROPOL	58.47	53.6	9	58	0					14	7
EUREKA	59.93	300.2	10	8	0						
BOULDER CITY	60.17	296.1	10	11	1						
HELWAN	61.08	71.0	10	17	1	18	37	5			
SOTCHI	62.72	53.8	10	25	-2	18	58	5			
RENO	62.72	301.4	10	17	-10						
KSARA	63.23	65.2	10	29	-1					13	32
PASADENA	63.37	295.2	10	33	2						
FRESNO	63.67	298.5	10	34	1						
MINERAL	63.74	302.8	10	33A	0						
TIFLIS	66.88	54.3	10	54	0	19	50	6			
COLLEGE	68.54	334.0	11	5	1						
SVERDLOVSK	70.05	34.9	11	13	0						
LWIRO	74.07	102.8	11	38K	1	21	16	8			
UVIRA	75.01	103.7	11	43A	0				11	50	
ASTRIDA	75.04	102.6	11	43	0				11	51	
TIKSI	76.81	3.3	11	54	1						
QUETTA	88.09	55.5	12	51	0	23	36	3			
RABAUL	150.08	333.0	19	52	7						

JANUARY 4 8.H 2.M 21.S EPICENTRE 17.04 -99.72 DEPTH= 0.KM

A=-0.16159 B=-0.94289 C= 0.29128 D=-0.9856 E= 0.1689
G=-0.0492 H=-0.2871 K=-0.9566 HT= 5.3

SE= 2.22

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
TACUBAYA	2.40	11.9	0	43K	2	1	21	9			0	53	
PUEBLA	2.45	36.0	0	43	1								
OAXACA	2.83	90.0	0	47	0	1	23	0			1	7	
VERA CRUZ	4.04	57.3	1	7	2						1	53	
GUADALAJARA	4.97	317.3	1	24	6	2	28	11			1	36	
COMITAN	7.32	95.1				3	7	-9			3	55	
MAZATLAN	8.75	315.3				4	5	14			3	55	
SAN SALVADOR	10.64	106.6	2	49	12						5	3	
CHIHUAHUA	12.93	334.2	3	10	2								
LUBBOCK	16.58	353.8	3	57	2						7	37	
TUCSON	18.18	328.5	4	16	1	7	53	17			7	7	
BALBOA HTS.	21.21	109.7				8	41	-1					
BOULDER CITY	23.15	327.5	5	10	1	9	28	11					
BOULDER	23.41	349.2	5	11	-1								
PASADENA	23.74	319.3	5	15	0	9	35	7					
COLUMBIA	23.80	41.3	5	15	0								
GALERAZAMBA	24.53	101.5									10	34	SS
SALT LAKE C.	25.86	338.5	5	34	-1								
CHAPEL HILL	26.28	40.3	5	24	-15								
EUREKA	26.46	330.9	5	41	0								
FRESNO	26.48	321.8	5	39	-2								
RAPID CITY	27.11	354.5	5	46	-1						6	51	PP
LICK	27.96	320.6	5	54	0								
MORGANTOWN	28.32	33.4	5	57K	-1								
RENO	28.42	326.1	6	0	2						15	18	
BERKELEY	28.68	320.8	6	1	0								
MINERAL	29.97	325.2	6	13	1								
BOZEMAN	30.07	344.0	6	13	0								
BUTTE	30.81	342.4	6	17	-3								
SAN JUAN	32.02	82.5	6	30	0								
PALISADES	32.64	37.7	6	34	-2	12	1	9			7	29	PP
HUNGRY HORSE	33.35	342.6	6	41	-1						8	28	
CORVALLIS	33.87	329.1	6	46	0								
OTTAWA	34.67	30.3	6	52A	-1								
WESTON	35.01	37.9	6	55A	-1								
SEATTLE	35.72	333.6	7	12	10								
BREBEUF	35.78	32.0	7	1A	-2						8	26	PP
BANFF	36.31	343.2	7	6A	-1								
VICTORIA	36.87	333.6	7	13	1								
SHAWINIGAN	36.94	31.4	7	13A	0								
HORSESHOE B.	37.48	334.6	7	16A	-1						7	24	
HUANCAYO	37.64	138.6	7	19	0	12	52	-17					

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SEVEN FALLS	38.30	32.2	7 22	-2							
LA PAZ	45.61	135.3	8 22A	-2	15	6	-1				
COLLEGE	57.57	337.9	9 52	-2							
RESOLUTE	57.71	1.5	9 52A	-3	18	5	12				
MALAGA	84.14	53.5	12 35A	1							
SKALSTUGAN	84.25	24.6	12 35	0							
GRANADA	84.62	52.9	12 38A	1							
KIRUNA	85.00	19.2	12 39	0	23	21	14			14	3
STUTTGART	89.25	38.7	12 57	-2							
EBINGEN	89.36	39.3	12 58	-2							
TAMANRASSET	96.89	63.8	13 34	0						17	37 PP
MATUSIRO	103.66	315.4								33	11
CAPE HALLETT	106.09	198.6	19 39	777						27	57 PKKP
QUETTA	131.33	15.4	19 15	0							
TANANARIVE	148.84	98.5	19 51K	5							

JANUARY 4 23.H 21.M 41.S EPICENTRE -8.59 112.16 DEPTH= 175.KM

DEPTH OF FOCUS= 0.022R

A=-0.37308 B= 0.91586 C=-0.14836 D= 0.9261 E= 0.3773
G= 0.0560 H=-0.1374 K=-0.9889 HT= 6.7

SE= 2.89

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
DJAKARTA	5.81	294.0	1	25K	0	2	49	18				
MEDAN	18.08	311.4	4	8K	7	7	31	17				
PERTH	23.49	172.2	4	53	-2						5	28 PP
CHARTERS TS.	34.86	112.7	6	35	-1							
GUAM	39.08	56.2	7	12	1							
SHILLONG	39.28	330.3	7	11A	-2							
RABAUL	39.98	86.3	7	19	0							
TRUK	42.65	69.2	7	42	1						9	17 PCP
BRISBANE	42.90	121.4	7	44K	1	17	9	195				
POONA	46.42	305.7	8	10	-1						8	32
MATUSIRO	51.14	27.0	8	45	-2							
LAHORE	53.87	319.6	9	0	-7							
KARACHI	55.63	309.3	9	13	-7							
WARSAK DAM	57.24	320.0	9	29	-2	17	20	9				
QUETTA	58.06	313.6	9	34A	-3	17	27	5	10	24		
TANANARIVE	63.31	253.2	10	12K	0							
SCOTT BASE	74.55	169.7	11	21	0							
SVERDLOVSK	77.63	333.9	11	38	0							
TIFLIS	79.25	315.3	11	48	1							
SOUTH POLE	81.47	180.0	11	56	-3				12	55		
ASTRIDA	82.14	268.6	12	4A	2							
UVIRA	82.62	267.6	12	7A	2							
LWIRO	83.11	268.8	12	9A	2							
KSARA	83.51	305.5	12	13	4							
HELWAN	86.37	300.8	12	23	0						12	31
BYRD STATION	87.76	172.1	12	31	1							
MOSCOW	88.46	326.9	12	36	3							
UPPSALA	99.64	329.3	13	31	6							
TAMANRASSET	108.57	291.1	17	59	777						18	36 PP
HUNGRY HORSE	124.55	35.8	18	44	6							
EUREKA	127.21	46.4	18	50	6							
PASADENA	127.33	53.4	18	52	8							
SEVEN FALLS	141.52	3.3	19	7	-3							
BREBEUF	142.89	6.7	19	21K	8							
FAYETTEVILLE	143.59	37.3	19	16	2							
WESTON	146.20	4.6	19	25A	7							
MORGANTOWN	147.24	17.4	19	27	7							
PALISADES	147.27	8.5	19	26	6							
HUANCAYO	158.18	159.9	19	45	9							

JANUARY 5 8.H 5.M 8.S EPICENTRE 1.78 122.32 DEPTH= 482.KM

DEPTH OF FOCUS= 0.071R

A=-0.53434 B= 0.84471 C= 0.03090 D= 0.8451 E= 0.5346
G=-0.0165 H= 0.0261 K=-0.9995 HT= 7.2

SE= 1.79

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	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KOROR	13.31	65.2	2 54	0	5 13	0		
DJAKARTA	17.37	242.8	3 32K	-3	6 29	1		
TAWU	20.49	356.3	4 9	4				
TAITUNG	20.87	357.0	4 9	1				
HSINKONG	21.21	357.6	3 52	-19	7 33	-1		
HWALIEN	22.07	358.3	4 18	-1				
CANTON	22.91	338.2	4 27A	0	8 1	-1		6 36 *SP
MEDAN	23.68	274.8	4 50A	16	8 39	25		
PHU-LIEN	24.32	322.1	5 47	67				6 56
GUAM	25.05	61.3	4 45	-1			5 52	6 17 PP
PORT MORESBY	27.12	114.6	5 5	0	9 8	0		6 17
ZO-SE	29.18	358.0	5 23	1	9 41	0	6 47	
KUNMING	29.90	322.3	5 31A	2	9 54	2	6 52	
TRUK	29.96	78.2	5 30	1			6 57	7 40 PP
NANKING	30.29	354.1	5 32	0	9 58	0	6 55	
RABAUL	30.42	101.3	5 32	-1				
PORT BLAIR	30.95	289.8	7 7	89	12 44	156		
CHARTERS TS.	31.95	133.8	5 46A	0			7 9	
PERTH	34.11	189.9	6 7	3	11 8	12		9 27
KYOTO	35.35	19.2	6 13A	-2	11 12	-3		
CHITTAGONG	36.01	307.0	6 19	-1				
TOCKLAI	36.27	315.6	6 27K	5				
MATUSIRO	37.59	21.2	6 32	-1	11 40	-9	7 59	
SHILLONG	37.67	311.5	6 32A	-2	11 46	-4		
TUKURASAN	38.02	23.6	6 34A	-3	11 31	-24	8 14	8 26 PCP
LANCHOW	38.19	335.4	6 38	0	11 58	0		
PEKING	38.48	352.4	6 39	-2	12 0	-2		14 51
YINCHUAN	39.36	340.0	6 52	4				
LHASA	40.63	316.0	6 58A	0	12 34	1		8 52 PP
BRISBANE	41.47	136.8	7 2A	-3	12 43	-2		
BOKARO	41.58	304.8	7 6	0	12 46	-1		
CHANGCHUN	41.95	3.2	7 7K	-2			8 36	
VLADIVOSTOK	42.04	10.5	7 10	1	12 52	-1		8 48 PCP
MADRAS	43.17	287.1	7 17	-1	13 7	-3		8 48 PP
MELBOURNE	44.64	154.3	7 30A	0	13 34	4	9 19	9 2 PCP
HYDERABAD	45.80	292.7			13 45	-2	9 1	
ULAN-BATOR	47.86	346.0			14 15	0	9 26	
KURILSK	48.77	23.9	8 0	-1	14 24	-4		
AGRA	49.34	304.9	8 4K	-2	14 34	-1		9 38 PP
UGLEGORSK	50.07	16.8	8 12	1	14 44	-1		
POONA	50.31	292.6	8 15	2	14 47	-2		9 48 PP
DEHRA DUN	50.62	308.7	8 14	-1	14 48	-5		10 1 PP
BOMBAY	51.35	292.8			15 0	-6	9 54	
IRKUTSK	52.51	346.2			15 19	1		
LAHORE	54.04	308.4	8 38	-2	15 37	-1	10 11	17 36 SCS
WARSAK DAM	57.15	310.0	9 1	0	16 18	-1		
KARACHI	58.23	299.4					10 39	
FRUNSE	59.00	320.6	9 14A	0	16 38	-4		11 40 PP
QUETTA	59.51	304.2	9 15	-2	16 46	-3	10 52	19 40 *SS
STALINABAD	61.00	313.9	9 27	0				17 9
KAIMATA	62.42	140.9	9 39	2				
KARAPIRO	62.97	134.7	9 42	2				
TONGARIRO	63.54	136.0	9 43	-1				
GEBBIES PASS	63.80	141.5	9 46	1				
WELLINGTON	63.97	138.3	9 46	-1				
ASHKABAD	68.55	310.3	10 13	-2			11 54	21 44 *SS
TIKSI	69.87	2.2	10 22	-1	18 46	-7	12 7	21 47
SVERDLOVSK	73.36	329.7	10 43	0				
TANANARIVE	76.19	250.1	10 57A	-2			12 48	13 36 *SP
TIFLIS	79.50	312.0	11 17	0				
CAPE HALLETT	79.91	166.7	11 20	1				16 45 PP
SCOTT BASE	83.05	171.4	11 35A	0				
KSARA	86.05	303.6	11 47	-2			13 44	17 40 PPP
JERUSALEM	86.60	301.6					13 27	
SIMFEROPOL	87.47	314.7			21 37	-18		13 40 PP
COLLEGE	88.34	25.3	12 0	0			13 55	
PULKOVO	89.48	329.6						18 3 PPP
HELWAN	89.98	299.7					13 54	
SOUTH POLE	91.77	180.0	12 14	-2	22 2	-31	14 5	18 2 PPP
ASTRIDA	92.66	267.5					14 16	
KIRUNA	92.84	338.2	12 20	-1			14 14	
UVIRA	93.30	266.6	12 26	3				14 18
LWIRO	93.58	267.9					14 22	16 18 PP
BYRD STATION	96.47	171.1	12 38	0	23 15	2	14 32	16 35 PP
SKALSTUGAN	97.21	334.9	12 44	3				

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PRUHONICE	99.98	321.4	12 57	4			14 46		16 16	PP
RESOLUTE	100.48	9.4	12 56	0					25 17	*SP
STUTTGART	103.68	321.2					15 3		17 36	PP
EBINGEN	104.01	320.7					15 7		17 39	PP
HUNGRY HORSE	110.27	36.3	17 39	3			16 6		18 21	PP
EUREKA	112.77	45.6	17 42	1					18 34	PP
TAMANRASSET	113.83	295.8	17 45	2					18 48	PP
RAPID CITY	118.90	36.0	17 55	2					19 20	PP
TUCSON	119.44	51.1	17 57	3						
BOULDER	119.84	40.8	17 57	2						
FAYETTEVILLE	129.24	38.5							20 49	SKP
SEVEN FALLS	129.95	11.7	18 15K	1					20 50	SKP
SHAWINIGAN	130.07	13.6	18 16K	2					20 38	PP
OTTAWA	130.37	16.6	18 17A	2					20 52	SKP
BREBEUF	130.84	14.8							20 54	PP
MORGANTOWN	134.01	24.0							21 6	*SPKP
WESTON	134.34	14.1							21 7	PP
PALISADES	134.92	17.4	18 25	2	24 36	-10			33 20	PPS
CHAPEL HILL	137.52	26.0							21 16	
COLUMBIA	138.18	29.6							21 19	PP
HUANCAYO	159.75	121.0	19 8	6					19 57	PKP2
LA PAZ	162.12	145.5	19 16A	12	29 44	262			23 50	PP

JANUARY 5 11.H 30.M 44.S EPICENTRE 56.66 121.11 DEPTH= 0.KM

A=-0.28528 B= 0.47275 C= 0.83374 D= 0.8562 E= 0.5167
G=-0.4308 H= 0.7138 K=-0.5522 HT= -7.8

SE= 2.85

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S	
KABANSK	9.62	247.4	2 21K	-2					
SUIHWA	10.70	157.6	2 37	-1					
IRKUTSK	10.71	252.8	2 36K	-2					
KYAKHTA	10.75	240.3	2 38K	0					
ULAN-BATOR	12.32	230.7	2 57	-3	5 26				
CHANGCHUN	13.12	166.5	3 6	-4				3 19	PP
VLADIVOSTOK	15.21	148.5	3 36	-2				6 34	SS
TIKSI	15.38	9.3	3 35	-5				6 40	SS
MAGADAN	15.89	67.2	3 46	-1				6 20	
Y.-SAKHLINSK	16.46	117.0	3 56	2				8 42	PCP
PEKING	16.96	193.1	3 59A	-1	7 8	-1			
TATUNG	17.35	200.5	4 8	3					
PAOTOW	17.64	208.9	4 8	-1					
DAIREN	17.78	178.7	4 8	-3					
SUTTSU	18.49	130.5			7 43	0		8 21	SSS
ASAHIGAWA	18.64	124.7	4 21	0					
SAPPORO	18.75	127.9	4 29	6	7 40	-9			
MURORAN	19.19	130.0	4 25	-3				10 18	
MORI	19.21	131.1	4 30	2	8 11	11		5 15	
TOMAKOMAI	19.29	128.5	4 47	18				10 18	
HAKODATE	19.54	131.3	4 31	-1				6 20	
OBIHIRO	19.69	124.9	4 30	-4				10 12	
URAKAWA	20.11	127.0	4 53	15	8 15	-5			
KUSIRO	20.19	122.8	4 48	9	8 16	-5			
KURILSK	20.23	113.0	4 38	-2				5 9	PPP
NEMURO	20.48	120.2	4 40	-2	8 20	-7		10 58	
YINCHUAN	20.69	214.7	4 47	3					
HATINOHE	20.92	131.8	4 42	-5	8 41	5			
AKITA	21.04	135.6			8 48	10			
MORIOKA	21.47	133.7	4 47	-5	8 46	0			
PETROPAVLOVK	21.69	83.4	4 54	-1				5 18	PP
MIYAKO	21.84	132.3	4 52	-4	8 44	-9			
MIZUSAWA	21.95	134.6	5 27	30					
NIIGATA	22.23	139.9	4 55	-5				8 14	
WIWEI	22.41	221.1	5 3	1					
YAMAGATA	22.41	137.1	5 8	6					
SENDAI	22.60	136.1	5 2	-2	9 6	-1		5 33	
YUMEN	22.68	234.0	5 5	1					
TAKADA	22.69	142.3	5 19	15					
HUKUSIMA	22.90	137.5	5 4	-3	9 29	16			
HAMADA	23.01	156.4			8 19	-56		11 5	
NAGANO	23.06	142.9	5 21	13	9 21	5			
TOYOOKA	23.09	150.5	5 14	6					
ITUHARA	23.15	162.6						11 19	
MATUSIRO	23.18	143.0	5 8	-1	9 21	3			

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SHIRAKAWA	23.36	138.7	5	4	-7	9	19	-2			
MATUMOTO	23.37	143.8	5	26	15						
OIWAKE	23.49	142.6	5	24	12						
MAEBASI	23.60	141.6	5	12	-1	9	25	0			
HIROSIMA	23.60	156.1				9	32	7			
LANCHOW	23.66	216.9	5	15K	1	9	30	4			
IRUKISAN	23.67	147.6	5	33	19						
SIMONOSEKI	23.69	159.3				9	27	0			
HIKONE	23.74	147.9	5	48	33	10	18	51			
UTUNOMIYA	23.74	140.0	5	13	-2	9	30	2		5	33
ONAHAMA	23.76	137.7	5	15	0	9	34	6			
GIHU	23.77	146.8	5	29	14					6	49
KYOTO	23.82	149.1	5	12K	-4	9	29	0			
SINING	23.89	221.1	5	18	2						
SIAN	23.92	205.6	5	26	10						
KUMAGAYA	23.93	141.3	5	13	-4	9	56	25			
HUKUOKA	23.95	160.6	5	17	0	9	26	-5		9	40
TITIBU	23.98	142.0	5	13	-4						
KOBE	23.99	150.5				9	50	18		12	1
IIDA	23.99	144.7	5	18	1						
NAGOYA	24.05	146.7	5	58	40						
MITO	24.11	139.1	5	20	2	9	39	5		12	25
TUKUBASAN	24.12	139.9	5	16A	-2	9	28	-6	5	28	5 51 PP
KOHU	24.13	143.3	5	20	1	9	46	12			
KAKIOKA	24.14	139.8	5	24	5	9	39	5			
MATUYAMA	24.19	155.8				9	31	-4			
SUMOTO	24.22	151.3	5	11	-8	9	46	10			
SAGA	24.25	161.0	5	19	-1	9	4	-32			
HUNATU	24.32	143.0	5	22	2					8	11
TOKUSIMA	24.41	152.1	5	17	-4						
TOKYO C.M.O.	24.48	141.1	5	29	7	9	35	-5		10	41
OOITA	24.53	158.4	5	27	5					10	47
KOTI	24.64	154.5	5	22	-1					5	44
NANKING	24.66	184.7	5	23	-1					5	58 PP
YOKOHAMA	24.68	141.5	5	23	-1					6	23
SHIZUOKA	24.68	144.2	5	19	-5						
NAGASAKI	24.69	162.1	5	23	-1	9	41	-3			
MISIMA	24.72	143.1	5	23	-1	9	45	1			
UWAZIMA	24.72	156.6	5	24	0	9	51	7		10	10
KUMAMOTO	24.75	160.4	5	30	5	9	57	12		13	21
SEMIPALATNSK	24.78	272.8	5	26	1	9	46	1			
MERA	25.20	141.7	5	27	-2	10	0	8			
SIMIDU	25.25	156.1	5	22	-7	9	54	1			
ZO-SE	25.56	179.9	5	31	-1	9	57	-1		9	11 PCP
MIYAZAKI	25.76	159.5				10	4	2			
SVERDLOVSK	32.22	296.2	6	32	0	11	46	1		7	36 PP
FRUNSE	32.38	264.9	6	34K	0	11	46	-2			
CANTON	34.03	193.0	6	48	0						
LHASA	34.29	230.7	6	51K	1	12	21	4		8	13 PP
KUNMING	34.29	210.6	6	48K	-2						
TOCKLAI	35.34	223.3	7	8	9						
TASHKENT	36.35	267.6	7	6	-2	12	51	2		8	52 PPP
PHU-LIEN	37.39	202.7	7	22	6					8	49 PP
SHILLONG	37.53	226.4	7	16K	-2	13	5	-2		15	41 SS
STALINABAD	38.56	264.8	7	34	8						
DEHRA DUN	39.86	247.1	7	38	1	13	43	0		9	16 PP
NORD	40.13	351.2	7	38	-1						
BAGUIO CITY	40.17	180.8	7	36	-4	15	2	75			
COLLEGE	41.45	40.2	7	51	1						
BOKARO	41.62	232.8	7	53	1	14	14	5			
CALCUTTA	41.68	228.8	7	47	-5	14	4	-6	17	1	SS
AGRA	42.48	244.4	8	0K	1	14	19	-2		9	37 PP
KIRUNA	42.90	326.9	8	1K	-1	14	23	-5		9	42 PP
MOSCOW	43.70	305.6	8	8	-1	14	35	-4		9	54 PP
PULKOVO	44.33	313.6	8	14	0	14	42	-6		9	55 PCP
ASHKABAD	44.73	273.0	8	18K	1	14	57	3		10	1 PCP
QUETTA	45.81	258.2	8	25K	-1	14	58	-12		10	18 PP
GUAM	46.76	147.6	8	32	-1					10	24 PP
RESOLUTE	46.77	12.4	8	31	-2	15	27	4		10	27 PP
SKALSTUGAN	48.25	325.4	8	43K	-2					10	39 PP
UPPSALA	49.10	319.5	8	50	-1	16	0	4		10	43 PP
KARACHI	49.21	254.6	8	56K	4	15	57	-1			
TIFLIS	49.41	286.7	8	54	0	16	3	2		10	21 PCP
PORT BLAIR	49.95	217.5				16	12	4			
GORIS	50.18	283.6	9	1	1	16	14	3			
SCORESBY SD.	50.44	344.8	9	1K	-1						
HYDERABAD	50.52	236.9	8	57K	-5	16	12	-4		11	0 PP
SITKA	51.14	43.0	9	16	9						

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POONA	51.76	242.5	9	12	0	16	35	2	10 59	PP
BOMBAY	51.96	243.8	9	18	5	16	39	3	21 36	SSS
SIMFEROPOL	52.58	296.8	9	18	0	16	44	0	11 32	PP
BERGEN	52.82	325.9							20 59	SS
WARSAW	53.28	310.9	9	29	6				16 56	PS
MADRAS	53.63	232.5	9	25	0	17	0	1	10 19	PCP
LWOW	53.76	307.2	9	26	0	17	0	0	19 8	SCS
COPENHAGEN	54.05	318.5	9	31	2	17	26	2?	20 52	SS
'AS'	54.08	302.8	9	30	1	17	24	19	12 11	PP
TRUK	54.67	141.6	9	32	-1				10 20	PCP
KRAKOW	55.36	309.8	9	36	-2	17	19	-3	11 47	PP
MEDAN	55.87	207.4	9	42K	0	17	11	-18		
SKALNATE PL.	55.88	308.9	9	35	-7				11 37	PP
RACIBORZ	56.07	310.8	9	40	-3				13 6	PPP
POTSDAM	56.36	315.6	9	44	-1	17	35	0	24 44	
CAMPULUNG	56.70	302.8	9	51	3					
BUCHAREST	56.84	301.5	9	49A	0	17	44	3	11 53	PP
COLLMBERG	57.23	314.8	9	50	-2				10 37	PCP
HALLE	57.49	315.6	9	52	-1	17	47	-3	12 0	PP
PRAGUE	57.63	313.0	9	57	3	17	42	-10	11 55	PP
PRUHONICE	57.65	312.9	9	54	-1	17	54	2	11 58	PP
BUDAPEST	57.69	308.3	9	55	0				17 59	PS
ABERDEEN	57.69	327.4							27 36	
ISTANBUL KA.	57.94	296.9	9	55	-2	17	8	-48		
BRATISLAVA	58.00	310.0	9	56	-1	17	53	-4	11 56	PP
TIMISOARA	58.07	305.6	10	6	9	18	6	8		
JENA	58.08	315.4	9	55	-3	17	57	-1	12 2	PP
SZEGED	58.17	306.7							13 40	PPP
PLAUEN	58.20	314.7	9	55	-3				12 1	PP
WITTEVEEN	58.40	319.6							23 21	
CHEB	58.44	314.3	9	55	-5	18	0	-3	18 14	PS
KALOCSA	58.46	307.6	10	5	5				13 13	PPP
MUNSTER	58.74	318.4	9	58	-4					
BELGRADE	59.14	305.4	10	6K	1	18	5	-7	13 42	PPP
SOFIA	59.45	302.0	10	7	0	17	29	-47	13 47	PPP
DE BILT	59.52	319.9							22 16	SS
DURHAM	59.56	325.6	9	54K	-14					
BENSBERG	59.73	318.0	10	8	-1				12 23	PP
KSARA	59.99	286.7	10	12	1	18	23	0	14 1	PPP
ZAGREB	60.32	309.0	9	53	-20				18 55	PS
STUTTGART	60.73	315.3	10	14	-2	18	32	0		
KARLSRUHE	60.84	315.9	10	17A	0	18	36	2		
SKOPJE	60.91	302.8	10	21A	4				19 2	PS
TUBINGEN	60.98	315.2	10	17	-1					
EBINGEN	61.30	315.0	10	18	-2					
RAVENSBURG	61.37	314.4	10	24	4					
TRIESTE	61.40	310.3	10	16	-4	18	42	1	12 37	PP
STRASBOURG	61.44	316.0	10	19	-2				23 4	SS
HORSESHOE B.	61.64	42.0	10	22A	0					
KEW	61.94	322.8	10	24	0	18	52	5	22 53	SS
ZURICH	62.11	314.7	10	29	4				14 9	
RATHFARNHAM	62.25	327.4	10	29K	3	19	29	38		
VICTORIA	62.30	42.7	10	25	-1					
BASLE	62.37	315.5	10	26	-1				16 29	
BANFF	62.83	36.2	10	36A	6					
ATHENS	62.96	298.4	10	29A	-2					
NEUCHATEL	63.05	315.5	10	32	1				31 42	
BOLOGNA	63.34	311.1							24 37	
SEATTLE	63.44	42.5	10	36	2					
PAVIA	63.67	312.9							25 17	
DJAKARTA	63.71	195.9				19	10	0	17 24	
OROPA	63.79	314.0							24 52	
PRATO	63.94	310.9	10	48	11	18	58	-15		
FLORENCE X.	63.96	310.7	10	38A	1	19	33	20	13 8	PP
TARANTO	64.02	304.5							16 6	
ROME	64.97	308.7	10	44A	0	19	17	-8	14 45	PPP
HELWAN	65.48	287.3	10	46	-1	19	31	-1		
CORVALLIS	65.62	45.0	10	47	-1					
RABAUL	65.73	145.6	10	47	-2					
HUNGRY HORSE	65.76	36.9	10	49	0				13 16	PP
REGGIO CALA.	66.66	304.1	10	53	-2					
BUTTE	68.28	37.2	11	5	0				11 32	PCP
BOZEMAN	69.09	36.4	11	10	0				11 40	PCP
PORT MORESBY	69.25	152.4	11	27	16	20	14	-3	24 47	SS
MINERAL	69.87	46.3	11	14K	-1					
RENO	71.27	45.5	11	26	3					
BERKELEY	71.71	48.2	11	26K	0					
LICK	72.42	48.0	11	30K	0					

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EUREKA	72.80	42.9	11	33	1						
RAPID CITY	72.95	31.8	11	33	0						
SALT LAKE C.	73.16	39.3	11	36	2					11	59 PCP
ALGIERS UNI.	73.24	312.3	11	34	-1	21	0	-3		14	12 PP
TOLEDO	73.27	318.9	11	35	0	21	1	-2			
ALICANTE	73.28	315.6	11	33	-2	20	59	-4		14	17 PP
FRESNO	73.66	47.0	11	37	0						
SERRA PILAR	73.75	322.7	11	38K	0					14	24 PP
RELIZANE	75.13	313.6	11	48	2	21	32	8		22	26 PPS
GRANADA	75.49	317.3	11	49K	1	21	22	-6		14	48 PP
BOULDER	76.01	35.0	11	52	1						
LISBON	76.10	322.0	11	56	5						
SEVEN FALLS	76.11	8.4	11	51	0	21	38	3		14	46 PP
MALAGA	76.19	317.7	11	53A	1	21	18	-18		14	33 PP
BOULDER CITY	76.30	43.8	11	53	0					12	16
SHAWINIGAN	76.50	9.8	11	54K	0						
PASADENA	76.59	47.1	11	54	0						
OTTAWA	77.33	12.1	11	58K	0						
BREBEUF	77.46	10.6	11	58K	-1	21	42	-8			
HALIFAX	79.01	3.4	12	8K	0	22	9	3		30	51 SSS
CHARTERS TS.	79.26	156.0	12	10	1						
WESTON	80.77	9.3	12	17K	0						
TUCSON	81.12	42.5	12	20	1					15	26 PP
PALISADES	81.87	11.4	12	22	-1	22	30	-6		15	30 PP
MORGANTOWN	82.43	16.3	12	26A	0						
FAYETTEVILLE	82.88	28.1	12	28K	0						
LUBBOCK	83.01	35.0	12	29	0						
TAMANRASSET	84.21	303.2	12	35	0	22	59	-1		15	57 PP
COLUMBIA	87.76	18.3	12	52	0	23	37	3			
BRISBANE	88.07	152.0	12	53	-1	23	46	9			
ASTRIDA	92.91	269.7	13	16A	0					17	5 PP
LWIRO	93.14	270.7	13	18	1	25	40	78			
UVIRA	93.98	269.7	13	20	-1					17	10 PP
HUANCAYO	133.71	22.5	19	23	4					21	48 PP
SCOTT BASE	137.14	167.1	19	27	2						
LA PAZ	139.30	13.7	20	25	56						
SOUTH POLE	146.48	180.0	19	40	-2					22	48 PP
BYRD STATION	150.25	162.2	19	47	-1					20	43

JANUARY 6 1.H 54.M 39.S EPICENTRE 36.97 71.09 DEPTH= 78.KM
DEPTH OF FOCUS= 0.007R

A= 0.25958 B= 0.5766 C= 0.59880 D= 0.9460 E=-0.3241
G= 0.1941 H= 0.5665 K=-0.8009 HT= -0.6

SE= 2.07

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
KHOROG	0.65	38.6	0	16	0	0	28	-1					
KULYAB	1.40	312.1	0	26	2								
OBI-GARM	2.05	328.0	0	33	0								
GARM	2.12	343.2	0	34	0								
DZHERGETAL	2.25	2.6	0	37	1								
KARA-SU	2.25	312.7	0	36	0								
STALINABAD	2.42	311.4	0	38	0								
MURGAB	2.65	57.3	0	45	4								
WARSAK DAM	2.99	172.6	0	47K	1								
FERGANA	3.45	8.8	0	54	2	1	33	1			1	47	
ANDIJAN	3.91	14.5	1	0	1	1	40	-4			1	16	
NAMANGAN	4.03	6.3	1	1	1						1	15	
SAMARKAND	4.21	311.1	1	0	-3	1	40	-11					
TASHKENT	4.57	342.6	1	3	-5	1	54	-6			1	23	
TCHIMKENT	5.45	348.3	1	19	-1						2	51	
NARYN	5.86	39.1	1	25	-1						1	47	
LAHORE	6.04	152.7	1	29	1								
FRUNSE	6.48	23.4	1	35	1								
RYBACHE	6.69	33.6	1	37	0						3	32	
BAIRAM-ALI	7.18	277.7	1	41	-3	2	57	-8			1	53	
FABRICHNAYA	7.42	31.6	1	47	0								
QUETTA	7.60	208.2	1	48K	-2	3	9	-6			2	13	*SP
ALMATA	7.73	33.7	1	52	1						3	46	
PRZHEVALSK	7.87	43.4	1	54	1	3	31	9			4	51	
ALMATA-2	7.92	35.5	1	54	0	3	24	1			2	21	
CHILIK	8.65	38.1	2	2	-2								
DEHRA DUN	8.81	136.8	2	3	-3	3	36	-9			2	9	PP

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ASHKABAD	10.18	279.4	2	25	0						
AGRA	11.43	147.1	2	39K	-3	4	35	-13			
KARACHI	11.63	198.4	2	51	7	5	2	9			
KIZYL-ARVAT	11.87	284.5	2	44	-3						
SEMIPALATNSK	14.95	23.3	3	29	1	6	5	-7			
BAKU	16.89	288.1				7	32	36	9	32	
BOMBAY	18.07	174.7	4	6	-1	7	29	7	4	23	PP
LHASA	18.19	107.9	4	6	-2	7	17	-8	7	39	SS
BOKARO	18.21	131.9	4	6	-2	7	11	-14			
POONA	18.53	171.7	4	14	2	7	53	20	5	0	PP
MAKHACH-KALA	19.02	295.7							4	34	PP
KIROVOBAD	19.60	288.6	4	23	-1				8	20	
GORIS	19.60	285.0	4	25	1	7	55	0	8	44	PCP
YUMEN	20.50	72.7	4	34	1						
HYDERABAD	20.52	159.6	4	32K	-1	8	23	9	4	59	PP
HOWRAH	20.69	129.2	4	35	0	8	22	5			
CALCUTTA	20.72	129.2	4	45K	9	8	24	7			
TIFLIS	20.84	291.3	4	38	1	8	28	8	8	53	PCP
SHILLONG	21.04	116.8	4	39K	0	8	24	1	8	57	*SS
SVERDLOVSK	21.07	343.9	4	37	-2						
TOCKLAI	22.49	110.2	4	53	0						
CHITTAGONG	23.09	123.3	5	0K	1				5	31	PP
SOTCHI	24.73	295.3	5	45	30				6	48	
LANCHOW	26.25	82.0	5	30	1	9	54	0			
IRKUTSK	27.86	46.1	5	43A	-1				6	12	
ULAN-BATOR	28.36	55.9	5	49	1	11	28	60			
KYAKHTA	28.58	50.8	5	48A	-2				6	18	
KSARA	28.77	274.3	6	13	21	11	8	34	7	8	PP
SIMFEROPOL	28.84	297.7	5	53	1				6	13	
KABANSK	29.15	47.5	5	54A	-1				6	24	
MOSCOW	29.34	320.5	5	56	-1				6	53	PP
KUNMING	29.43	104.8	5	58	0	10	45	0			
ISTANBUL KA.	32.67	290.4	6	23	-3						
IASI	33.49	301.7	6	47	14				8	39	
HELWAN	33.75	269.7	6	55	19				7	56	
PULKOVO	34.57	324.4							8	31	PPP
LWOW	35.95	306.1							7	9	
ATHENS	37.29	286.3	7	5K	-1						
KRAKOW	38.59	306.4	7	23	7				8	56	PP
NANKING	39.30	82.7	7	21	-1						
RACIBORZ	39.71	306.5	6	21	-65				6	51	
BRATISLAVA	40.53	303.6	7	30	-2				8	27	PP
UPPSALA	40.74	321.6	7	33	-1				7	53	
CHANGCHUN	41.23	63.0	7	37	-1						
ZO-SE	41.54	82.9	7	40	-1						
KIRUNA	41.69	333.8	7	42A	0						
PRUHONICE	42.06	306.5	7	46	1				8	5	9 54 PP
PRAGUE	42.14	306.6	7	50	4						9 55 PP
COLLMBERG	42.96	308.6	7	52	0						9 51
PLAUEN	43.56	307.4	8	35	38						9 55
HALLE	43.60	308.9	7	57	-1						9 52 PP
SKALSTUGAN	43.85	326.5	7	59	-1						10 9 PP
JENA	43.88	308.1	8	0	0	14	45	20			9 29 PP
TIKSI	45.31	22.2	8	10	-1	14	42	-3			9 59 PP
STUTTGART	45.68	305.3	8	14	0						10 0 PP
TUBINGEN	45.80	305.0	8	15	0						
EBINGEN	45.93	304.6	8	17	1						9 34
KARLSRUHE	46.15	305.8	8	19	1						9 44
MUNSTER	46.23	310.0	8	20	1						
BENSBERG	46.64	308.6	8	45	23						9 6
STRASBOURG	46.64	305.3	8	22	0						
BASLE	46.97	303.9	8	23K	-1						
NEUCHATEL	47.49	303.3	8	28	0						
GARCHY	50.01	304.5	8	47	-1						10 34
KEW	51.18	310.5	8	56	-1						
MATUSIRO	52.72	68.8	9	6A	-2						9 30
ALGIERS UNI.	53.32	291.8	9	31	18						11 19
NORD	53.35	349.4	9	12	-1						
TUKUBASAN	54.25	68.5	9	17A	-3	16	48	-1			
RELIZANE	55.57	291.6	9	19	-10	16	56	-11			11 21 PP
TOLEDO	57.28	297.9	9	40	-1						11 28 PP
TAMANRASSET	57.57	275.4	9	44	1	17	20	-13			
TANANARIVE	59.86	205.9	9	59	0						10 29
RESOLUTE	68.24	356.0	10	52A	-2	19	46	-1			
COLLEGE	74.02	16.2	11	28	0						
PIETERMZBURG	76.45	215.7	11	38K	-4						
KIMBERLEY	78.51	220.4	11	54K	0						
GRAHAMSTOWN	81.33	216.4	12	8	-1						

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SEVEN FALLS	89.61	335.1	12 51A	1	
SHAWINIGAN	90.75	336.0	12 56K	1	
BREBEUF	91.95	336.0	13 33A	32	
BANFF	92.04	4.2	13 1A	0	
OTTAWA	92.71	337.3	13 11	7	13 33
HORSESHOE B.	93.09	9.3	13 6A	0	
VICTORIA	93.91	9.6	13 10	1	
HUNGRY HORSE	94.94	3.4	13 14	0	17 21 PP
BUTTE	97.32	2.6	13 25	0	
BOZEMAN	97.72	1.5	13 28	1	
RAPID CITY	99.16	355.8	13 34	1	17 36 PP
MINERAL	102.18	9.9	16 59	192	
EUREKA	103.65	5.6	13 56	3	
FAYETTEVILLE	106.04	347.6	18 14	777	
SOUTH POLE	126.78	180.0	18 53	-1	
LAPE HALLETT	127.54	157.6			30 34 PKKP
BYRD STATION	136.63	177.3	19 20	7	22 40 PP
HUANCAYO	140.98	300.7	19 21	0	22 55 PKS

JANUARY 6 11.H 24.M 11.S EPICENTRE 25.64 96.79 DEPTH= 0.KM

A=-0.10674 B= 0.89631 C= 0.43039 D= 0.9930 E= 0.1183
G=-0.0509 H= 0.4274 K=-0.9026 HT= 3.2

SF= 3.09

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
TOCKLAI	2.12	301.7	0 47	10	1 27	22		
SHILLONG	4.44	270.1	1 9K	-1	2 6	2		1 28 PG
KUNMING	5.36	95.1	1 25K	2	2 31	4		1 47 PG
CHITTAGONG	5.60	235.3	1 26	-1				
LHASA	6.47	309.3	1 39	0	2 54	-1		3 34 SG
CALCUTTA	8.32	249.9	2 10	5	3 56	15		
BOKARO	10.15	262.1	2 26	-4	5 38	72		3 3
PHU-LIEN	10.25	116.0	2 28	-4	5 18	49		
LANCHOW	12.02	28.4	2 53	-3				
AGRA	16.89	279.2	3 55A	-5	6 47	-20		7 33
DEHRA DUN	17.19	290.0	4 8	5				7 0
NHATRANG	17.76	136.4	4 13	2				7 49 SS
HYDERABAD	18.90	248.0	4 24K	-1	7 58	5		8 48 SS
TATUNG	19.94	39.7	4 38	1				
MADRAS	20.07	234.3	4 37K	-1	8 25	6		5 0 PP
NANKING	20.29	66.6	4 40K	0	8 27	4		
LAHORE	20.57	291.8	4 41	-2	8 16	-13		
PEKING	21.64	43.7	4 53	-1	8 50	0		
ZO-SE	22.12	70.2	4 58K	-1	9 1	2		
POONA	22.39	256.2	5 1	-1	9 5	2		5 21 PP
BOMBAY	23.16	258.0	5 10	1	9 22	5		5 33 PP
WARSAK DAM	23.39	296.8	5 12	1	9 24	3		
ULAN-BATOR	23.62	17.1	5 16	2				
BAGUIO CITY	23.99	107.8	5 25	8				
QUETTA	26.72	286.6	5 42K	-1	10 15	-3		
KARACHI	26.78	276.9	5 42	-2				
IRKUTSK	27.20	10.1	5 47	0				
SEMIPALATNSK	27.81	337.0	5 53	0	10 53	18		
CHANGCHUN	29.42	44.7	6 4	-4				
MATUSIRO	36.85	62.7	7 10K	-2				15 45
TUKUBASAN	38.34	63.4	7 22K	-3				9 40
TIFLIS	45.46	304.1	8 24	1				
TIKSI	49.41	12.8	8 50	-4				
MOSCOW	51.93	321.9	9 24	11				
KSARA	52.86	294.1	9 22	2				
SIMFEROPOL	53.32	308.1	9 30	7				
TRUK	55.37	98.9	9 40	2				
APATITY	56.44	335.7	9 49	3				
ISTANBUL KA.	57.29	303.7	9 52	0				
HELWAN	57.39	290.3	9 52K	-1				10 2
KRAKOW	62.53	315.0	10 32	4				11 7 PCP
UPPSALA	62.79	326.1	10 26	-4				
BRATISLAVA	64.67	313.2	10 39	-3				
SKALSTUGAN	64.94	330.6	10 43	-1				
TANANARIVE	65.22	232.2	10 42	-4				11 29
PRUHONICE	65.96	315.5	10 51	1				13 17 PP
PRAGUE	66.02	315.7	10 53	2				13 31 PP
CHARTERS TS.	66.09	128.6	10 51	0				
COLLMBERG	66.65	317.2	10 55	0				

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JENA	67.61	317.0	11 1	0					11 57	
STUTTGART	69.65	315.2	11 10	-3						
LWIRO	71.26	258.0	11 21	-2						
PARIS	73.85	316.7	11 48	9					12 31	
GARCHY	74.02	315.0	11 42	2						
BRISBANE	75.63	130.3	11 50	1					23 0	
COLLEGE	77.06	23.3	11 54	-3					12 15	
RESOLUTE	79.64	3.1	12 7	-4	22 1	-12				
TAMANRASSET	81.54	291.1	12 20	-1					15 27	PP
HUNGRY HORSE	101.33	20.4	13 54	-1					17 58	PP
EUREKA	108.36	26.2							18 55	PP
SOUTH POLE	115.49	180.0	18 42	-2						
BYRD STATION	123.41	172.9	19 1	1						
HUANCAYO	164.57	329.7	21 6	60						

JANUARY 7 6.H 5.M 9.S EPICENTRE 38.86 70.30 DEPTH= 0.KM

A= 0.26320 B= 0.73509 C= 0.62480 D= 0.9415 E=-0.3371
G= 0.2106 H= 0.5882 K=-0.7808 HT= -1.3

SE= 1.92

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S	
GARM	0.14	0.0						0 3	PG
TABIL-DARA	0.23	141.2						0 6	PG
YALMICH	0.24	28.7						0 4	PG
OBI-GARM	0.49	251.8						0 11	PG
DZHAFIR	0.76	71.1						0 6	PG
DZHERGETAL	0.80	62.8						0 15	PG
KULYAB	1.04	203.3						0 23	PG
KARA-SU	1.10	250.4						0 24	PG
STALINABAD	1.24	256.2						0 24	PG
KHOROG	1.71	142.9	0 33	2				1 0	SG
FERGANA	1.90	36.4	0 34	0				1 6	SG
NAMANGAN	2.37	26.0	0 43	2				1 17	SG
ANDIJAN	2.47	39.5	0 45	3				1 21	SG
TASHKENT	2.58	342.7	0 45	1				1 20	SG
SAMARKAND	2.70	288.5	0 49	3				1 27	SG
MURGAB	2.88	98.6						0 56	PG
TCHIMKENT	3.48	351.4	0 59	2				1 44	SG
WARSAK DAM	4.95	167.9	1 19	2	7 29	13			
NARYN	5.07	57.7	1 19	0				2 29	SG
FRUNSE	5.17	37.5	1 23	2				2 28	SG
RYBACHE	5.67	48.9	1 30	2	2 18	-17		2 40	
FABRICHNAYA	6.32	44.9	1 38	1					
BAIRAM-ALI	6.56	261.5	1 39	-1	2 44	-13		2 17	
ALMATA	6.68	46.6	1 43	1				3 27	SG
ALMATA-2	6.93	48.2	1 45	0				2 1	
PRZHEVALSK	7.14	57.0	1 48	0					
IL'	7.20	42.9	1 49	0	3 43	30		2 4	
KURMENTY	7.35	52.7	1 50	-1					
CHILIK	7.72	49.8	1 58	2				2 15	
LAHORE	8.00	154.5	2 2	2				2 38	PG
QUETTA	9.08	198.7	2 15	0	4 1	1			
ASHKABAD	9.43	268.2	2 18	-2	4 4	-4		3 32	
DEHRA DUN	10.64	140.8	2 38	1	4 30	-8		4 51	SS
KIZYL-ARVAT	10.93	275.3	2 38	-3	4 35	-10		3 23	
KARACHI	13.28	192.9	3 28	16	6 19	37			
AGRA	13.36	148.8	3 11A	-3				5 31	
SEMIPALATNSK	13.53	28.2	3 12	-4	5 45	-3			
BAKU	15.80	282.0						6 57	SS
MAKHACH-KALA	17.70	290.7	4 10	0				7 33	SS
KIROVOBAD	18.48	283.4	4 19	0				7 51	
GORIS	18.59	279.6	4 19	-2				7 49	
SVERDLOVSK	19.08	343.6	4 24	-3					
LHASA	19.42	112.0	4 30	0	8 4	0		4 48	PP
TIFLIS	19.64	286.5	4 35	2	8 16	7		18 52	SCS
BOMBAY	20.01	173.0	4 37	0	8 24	7		8 57	SS
SHILLONG	22.48	119.7	5 0	-2					
HYDERABAD	22.50	159.3	5 3	0					
SOTCHI	23.41	291.5	5 15	4				9 38	
LANCHOW	26.67	85.4	5 46	4	10 39	22			
IRKUTSK	27.05	49.1	5 44A	-2				6 20	
MADRAS	27.20	158.5			10 12	-13		14 16	
YALTA	27.43	293.5	5 51	2					

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SIMFEROPOL	27.45	294.6	5	51	1	10	33	4		
MOSCC	27.50	318.6	5	50	0				6	35 PP
ULAN-BA.OR	27.88	59.1	5	51	-2					
KSARA	28.07	270.4	6	1	6	10	54	15	12	54 PCS
KABANSK	28.39	50.3	5	55	-3					
KODAIKANAL	29.22	165.4							12	24
KUNMING	30.55	107.1	6	18	1	11	22	3		
ISTANBUL KA.	31.47	287.4	6	22	-4					
IASI	31.99	299.2	6	26	-4				9	14
PULKOVO	32.69	323.0	6	36	0	11	54	2	8	3 PPP
HELWAN	33.19	266.3	6	41	0				6	56 PP
LWOW	34.36	304.0	6	52	1				15	21 SSS
ATHENS	36.20	283.6	7	5A	-1					
KRAKOW	37.00	304.4	7	12	-1				8	34 PP
RACIBORZ	38.11	304.5	6	51	-31				13	51
UPPSALA	38.89	320.3	7	29	0				8	53 PP
KIRUNA	39.73	333.0	7	34	-2				9	8 PP
PRUHONICE	40.46	304.7	7	42	0	13	42	-9	9	19 PP
PRAGUE	40.53	304.8	7	44	1				9	18 PP
TRIESTE	41.65	298.3	7	51	-1				9	21 PP
SKALSTUGAN	41.95	325.4	7	55	1				9	31 PP
JENA	42.24	306.4	7	57	0	14	36	18	9	25 PP
T'KSI	3.81	23.0	8	8	-1	14	42	1	9	53 PP
STUTTGART	44.10	303.7	8	13	1					
MUNSTER	44.56	308.4	8	17	2					
STRASBOURG	45.06	303.7	8	21A	2					
KEW	49.49	309.1	8	55	1					
NORD	51.39	349.2	9	7	-2					
RATHFARNHAM	52.52	312.6	9	17	0					
MATUSIRO	52.64	69.8	9	15	-3					
TUKUBASAN	54.16	69.4	9	25	-4					
RELIZANE	54.32	290.0	9	32A	2				11	37 PP
ASTRIDA	55.64	231.9	9	42	2					
LWIRO	55.95	233.0	9	44A	2					
UVIRA	56.71	231.8	9	48	0					
GRANADA	56.71	293.4	9	24K	-24					
TANANARIVE	61.30	204.7	10	19	-1					
RESOLUTE	66.32	355.7	10	50A	-3					
COLLEGE	72.38	16.1	11	28	-2				14	14 PP
KIMBERLEY	79.55	219.6	12	9	-1					
SEVEN FALLS	87.64	334.6	12	52	0					
SHAWINIGAN	88.77	335.5	12	57K	0					
HUNGRY HORSE	93.09	2.9	13	17	0				16	46 PP
BUTTE	95.47	2.0	13	27	-1					
SOUTH POLE	128.67	180.0	19	9	-1				22	28 PP
BYRD STATION	138.54	177.4	19	24	-4					
HUANCAYO	139.47	301.8	19	35	5					

JANUARY 9 11.H 14.M 3.S EPICENTRE -5.54 147.14 DEPTH= 175.KM

DEPTH OF FOCUS= 0.022R

A=-0.83616 B= 0.54005 C=-0.09583 D= 0.5425 E= 0.8400
G= 0.0805 H=-0.0520 K=-0.9954 HT= 7.0

SE= 1.12

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
PORT MORESBY	3.84	179.9	1	0	0								
RABAUL	5.18	75.4	1	17	0	2	11	-6					
MADANG	10.78	352.8	0	35	-115								
TRUK	13.75	20.0	3	7	-1	5	31	-6					
KOROR	17.97	315.2	4	0	1								
GUAM	19.03	352.8	4	11	0	7	31	-1			4	50	PP
BRISBANE	22.53	166.2	4	46A	1	8	41	5					
NOUMEA	25.02	133.6	5	9K	0								
RIVERVIEW	28.40	173.0	5	36	-4	10	15	3					
MELBOURNE	32.20	183.2	6	13	0								
KYOTO	41.75	345.9	7	33K	0								
TUKUBASAN	42.06	351.5	7	35K	-1						9	28	
CORB RIVER	42.15	150.9	7	38	2								
TONGARIRO	42.20	146.6	7	38	1								
MATUSIRO	42.69	349.4	7	41K	0	13	48	-2	8	19	13	1	SCP
ZO-SE	44.08	327.3	7	52K	0	14	10	0			8	31	*SP
GEBBIES PASS	44.15	153.4	7	52	-1								
NANKING	46.10	326.0	8	9	1	14	42	3			8	51	*SP

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CHENGTU	54.74	313.8	9	13	0	16	11	-27			9	55 *SP
LANCHOW	57.97	319.0	9	37	1	17	22	1			10	7 *SP
HONOLULU	59.93	61.6	9	48	-2							
SHILLONG	61.90	302.7	10	0A	-3							
LHASA	64.14	306.6	10	19	1	18	39	0			11	2 *SP
SCOTT BASE	73.01	175.7	11	14	2							
SOUTH POLE	84.50	180.0	12	13	-1	22	17	-7	12	46	13	12 *SP
COLLEGE	84.68	22.9	12	14	-1				13	1		
BYRD STATION	85.17	169.9	12	17	0	22	10	-21	13	8	15	37 PP
BERKELEY	93.83	52.5	12	59	1							
HORSESHOE B.	93.88	40.9	12	59K	1							
SHASTA	93.92	49.6	12	59K	0							
LICK	94.29	53.0	13	1A	1							
MINERAL	94.50	50.0	13	1A	0							
FRESNO	95.72	53.7	13	6	-1							
RENO	95.84	50.9	13	8	1							
PASADENA	96.95	56.4	13	13	1							
EUREKA	98.80	51.0	13	21	0						17	24 PP
BANFF	98.87	39.2	13	21	0							
HUNGRY HORSE	99.98	42.0	13	26	0						17	29 PP
RESOLUTE	102.50	13.9									32	17 SS
OTTAWA	125.60	36.1	18	41K	1							
SHAWINIGAN	126.60	33.5	18	42	0							
SEVEN FALLS	127.29	31.9	18	44	0							
HUANCAYO	134.30	112.6	19	1	4						22	13 SKP
TAMANRASSET	139.21	298.7	19	8	2						22	51 PKS
SAN JUAN	145.13	65.6	19	15	-2							
ANTIGUA	150.07	65.3	19	29	5							
TRINIDAD	151.18	78.0	19	34	8							

JANUARY 9 17.H 39.M 26.S EPICENTRE 44.83 84.95 DEPTH= 0.KM

A= 0.06265 B= 0.70882 C= 0.70260 D= 0.9961 E=-0.0880
G= 0.0619 H= 0.6999 K=-0.7116 HT= -3.5

SE= 2.17

	DELTA DEG.	AZ. DEG.	P M	S	O-C S	S M	S	O-C S	*PP M	S	SUPP. M	S
CHILIK	4.86	257.3	1	20	4						1	43
KURMENTY	5.13	252.1	1	23	3						1	46
PRZHEVALSK	5.30	246.0	1	25	3						1	50
ALMATA-2	5.68	256.7	1	30	2						3	4
ALMATA	5.97	257.7	1	34	2						1	56
FABR'CHNAYA	6.38	258.0	1	39	1						3	26
SEM'PALATNSK	6.41	332.0	1	39	1	2	52	-1				
RYBACHE	6.86	252.8	1	46	2						2	24
NARYN	7.37	245.7	1	53	1						3	53
FRUNSE	7.74	259.1	1	58	1						4	16
YUMEN	9.99	112.7	2	24	-4							
ANDIJAN	10.10	250.6	2	31	2						3	20
NAMANGAN	10.47	253.1	2	35	0						3	47
FERGANA	10.67	250.0	2	36	-1							
TCHIMKENT	11.42	262.6	2	49	2	5	0	3			6	1
DZHERGETAL	11.64	246.0	2	51	0							
TASHKENT	11.98	258.5	2	56	1						6	16
KHOROG	12.44	238.5	3	2	1							
KULYAB	13.32	244.0	3	11	-2	5	43	0				
STALINABAD	13.61	248.2	3	15	-2						5	58
SAMARKAND	14.27	255.1	3	25	0	6	8	2				
IRKUTSK	14.80	52.9	3	33K	1	6	20	2				
WARSAK DAM	14.95	228.3	3	31	-3							
ULAN-BATOR	15.45	70.7	3	50	9	6	44	10				
DEHRA DUN	15.47	202.9	3	41	0	6	27	-7			6	46 SS
KYAKHTA	15.50	61.4	3	41K	-1							
LAHORE	15.65	215.7	3	39A	-4	6	27	-11				
LHASA	15.91	160.3	3	48A	1	6	44	0			15	55 SCS
KABANSK	16.07	55.6	3	48K	-1							
LANCHOW	16.78	114.9	3	57	-1	7	0	-5				
YINCHUAN	17.13	104.3	4	6	4							
AGRA	18.52	199.8	4	15K	-5	7	43	-1			4	55
SVERDLOVSK	19.37	317.0	4	29	-1							
SHILLONG	20.02	161.5	4	34A	-3	8	16	-1				
QUETTA	20.37	230.2	4	40A	-1	8	25	0				
CHENGTU	20.60	126.9	4	42A	-1	8	25	-4				
BOKARO	20.96	177.8	4	47	0	8	39	2	4	56	5	28 PPP

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ASHKABAD	21.05	260.2	4	47A	-1						
TATUNG	21.37	92.8	4	57	6						
TAIYUAN	21.85	99.1	4	58	2						
LINFEN	21.94	104.2	5	2	5						
HOWRAH	22.39	171.8	5	5	4	9	19	16			
CALCUTTA	22.42	171.8	5	2A	0	9	4	0	9	30	SS
CHITTAGONG	23.11	163.6	5	7	-2						
PEKING	23.46	90.8	5	13	1	9	22	0			
KARACHI	23.84	223.3	5	25A	9	9	53	24			
KUNMING	24.41	138.1	5	20	-1						
BOMBAY	27.76	205.3	5	52	0				11	49	
POONA	27.81	203.0	5	53	0	10	34	-1	11	55	SS
HYDERABAD	27.86	193.4	5	56	3	10	37	1			
CHANGCHUN	28.69	77.5	6	6	5						
GORIS	28.92	273.1	6	3	0				7	14	PPP
TIFLIS	29.19	278.2	6	6	1				7	13	PP
NANKING	29.21	104.2	6	5	0	10	54	-4			
PHU-LIEN	29.92	136.1	6	9	-3				18	18	
ZO-SE	31.41	103.4	6	23	-2	11	26	-6			
MOSCOW	31.54	307.3	6	26	0						
CANTON	31.72	123.8				11	33	-4			
MADRAS	31.98	188.8	6	28	-2	11	40	-1	7	36	PP
PORT BLAIR	33.71	166.2				12	8	0			
TIKSI	34.02	23.1	6	46	-2	12	9	-4	8	2	PP
KODAIKANAL	35.07	192.9							14	24	
PULKOVO	35.47	314.7	7	2	2				17	2	SCS
SIMFEROPOL	35.52	288.7	7	1	0	12	34	-2			
UGLEGORSK	38.43	62.7	7	24	-1						
NHATRANG	38.56	139.9	7	32K	6	13	33	10			
IASI	39.15	294.5	7	31	0				9	3	
KIRUNA	39.98	327.8	7	38A	0						
ISTANBUL KA.	40.39	285.0	7	42	1						
JERUSALEM	40.54	268.8	7	44	1						
LWOW	40.60	299.6	7	45	2						
MATUSIRO	40.60	82.6	7	41	-2						
BAGUIO CITY	41.20	121.9	7	48	0						
UPPSALA	41.84	315.7	7	53A	0						
TUKUBASAN	42.09	81.9	7	53K	-2						
MEDAN	42.82	159.6	8	0K	-1				9	41	PP
MANILA	42.87	123.2	8	0	-2				9	57	
KRAKOW	43.04	301.1	8	4	1				10	46	
SKALNATE PL.	43.14	299.8	8	4	0				9	26	
SOFIA	43.61	289.9	8	9	1				10	14	
SKALSTUGAN	43.68	321.8	8	8A	0				9	40	PP
RAC'BORZ	44.08	301.7	8	10	-2				10	1	PCP
HELWAN	44.38	269.2	8	14	0						
BELGRADE	44.63	293.9	8	15A	-1						
BRATISLAVA	45.45	299.5	8	25A	2				10	9	PP
ATHENS	45.48	283.7	8	22A	-1				9	55	PCP
PRUHONICE	46.32	302.8	8	30	1	14	58	-19	10	17	PP
PRAGUE	46.35	302.9	8	31	1				10	23	PP
COLLMBERG	46.74	305.0	8	33	0				10	17	
HALLE	47.28	305.5	8	37	0	15	30	0	10	26	PP
PLAUEN	47.54	304.2	8	37	-2				10	37	
CHEB	47.57	303.6	8	42	3				10	30	PP
NORD	47.63	348.8	8	39	-1						
BERGEN	47.67	318.7	8	39	-1				10	23	PP
JENA	47.71	304.9	8	36	-4				10	24	PP
TRIESTE	48.58	297.7	8	47	0						
TARANTO	48.68	290.0	8	40	-8						
MUNSTER	49.57	307.5	8	56	1						
STUTTGART	50.00	303.2	8	58A	0				11	31	PP
TUBINGEN	50.19	302.9	8	59	0						
RAVENSBURG	50.19	301.9	9	1	2						
KARLSRUHE	50.37	303.7	9	1A	0				9	52	
EBINGEN	50.40	302.6	9	1	0				10	58	
REGGIO CALA.	50.94	288.1	9	5	0						
STRASBOURG	50.94	303.5	9	6A	1				10	20	
FLORENCE X.	51.02	296.6	8	48	-18				9	20	
ROME	51.14	293.9	9	5	-2	16	24	0	20	9	SS
BASLE	51.53	302.4	9	10A	0						
NEUCHATEL	52.16	302.0	9	13	-1						
SCORESBY SD	53.69	336.5	9	26K	0						
KEW	54.20	309.8	9	29	-1	17	8	2			
RATHFARNHAM	56.44	313.9	9	45A	-1				12	55	
KOROR	56.83	115.6	9	55	6						
ALGIERS UNI.	60.05	293.4	10	9A	-2	18	25	2	13	51	PPP
RESOLUTE	60.78	360.0	10	14A	-2	18	41	8	23	14	SS

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RELIZANE	62.28	293.9	10	26A	0					
TOLEDO	62.72	300.0	10	24A	-5				12	41 PP
COLLEGE	63.16	22.4	10	30	-2				11	49
GRANADA	64.08	297.4	10	41A	3					
SERRA PILAR	64.72	303.5	10	42A	0				13	6 PP
MALAGA	64.86	297.4	10	39A	-4				13	5 PP
LISBON	66.55	301.7	10	54A	0					
TAMANRASSET	66.99	279.7	10	56A	-1	20	7	17	13	25 PP
ASTRIDA	68.05	242.2	11	4A	1					
LWIRO	68.37	243.2	11	4A	-1				13	3 PP
TRUK	68.43	101.3	11	4	-2					
UVIRA	69.11	242.1	11	8	-2					
TANANARIVE	72.02	217.2	11	26K	-2				12	12
RABAUL	77.11	109.4	11	56	-1					
BANFF	82.75	12.8	12	25A	-2					
SEATTLE	84.84	18.1	12	39	1					
HUNGRY HORSE	85.72	12.6	12	41	-1				38	48 PKPPKP
SEVEN FALLS	85.98	343.7	12	43A	0					
SHAWINIGAN	86.90	344.8	12	48A	0					
CORVALLIS	87.51	19.8	12	52K	1					
BREBEUF	88.07	345.1	12	53A	-1					
OTTAWA	88.54	346.5	12	55A	-1					
BOZEMAN	88.78	11.1	12	57	0					
PIETERMZBURG	89.20	225.2	12	59	0					
ARCATA	90.79	21.6	12	55	-11					
RAPID CITY	91.18	5.9	13	8	0					
SHASTA	91.39	20.4	13	9A	0					
KIMBERLEY	91.45	229.6	13	7	-2					
MINERAL	91.91	20.0	13	15A	3					
PALISADES	92.46	344.1	13	13	-1					
UKIAH	92.65	21.6	13	16	1					
RENO	93.11	18.9	13	18	1					
EUREKA	93.99	16.1	13	22	1				38	32 PKPPKP
MORGANTOWN	94.83	348.4	13	25K	0					
FRESNO	95.75	19.7	13	29	0					
BOULDER CITY	97.59	16.1	13	37	-1					
PASADENA	98.64	19.2	13	43	1					
CAPE HALLETT	130.64	156.3							22	35 PP
SOUTH POLE	134.64	180.0	19	6	-15					
HALLEY BAY	138.22	200.6	19	26	-1				22	11 PP
HUANCAYO	143.23	326.5	19	36	0					
BYRD STATION	143.59	173.0	19	33	-4					
LA PLATA	150.06	276.3							38	59 SKSP

JANUARY 11 13.H 19.M 6.S EPICENTRE -23.72-177.31 DEPTH= 147.KM

DEPTH OF FOCUS= 0.018R

A=-0.91550 B=-0.04303 C=-0.40000 D=-0.0469 E= 0.9989
G= 0.3996 H= 0.0188 K=-0.9165 HT= 3.7

SE= 2.41

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
SUVA	6.82	323.5	1	46K	7	3	6	10					
APIA	11.17	28.9	2	31	-5	4	25	-14					
ONERAHI	14.01	209.1	3	17	4	6	1	16			15	17	SCS
KARAPIRO	15.42	201.8	3	33	2	6	27	9			4	4	PP
TONGARIRO	16.59	199.8	3	42	-3	6	39	-8			4	21	PP
WELLINGTON	18.72	198.9	4	7	-3	7	19	-11			4	48	PP
KAIMATA	20.95	203.8	4	32	-1	8	4	-9					
GEBBIES PASS	21.58	200.1	4	36	-3	8	18	-6			15	38	SCS
BRISBANE	26.98	255.7	5	30	0	6	51	-184					
RIVERVIEW	29.32	242.8	5	50K	-1	10	27	-5					
CHARTERS TS.	33.95	269.1	6	31K	0	11	35	-9					
MELBOURNE	35.08	237.5	6	41K	0	12	16	14			8	1	PP
RABAUL	35.26	298.7	6	40	-2						8	20	PP
PORT MORESBY	36.79	286.7	6	57	2	12	22	-6	7	23	9	20	PCP
TRUK	43.23	312.1	7	48	0								
HONOLULU	48.50	24.2	8	30	0								
KIPAPA	48.64	24.2	8	30	-1								
CAPE HALLETT	49.11	185.0	8	36A	1	15	31	4			10	36	PP
GUAM	52.37	310.9	8	59	0	16	1	-11			10	11	PCP
SCOTT BASE	54.72	184.1	9	17K	1	16	52	9			11	19	PP
KOROR	56.28	297.2	9	28	0						10	16	PCP
PERTH	58.88	245.9	9	46	0						10	28	PCP

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WILKES	61.35	206.1	10	OK	-3	18	1	-9					
BYRD STATION	61.37	170.3	9	54	-9	18	11	1			10	43	PCP
SOUTH POLE	66.42	180.0	10	35	-1	19	15	3			13	2	PP
MANILA	71.31	295.8	11	4	-2								
NUMADU	71.76	323.3	11	15	7						12	56	PP
TUKUBASAN	71.92	324.9	11	9A	0						21	35	SCS
BAGUIO CITY	72.60	297.3	11	11	-2	20	16	-8					
MATUSIRO	73.17	323.9	11	14A	-3	20	16	-15	12	0	21	47	*SS
KYOTO	73.45	321.3	11	17A	-1								
DJAKARTA	74.61	269.9	11	22A	-3	20	37	-10					
NAGASAKI	75.42	316.1	11	25	-4						15	52	
HALLEY BAY	79.28	172.8	12	9	18						23	8	PS
BERKELEY	80.15	41.2	11	56A	1								
L'CK	80.19	41.9	11	56A	0								
ZO-SE	80.25	310.1	11	55	-1	21	43	-4			21	52	SKS
PASADENA	80.42	46.2	11	56	-1	21	54	5			26	44	SS
FRESNO	80.97	43.3	12	0	0								
CANTON	81.90	299.5	12	6	1	22	2	-2			12	53	
SHASTA	81.91	38.9	12	5A	0								
MINERAL	82.15	39.6	12	5A	-1								
NANKING	82.46	309.7	12	8	1	22	8	-2			23	12	
RENO	82.69	41.1	12	9A	0								
BOULDER CITY	83.71	46.4	12	14	0						12	43	
CORVALLIS	83.97	35.6	12	16	1								
TUCSON	84.40	51.3	12	19	2	22	26	-3			30	29	PKKP
EUREKA	85.01	43.0	12	19	-1						38	35	PKPPKP
CHANGCHUN	85.32	322.3	12	21	-1						13	11	
KERGUELEN I.	85.87	217.2	12	25	1								
MEDAN	85.95	275.7	12	34A	9	22	30	-14					
PHU-LIEN	86.25	294.5	12	28	2						13	16	
ALBERNI	86.37	31.4	12	27	0								
SEATTLE	86.52	33.7	12	28A	0								
VICTORIA	86.54	32.6	12	28	0								
HORSESHOE B.	87.19	32.0	12	42A	11	23	8	12					
TACUBAYA	87.35	67.6	12	37	5						15	59	PP
SITKA	87.86	21.5	12	34	0								
SALT LAKE C.	88.34	43.7	12	36	0								
PEKING	88.62	315.2	12	38	0	23	10	1			13	26	
BUTTE	90.82	39.1	12	47	-1						16	24	PP
COLLEGE	91.20	12.1	12	48	-2	23	30	-3			24	54	PS
HUNGRY HORSE	91.32	36.6	12	49	-1						16	24	PP
KUNMING	91.39	296.7	12	52	1	23	34	0			13	41	
BOZEMAN	91.52	39.9	12	51	0						13	44	
LUBBOCK	91.61	53.9	12	51	-1								
BANFF	92.17	33.7	12	53A	-1								
BOULDER	92.23	47.0	12	54	0								
LARAMIE	92.67	45.7	12	58	2								
CHENGTU	92.75	302.2	12	58	1	23	46	0			24	53	
PORT BLAIR	94.58	280.7	14	0	55						23	21	
LANCHOW	95.23	307.0	13	8	0	23	45	-22			13	57	
RAPID CITY	95.53	44.1	13	9	0						30	1	PKKP
HUANCAYO	95.92	105.8	13	14	3	24	30	17			17	9	PP
ULAN-BATOR	98.32	318.8									23	46	
FAYETTEVILLE	98.37	54.4	13	23	1								
TOCKLAI	98.59	295.3									23	43	
LA PAZ	100.13	113.0	13	34	4	24	52	3			17	38	PP
SHILLONG	100.58	293.3	13	30	-2						23	49	
IRKUTSK	101.66	322.1									18	9	PP
TIKSI	101.99	344.8	13	32	-7	24	3	0			24	33	SKKS
CALCUTTA	102.51	289.2	19	0	319						24	2	
MADRAS	106.43	277.2									17	34	
COLUMBIA	107.81	60.2	14	28	777								
RESOLUTE	110.70	16.4	18	11	-4						20	4	PP
DEHRA DUN	113.66	294.0				24	48	2			19	29	PP
PALISADES	114.97	54.3				24	51	-7			19	21	PP
BOMBAY	115.07	280.6	18	27	3	24	54	-4					
SEM'PALATNSK	115.70	316.1	18	25	0								
SHAW'NIGAN	116.63	48.4	18	30	3						29	0	PKKP
LAHORE	117.05	294.5	18	28	0	25	2	-3			19	36	PP
SEVEN FALLS	118.02	47.9	18	28A	-1						28	54	PKKP
GRAHAMSTOWN	118.88	202.8	18	31A	0								
TANANARIVE	119.08	229.8	18	31	-1						21	52	PKS
WARSAK DAM	119.82	296.7	18	32	-1								
BERMUDA	120.77	65.4				25	24	6			20	10	PP
NORD	121.52	3.3	18	35	-1								
STALINABAD	122.66	301.6	18	40	2								
QUETTA	123.01	291.5	18	40	1	25	27	2			20	20	PP
KIMBERLEY	123.66	203.4	18	42K	2								

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SVERDLOVSK	126.98	324.3	18 40	-7			
ASHKABAD	130.82	300.4	18 54A	0		21 57	
SCORESBY SD.	131.05	10.7				21 10	PP
APATITY	132.21	344.6	18 56	-1			
KIRUNA	134.54	350.7	18 59	-2		22 15	PKS
MOSCOW	139.01	330.4	19 2	-7			
PULKOVO	139.10	339.0				22 46	PKS
SKALSTUGAN	139.64	353.4	19 3	-7		22 35	PKS
GORIS	140.05	303.7	19 8	-3			
T'FLIS	140.73	307.5	19 7	-6		22 33	PKS
UPPSALA	142.40	347.7	19 10K	-6		22 42	PKS
SIMFEROPOL	146.82	317.4	19 25A	2		20 15	
DURHAM	148.83	4.8	19 37K	11			
LWOW	149.06	332.7	19 31	4			
IASI	149.27	325.9	19 31	4		20 2	
KSARA	149.33	296.7	19 29	2	26 39 21	23 7	PKS
RATHFARNHAM	149.69	10.7	19 33A	5		19 41	PKP2
KRAKOW	150.47	337.2	19 53	24		21 20	
WITTEVEEN	150.79	355.0	19 35A	6			
RACIBORZ	151.03	339.2	19 30	1		19 47	PKP2
SKALNATE PL.	151.07	335.8	19 35	5			
COLLMBERG	151.34	346.5	19 30	0	24 5-136	20 28	PKP2
HALLE	151.36	347.9	19 30	0		19 37	PKP2
MUNSTER	151.54	353.6	19 31	1		19 46	
BUCHAREST	151.85	322.9	19 35	4			
ISTANBUL KA.	151.96	314.4	19 36	5		24 0	PP
JENA	151.98	348.0	19 30	-1		22 45	PP
PRAGUE	152.14	343.7	19 42	11		23 31	PP
PRUHONICE	152.20	343.5	19 30	-1		23 12	PP
KEW	152.20	4.0	19 38	7			
PLAUEN	152.27	347.0	19 29	-2		22 46	PP
BENSBERG	152.59	353.8	19 39	7			
CHEB	2.62	346.4	19 42	10			
BRATISLAVA	153.05	338.4	19 34A	2		20 41	
HELWAN	153.75	289.7	19 34	1		20 33	
KARLSRUHE	154.36	351.3	19 39	5		20 8	PKP2
BELGRADE	154.45	329.8	19 36A	2		20 35	
STUTTGART	154.48	350.0	19 35	1		20 2	PKP2
SOF'A	154.50	322.9	19 34	0			
TUB'NGEN	154.73	350.0				19 59	PKP2
STRASBOURG	154.87	352.0	19 38	3		20 1	PKP2
PARIS	154.96	0.3	19 36	1		23 40	PP
EBINGEN	155.08	350.0	19 35	0		20 2	PKP2
BASLE	155.92	351.9	19 46	10			
TRIESTE	156.35	340.4	19 37	0			
FLORENCE X.	158.79	342.7	19 44	4			
MBOUR	159.24	113.1	19 42	2		24 1	PP
MALAGA	165.67	23.6	19 49K	2		24 39	PP
ALGIERS UNI.	166.99	358.7	19 48	0		20 52	PKP2
RELIZANE	167.87	8.3	19 51	3		20 21	PKP2
TAMANRASSET	177.23	250.8	19 54A	2		25 35	PP

JANUARY 12 14.H 55.M 20.S EPICENTRE 31.69 -41.15 DEPTH= 93.KM

DEPTH OF FOCUS= 0.009R

A= 0.64194 B=-0.56090 C= 0.52279 D=-0.6580 E=-0.7530
G= 0.3937 H=-0.3440 K=-0.8525 HT= 1.3

SE= 1.85

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S	
BERMUDA	19.96	278.2	4 30	3	8 19 17				
HALIFAX	21.79	312.7	4 46	0	8 44 8			9 56	SSS
BARBADOS	25.08	226.7	5 20	2					
ST. VINCENT	26.10	229.6	5 22	-5					
SAN JUAN	26.15	245.5	5 25	-3					
WESTON	26.22	302.5	5 29A	1			12 22		
LISBON	26.97	66.0	5 38A	3					
SEVEN FALLS	27.42	312.7	5 39	0			6 37	PP	
SERRA PILAR	27.70	61.0	5 41A	-1			9 58	PP	
PALISADES	27.84	298.7	5 44	1	10 22 4		6 18	PP	
SHAWINIGAN	28.44	310.6	5 43	-5					
BREBEUF	28.67	308.1	5 51K	1	10 39 8				
OTTAWA	30.06	307.0	6 4	1					
MALAGA	30.68	70.4	6 9A	1					

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TOLEDO	31.01	64.3	6	8	-3						
CHAPEL HILL	31.64	288.1	6	16	-1						
MORGANTOWN	32.31	295.1	6	23	0					8	30 PCP
COLUMBIA	33.44	284.8	6	32	0					8	0 PP
BENSBERG	40.23	47.0	7	30	1						
SCORESBY SD.	40.27	9.8	7	36	6						
BOGOTA	40.97	235.7	7	42	7					9	17 PP
FB'NGEN	41.04	51.5	7	36	0						
STUTTGART	41.24	50.6	7	35	-3					9	37
TAMANRASSET	42.17	90.3	7	44	-1					9	26 PP
JENA	42.99	47.6	7	52	0	14	0	-10		9	26 PP
HALLE	43.28	46.8	7	54	0					9	53
PLAUEN	43.31	48.3	7	53	-2						
CHEB	43.42	48.9	7	58	3					12	8
FAYETTEVILLE	43.80	290.8	7	59K	0				8 3	9	44 PP
TRIESTE	44.24	55.3	8	3	1						
PRAGUE	44.74	49.0	8	8	2					10	22
PRUHONICE	44.81	49.2	8	7	0					9	28
SKALSTUGAN	45.99	30.0	8	18	2						
BRATISLAVA	46.47	51.7	8	18	-2						
KACIBORZ	47.17	49.1	8	27	2					8	45
UPPSALA	47.60	35.8	8	28	-1						
KRAKOW	48.28	49.1	8	34	0					9	46
SKALNATE PL.	48.52	50.3	8	35	-1						
RAPID CITY	49.43	303.1	8	43	0						
RESOLUTE	50.36	343.8	8	48	-2	16	4	10		19	40 SS
KIRUNA	50.38	25.7	8	48	-2						
LUBBOCK	50.50	289.4	8	49	-2						
NORD	50.86	4.5	8	52	-2						
LARAMIE	51.62	299.9	9	0	1						
IASI	53.60	52.1	9	13	-1						
HUANCAYO	54.45	222.5	9	19	-1						
KISHINEV	54.48	52.2	9	20	-1						
BOZEMAN	54.68	306.2	9	22	0						
BUTTE	55.65	306.9	9	29	0					9	52
ISTANBUL KA	55.92	59.2	9	31	0						
HUNGRY HORSE	56.16	309.9	9	31	-2						
SALT LAKE C.	56.36	300.6	9	35	1						
BANFF	56.59	313.4	9	33	-3						
TUCSON	58.10	290.6	9	48	2						
MOSCOW	58.33	40.7	9	48	0						
KHEYS	59.58	11.6	10	10	13						
EUREKA	59.75	300.2	9	58	0						
BOULDER CITY	60.00	296.0	10	1	2						
HELWAN	61.18	71.0	10	7	-1					12	22
RENO	62.55	301.3	10	15	-2						
PASADENA	63.20	295.1	10	21	0						
KSARA	63.32	65.2	10	23	1					12	41 PP
CORVALLIS	63.33	307.6	10	21	-1						
FRESNO	63.50	298.4	10	23	0						
MINERAL	63.56	302.7	10	23K	0						
JERUSALEM	63.57	67.6	10	25	2						
SHASTA	64.01	303.3	10	26	0						
LICK	64.66	299.6	10	32K	1						
BERKELEY	64.93	300.3	10	34	2						
COLLEGE	68.39	333.9	10	53	-1					12	43
SVERDLOVSK	70.06	34.9	11	4	0						
LWIRO	74.23	102.7	11	29	0					21	7 PP
UVIRA	75.18	103.6	11	34	0						
ASTRIDA	75.20	102.5	11	34	0					21	28
KIMBERLEY	86.84	126.6	12	36	0						
QUETTA	88.15	55.4	12	43	1	23	23	7		16	18 PP
LAHORE	92.34	50.5	13	3	1						
CHITTAGONG	109.88	46.1	13	41	777						
SOUTH POLE	121.52	180.0	18	44	1						
RABAUL	149.93	332.7	19	36	1						
CHARTERS TS.	166.60	328.5	20	18	23					21	2

JANUARY 13 0.H 2.M 27.S EPICENTRE 52.37 176.73 DEPTH= 121.KM

DEPTH OF FOCUS= 0.014R

A=-0.61217 B= 0.03495 C= 0.78995 D= 0.0570 E= 0.9984
G=-0.7887 H= 0.0450 K=-0.6132 HT= -6.3

SE= 1.58

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	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
KLYUCHI	10.12	299.3	2	21	-2	4	7	-8					
PETROPAVLOVK	10.99	281.1	2	34	0	4	27	-8					
MAGADAN	16.12	306.7	3	43	3								
COLLEGE	21.93	41.5	4	45	1	7	43	-50	5	9			
UGLEGORSK	22.06	275.3	4	47	2	8	41	5			9	23	*SS
Y.-SAKHLINSK	22.53	269.7	4	51	1	8	49	5					
SITKA	27.62	61.1	5	39	1				6	7	6	36	*SP
TIKSI	28.40	330.4	5	43	-2	10	21	0	6	6	9	11	PCP
VLADIVOSTOK	31.08	270.8	6	4	-4	11	3	-1			11	47	
MATUSIRO	31.27	255.0	6	9K	-1	11	4	-2	6	35	7	1	PP
KYOTO	33.79	255.5	6	34K	2								
KIPAPA	36.53	138.1	6	58	3						7	36	
HONOLULU	36.60	138.3	6	57	1								
HORSESHOE B.	37.03	70.0	7	0A	1								
VICTORIA	37.36	71.3	7	2A	0								
CORVALLIS	39.48	76.7	7	18	-2								
RESOLUTE	39.99	24.4	7	24A	0	13	4	-16			9	7	PP
BANFF	40.53	63.7	7	27A	-1								
SHASTA	42.27	80.9	7	44	2								
PEKING	42.48	278.1	7	44K	0	13	57	0	8	10	14	38	*SS
IRKUTSK	42.52	299.9	7	44	-1	13	56	-1					
HUNGRY HORSE	42.82	66.6	7	48	1				8	17	9	37	PCP
MINERAL	42.96	80.8	7	48A	0								
ULAN-BATOR	43.39	293.2	7	53	1	14	10	0					
BERKELEY	44.10	84.1	7	58A	1						9	41	
RENO	44.54	80.5	8	1	0								
LICK	44.82	84.2	8	4A	1						9	44	
BUTTE	44.94	68.6	8	3	-1						9	44	PCP
ZO-SE	45.29	264.5	8	6K	-1	14	39	2	8	31	10	36	PPP
BOZEMAN	46.01	68.1	8	14	2				8	51			
NORD	46.08	2.7	8	13A	0				8	45			
NANKING	46.08	267.4	8	12K	-1				8	39			
FRESNO	46.31	83.5	8	16A	1								
EUREKA	46.89	78.0	8	19	0				8	47	13	34	SCP
SALT LAKE C.	48.53	73.9	8	32	0								
PASADENA	49.04	84.9	8	36	0						11	18	
TRUK	49.19	213.5	8	38	1				9	7	9	44	PCP
BOULDER CITY	49.85	80.7	8	43	1				9	1			
RAPID CITY	51.40	65.3	8	53	-1				9	23	13	51	SCP
LARAMIE	51.83	69.4	8	57	0								
LANCHOW	52.47	282.5	9	2K	0	16	18	1	9	29	17	0	*SS
TUCSON	54.81	81.3	9	19	0						12	2	PP
SEMIPALATNSK	55.76	309.7	9	25	-1	17	0	-1			19	1	SCS
CANTON	55.92	264.0	9	27K	0				9	54			
CHENGTU	56.10	277.5	9	27K	-1	16	56	-10			10	19	PCP
KOROR	56.61	233.0	9	31	-1								
BAGUIO CITY	56.65	252.6	9	29	-3								
SCORESBY SD.	56.72	7.4	9	31A	-2				10	4			
MANILA	57.88	250.9	9	41	0						11	51	
SODANKYLA	58.49	346.9	9	44	-1								
KIRUNA	58.82	349.7	9	46	-2				10	18			
SVERDLOVSK	59.23	324.9	9	51	1	17	51	4					
LUBBOCK	59.25	73.8	9	50	-1								
RABAUL	60.08	208.6	9	55K	-1								
KUNMING	60.96	274.0	10	0K	-2	18	9	0	10	29	18	54	
PHU-LIEN	61.70	267.7	10	1	-6						19	46	
FAYETTEVILLE	61.88	66.7	10	8A	0								
SKALSTUGAN	63.75	352.3	10	20A	-1				10	48			
FRUNSE	63.85	306.8	10	21	0	18	43	-2	10	52	20	3	SCS
OTTAWA	64.51	48.1	10	24A	-2						12	43	PP
TOCKLAI	64.51	281.2	10	57	31								
LHASA	64.61	286.1	10	27	1	19	18	23	10	56	19	47	*SS
CLEVELAND	64.69	54.5	10	27	0						10	59	
SHAWINIGAN	64.95	45.5	10	27A	-1						12	46	PP
PULKOVO	64.98	342.0	10	29	0				10	59			
SEVEN FALLS	65.34	44.0	10	30	-1						11	3	PCP
BREBEUF	65.38	46.8	10	30A	-1	18	53	-11					
PORT MORESBY	66.55	212.1	10	39	0	18	21	-57			20	15	*SS
MORGANTOWN	66.87	54.8	10	41K	0				11	13			
UPPSALA	66.87	348.7	10	40A	-1	19	22	0	11	7	39	1	PKPPKP
MOSCOW	67.09	336.3	10	41	-1	19	27	2	11	15	20	16	*SS
SHILLONG	67.13	282.5	10	40K	-2	19	23	-2			20	10	
TASHKENT	67.60	309.0	10	44	-1	19	32	1			21	23	
PALISADES	68.74	50.0	10	52	0	19	41	-3	11	18	14	57	PPP
WESTON	68.86	47.5	10	53A	0								

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CHITTAGONG	69 57	280.3	11 10	13							
STALINABAD	70.00	307.5	11 2	2	20 2	3					
COLUMBIA	70.63	59.4	11 4	0			11 30		13 40	PP	
TACUBAYA	71.30	82.4	11 19	11					13 8	PP	
CALCUTTA	71.53	283.0			20 19	2			21 4		
DEHRA DUN	71.53	295.7			20 11	-6					
COPENHAGEN	71.54	350.7	11 9A	0	20 20	3			21 3		
WARSAK DAM	72.16	302.6	11 13	0	20 25	1					
LAHORE	72.61	299.1	11 16	1	20 28	-1	11 47		21 8	*SS	
RATHFARNHAM	74.67	1.9	11 27A	0			12 3				
ASHKABAD	75.32	314.0	11 32	1					21 41		
LWOW	75.58	342.1	11 34	1			12 2				
MUNSTER	75.63	353.1	11 30	-3							
HALLE	75.71	350.3	11 33	0			11 59		14 26	PP	
JENA	76.32	350.4	11 36	-1			12 5		14 52	PP	
RACIBORZ	76.32	346.0	11 37	0	21 27	17					
BENSBERG	76.67	353.2	11 38	-1							
PLAUEN	76.68	350.0	11 37	-2			12 10		14 54	PP	
PRAGUE	76.84	348.4					12 9		14 43	PP	
SKALNATE PL.	76.87	344.4	11 41	1							
PRUHONICE	76.92	348.3	11 40	0			12 8		14 37	PP	
IASI	77.36	339.0	11 44	1	21 24	3					
TIFLIS	77.47	325.2	11 45	2			12 15		21 29		
QUETTA	77.56	303.4	11 45	1	21 24	1	12 13		22 13	*SS	
SIMFEROPOL	77.86	333.8	11 46	1			12 19				
BRATISLAVA	78.34	346.2	11 51	3			12 22		15 12		
STUTTGART	78.68	351.6	11 50A	0			12 16		14 52	PP	
GORIS	78.87	323 1	11 54	3	21 44	7	12 26		22 37	*SS	
TUBINGEN	78.93	351.7	11 52	1							
STRASBOURG	78.99	352.6	11 53	1			12 23				
PARIS	79.08	356.1	11 54A	2	21 46	6					
EBINGEN	79.29	351.7	11 54	1							
RAVENSBURG	79.63	351.2	11 56	1							
BASLE	80.05	352.6	11 58	1							
BERMUDA	80.05	49.0	12 46	49	21 57	7					
BUCHAREST	80.32	339.1	11 57	-2	21 21	-32					
KARACHI	81.02	300.8	12 6	4	22 9	9	12 33				
BELGRADE	81.06	343.2	12 3K	0					12 35		
TRIESTE	81.27	348.0	12 4	0							
BRISBANE	82.17	201.1	12 8	0					12 38		
ISTANBUL KA.	82.80	335.9	12 3	-9							
POONA	83.12	291.3	12 14	1					12 50		
FLORENCE X.	83.41	349.5	12 16A	1			12 50				
MADRAS	83.78	283.1							15 47		
KSARA	87.61	328.3	12 35	0	23 19	14	13 1				
SAN JUAN	91.04	57.7	12 51	0			13 25				
HELWAN	92.69	330.4							16 42	PP	
BOGOTA	97.92	71.9			24 53	18			23 50	SKS	
TAMANRASSET	104.78	351.6	14 18	25					18 7	PP	
SOUTH POLE	142.18	180.0	19 14	-4			19 46		22 45	PP	
PIETERMZBURG	146.39	299.3	19 28	3							
KIMBERLEY	148.56	307.7	19 33	5							
GRAHAMSTOWN	151.31	299.8	19 41	9							

JANUARY 13 2.H 54.M 39.S EPICENTRE -10.98 165.90 DEPTH= 65.KM

DEPTH OF FOCUS= 0.005R

A=-0.95232 B= 0.23929 C=-0.18927 D= 0.2437 E= 0.9699
G= 0.1836 H=-0.0461 K=-0.9819 HT= 6.4

SE= 1.77

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S	
NOUMEA	11.27	177.4	2 37	-4	4 35	-11			
SUVA	14.06	121.9	3 19K	2	5 58	6			
RABAUL	15.18	295.3	3 32	0	6 19	1		15 50	SCS
PORT MORESBY	18.52	273.2	4 15	2	7 32	-2			
BRISBANE	20.39	214.6	4 34	0	8 20	6			
APIA	21.98	99.6	4 52	2					
TRUK	23.05	322.1	5 2	2			5 24	5 49	PP
ONERAHI	25.85	164.0	5 26	-1					
RIVERVIEW	26.45	208.4	5 36A	3	10 3	3			
KARAPIRO	28.18	163.7	5 48	-1					
TONGARIRO	29.38	164.6	5 57	-2			6 15		
CORB RIVER	30.58	169.8	6 13	3					

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WELLINGTON	31 17	167.0	6	10K	-5	11	5	-10					
KAIMATA	31.79	172.2	6	22	2								
MELBOURNE	32.67	211.6	6	28	0	11	42	4	6	44			
ROXBURGH	34.57	175.7				12	5	-3					
KOROR	36.17	298.8	6	59	1				7	22	7	36	*SP
KIPAPA	47.88	47.7	8	36	3								
PERTH	50.54	237.6	8	54	0						11	17	
MANILA	51.25	298.8	8	59	0	14	34	-98					
BAGUIO CITY	52.45	300.6	9	7	-1	16	51	23					
TUKUBASAN	52.87	333.8	9	10A	-1				9	33	11	21	PP
KYOTO	53.94	329.3	9	19A	0	17	10	22					
MATUSIRO	53.98	332.5	9	18A	-2	17	11	22			22	21	
DJAKARTA	58.53	269.4	9	49A	-3	18	6	17					
ZO-SE	59.92	315.8	10	0A	-2	18	12	5	10	29	18	56	*SS
NHATRANG	60.83	290.7	10	18	10	18	26	7					
CAPE HALLETT	61.34	178.5	10	12A	1	18	24	-1					
CANTON	61.62	303.7	10	14A	1	18	38	9	10	41	10	53	*SP
NANKING	62.11	315.3	10	17A	0	18	46	11					
VLADIVOSTOK	62.15	332.4	10	16	-1						12	30	
PETROPAVLOVK	64.16	355.2	10	28	-2								
CHANGCHUN	65.85	328.9	10	40A	-1								
SCOTT BASE	66.86	179.8	10	50	3								
MEDAN	68.42	278.3	10	56	-1						13	52	PP
PEKING	68.52	321.0	10	56	-2				11	25			
KUNMING	71.24	301.2	11	15A	1	20	34	9					
MAGADAN	71.34	352.0	11	13	-2								
CHENGTU	72.38	307.1	11	21	0	20	48	10	11	48	11	30	PCP
LANCHOW	74.84	312.1	11	35	0	21	13	7	12	4			
BYRD STATION	76.59	170.0	11	44	-1	21	7	-18	12	14	14	36	PP
SOUTH POLE	79.09	180.0	11	58	-1						12	11	PCP
SHILLONG	80.63	298.4	12	7A	0								
IRKUTSK	82.07	326.9	12	15A	0								
LHASA	82.52	302.1	12	19A	2								
BERKELEY	82.74	49.3	12	18	0								
HOWRAH	82.93	294.5	12	25	6								
LICK	83.02	50.0	12	20A	0								
COLLEGE	83.19	18.1	12	19	-1						12	40	PCP
SHASTA	83.61	46.6	12	23A	0								
MINERAL	84.06	47.1	12	24A	-1								
FRESNO	84.23	51.0	12	25	-1								
PASADENA	84.71	53.9	12	28	0						19	21	
RENO	85.09	48.3	12	30	0								
TIKSI	86.04	349.0	12	33	-2	23	5	3			22	48	SKS
HORSESHOE B.	86.13	38.2	12	35A	0								
BOULDER CITY	87.85	52.9	12	44	1								
EUREKA	87.91	49.3	12	44	0				13	8	16	10	PP
TUCSON	90.18	57.3	12	55	1				13	19	16	45	PP
SALT LAKE C.	91.30	48.8	13	0	0				13	22			
HUNGRY HORSE	91.61	41.1	13	1	0				13	24	16	27	PP
BUTTE	92.01	43.6	13	3	0								
BOZEMAN	92.96	44.2	13	10	3				13	32	14	5	*SP
POONA	95.34	287.8	13	19	1								
BOMBAY	96.36	288.0									25	4	
LAHORE	96.98	300.7	13	25	-1						17	20	PP
FRUNSE	98.33	312.0				24	7	5					
WARSAK DAM	99.62	302.8	13	37	-1								
TASHKENT	102.10	310.1				24	25	-57			27	1	
STALINABAD	102.30	307.2	13	49	-1								
RESOLUTE	102.96	15.6	13	51	-1								
QUETTA	103.11	298.6	13	54	1	24	24	-8			32	45	SS
SVERDLOVSK	107.47	326.2				24	51	0					
ASHKABAD	110.48	306.4									19	1	PP
HUANCAYO	115.03	108.9									29	15	SKSP
OTTAWA	117.59	44.4	18	39	0								
KIRUNA	118.82	345.8	18	42	1						29	53	PS
SHAWINIGAN	119.30	42.5	18	42K	0						22	15	PKS
MOSCOW	120.01	329.1	18	39	-4								
TIFLIS	120.34	312.0	18	46	2								
SEVEN FALLS	120.41	41.5	18	42	-2								
PULKOVO	121.20	335.5									36	51	SS
SKALSTUGAN	124.25	346.1	18	52	0								
KIMBERLEY	125.49	222.6	18	55	1								
UPPSALA	125.80	340.9	18	54	-1								
SIMFEROPOL	126.71	318.7									20	55	PP
KSARA	129.09	304.8	19	3	2						21	19	PP
IASI	129.69	323.9	18	54	-8								
JERUSALEM	130.11	302.4	19	6	3						21	20	
LWOW	130.13	328.5	19	4	1								

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COPENHAGEN	130.80	340.5	19	6	2					22 35	PKS
ISTANBUL KA.	131.71	316.1	19	6	0					21 25	PP
KRAKOW	132.01	330.9								21 28	PP
RACIBORZ	132.80	332.0	19	8	0					19 57	
HELWAN	133.81	301.0	19	11	1					21 42	
HALLE	134.36	337.4	19	11	0					21 48	
PRAGUE	134.48	334.4	19	18	7					21 27	
PRUHONICE	134.49	334.3	19	15	4			19	35	21 45	PP
JENA	134.95	337.2	19	11	-1						
LWIRO	135.34	255.4	19	15A	2					22 47	
STUTTGART	137.61	337.2	19	11	-6					22 19	PP
EBINGEN	138.18	336.8	19	18	0						
PARIS	139.83	343.0	19	2	-19	25	43 -39				
TOLEDO	149.87	344.5	19	46A	8					19 51	PKP2
MALAGA	152.92	342.7	19	43A	1					20 2	PKP2
TAMANRASSET	157.89	304.6	19	51A	2	26	36 -10	20	17	24 1	PP

JANUARY 13 20.H 14.M 36.S EPICENTRE 11.79 92.79 DEPTH= 54.KM
DEPTH OF FOCUS= 0.003R

A=-0.04771 B= 0.97801 C= 0.20301 D= 0.9988 E= 0.0487
G=-0.0099 H= 0.2028 K=-0.9792 HT= 6.3

SE= 2.16

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
MEDAN	10.03	144.0	2	24	0	4	15	-1					
CHITTAGONG	10.55	355.1	2	28	-3	4	23	-6					
VIZIANAGRAM	11.00	306.0	2	37K	-1	4	28	-12			5	7	
CALCUTTA	11.49	338.9	2	46	2	4	44	-8					
MADRAS	12.38	276.9	2	54A	-2	5	5	-8			3	3	PP
BOKARO	13.69	331.9	3	6A	-7	5	30	-15			3	14	PP
SHILLONG	13.73	356.5	3	12K	-2	5	39	-7			3	26	PP
HYDERABAD	14.97	293.7				6	0	-15			3	32	PP
TOCKLAI	15.00	6.8	3	30	0								
NHATRANG	16.07	86.8	3	44A	0	6	53	13					
KUNMING	16.17	34.0	3	57K	12	6	48	6					
LHASA	17.84	355.0	4	6K	0	7	25	5			16	3	SCS
POONA	19.46	292.4	4	25	0	7	58	2			4	39	PP
BOMBAY	20.50	292.6	4	39	3	8	13	-5			4	54	PP
AGRA	20.63	319.8	5	39K	62	9	14	54			6	6	PP
CHENGTU	21.46	27.3	4	45K	-1	8	39	3			9	14	SS
CANTON	22.51	57.3	4	58	2	9	1	6					
DJAKARTA	22.67	141.3	5	4	2	9	26	22					
DEHRA DUN	22.96	325.7	5	3	2	9	6	3			5	23	PP
TIENSHUI	25.57	25.4	5	27	1								
LAHORE	26.02	321.9	5	30	0								
LANCHOW	26.16	20.6	5	32	1	10	1	4			16	23	SCS
SIAN	26.76	30.7	5	39	2								
BAGUIO CITY	27.33	77.1	5	44	2	10	16	0					
MANILA	27.58	81.1	6	31	47	11	6	46					
KARACHI	28.02	303.5	5	46K	-2								
YINCHUAN	29.16	22.1	6	21	23								
WARSAK DAM	29.40	322.2	6	1K	0								
QUETTA	30.16	311.3	6	9K	2	11	7	6			7	9	PP
NANKING	31.29	45.8	6	15	-2	11	20	1					
PAOTOW	32.45	24.9	6	27	0								
ZO-SE	32.51	49.4	6	26	-2	11	40	2					
TATUNG	33.51	29.1	6	35	-2								
NAMANGAN	34.50	331.2	6	36	-9								
PEKING	34.90	32.2	6	48K	0	14	16	121			8	8	PP
ULAN-BATOR	37.91	15.5	7	20	6	13	8	7					
SEMIPALATNSK	39.85	347.5	7	30	0								
IRKUTSK	41.43	10.7	7	54	11								
CHANGCHUN	42.47	35.2	7	51	-1	14	11	2					
KYOTO	45.22	52.0	8	13A	-1								
MATUSIRO	47.64	50.9	8	31	-2	15	24	0			10	1	PCP
TUKUBASAN	48.98	52.0	8	40A	-3						10	4	PCP
MAKHACH-KALA	49.95	317.0	8	52	1								
SVERDLOVSK	51.30	338.0	9	1	0	16	16	2					
TIFLIS	51.31	314.5	9	2	1	16	21	6					
TANANARIVE	54.04	236.1	9	22A	1						10	41	PCP
SOTCHI	55.46	315.1	9	31	-1	17	10	-1					
KSARA	56.12	302.8	9	37	1				9	56	11	43	PP
JERUSALEM	56.39	300.3	9	38	0								

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PORT MORESBY	57.99	109.0	10	28	38	17	43	-1		19	35 SCS
TRUK	58.30	88.5	9	48	-4				10 12	10	21 *SP
HELWAN	59.54	297.7	9	59K	-1						
SIMFEROPOL	59.71	315.4	10	1	-1	18	11	5			
MOSCOW	61.06	328.0	10	10	-1	18	25	1			
RABAUL	61.14	101.5	10	9	-2					12	56
ISTANBUL KA.	62.57	310.2	10	19	-2	19	15	32			
TIKSI	63.67	12.0	10	26	-2	18	55	-2			
KISHINEV	63.76	316.7	10	28	-1						
MAGADAN	63.96	28.7	10	28	-2						
ASTRIDA	64.28	261.3	10	35	3						
IASI	64.64	316.8	10	36	2					11	1 PCP
UVIRA	65.09	260.6	10	37	0						
LWIRO	65.10	261.9	10	40	3	19	16	2			
BUCHAREST	65.21	313.5	10	38K	0	19	8	-8		11	7 PCP
PULKOVO	66.17	330.6	10	45	1	19	28	1			
ATHENS	66.37	306.3	10	43K	-3					11	17
SOFIA	67.02	311.4	10	50	0						
LWOW	67.40	319.2	10	33	-19						
APATITY	67.72	339.1	10	52	-2						
BELGRADE	69.27	313.5	11	4A	0						
MELBOURNE	69.42	138.1	11	1	-4						
SKALNATE PL.	69.76	318.2	11	6	-1						
KRAKOW	70.05	319.1	11	8	0					13	45 PP
SODANKYLA	70.10	337.9	11	8	-1						
BRISBANE	70.20	124.9	11	7A	-2	20	15	0			
KHEYS	70.79	353.1	11	19	6						
RACIBORZ	71.16	319.0	11	15	0						
BRATISLAVA	71.77	316.9	11	17K	-2						
UPPSALA	72.43	329.2	11	22K	-1	21	4	23			
KIRUNA	72.52	337.7	11	22K	-1						
PIETERMZBURG	72.83	233.9	11	26A	1						
PRETORIA	73.09	238.4	11	27A	1						
PRUHONICE	73.51	318.8	11	28	-1					14	13
TRIESTE	74.02	314.2	11	30	-2						
COPENHAGEN	74.91	324.7	11	37	0						
CHEB	74.91	318.9	11	38	1					14	55 PP
PLAUEN	75.06	319.3	11	36	-2					14	59
HALLE	75.18	320.3	11	38	-1					14	28 PP
SKALSTUGAN	75.30	332.9	11	39	0						
JENA	75.41	319.7	11	39	-1					14	30 PP
FLORENCE X.	75.86	312.4	11	44	2					15	38
RAVENSBURG	76.80	316.5	11	52	4						
CHUR	76.91	315.6	11	48	0						
KIMBERLEY	77.01	236.7	11	49	0						
STUTTGART	77.03	317.6	11	48K	-1					14	46 PP
TUBINGEN	77.12	317.3	11	49	-1						
EBINGEN	77.21	317.0	11	49	-1					12	1 PCP
GRAHAMSTOWN	77.32	231.8	11	52	1						
ZURICH	77.53	316.2	11	52	0						
KARLSRUHE	77.53	317.8	11	52K	0					12	4 PCP
MUNSTER	77.85	320.9	11	54	0						
STRASBOURG	77.98	317.4	11	54	0					12	38
BASLE	78.19	316.4	11	55K	0						
BENSBERG	78.20	319.9	11	56	0					12	10
WITTEVEEN	78.37	321.8	11	57A	1						
NEUCHATEL	78.66	315.9	11	57	-1						
WILKES	78.88	172.8				21	51	-1			
NORD	81.21	351.9	12	10	-2						
PARIS	81.44	318.0	11	8	-65						
CLERMONT-FD.	81.44	314.9	12	14	1						
KEW	82.81	321.0	12	20	0						
DURHAM	82.98	324.4	12	20K	-1					17	7
TAMANRASSET	83.04	291.8	12	23	2					15	34 PP
RATHFARNHAM	86.00	323.5	12	49K	13					15	27
MALAGA	88.72	307.1	12	51K	2						
COLLEGE	91.24	21.8	13	0	-1					16	30 PP
RESOLUTE	93.57	2.0	13	11K	-1	23	44	-29		16	54 PP
SOUTH POLE	101.71	180.0	13	51	3	24	13	-68		18	3 PP
HUNGRY HORSE	115.57	19.5	18	37	1					14	53 P
BUTTE	118.10	19.8	19	49	68						
SHASTA	118.46	29.9	18	44A	2						
BOZEMAN	118.90	18.9	18	46	3						
MINERAL	119.12	29.6	18	45A	2					20	4 PP
SEVEN FALLS	119.56	347.2	18	44	0						
SHAWINIGAN	120 50	348.5	18	46A	0						
RENO	120.61	29.0	18	48	2						
BREBEUF	121.67	348.8	18	48A	0						

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OTTAWA	122.14	350.5	18	50	1						
EUREKA	122.40	26.2	18	53	4					20	34 PP
LARAMIE	124.51	16.7	18	56	2						
PASADENA	125.65	31.7	18	58	2						
BOULDER	125.78	17.1	18	57	1						
BOULDER CITY	125.80	27.6	18	59	3					20	51 PP
PALISADES	126.05	347.6	18	57	0					20	46 PP
MORGANTOWN	128.40	352.8	19	3A	2						
TUCSON	130.72	26.6	19	9	3					22	28 PKS
FAYETTEVILLE	131.93	7.6	19	9	1					22	30 PPP
LUBBOCK	132.78	16.7	19	13	4					21	35 PP
SAN JUAN	143.51	324.9	19	28	-1						
ST. VINCENT	144.27	313.2	19	31A	1						
TACUBAYA	146.83	21.0	19	51	16						
LA PAZ	160.92	253.6	19	58	4						
HUANCAYO	168.37	267.5	20	4	4					21	14 PKP2

JANUARY 14 5.H 54.M 51.S EPICENTRE -22.05-174.83 DEPTH= 0.KM
A=-0.92395 B=-0.08364 C=-0.37327 D=-0.0902 E= 0.9959
G= 0.3717 H= 0.0337 K=-0.9277 HT= 4.2

SE= 2.39

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
SUVA	7.43	300.3	1	55K	3	3	24	6					
APIA	8.70	20.0	2	5	-5	3	37	-13					
ONERAHI	16.60	212.2	3	58	2								
KAIMATA	23.43	206.2	5	9	-3								
BRISBANE	29.63	252.9	6	4K	-5	11	1	-3					
RIVERVIEW	32.12	241.2	6	29A	-2						12	20	
RABAUL	36.57	294.3	7	10	1								
PORT MORESBY	38.58	282.9	7	33	7	13	6	-17					
SCOTT BASE	56.55	184.6	9	45A	-2								
BYRD STATION	62.64	170.7	10	26	-3	18	57	1			12	32	PP
WILKES	63.85	205.8	10	35K	-2	19	7	-4					
SOUTH POLE	68.08	180.0	10	59	-5						39	0	PKPPKP
MATUSIRO	73.22	322.1	11	31	-4						28	57	
BERKELEY	77.40	40.1	12	0A	1								
PASADENA	77.62	45.2	11	59	-1								
UKIAH	77.67	38.6	12	2	2								
FRESNO	78.20	42.2	12	3	0								
SHASTA	79.19	37.8	12	9	1								
MINERAL	79.41	38.5	12	8A	-2								
RENO	79.94	40.1	12	13	1								
BOULDER CITY	80.91	45.3	12	19	1								
TUCSON	81.58	50.3	12	22	1						14	55	
NHATRANG	81.87	286.6	12	37	14								
EUREKA	82.24	42.0	12	25	0								
SALT LAKE C.	85.56	42.7	12	43	2						13	36	
MAGADAN	86.06	343.2	12	43	-1								
BUTTE	88.10	38.1	12	54	0								
HUNGRY HORSE	88.63	35.6	12	55	-1								
BOZEMAN	88.78	39.0	12	58	1								
COLLEGE	89.12	11.2	12	57	-2								
RAPID CITY	92.75	43.2	13	17	2								
HUANCAYO	94.15	104.7	13	25	3								
FAYETTEVILLE	95.55	53.4	13	29	1								
LA PAZ	98.65	111.7	14	13	31						24	59	SKKS
RESOLUTE	108.46	16.0	14	26	777	26	33	6			18	28	PKP
WASHINGTON	109.34	55.0	18	11	777								
PALISADES	112.15	53.3									28	53	PS
QUETTA	124.51	292.2	19	1	-1								
KIMBERLEY	126.07	201.4	19	4	-1								
KIRUNA	133.24	352.1	19	17	-1								
UPPSALA	141.22	350.0	19	25	-8								
TIFLIS	141.48	309.9	19	33	0								
UVIRA	145.47	225.6	19	38	-2								
LWIRO	146.59	226.7	19	42A	0								
DURHAM	146.94	7.2	19	45A	2								
SIMFEROPOL	147.07	320.8	19	43	0								
RATHFARNHAM	147.60	12.9	19	45K	1								
IASI	149.08	329.6	19	26	-20								
WITTEVEEN	149.26	358.2	19	47	1								
KRAKOW	149.73	341.0	19	53	6						20	40	

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MUNSTER	150.07	357.0	19 49	1	
HALLE	150.14	351.5	19 48	0	19 53 PKP2
RACIBORZ	150.20	343.0	19 45	-3	
KEW	150.33	6.9	19 53	5	
KSARA	150.56	300.1	19 53	5	
JENA	150.74	351.7	19 48	-1	
BENSBERG	151.10	357.4	19 55	6	
JERUSALEM	151.59	296.3	19 55	5	
ISTANBUL KA.	152.33	318.7	19 56	5	
STUTTGART	153.15	354.1	19 52	0	19 59 PKP2
PARIS	153.21	3.9	20 1	9	20 24
STRASBOURG	153.45	356.1	20 1	8	
HELWAN	155.27	293.8	19 56	1	
GRANADA	163.12	24.8			21 20 PKP2
TAMANRASSET	179.21	336.2	20 13	1	25 57 PP

JANUARY 14 7.H 20.M 29.S EPICENTRE -29.49-179.26 DEPTH= 339.KM

DEPTH OF FOCUS= 0.048R

A=-0.87176 B=-0.01133 C=-0.48981 D=-0.0130 E= 0.9999
G= 0.4898 H= 0.0064 K=-0.8718 HT= 2.0

SE= 2.21

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
ONERAHI	8.25	219.0	2 2	5	3 40	10		
KARAPIRO	9.46	205.9	2 16	4	4 4	8		
TONGARIRO	10.60	202.6	2 23	-3	4 20	-1		
SUVA	11.49	348.9	2 37K	1				
WELLINGTON	12.72	200.9	2 48	-3	5 2	-5		
NOUMEA	14.72	295.8	3 15A	1	6 2	12		
KAIMATA	15.02	207.5	3 14	-3	5 48	-8		
GEBBIES PASS	15.58	202.3	3 20	-3	5 59	-8		
APIA	17.08	25.5	3 37	-2	6 27	-9		
BRISBANE	24.42	267.9	4 51K	1	10 23	99		
FORT NELSON	29.89	234.2	5 36A	-3			5 46	
MELBOURNE	30.77	244.8	5 48K	2				
RABAUL	36.94	307.5	6 38	-1	12 8	9		8 52
PORT MORESBY	37.24	295.6	6 45	4	12 3	0		15 14 SSS
TRUK	46.08	318.3	7 49	-3				9 22 PCP
SCOTT BASE	48.86	183.9	8 15K	1				
BYRD STATION	56.02	169.5	9 6	0	16 32 6		10 17	11 10 PP
KOROR	57.60	301.9	9 15	-2				
SOUTH POLE	60.67	180.0	9 38	0	17 22 -4		10 51	10 17 PCP
MANILA	72.39	298.6	10 49	-2				
BAGUIO CITY	73.82	299.9	10 57	-2				
TUKUBASAN	75.71	327.1	11 9A	-1				
MATUSIRO	76.89	326.0	11 15K	-2				
KYOTO	76.94	323.4	11 16K	-1				
NAGASAKI	78.45	318.1	11 24	-1				
NHATRANG	80.39	289.9	11 36K	1				14 4
ZO-SE	82.70	311.8	11 46	-1				
CANTON	83.29	301.1	11 50K	0				
MEDAN	84.85	277.0	12 3	5				
NANKING	84.86	311.2	11 58	0				
PASADENA	85.65	46.7	12 2	0				
SHASTA	87.47	39.6					13 31	
MINERAL	87.67	40.3	12 11	0			13 30	
TUCSON	89.34	52.0	12 21	2			13 40	29 54 PKKP
EUREKA	90.39	43.7	12 25	1			13 44	
KUNMING	92.45	297.3	12 35	1				
CHENGTU	94.37	302.7	12 43	1				
HUANCAYO	95.95	107.3	12 53	3			14 10	
COLLEGE	97.20	13.0	12 54	-1				
LANCHOW	97.32	307.3	12 56	0	22 59 -47			
LHASA	103.71	296.3			23 32 -68			
RESOLUTE	116.70	17.2	18 3K	-1				28 37 PS
KIMBERLEY	117.70	203.8	18 7	1				
OTTAWA	119.43	51.9	18 9A	0				
BREBEUF	120.89	52.1	18 11A	-1				
SHAWINIGAN	121.68	51.0	18 12	-1				
SEVEN FALLS	123.09	50.7	18 15	-1				
QUETTA	123.34	288.5	18 18K	1	24 50 5		19 46	
SVERDLOVSK	130.51	321.3	18 32	2				
APATITY	137.23	342.2	16 36	-127				

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UVIRA	137.40	224.5								21	33 SKP
ASTRIDA	137.71	226.0								21	39 SKP
LWIRO	138.56	225.2								21	52
KIRUNA	139.88	348.6	18	40	-8						
TIFLIS	142.54	301.1	18	50	-3						
MOSCOW	142.98	325.7	18	50	-4						
SKALSTUGAN	145.11	351.0	18	56K	-1						
UPPSALA	147.56	344.1	19	3K	2						
SIMFEROPOL	149.53	309.6	19	9	5						
JERUSALEM	150.32	283.2	19	12	7						
COPENHAGEN	152.52	345.6	19	16	8					19	27 PKP2
STUTTGART	159.69	343.7	19	16	-2					19	59 PKP2
TAMANRASSET	172.06	213.8	19	31K	4			20	54	24	39 PP

JANUARY 15 19.H 14.M 31.S EPICENTRE -16.70 -72.58 DEPTH= 82.KM

DEPTH OF FOCUS= 0.008R

A= 0.28696 B=-0.91438 C=-0.28560 D=-0.9541 E=-0.2994
G=-0.0855 H= 0.2725 K=-0.9584 HT= 5.4

SE= 2.42

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
LA PAZ	4.27	88.0	1	6A	1	1	52	-2			1	17	
HUANCAYO	5.34	329.7	1	19A	0	2	23	3					
ANTOFAGASTA	7.20	164.0	1	38	-7	3	5	-1					
SANTA LUCIA	16.75	174.5	3	50	-1	6	52	-1					
CONCEPCION	20.06	178.8	4	35	6						7	18	
BOGOTA	21.23	355.9	4	42	1	8	20	-7					
CHINCHINA	21.74	351.8	4	30	-16	8	27	-10					
FUQUENE	22.06	356.9	4	50	1	8	28	-14					
LA PLATA	22.36	146.9	4	51	-1	8	51	3					
BALBOA HTS.	26.41	344.3	5	32A	1	10	22	25					
GALERAZAMBA	27.43	354.2	5	47	7	10	34	21					
TRINIDAD	29.31	22.6	5	57	0								
ST. VINCENT	31.71	21.3	6	16A	-2								
FORT FRANCE	33.21	20.5	6	28	-3	11	40	-4					
SANTIAGO MA.	33.86	331.4	6	39	2	11	49	-5					
SAN SALVADOR	34.42	330.5	6	43	1	12	10	7					
PORT-PRINCE	35.03	0.4	6	47	0						7	51	PP
SAN JUAN	35.43	10.6	6	48A	-2				7	6	8	13	PP
COMITAN	38.00	328.5	7	14	2	13	4	6			15	55	
OAXACA	41.12	323.4	7	41	3	13	38	-7					
VERA CRUZ	42.53	326.0	7	59	10	14	29	24					
TACUBAYA	44.41	322.8	8	2K	-3	14	44	12	8	29	17	46	SCS
MANZANILLO	47.30	317.4	8	33	6								
GUADALAJARA	47.86	319.8	8	30	-2	14	31	-51	8	51	10	31	PP
BERMUDA	49.38	8.8	8	40A	-4	15	46	3			10	48	PP
MOBILE	49.45	342.3	8	45A	1	15	47	3	9	1			
COLUMBIA	51.06	351.0	8	55A	-1						19	49	
MAZATLAN	51.62	319.2	8	56	-5						9	29	*SP
CHAPEL HILL	52.69	353.4	9	7	-2						16	35	
DALLAS	54.44	334.9	10	21	60	16	55	3					
GEORGETOWN	55.47	355.7	9	29	0	17	9	3			9	47	PP
WASHINGTON	55.47	355.7	9	30K	1	17	10	4			11	2	PCP
CHIHUAHUA	55.50	323.9	9	26	-3	17	14	8			14	22	PCS
FAYETTEVILLE	56.35	339.0	9	33A	-2	17	19	2					
MORGANTOWN	56.46	353.2	9	35	-1	17	7	-12					
PITTSBURGH	57.26	353.3	9	39A	-3	17	30	1					
FORDHAM	57.27	358.8	9	40A	-2	17	23	-7					
LUBBOCK	57.27	331.0	9	40	-2	17	30	0					
PALISADES	57.43	358.8	9	40	-3	17	20	-12	10	2	11	49	PP
ST. LOUIS 1	57.48	343.6	9	41A	-2	17	31	-1	9	59	17	39	SP
CLEVELAND	58.47	352.1	9	48A	-2	17	44	-1					
WESTON	58.79	1.1	9	52A	0	17	46	-3					
TUCSON	60.92	323.1	10	7A	0	18	28	11			12	50	PP
HALIFAX	61.57	7.3	10	10A	-1	18	21	-4			12	25	PP
OTTAWA	61.87	357.5	10	12	-1	18	31	2			12	36	PP
BREBEUF	61.91	359.2	10	13A	-1	18	44	15					
SHAWINIGAN	62.95	359.9	10	19A	-2	18	37	-5			12	37	PP
SEVEN FALLS	63.54	1.3	10	23A	-1	18	59	9			12	45	PP
BOULDER	64.14	332.5	10	28	0								
LARAMIE	65.31	333.2	10	35	-1								
BOULDER CITY	65.90	323.3	10	39A	-1				11	3	20	28	SCS

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PASADENA	66.64	319.8	10	45A	1	19	31	3	11	5	13	34 PP
RAPID CITY	66.65	336.4	10	44A	0	19	28	0	11	3	13	41 PP
BYRD STATION	66.71	188.0	10	44A	-1	19	37	8			13	15 PP
SALT LAKE C.	67.81	328.7	10	52A	0						39	8 PKPPKP
EUREKA	69.02	325.3	11	0A	1						39	8 PKPPKP
FRESNO	69.37	321.0	11	1A	0							
LICK	70.85	320.4	11	11A	1							
SANTA CLARA	71.05	320.2	11	20A	9	20	27	7	11	41	21	41 *SS
BOZEMAN	71.19	332.6	11	13A	1						11	33 PCP
RENO	71.21	323.2	11	14A	2							
BERKELEY	71.57	320.5	11	15	0	20	32	6	11	34	14	24 PP
BUTTE	72.13	331.9	11	18A	0							
MINERAL	72.78	322.8	11	21A	-1							
UKIAH	72.95	321.0	11	23A	0				11	52	11	45 PCP
SOUTH POLE	73.41	180.0	11	23K	-2	20	38	-9			14	10 PP
SHASTA	73.46	322.7	11	25A	-1							
HUNGRY HORSE	74.55	332.7	11	32A	0				11	53	38	44 PKPPKP
ARCATA	74.57	322.0	11	31	-1							
SASKATOON	74.66	339.0	11	32	-1	21	2	1				
CORVALLIS	76.48	325.3	11	45A	2							
BANFF	77.31	333.9	11	47A	-1							
SEATTLE	77.97	328.2	11	53K	2	22	12	35				
VICTORIA	79.11	328.3	11	57A	0							
HORSESHOE B.	79.60	329.1	12	0A	0	21	59	5				
SCOTT BASE	79.89	190.7	12	2K	0	22	4	7			15	6 PP
IVIGTUT	80.05	11.7	12	2	-1	21	59	0			22	6 SKS
ALBERNI	80.30	328.3	12	6	2							
LISBON	80.94	45.1	12	8A	1	22	3	-5	12	26	15	5 PP
CAPE HALLETT	82.05	196.0	13	15A	62	23	54	95			18	47 PPP
COIMBRA	82.16	44.1	12	14K	0	22	16	-4	12	41	23	25
HERMANUS	82.20	123.5	12	15	1	22	27	6			15	21 PP
SERRA PILAR	82.50	43.2	12	8K	-7	22	10	-14	12	15	15	18 PP
MALAGA	83.33	48.7	12	21A	1	22	31	-1	12	41	15	24 PP
GRANADA	84.10	48.5	12	26A	3	22	41	1			15	41 PP
ALMERIA	84.78	49.2	12	27K	0	22	46	-1	13	1	23	34 SP
TOLEDO	84.98	46.0	12	29A	1	22	49	1	12	47	15	47 PP
TAMANRASSET	85.84	64.9	12	34	2	23	3	6	12	53	15	50 PP
RELIZANE	86.55	51.2	12	37A	1	22	58	-6	12	45		
ALICANTE	86.84	48.5	12	34	-3	22	58	-8			15	54 PP
KIMBERLEY	88.34	119.4	12	43	-1							
ALGIERS UNI.	88.81	51.1	12	55A	9	23	18	-7	13	3	16	13 PP
HAWAII V.OB.	88.82	290.6	13	5	19	23	37	12				
REYKJAVIK	89.44	19.8	12	51A	2							
RATHFARNHAM	89.84	33.3	12	48A	-3	23	8	-26	13	8	16	22 PP
BARCELONA	89.89	46.5	13	8	17	23	40	5				
SITKA	89.96	330.9	12	58K	6	23	41	6			23	15 SKS
AKUREYRI	91.68	19.7				23	39	-12				
PRETORIA	92.17	117.5	13	0	-2						16	57
CLERMONT-FD.	92.19	42.7	13	3A	1						19	22 PP
RESOLUTE	92.27	354.2	13	2A	-1	23	59	3			16	39 PP
KEW	92.30	36.6	13	2A	-1	24	0	4	13	22	16	43 PP
EDINBURGH	92.65	31.8	12	57	-7	23	36	-23			16	40 PP
PIETERMZBURG	92.69	121.8	13	5K	1							
PARIS	92.93	39.8	13	5	-1	23	41	-21				
DURHAM	92.98	33.3	13	5A	-1	23	33	-29	13	25	16	48 PP
SCORESBY SD.	93.71	15.1	13	8K	-1	23	46	-22	13	28	16	56 PP
ABERDEEN	93.73	31.0	12	55	-14	24	15	7			16	50 PP
CUGLIERI	94.04	49.4									16	41 PP
NEUCHATEL	95.10	42.5	13	15	0						17	3 PP
WELLINGTON	95.19	224.3	13	13K	-3	24	19	-2	13	30	23	40 SKS
OROPA	95.33	44.1	13	19	3	23	48	-34			16	54 PP
TONGARIRO	95.62	226.4	13	18	0							
BASLE	95.68	42.1	13	18A	0	23	50	-35				
DE BILT	95.71	37.3	13	16	-2	24	35	10	13	36	23	46 SKS
PAVIA	96.00	44.7	13	20A	1	24	35	7			17	4 PP
STRASBOURG	96.13	41.2	13	20A	0	24	33	4	13	45	17	7 PP
KARAPIRO	96.19	227.6	13	23	3							
ZURICH	96.28	42.5	13	20	-1	23	53	-37				
MIRNY	96.30	174.2	13	19K	-2	24	23	-7				
BENSBERG	96.51	38.8	13	21A	-1	23	59	-33				
ROXBURGH	96.54	218.6	13	19	-3	24	51	19			23	53 SKS
KARLSRUHE	96.67	40.9	13	22	-1	24	40	7	13	44	17	2 PP
CHUR	96.74	43.2	13	23	0	23	53	-41			17	16 PP
EBINGEN	96.77	41.8	13	23	0	23	56	-38	13	42	17	13 PP
WITTEVEEN	96.80	36.9	13	24	1				13	43		
TUBINGEN	96.94	41.5	13	23	-1	23	57	-39	13	43	17	18 PP
PRATO	96.95	46.4	12	33	-51	22	55	-101				
FLORENCE X.	97.02	46.5	13	23	-1	23	53	-43	13	41	25	59 PS
RAVENSBURG	97.07	42.3	13	29	5	23	57	-40				

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MUNSTER	97.89	37.9	13	24	0					13	50
STUTTGART	97.09	41.3	13	24A	0	24	35	-2	13 44	17	17 PP
BOLOGNA	97.28	45.8	13	17	-8	23	47	-52		17	11 PP
WILKES	97.31	181.3	13	26	1	23	54	-45		17	18 PP
ROME	97.38	48.6	13	27	1	24	51	12	13 46	17	21 PP
ONERAHI	97.99	229.1	13	23	-6					17	41 PP
BERGEN	98.51	29.4	13	30	-1				13 57	17	27 PP
REGGIO CALA.	98.75	52.9	13	53	21	23	57	-54			
COLLEGE	98.86	335.3	13	32A	-1	24	1	-51	14 1	31	32 SS
JENA	99.17	39.6	13	33	-1	25	1	6	13 50	17	36 PP
TRIESTE	99.23	45.2	13	33	-1	24	10	-45	13 53	17	35 PP
PLAUEN	99.41	40.1	13	33	-2	24	5	-52	13 50	17	43 PP
CHEB	99.45	40.6	13	36	1	24	59	2		24	8 SKS
HALLE	99.54	39.1	13	35	-1	24	11	-47	13 55	17	34 PP
COLLMBERG	100.13	39.5	13	38	0	24	13	-50		17	43 PP
LWIRO	100.24	95.5	13	45	6	24	17	-46			
POTSDAM	100.43	38.4	13	40	0	24	10	-55	13 59	17	44 PP
TARANTO	100.51	50.9	12	56	-44	24	21	-45		29	29 SS
PRAGUE	100.73	40.9	13	42	1	24	47	-21	14 0	17	50 PP
PRUHONICE	100.78	41.0	13	41	0	24	49	-19	14 6	17	48 PP
ZAGREB	100.79	45.4	13	40	-1	25	4	-4		17	40 PP
COPENHAGEN	100.85	35.1	13	43	1	24	54	-15	14 2	17	47 PP
ASTRIDA	101.02	96.1	13	47	5					17	52 PP
VIENNA-H.	101.58	43.0	13	45	0	25	24	9		17	52 PP
NORD	101.74	7.1	13	45A	0	24	19	-57	14 7	17	52 PP
SUVA	102.01	246.8	13	44	-3	24	58	-20		17	58 PP
SUVA	102.01	246.8				25	32	14			
BRATISLAVA	102.04	43.2	13	47K	0	25	3	-15		17	52 PP
SKALSTUGAN	102.53	27.2	13	51	2					29	48 PKKP
RACIBORZ	103.11	41.4	13	52	1	24	29	-58		18	3 PP
BUDAPEST	103.21	44.1								18	16 PP
BELGRADE	103.69	47.0	13	59K	5	24	35	-57		18	1 PP
SZEGED	103.71	45.5	15	44	110					18	40
SKOPJE	103.88	50.0	14	23A	28	25	2	-32		18	37 PP
KRAKOW	104.20	41.6	13	56	0	24	30	-67	14 17	18	7 PP
SKALNATE PL.	104.27	42.6	14	25	28	25	19	-18		24	30 SKS
UPPSALA	104.38	31.4	14	1	4	24	25	-73		18	14 PP
TIMISOARA	104.38	46.2								24	15
ATHENS	104.95	54.4							14 1		
WARSAW	105.20	39.5				25	55	24		18	19 PP
SOFIA	105.41	49.5	14	2	777	24	43	-49		17	46 PP
KERGUELEN I.	106.39	155.6	17	52	777					27	40 PS
KIRUNA	106.46	23.3	14	16	777					18	27 PP
BUCHAREST	107.63	48.0	14	2	777	24	47	2	14 32	18	25 PP
IASI	108.91	45.2								18	46
ISTANBUL KA.	109.46	51.8	14	18	777						
HELWAN	109.97	63.8								14	44 PP
NOUMEA	110.43	237.9	18	59	36						
PULKOVO	110.77	31.8	14	28	-236	24	55	-1		19	21 PP
TANANARIVE	111.30	118.5	14	54	-211					19	6 PP
APATITY	111.42	23.4	18	57	32	25	2	4			
SIMFEROPOL	113.37	47.8	14	48	-221	25	8	2		22	8 PKS
JERUSALEM	113.52	62.2	18	3	-26					29	52
KSARA	114.26	60.0	18	31	1					14	47 P
RIVERVIEW	114.72	219.3	19	29A	58				20 29		
MOSCOW	115.01	35.9	18	20	-12					19	30 PP
MELBOURNE	115.29	212.3				25	16	3		19	34 PP
BRISBANE	117.68	225.8	18	30	-7	25	27	5			
TIFLIS	121.28	51.1	18	50	6	25	42	8		27	14 SKKS
GORIS	122.64	53.5	18	53	6	25	49	10		15	25 P
TIKSI	123.62	352.0	18	50	1	25	43	1		20	51 PP
PETROPAVLOVK	126.13	324.4	19	1	8	25	57	8		27	47 SKKS
SVERDLOVSK	126.82	30.0	18	58	3						
MAGADAN	126.91	334.1	18	57	2					20	56 PP
PERTH	130.96	189.5	19	6	3	25	4	-59	19 36	21	5
RABAUL	131.15	248.8	19	4	1					22	24 SKP
ASHKABAD	132.16	53.7	19	8	3					31	27 SKSP
PORT MORESBY	132.92	239.4	19	10	4	26	9	2		20	38 PP
TRUK	135.69	263.5	18	29A	-43				19 38	21	51 PP
Y.-SAKHLINSK	138.07	323.7	19	22	6					22	33 PP
TASHKENT	139.08	45.3	19	9	-9					32	25 PS
STALINABAD	139.83	49.4	19	18	-1					22	19 PP
SEMIPALATNSK	139.91	27.0	19	22	3				19 55	22	26 PP
QUETTA	140.73	62.6	19	16	-5				19 50	22	29 PP
KARACHI	141.41	69.4	19	27	5						
FRUNSE	141.77	40.1	19	17A	-6					32	40 PS
WARSAK DAM	143.53	55.0	19	25	-1						
GUAM	143.85	270.1	19	25K	-1	26	26	1	19 48	20	2 *SP

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IRKUTSK	144.43	3.3	19	27A	0					29	32 SKKS
TUKUBASAN	145.12	310.2	19	29K	1	-					
MATUSIRO	146.33	312.0	19	32K	1	25	41	-48	20 1	41	50 SS
LAHORE	146.53	57.7	19	33	2				20 0	23	3 PP
BOMBAY	147.01	80.9	19	40	8					23	15 PP
POONA	147.97	81.7	19	36	3	26	47	16		22	30 PP
KYOTO	148.83	311.2	19	42A	7						
ULAN-BATOR	148.86	0.7	19	40	5						
CHANGCHUN	149.00	334.4	19	39A	4						
DEHRA DUN	149.95	57.9	19	44	8					20	58 PP
KODAIKANAL	150.19	98.6	19	43	6						
AGRA	150.88	64.0	19	39A	1	26	39	4		20	39 PP
KOROR	151.98	253.8	19	40	1	26	37	0		23	32 PP
HYDERABAD	152.30	84.2	19	48	8	24	42	-115		22	36 PPP
MADRAS	153.42	94.3	19	46	5						
PEKING	155.54	343.6	19	51	7					23	51 PP
VIZIANAGRAM	157.08	82.9	19	54	8					43	46
DJAKARTA	157.26	178.5	19	50	4					24	9 PP
WUWEI	158.44	10.3	19	59	11						
BOKARO	158.53	67.2	19	56	8	24	44	-119		23	27 PP
LHASA	160.21	46.5	19	53K	3				20 12	24	22 PP
LANCHOW	160.43	8.7	19	58	8						
ZO-SE	160.96	321.3	19	52K	1				20 12	24	20 PP
CALCUTTA	161.12	69.1	19	58	7					24	24 PP
NANKING	161.56	328.0	19	54	3					24	23 PP
SIAN	162.47	355.9	20	6	14						
SHILLONG	163.03	56.1	19	52K	-1					24	27 PP
CHITTAGONG	164.26	66.6	19	58	4						
MEDAN	164.39	145.7	19	56K	2					24	56 PP
PORT BLAIR	164.90	107.4	20	0	5					24	48 PP
CHENGTU	165.76	12.0	19	58K	3				20 18	24	42 PP
MANILA	166.77	262.7	19	29	-27					25	5 PP
BAGUIO CITY	167.38	270.6	19	58	2						
KUNMING	170.59	27.3	20	1K	3				20 21	25	8 PP
CANTON	171.60	320.0	20	1	2					25	10 PP
NHATRANG	175.22	201.5	20	13	13	27	12	19			
PHU-LIEN	175.85	10.3	20	1	0					25	29

JANUARY 15 22.H 16.M 8.S EPICENTRE -13.79 166.24 DEPTH= 164.KM

DEPTH OF FOCUS= 0.021R

A=-0.94365 B= 0.23116 C=-0.23684 D= 0.2379 E= 0.9713
G= 0.2300 H=-0.0564 K=-0.9715 HT= 6.0

SE= 4.45

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
NOUMEA	8.47	178.7	1	44	-16	3	39	5					
RABAUL	16.83	303.2	3	46	-1	7	23	31			12	2	SCP
BRISBANE	18.37	220.1	3	59	-5	7	37	17					
PORT MORESBY	19.19	281.1	4	13	0	8	2	25	4	41	8	40	*SS
APIA	21.35	92.7	4	31	-4	8	19	2					
ONERAHI	23.08	162.9	4	53	2	9	2	15					
RIVERVIEW	24.20	211.9	5	7	5	9	21	15					
AUCKLAND	24.23	163.1	5	8	6	9	26	20					
KARAPIRO	25.41	162.7	5	16	3	9	52	26			5	51	PP
TRUK	25.50	325.1	5	10	-4								
TONGARIRO	26.61	163.7	5	17	-7								
COBB RIVER	27.77	169.4	5	40	5								
WELLINGTON	28.38	166.4	5	49	9	10	18	4			6	40	PP
GEBBIES PASS	30.31	170.8	5	58	0								
MELBOURNE	30.51	214.5	6	3	4	11	3	16			7	5	PP
ROXBURGH	31.77	175.9				11	12	5					
FORT NELSON	33.29	205.7	6	16K	-7				6	24			
GUAM	34.45	321.0	6	35	2	12	7	19					
KOROR	37.87	301.7	7	8	6	12	59	18					
PERTH	49.37	239.7	8	41	7	15	48	21			10	37	PP
HONOLULU	49.42	45.7	8	46	11	15	34	6			9	18	
KIPAPA	49.55	45.7	8	35	-1								
HAWAII V.OB.	50.26	49.8	8	58	17	16	2	23					
BAGUIO CITY	54.18	302.2	9	8	-2	16	49	17					
KYOTO	56.51	330.0	9	19K	-8								
MATUSIRO	56.62	333.1	9	24A	-4	17	20	15					
CAPE HALLETT	58.54	178.5	10	37	56								

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DJAKARTA	58.87	271.1	9	47K	4	17	53	19			
ZO-SE	62.16	316.6	10	2	-4						
CANTON	63.47	304.8	10	13A	-1	18	49	17			
WILKES	63.99	201.9	10	21	3	18	55	16	23	4	SS
SCOTT BASE	64.07	179.9	10	13A	-5	18	55	15	20	9	SCS
NANKING	64.34	316.1	10	17	-3	18	58	15			
PETROPAVLOVK	66.96	355.0	10	31	-6				12	55	PP
PHU-LIEN	67.90	299.4	10	39	-3				13	20	
CHANGCHUN	68.42	329.3	10	43A	-3						
MEDAN	69.17	279.3	10	49	-1				13	24	PP
MIRNY	70.78	203.9	10	56	-4	20	11	11			
PEKING	70.91	321.5	10	59A	-2	20	21	20			
KUNMING	72.98	301.9	11	13A	0	20	45	20	14	3	PP
BYRD STATION	73.79	169.9	11	11	-7	20	48	14	12	10	
MAGADAN	74.15	351.9	11	15	-5						
CHENGTU	74.34	307.6	11	20A	-1	20	55	15	14	10	PP
SOUTH POLE	76.30	180.0	11	26	-6	21	9	8	38	20	PKPPKP
LANCHOW	76.96	312.5	11	33	-2	21	26	18			
PORT BLAIR	77.15	285.5	11	42	5	21	31	21	14	37	PP
ULAN-BATOR	80.91	324.1	11	56	-1	22	10	20			
CHITTAGONG	81.25	295.6	11	57	-2						
SHILLONG	82.25	298.6	12	2A	-2	22	18	14			
UKIAH	84.10	47.5	12	31	18						
LHASA	84.28	302.2	12	14A	0	22	40	16	22	35	SKS
BERKELEY	84.31	49.0	12	16	2				16	0	PP
CALCUTTA	84.37	294.7	12	24	10	22	48	23	15	42	PP
LICK	84.57	49.6	12	16	1						
IRKUTSK	84.59	327.0	12	13A	-3						
SHASTA	85.29	46.3	12	18	-1						
MINERAL	85.72	46.8	12	22	1						
FRESNO	85.74	50.7	12	39	18						
COLLEGE	85.74	17.9	12	21	0						
PASADENA	86.09	53.6	12	21	-2				15	56	PP
RENO	86.70	48.1	12	44	18						
TIKSI	88.84	348.9	12	27	-9	23	1	-6			
BOULDER CITY	89.27	52.8	12	37	-1				12	57	
EUREKA	89.48	49.2	12	36	-3				16	23	PP
HALLEY BAY	90.52	176.8	12	40	-4	23	0	-22			
KODAIKANAL	91.21	280.2	12	59	12						
TUCSON	91.40	57.3	13	3	15				16	32	PP
HYDERABAD	91.99	287.3	12	59	8	23	26	-9	16	41	PP
SALT LAKE C.	92.88	48.8	13	3	8						
HUNGRY HORSE	93.49	41.1	13	0	2				16	45	PP
DEHRA DUN	95.30	299.8	13	37	31				17	4	PP
BOMBAY	97.33	287.6	13	8	-8				17	18	
SEMIPALATNSK	97.96	319.9	13	14	-4				17	14	PP
LAHORE	98.68	300.3	13	23	2				17	29	PP
RAPID CITY	99.85	47.0							17	19	PPP
FRUNSE	100.44	311.7							17	40	PP
WARSAK DAM	101.41	302.4	13	32	-1						
KARACHI	104.04	293.5	13	50	5						
TASHKENT	104.15	309.5							18	1	PP
STALINABAD	104.24	306.7							18	5	PP
QUETTA	104.73	297.9	13	51	3	24	31	-52	18	17	PP
RESOLUTE	105.55	15.8	13	52	777				18	8	PP
TANANARIVE	111.42	243.1	18	20	6				19	2	PP
ASHKABAD	112.39	305.5	18	15	-1				19	20	
HUANCAYO	113.79	109.9	18	21	2				19	21	PP
COLUMBIA	116.34	58.8							19	40	PP
APATITY	118.18	341.4	18	31	4						
LA PAZ	118.44	117.5	18	33	5	25	13	7	29	37	PS
CHINCHINA	118.49	91.8	17	50	-38				19	12	PP
OTTAWA	119.33	45.5	18	31	2						
BOGOTA	119.91	92.6							19	57	PP
SODANKYLA	120.31	343.1	18	35	4						
FUQUENE	120.43	91.7							19	44	PP
KIRUNA	121.61	345.5	18	36	2						
SEVEN FALLS	122.26	42.7	18	32	-3						
TIFLIS	122.44	310.8	18	35	0				20	22	PP
MOSCOW	122.56	328.4	18	37	1				20	21	PP
KIMBERLEY	123.64	221.1	18	37A	-1						
HELSINKI	125.73	337.3	18	43	1						
SKALSTUGAN	127.04	345.8	18	47	3						
UPPSALA	128.54	340.4	18	51	4				22	9	PKS
SIMFEROPOL	129.01	317.3	18	54	6				20	58	
SAN JUAN	129.62	77.5	18	52	3				19	18	
BERMUDA	130.13	59.2							22	15	PKS
KSARA	130.92	302.9	18	57	5				21	21	PP

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JERUSALEM	131.85	300.4	18	47	-6				22	28	
WARSAW	132.65	331.5							22	34	SKP
ASTRIDA	133.90	252.6	18	54	-3				21	35	PP
ISTANBUL KA.	133.92	314.5	18	58	1				21	28	PP
FORT FRANCE	134.13	82.8							22	27	PKS
KRAKOW	134.60	329.8							21	40	PKS
LWIRO	134.89	252.6	18	56	-3				21	42	PP
RACIBORZ	135.41	330.9	19	1	1				23	8	
HELWAN	135.49	298.7	19	3	3				21	37	PP
POTSDAM	135.94	336.6	19	4	3				21	39	
COLLMBERG	136.80	335.6	19	4	1				22	1	
SOFIA	137.00	319.3	19	7	4				21	54	PP
HALLE	137.06	336.5	19	0	-3				22	5	PP
PRAGUE	137.13	333.4							22	44	PKS
PRUHONICE	137.14	333.2							22	4	PP
JENA	137.65	336.3	19	2	-2				21	57	PP
WITTEVEEN	137.80	341.6	19	8	4				21	58	PP
CHEB	137.99	334.9	19	22	17				22	14	PP
DURHAM	138.01	349.5	18	55	-10				22	42	SKP
MUNSTER	138.22	340.2	19	9	4						
DE BILT	138.87	342.2	19	4	-3				21	58	PP
ATHENS	138.97	312.9	19	14	7				22	14	PP
BENSBERG	139.23	339.8	19	45	38				21	54	PP
RATHFARNHAM	140.14	353.0							22	46	
STUTTGART	140.30	336.2	19	7	-2				22	10	PP
TRIESTE	140.64	329.3	19	9	-1				22	11	PP
EBINGEN	140.87	335.8	19	8	-2						
KEW	140.88	346.7	19	13	3				22	51	PKS
STRASBOURG	141.01	337.2	19	8	-2				22	13	PP
BASLE	141.94	336.4	19	18K	6				28	30	
NFUCHATEL	142.62	336.5	19	1	-12						
BOLOGNA	142.66	330.0	19	33	20				23	11	
PAVIA	143.16	332.6	19	16	2				22	26	PP
FLORENCE X.	143.23	329.2	19	8	-6				22	22	PP
PRATO	143.23	329.5	19	37	23						
OROPA	143.33	334.2	19	42	28				22	40	
ROME	143.91	325.9	19	12A	-3			19 23	22	36	PP
REGGIO CALA.	144.41	318.3	19	14	-2						
MONACO	145.07	332.8	19	16	-1						
CLERMONT-FD.	145.07	339.2	19	17	0				22	45	PP
SERRA PILAR	152.39	351.6	19	25K	-4				19	41	PKP2
ALGIERS UNI.	152.62	329.7	19	28	-1				23	24	PP
TOLEDO	152.64	343.6	19	35	6				19	57	
ALICANTE	152.85	336.7	19	28	-1	26	34	16	23	1	PKS
RELIZANE	154.62	332.0	19	29	-3				20	2	PKP2
LISBON	154.83	351.5	19	56A	24				20	20	PKP2
ALMERIA	154.91	338.3	19	37	5						
GRANADA	155.00	340.5	19	55K	23				23	49	PP
MALAGA	155.68	341.5	19	36K	3				19	57	PKP2
TAMANRASSET	159.64	298.8	19	39	1	27	0	35	20	23	PKP2

JANUARY 16 4.H 16.M 53.5 EPICENTRE -15.79-174.99 DEPTH= 281.KM

DEPTH OF FOCUS= 0.039R

A=-0.95907 B=-0.08416 C=-0.27036 D=-0.0874 E= 0.9962
G= 0.2693 H= 0.0236 K=-0.9628 HT= 5.6

SE= 1.37

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
APIA	3.68	57.9	1	0	-2	1	47	-4				
SUVA	6.73	248.6	1	42	4	3	0	5				
NOUMEA	18.70	246.9	3	59	-1							
ONERAHI	22.06	203.6	4	35	2							
KARAPIRO	23.59	199.0	4	47	0							
BRISBANE	31.83	243.2	5	59K	-2						7	23
RABAUL	34.27	286.1	6	20	-2							
TRUK	40.16	302.7	7	10	-1							
MELBOURNE	41.52	230.2	7	20K	-2							
FORT NELSON	41.99	222.1	7	22A	-3							
KOROR	55.06	290.9	9	6	1							
TUKUBASAN	66.90	321.6	10	24K	0							
MATUSIRO	68.26	320.8	10	32	0							
BYRD STATION	68.81	171.1	10	36	0				11	41		
BERKELEY	72.77	41.2	10	59	0							

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LICK	72.85	42.0	11 1	1				
PASADENA	73.38	46.4	11 4	1				
FRESNO	73.73	43.4	11 5	0				
SOUTH POLE	74.31	180.0	11 8	0				
MINERAL	74.66	39.5	11 10	0			14 47	PP
RENO	75.30	41.0	11 14	0				
MIRNY	76.45	204.3					20 37	
BOULDER CITY	76.67	46.3	11 22	0				
EUREKA	77.74	42.8	11 27	0				
TUCSON	77.76	51.3	11 29	1				
SALT LAKE C.	81.11	43.3	11 46	1				
COLLEGE	83.03	11.3	11 55	0	13 1			
HUNGRY HORSE	83.66	35.9	11 58	0				
BOZEMAN	84.04	39.3	12 2	2				
RAPID CITY	88.31	43.2	12 21	0			13 58	
BENSBERG	144.87	357.6	19 21	17				
STUTTGART	146.93	354.9	19 12	5	20 24			
ASTRIDA	149.49	235.3	19 19	8				
LWIRO	150.43	234.8	19 22	10				
TAMANRASSET	173.03	356.2	18 39	-56	20 53		25 4	PP

JANUARY 16 4.H 18.M 15.S EPICENTRE 39.51 25.45 DEPTH= 0.KM

A= 0.69859 B= 0.33245 C= 0.63360 D= 0.4297 E=-0.9030
G= 0.5721 H= 0.2723 K=-0.7737 HT= -1.5

SE= 2.94

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S	
ATHENS	2.04	221.9	0 36A	0	0 57	-5		1 1	SG
ISTANBUL KA.	3.18	59.4	0 49	-3				1 44	SG
SOFIA	3.57	334.0	0 59	2				2 6	SG
SKOPJE	3.95	310.1	1 3K	0	2 1	10		1 53	
BUCHAREST	4.93	5.4	1 14A	-3	2 25	10		2 50	
CAMPULUNG	5.77	357.1	1 32	4				3 19	
FOCSANI	6.32	11.2	0 41	-55				4 27	
TARANTO	6.37	281.3	1 50	13				9 25	
BELGRADE	6.48	326.7	1 48A	9				3 18	
TIMISOARA	6.97	334.8	1 47	1	3 9	2		3 43	
REGGIO CALA.	7.78	262.7	1 58	1	3 26	-1			
SZEGED	7.79	331.7	1 57	0				4 10	SG
IASI	7.84	10.7	1 55	-3	2 51	-37		2 36	
KISHINEV	7.90	17.1	1 54	-5				4 7	
YALTA	8.16	49.7	2 0	-2				3 36	
SIMFEROPOL	8.42	47.0	2 1K	-5	3 34	-9			
KALOCSA	8.47	328.1	2 30	24	3 32	-12			
RAKHOV	8.48	353.8	2 2	-4					
KECSKEMET	8.51	332.4			4 19	34		2 33	PG
CERNAUTI-2	8.80	2.1	2 9	-2	3 53	1		4 38	
BUDAPEST	9.22	331.9	2 16	-1	4 19	17		4 50	SG
UZHGOROD	9.40	347.1	2 17	-2				4 18	
ZAGREB	9.40	315.2	2 22	3				4 38	
HURBANOVO	9.87	330.3			6 27	129		8 25	
KSARA	10.12	120.9	2 25	-4	4 22	-3			
ROME	10.13	287.8	2 32	3	4 55	30		5 22	
SKALNATE PL.	10.36	340.7						5 44	
LWOW	10.37	354.9						5 15	
BRATISLAVA	10.55	327.9	2 35	0	4 30	-5		3 5	
TRIESTE	10.58	309.2	2 36	0	4 37	1		3 20	PGPG
HELWAN	10.76	151.5	2 34	-4				4 29	
JERUSALEM	11.07	131.2	2 39	-3	5 16	28			
KRAKOW	11.24	341.5	2 45	0	4 43	-9		3 2	PPP
FLORENCE X.	11.45	296.5	2 51A	4	5 6	9			
PRATO	11.58	296.8	3 30	41	5 4	4			
BOLOGNA	11.63	300.0	3 16	26				6 54	
RACIBORZ	11.75	336.5	2 50	-1				5 50	
PRUHONICE	13.01	327.2	3 9	1	5 25	-10			
PRAGUE	13.13	327.2			6 10	32			
PAVIA	13.30	300.5	3 26	14	5 14	-28			
CHUR	13.73	307.5	3 16	-2				7 47	
PIATIGORSK	13.90	65.3	3 31	11					
CHEB	14.04	323.1	3 19	-3				6 18	
RAVENSBURG	14.11	311.0	3 27	4					
MONACO	14.12	293.2	3 22	-1				3 34	PP

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OROPA	14.25	301.1	3	35	10				3	52	
PLAUEN	14.44	323.9	3	26	-1				8	27	
ZURICH	14.54	308.2	3	28	-1						
COLLMBERG	14.66	327.7	3	30	0				8	20	
EREVAN	14.66	81.3	3	32	2						
EBINGEN	14.69	311.5	3	28	-3				4	5	PP
TUBINGEN	14.81	312.9	3	30	-2						
TIFLIS	14.86	75.2	3	36	3						
STUTTGART	14.87	313.8	3	29	-4				6	51	SS
JENA	15.00	324.1	3	37	2	6	42	19	5	53	
BASLE	15.22	307.6	3	37K	0				8	43	
HALLE	15.25	326.3	3	39	1	6	44	16	8	12	
NEUCHATEL	15.40	305.1	3	39	-1				4	18	
KARLSRUHE	15.44	313.5	3	46A	6	6	51	18	5	12	
POTSDAM	15.46	330.5	3	43	2				8	26	
STRASBOURG	15.59	311.4	3	48	6	6	51	15			
GROZNY	15.70	69.4	3	47	3						
KIROVOBAD	16.05	78.9	3	49	1						
GORIS	16.12	83.4	3	53	4				6	6	
BENSBERG	17.18	317.8	4	4K	2	7	14	1			
MUNSTER	17.55	321.1	4	6	-1						
CLERMONT-FD.	17.55	298.2	4	7	0	8	14	52			
ALGIERS UNI.	17.83	268.3	4	8	-3	7	34	6	4	56	
MOSCOW	18.14	22.5	4	12	-3				7	51	SS
COPENHAGEN	18.35	336.1	4	17	0						
WITTEVEEN	18.54	322.1	4	20	1						
DE BILT	18.85	318.6	4	23	0	8	3	12			
TORTOSA	19.10	282.0	4	55	29						
RELIZANE	20.05	267.1	4	35	-2				4	51	
ALICANTE	20.19	275.0	4	30	-9	8	8	-12	4	48	PP
PULKOVO	20.52	7.0	4	41	-1						
HELSINKI	20.69	359.3	4	40	-4						
UPPSALA	20.96	348.9	4	43K	-3						
KEW	21.54	312.2	4	54	2	8	51	4			
ALMERIA	22.07	272.0	5	6	8						
TOLEDO	22.66	280.4	5	3	-1						
GRANADA	22.86	273.4	5	1A	-5				6	20	PP
MALAGA	23.60	272.7	5	3A	-10	8	43	-41	7	41	
DURHAM	23.69	319.1	5	16K	2						
TAMANRASSET	23.77	231.3	5	16	2	9	38	11	5	47	PP
ABERDEEN	25.18	322.7							13	21	
SKALSTUGAN	25.36	346.2	5	30K	0						
RATHFARNHAM	25.61	313.1	5	33	1				6	54	
SERRA PILAR	25.92	284.6	5	27A	-8				6	7	PP
LISBON	26.76	279.5	5	43A	0						
SODANKYLA	27.92	1.0	5	52	-1						
APATITY	28.45	6.4	5	57	-1						
KIRUNA	28.51	356.0	5	58K	-1						
SVERDLOVSK	28.73	41.2	6	2	1						
STALINABAD	33.43	77.6	6	45	3						
QUETTA	35.05	92.4	6	55	-1						
WARSAK DAM	37.03	83.7	7	12	-1						
KARACHI	37.25	98.7	7	21A	6						
LAHORE	40.16	85.8	7	40	1						
LWIRO	41.67	175.0	7	51K	0	14	9	0			
KHEYS	41.91	6.7	8	14	21						
ASTRIDA	42.08	173.6	7	54	-1	15	4	49			
NORD	44.68	351.9	8	4	-12						
RESOLUTE	59.54	344.6	10	5A	-2						
TANANARIVE	61.68	156.1	10	21A	-1						
SEVEN FALLS	66.11	312.1	10	49	-2						
SHAWINIGAN	67.53	312.3	11	0	0						
OTTAWA	69.88	312.6	11	17	3						
HUNGRY HORSE	85.43	334.2	12	40	0						15 58 PP
BOZEMAN	86.66	331.1	12	50	4						
BUTTE	86.92	332.2	12	47	-1						
EUREKA	93.83	331.1	13	22	2						
TUCSON	97.89	323.8	13	40	2						
SOUTH POLE	129.32	180.0	19	7	-3						
BYRD STATION	137.26	188.5	19	30	5						

JANUARY 16 11.H 3.M 35.S EPICENTRE -13.76 166.58 DEPTH= 0.KM

A=-0.94514 B= 0.22558 C=-0.23627 D= 0.2321 E= 0.9727
G= 0.2298 H=-0.0548 K=-0.9717 HT= 6.0

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SE= 3.30

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
NOUMEA	8.50	180.8	2 5	-2	3 47	2		
SUVA	12.21	112.5	3 0A	2	5 24	8		
RABAUL	17.09	302.4	4 7	5				5 16
BRISBANE	18.61	220.7	4 21A	1	7 50	4		
PORT MORESBY	19.51	280.7	4 32	1	8 13	7		4 54 PP
ONERAHI	23.01	163.6	5 10	3				
RIVERVIEW	24.41	212.4	5 29A	8	9 41	3		
TRUK	25.66	324.4	5 32	-1				
WELLINGTON	28.34	166.9						11 58 SS
ROXBURGH	31.78	176.3			11 43	5		
FORT NELSON	33.47	206.0	6 41	-2				
PERTH	49.68	239.7	9 0	5				19 55 SS
MANILA	53.19	300.2	9 17	-5				
BAGUIO CITY	54.45	301.9	9 30	-1				
TUKUBASAN	55.64	334.1	9 39	-1				
MATUSIRO	56.74	332.8	9 46A	-2				
CAPE HALLETT	58.56	178.7	10 3	3	18 9	5		25 0 SS
DJAKARTA	59.20	271.0	10 9	4	18 11	-1		
SCOTT BASE	64.10	180.0	10 35A	-3				
WILKES	64.15	202.0	10 34	-4	19 10	-5		
PETROPAVLOVK	66.96	354.8	10 57	1				
CHANGCHUN	68.56	329.1	11 5	-1				
MEDAN	69.50	279.2	11 10	-2				
MIRNY	70.95	204.0	11 18	-3	20 31	-5		
KUNMING	73.24	301.7	11 35A	1	21 3	0		
BYRD STATION	73.76	169.9	11 34	-3	21 6	-2		
MAGADAN	74.16	351.7	11 37	-3				
CHENGTU	74.58	307.5	11 40	-2	21 15	-3		
SOUTH POLE	76.33	180.0	11 49	-3				
LANCHOW	77.18	312.4	12 18	21				
SHILLONG	82.53	298.5	12 24A	-2				
LHASA	84.55	302.1	12 37A	1	23 1	-1		
COLLEGE	85.60	17.8	12 39	-2				
BOULDER CITY	88.99	52.7	13 8	10				
EUREKA	89.21	49.1	12 58	-1				
TUCSON	91.11	57.2	13 30	23				
HUNGRY HORSE	93.25	41.1	13 39	22				
QUETTA	105.00	297.9			24 44	-7		18 28 PP
RESOLUTE	105.43	15.8						33 58 SS
HUANCAYO	113.49	109.8						39 43 PKPPKP
KIMBERLEY	123.88	220.9	18 59K	-1				
UPPSALA	128.62	340.5	19 6	-3				
KSARA	131.18	303.0	19 21	7				21 48 PP
ASTRIDA	134.23	252.5	19 18	-2				22 59 PP
UVIRA	134.46	251.0	19 20	0				23 0 PP
LWIRO	135.22	252.4	19 22	1				23 3 PP
STUTTGART	140.40	336.5	19 30	-1				
ROME	144.07	326.2	19 34	-3				22 54 PP
MONACO	145.19	333.1	19 37	-2				
ALGIERS UNI.	152.75	330.2	19 52	1	27 10	13		24 0 PP
TAMANRASSET	159.91	299.3	20 1	1				24 23 PP
MBOUR	176.50	79.3	19 44	-28				25 54 PP

JANUARY 17 4.H 14.M 11.S EPICENTRE -0.99 127.10 DEPTH= 51.KM

DEPTH OF FOCUS= 0.003R

A=-0.60310 B= 0.79748 C=-0.01715 D= 0.7976 E= 0.6032
G= 0.0103 H=-0.0137 K=-0.9999 HT= 7.2

SE= 1.81

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KOROR	11.07	41.6	2 38	-1	4 51	9		
MANILA	16.61	338.8	2 50	-61	4 38	-135		
BAGUIO CITY	18.46	339.9	4 15	1	7 39	4		
DJAKARTA	20.87	255.2	4 35K	-5	8 27	2		
PORT MORESBY	21.63	113.4	4 50	2	7 52	-47		5 4 PP
GUAM	22.64	50.0	4 57	-1				5 38
RABAUL	25.24	97.7	5 25	2				6 0
TRUK	26.08	70.8	5 31	0				5 54
MEDAN	28.76	279.2	5 55K	0	10 44	4		

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NANKING	33.79	347.3	6	42	3	12	2	4			
BRISBANE	36.22	138.9	6	58	-2	12	37	1			
CHENGTU	38.38	327.0	7	18	0	13	10	1			
MATUSIRO	38.75	14.4	7	20A	-1	13	28	13			
TUKUBASAN	38.95	16.8	7	20A	-3						
MELBOURNE	40.18	157.9	7	34A	1	13	40	4			
PEKING	42.03	347.4	7	48	0						
LANCHOW	42.78	331.9	7	56	1	14	17	3			
SHILLONG	43.09	310.3	7	55K	-2	14	15	-4		17	51
HOWRAH	44.44	304.2	8	11	3						
FORT NELSON	45.52	159.1	8	15K	-2				8 26		
LHASA	45.95	314.5	8	20	0	15	2	2			
MADRAS	48.56	288.3	8	40K	0	15	37	0		10	34 PP
ULAN-BATOR	51.79	342.8	9	4	-1						
AGRA	54.84	304.5	9	26	-2	17	6	3			
POONA	55.79	293.2	9	33	-1	17	16	0		11	38 PP
BOMRAY	56.83	293.3	9	42	0					17	29
LAHORE	59.50	307.9	9	59K	-2					10	42 PCP
WARSAK DAM	62.59	309.5	10	23	2	18	47	3			
MAGADAN	63.16	13.3	10	26	1						
KARACHI	63.75	299.5	10	28K	-1						
QUETTA	65.02	304.0	10	36	-1	19	17	3			
NAMANGAN	65.27	316.7	10	40	1	19	22	5			
WILKES	66.14	187.3				19	30	2			
MIRNY	69.69	193.8								19	11
TIKSI	72.51	0.6	11	23	0	20	41	-2			
HONOLULU	76.22	67.9	11	46	1						
SVERDLOVSK	78.16	329.0	11	56	0						
SCOTT BASE	79.64	172.1	12	22	18						
TIFLIS	84.90	311.9	12	39	8						
COLLEGE	88.79	25.2	12	49	-1						
SOUTH POLE	89.02	180.0	12	50	-1						
BYRD STATION	93.00	170.8	13	10	1					16	48 PP
ASTRIDA	97.32	267.3	13	55	26					17	17 PP
LWIRO	98.25	267.6								17	33 PP
RESOLUTE	102.36	10.5	13	50	-2					32	49 SS
STUTTGART	108.81	321.9	18	44	777						
HUNGRY HORSE	109.56	38.3	18	27	777					18	59 PP
STRASBOURG	109.76	322.0								19	19 PP
EUREKA	111.18	47.7								18	46 PP
RAPID CITY	118.18	39.0								20	6 PP
TAMANRASSET	119.33	295.6	18	47	3					20	16 PP
SHAWINIGAN	131.41	18.2	19	22	15					22	32 SKP
OTTAWA	131.41	21.4	19	19	12					22	31 SKP
SEVEN FALLS	131.47	16.3	19	14	7					22	31 SKP
BREBEUF	132.06	19.6								22	34 PP
HUANCAYO	154.23	120.8	19	51	5					20	58

JANUARY 17 7.H 15.M 38.S EPICENTRE -51.64 139.79 DEPTH= 0.KM

A=-0.47586 B= 0.40234 C=-0.78210 D= 0.6457 E= 0.7636
G= 0.5972 H=-0.5050 K=-0.6232 HT= -6.0

SE= 3.47

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
FORT NELSON	10.11	33.4	2	7A	-22	3	53	-32					
MELBOURNE	14.29	16.9	3	23A	-3	6	8	2			3	32	PP
RIVERVIEW	19.62	29.2	4	32A	-1	8	19	10					
ROXBURGH	20.38	84.3	4	38	-3						8	41	PCP
WILKES	20.71	214.1	4	39A	-5	8	27	-4			5	52	
KAIMATA	23.24	79.4	5	21	11								
GEBBIES PASS	23.36	83.1	5	13	2								
CAPE HALLETT	24.66	158.1	5	22A	-1	9	49	6			6	34	
WELLINGTON	26.00	80.4	5	37	1	10	8	3			8	22	
BRISBANE	26.12	27.5	5	35A	-2	10	20	13					
PERTH	26.37	309.0	5	41	2	10	19	7			8	8	
MIRNY	27.44	219.3	5	49	0	10	30	1					
SCOTT BASE	28.11	168.2	5	58	3	11	1	21			9	5	PCP
CHARTERS TS.	31.97	11.6	6	26A	-4	11	45	4					
NOUMEA	35.83	45.2	7	8	5	12	49	8					
BYRD STATION	41.42	165.0	7	42	-8	14	8	3			9	13	PP
PORT MORESBY	42.55	10.8	7	58	-1	14	25	3			17	57	SCS
RABAUL	48.40	16.6	8	42	-4								
DJAKARTA	52.88	317.3	9	8	-12	16	28	-20					

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KOROR	58.91	353.9	10	1	-2				12	21	PP
TRUK	59.78	13.9	10	6	-3				10	42	PCP
GUAM	64.98	5.3	10	44	0	19	27	2			
MEDAN	65.16	313.7	10	48	3						
MANILA	67.94	340.3	11	2	-1				13	10	
BAGUIO CITY	69.81	340.3							22	22	
TANANARIVE	76.76	256.3	12	3	8				12	30	PCP
PHU-LIEN	77.76	328.4							21	56	
HERMANUS	79.74	226.3				22	18	4	27	47	SS
KODAIKANAL	81.55	298.2							22	43	
KIMBERLEY	81.78	233.5	12	17	-5						
MADRAS	82.39	302.0							22	47	
KUNMING	83.02	326.5	12	33	5	22	51	3			
ZO-SE	83.99	344.0	12	33	0						
HYDERABAD	86.99	303.0				23	32	6			
SHILLONG	87.62	317.9	12	48A	-3				23	35	
CHENGTU	87.78	329.7	12	52K	0	23	22	-12			
MATUSIRO	87.83	358.7	12	52	0	23	37	3	24	52	PS
BOKARO	88.78	312.2				23	44	1	16	21	
BOMBAY	91.20	299.4							24	25	
LHASA	91.55	319.1	13	12	2						
LWIRO	101.10	251.9				25	51	21	18	27	PP
QUETTA	103.41	301.7	14	12	8						
WARSAK DAM	104.08	307.3	13	52	-15						
LA PAZ	107.91	151.8	19	3	777	24	55	3	25	47	SKKS
HUANCAYO	109.66	143.3							28	7	PS
PASADENA	123.01	75.3	19	2	4						
KSARA	123.91	283.1	19	4	4				20	51	PP
SHASTA	124.93	66.7	19	3	1						
MINERAL	125.15	67.5	19	3	0						
BOGOTA	125.34	137.1							37	32	SS
RENO	125.66	69.4	19	8	4						
BOULDER CITY	126.27	75.9	19	7	2						
EUREKA	127.87	71.9	19	10	2				20	26	
COLLEGE	128.81	31.5	19	11	1						
SALT LAKE C.	131.14	73.2	19	19	5						
LUBBOCK	132.66	87.4	19	17	0						
HUNGRY HORSE	134.31	63.5	19	17	-3						
TAMANRASSET	134.63	248.2	19	17	-4				23	40	PKS
RAPID CITY	138.26	74.7	19	26	-1						
RACIBORZ	143.94	291.2	19	34	-3						
TRIESTE	144.54	282.1	19	28	-10				22	31	PP
FLORENCE X.	145.13	277.7	19	36	-3				29	55	SKKS
COLUMBIA	145.80	104.9	19	45	5				20	58	
PRUHONICE	146.03	289.3	19	42	1				21	54	
PRAGUE	146.14	289.4	19	46	5				21	9	
ALGIERS UNI.	146.15	261.1	19	48	7				23	24	PP
KIRUNA	147.09	322.5	19	43	0				21	7	
CHEB	147.36	288.4	19	49	6				24	6	
UPPSALA	147.41	307.5	19	48	5				21	2	
COLLMBERG	147.46	290.8							35	45	
MONACO	147.47	275.0	19	50	7						
HALLE	148.15	290.7	19	46	2				21	32	
JENA	148.15	289.5	19	53	9				20	36	
RESOLUTE	148.18	24.3	19	46K	2				42	27	SS
CHAPEL HILL	148.30	104.4	19	49	4						
ZURICH	148.50	281.8	19	56	11						
EBINGEN	148.62	283.4	19	49	4				21	12	
STUTTGART	148.72	284.6	19	49	4				20	36	PKP2
BASLE	149.18	281.5	19	55	9						
ALICANTE	149.32	260.1	19	46	0	26	53	0	23	25	PP
NEUCHATEL	149.34	280.2	19	45	-1						
STRASBOURG	149.51	283.5	19	51	4						
MORGANTOWN	150.10	97.9	19	46	-1				21	4	
SKALSTUGAN	150.37	314.1	19	52	4						
GRANADA	150.47	255.1	20	2A	14				30	35	SKKS
MALAGA	150.65	253.6	19	53K	5				20	6	PKP2
BENSBERG	150.77	287.6	19	58	10						
MUNSTER	150.84	289.8	19	55	6						
TOLEDO	152.45	259.0	19	56	5						
PARIS	152.82	281.1	20	0	9				24	6	PP
PALISADES	154.63	101.5							43	44	SS
OTTAWA	155.84	90.9	20	4	8						
BREBEUF	157.20	92.4	20	0K	3						
SHAWINIGAN	158.20	90.6	20	3	4						
SEVEN FALLS	159.65	90.7	20	1	1						

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JANUARY 18 15.H 14.M 30.S EPICENTRE -29.06 -13.25 DEPTH= 0.KM

A= 0.85216 B=-0.20073 C=-0.48325 D=-0.2293 E=-0.9734
G=-0.4704 H= 0.1108 K=-0.8755 HT= 2.1

SE= 2.75

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
HERMANUS	28.06	109.3	5	55	2	10	35	-1			6	37	PP
KIMBERLEY	33.20	98.9	6	34	-4								
GRAHAMSTOWN	34.19	107.4	6	46	-1								
PIETERMZBURG	37.89	101.8	7	19	1								
MBOUR	43.33	354.7	8	3	0						9	48	PP
UVIRA	47.57	65.7	8	35	-2								
LWIRO	48.06	64.1	8	39A	-2	15	39	1					
ASTRIDA	48.58	65.3	8	43	-2								
LA PAZ	51.71	271.4	9	7A	-2	16	30	2			10	30	PCP
TAMANRASSET	54.62	21.4	9	28	-2	17	7	-1			11	36	PP
TANANARIVE	55.94	94.1	9	40A	0						11	43	PP
HUANCAYO	59.91	272.6	10	6	-2	18	1	-17			12	45	PP
SOUTH POLE	61.10	180.0	10	14	-2						12	23	PP
BYRD STATION	64.34	190.7	10	36	-1	19	20	7			12	57	PP
RELIZANE	65.76	12.3	10	50	3								
MALAGA	65.96	7.8	10	50K	2						11	20	PCP
ALMERIA	66.34	9.4	10	48	-2								
GRANADA	66.51	8.4	10	54A	3						14	6	PP
BOGOTA	67.24	289.3	11	0	4	20	4	15					
LISBON	67.54	3.5	11	OK	2								
TOLEDO	69.12	7.6	11	4	-4								
SAN JUAN	69.49	306.1	11	11	1								
MIRNY	69.83	155.8	11	13	1	20	24	4					
SERRA PILAR	69.97	3.7	11	12A	-1								
HELWAN	72.41	39.8	11	27	-1	20	54	5					
SCOTT BASE	73.33	180.0	11	36	3						14	8	PP
ROME	74.50	19.7	11	42	2								
ATHENS	75.13	29.5	11	42K	-1								
WILKES	75.86	159.7				21	31	3			26	30	SS
FLORENCE X.	75.89	18.0	11	47	-1								
CLERMONT-FD.	75.95	11.7	11	44	-4								
NEUCHATEL	77 88	14.0	11	57	-2								
KSARA	77.93	40.1	12	3	4	22	5	15			14	59	PP
BERMUDA	78.21	317.5				22	38	45					
TRIESTE	78.30	19.0	11	54	-7						12	1	PCP
BASLE	78.51	14.2	11	45	-17						21	4	
PARIS	78.79	10.5	12	4	0						12	37	
SOFIA	78.95	26.6	11	33	-32								
EBINGEN	79.43	14.9	12	8	1								
STRASBOURG	79.55	14.0	12	10	2						15	20	PP
BELGRADE	79.70	23.7	12	12A	3						12	43	
ISTANBUL KA.	80.03	31.1	12	7	-4								
STUTTGART	80.04	14.9	12	7	-4						12	44	
BENSBERG	81.69	12.9	12	23	4						12	52	
CHEB	82.01	16.3	12	34	13						14	58	
PRUHONICE	82.48	17.7	12	24	1	22	27	-11	12	54	16	2	PP
PRAGUE	82.53	17.6	12	27	3						15	45	PP
JENA	82.61	15.5	12	24	0						15	40	PP
MUNSTER	82.74	12.8	12	25	0								
HALLE	83.23	15.5	12	28	1						12	59	
TIFLIS	88.49	39.5	12	57	4								
WESTON	88.93	321.0	12	56K	1								
CHAPEL HILL	89.48	312.2	12	59	1								
SEVEN FALLS	91.86	324.8	12	56	-13								
SHAWINIGAN	92.47	323.5	13	7	-5								
OTTAWA	93.31	321.3	13	2	-14								
KARACHI	94.38	63.0	13	24	4								
MOSCOW	94.94	26.1									29	30	
PULKOVO	95.50	20.5	12	51	-35								
KODAIKANAL	95.52	81.4				24	41	4					
BOMBAY	95.67	71.7	14	3	37						17	32	
QUETTA	96.47	59.2	13	29	-1	24	7	-40			17	25	PP
MADRAS	99.16	80.2	17	2	200						18	37	
WARSAK DAM	101.72	57.7	13	58	4								
LAHORE	102.72	61.0									19	23	
SHILLONG	114.44	73.3									15	54	P
BOULDER CITY	115.16	298.6									19	48	PP
RESOLUTE	115.60	343.0	18	42	0								

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EUREKA	117.08	302.0	18	43	-2					
HUNGRY HORSE	117.98	312.1	18	46	0				19	22
CHARTERS TS.	127.36	155.5	19	7	3					
ULAN-BATOR	130.80	50.2							17	0
COLLEGE	134.37	334.8	19	14	-4					
RABAUL	144.09	154.7	19	29	-6					
MAGADAN	147.63	15.2	19	46	5					
NAGASAKI	148.26	74.0	19	49	7					
KYOTO	153.11	69.3	19	46A	-3					
TRUK	154.34	143.9	20	4	13					
MATUSIRO	154.95	65.3	20	0	8					
TUKUBASAN	156.50	65.4	20	24A	30				20	58 PKP2

JANUARY 19 14.H 7.M 26.S EPICENTRE 1.37 -79.34 DEPTH= 0.KM

A= 0.18501 B=-0.98245 C= 0.02370 D=-0.9827 E=-0.1851
G= 0.0044 H=-0.0233 K=-0.9997 HT= 7.2

SE= 3.33

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
BOGOTA	6.17	58.3	1	23A	-10	2	47	3					
FUQUENE	6.92	53.8	1	42	-1								
BALBOA HTS.	7.55	358.3	1	55A	3	3	41	23					
GALERAZAMBA	10.19	23.2	2	40	12	5	5	41					
HUANCAYO	13.91	163.5	3	12A	-6								
SANTIAGO MA.	15.06	323.5	3	36	2	6	27	6					
SAN SALVADOR	15.71	321.9	3	42A	0	6	46	10					
PORT-PRINCE	18.41	21.5	4	14	-2	7	44	6			4	30	PP
COMITAN	19.43	320.3	4	26	-2	8	4	3			4	42	PP
TRINIDAD	19.97	61.7	4	34	0	8	24	11			8	37	SS
LA PAZ	20.92	148.5	4	40A	-4								
SAN JUAN	21.31	36.7	4	49A	1								
OAXACA	23.16	313.2	5	8A	2	9	30	17			5	34	PP
PUEBLA	25.49	314.7	5	38	9						6	6	PP
ANTOFAGASTA	26.34	161.3	5	35	-2	10	24	17					
TACUBAYA	26.45	313.9	5	38K	0	10	20	11			6	39	
MANZANILLO	30.14	307.3	6	18	7	11	22	14			14	54	
GUADALAJARA	30.28	311.0	6	14	2	11	14	4			9	34	
MOBILE	30.35	344.9	6	13K	0	11	22	11					
COLUMBIA	32.50	357.4	6	30A	-2	11	46	1					
BERMUDA	33.80	22.6	6	43A	0	11	54	-11			7	44	PP
MAZATLAN	34.05	311.6	6	46	1	12	18	9			8	2	PP
CHAPEL HILL	34.38	0.4	6	46	-2	12	26	12					
DALLAS	35.35	334.1	7	0	4								
SANTA LUCIA	35.56	167.5	6	57	-1	12	49	16					
FAYETTEVILLE	37.19	339.9	7	8K	-4	13	8	10	7	19			
GEORGETOWN	37.41	2.9	7	14	0	13	6	5					
WASHINGTON	37.41	2.9	7	15	1	13	19	18					
MORGANTOWN	38.09	359.2	7	18A	-1								
WAYNESBURG	38.36	359.0	7	21	-1								
LUBBOCK	38.37	329.0	7	20	-2	13	23	7					
ST. LOUIS 1	38.41	346.2	7	18A	-4	13	11	-5			8	52	PP
FLORISSANT	38.60	346.1	7	21A	-3	13	14	-5					
CONCEPCION	38.60	170.6	7	34	10	13	42	23			9	2	PP
FORDHAM	39.61	6.5	7	32	0	13	27	-7					
PALISADES	39.77	6.4	7	32	-1	13	40	3					
CLEVELAND	39.98	357.4	7	35	0	13	38	-2			9	24	PP
LA PLATA	41.28	153.0	7	39	-7	13	54	-5			10	14	PPP
WESTON	41.46	9.0	7	48A	1	14	8	6					
TUCSON	42.70	319.3	7	55K	-3	14	1	-19			9	51	PCP
OTTAWA	43.96	3.7	8	5A	-3						9	54	PP
BREBEUF	44.24	5.8	8	8A	-2	14	48	5					
HALIFAX	45.27	15.8	8	19A	1						11	7	PPP
SHAWINIGAN	45.36	6.4	8	17A	-2	15	3	4			10	15	PP
SEVEN FALLS	46.17	8.0	8	24	-1	15	16	6			10	18	PP
RAPID CITY	47.52	336.7	8	33A	-3	15	38	9			10	24	PP
BOULDER CITY	47.62	320.4	8	35A	-2	15	41	10					
PASADENA	48.77	316.3	8	43	-3	15	46	-1	8	53	9	49	PCP
SALT LAKE C.	49.03	327.3	8	49A	1								
EUREKA	50.51	323.2	8	54A	-5								
FRESNO	51.33	318.1	9	4	-1								
BOZEMAN	52.18	332.2	9	10A	-2	16	32	-2					
LICK	52.87	317.7	9	17	0	16	52	8					
RENO	52.91	321.4	9	18	1								

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SANTA CLARA	53.09	317.6	9	21K	2	16	56	9			20	21 SS
BUTTE	53.15	331.5	9	18A	-1							
BERKELY	53.57	317.9	9	21	-2	16	56	-6				
MINERAL	54.50	320.8	9	25K	-4							
UKIAH	54.88	318.8	9	33K	1						12	6
SHASTA	55.19	320.8	9	31	-3							
SASKATOON	55.51	339.9	9	34	-2	17	22	3				
HUNGRY HORSE	55.53	332.6	9	33A	-3						39	49 PKPPKP
CORVALLIS	57.94	324.2	9	52	-2							
BANFF	58.25	334.1	9	49	-7							
SEATTLE	59.20	327.6	10	4A	2	18	19	11				
VICTORIA	60.32	327.8	10	8	-2							
HORSESHOE B.	60.77	328.7	10	10	-3	18	30	2				
LILLOOET	60.90	330.5	9	53	-21							
ALBERNI	61.51	327.9	10	19	1							
MBOUR	62.92	74.6	10	28	0	19	17	22				
IVIGTUT	64.21	16.2	10	42	6	19	26	15			23	27 SS
OHIGGINS	66.49	169.6	11	52	61	20	46	67				
SITKA	71.01	331.4	11	19K	0	20	34	1			14	3 PP
LISBON	73.75	50.0	11	35A	0	21	50	46			14	31 PP
RESOLUTE	73.81	355.7	11	31A	-4	20	54	-11			16	14 PPP
COIMBRA	74.59	48.7	11	40	0	21	14	1			14	29 PP
SERRA PILAR	74.65	47.7	11	40A	0	21	16	2			14	29 PP
REYKJAVIK	75.09	22.5	11	42	-1	21	34	15				
HAWAII V.OB.	76.28	289.6	11	48	-1	21	36	4				
MALAGA	77.12	52.7	11	55A	1	21	49	8	12	13	14	49 PP
AKUREYRI	77.24	21.9				21	34	-9			26	22
GRANADA	77.82	52.4	11	58	0	22	4	15			14	52 PP
TOLEDO	77.85	49.6	11	57A	-1	21	53	4			14	49 PP
ALMERIA	78.67	52.8	12	1	-2	22	13	15			15	14 PP
RATHFARNHAM	78.82	35.8	12	2A	-1	22	5	5			15	8 PP
KIPAPA	78.97	291.4	12	5	1							
HONOLULU	79.04	291.3	12	8	3	22	12	10			27	44 SS
COLLEGE	79.75	336.2	12	4A	-4	22	9	0			27	37 SS
ALICANTE	80.41	51.5	12	19	7	22	27	11			15	21 PP
LOME	80.47	84.1	12	12	0	22	26	9				
RELIZANE	80.99	54.2	12	16A	1	22	34	12			15	34 PP
DURHAM	81.83	34.9	12	19K	0	22	28	-3			15	23 PP
ABERDEEN	81.94	32.5	12	28	8	23	12	40			15	56 PP
KEW	82.09	38.3	12	19A	-2	22	35	1			15	29 PP
BARCELONA	82.69	48.6	12	28	4	22	43	3				
ALGIERS UNI.	83.08	53.3	12	15A	-11	22	41	-3			15	37 PP
PARIS	83.58	41.2	12	28A	0						15	46 PP
BYRD STATION	83.69	186.5	12	25K	-4	22	49	-1	12	46	16	6 PP
CLERMONT-FD.	83.75	44.3	12	29A	0	23	6	16				
TAMANRASSET	84.73	67.4	12	34A	0	23	7	7			15	52 PP
NORD	84.78	7.5	12	31	-4	23	10	9				
DE BILT	85.55	38.0	12	49	11	23	15	7				
BERGEN	86.16	29.7	12	46	5	23	14	0			16	10 PP
NEUCHATEL	86.47	43.2	12	42	-1						16	11
WITTEVEEN	86.50	37.3	12	46	3							
MONACO	86.72	46.5	12	43K	-1							
BENSBERG	86.74	39.2	12	44	0	23	32	13				
BASLE	86.91	42.7	12	44	-1	23	26	5				
MUNSTER	87.05	38.2	12	45	-1	23	33	11				
STRASBOURG	87.06	41.6	12	45	-1	23	34	11			16	25 PP
OROPA	87.14	44.6	12	47	1	23	33	10				
KARLSRUHE	87.49	41.2	12	48A	0	23	40	13			16	20 PP
CUGLIERI	87.52	50.0	12	39	-9	23	44	17				
ZURICH	87.59	42.8	12	47	-1	23	38	11				
EBINGEN	87.86	42.0	12	48	-2	23	37	7			16	25 PP
TUBINGEN	87.93	41.7	12	49	-1	23	39	8				
PAVIA	87.98	45.0	12	50A	0	23	36	5			15	59 PP
STUTTGART	88.01	41.4	12	50A	0	23	29	-2			16	26 PP
CHUR	88.23	43.4	12	51A	0	23	40	6				
RAVENSBURG	88.29	42.4				23	42	8				
PRATO	89.38	46.3	13	4	7	23	52	8				
FLORENCE X.	89.49	46.4	12	53	-4	24	4	19	13	17	16	45 PP
SKALSTUGAN	89.51	26.6	12	56K	-1							
BOLOGNA	89.53	45.7	13	6	8	23	59	13			34	44 SSS
JENA	89.53	39.3	12	56	-2	23	49	3			16	36 PP
HALLE	89.74	38.7	12	56	-3	23	57	9			16	40 PP
COPENHAGEN	89.89	34.5	13	7	8	24	3	14			16	39 PP
PLAUEN	89.90	39.7	12	56	-3	23	52	3			16	34 PP
CHEB	90.07	40.1	12	56	-4	24	2	12			16	41 PP
POTSDAM	90.40	37.8	12	59	-3	24	4	11			16	40 PP
COLLMBERG	90.41	38.9	13	1	-1	23	55	1			16	39 PP
ROME	90.45	48.3	13	1A	-1	24	4	10	13	11	16	46 PP

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TRIESTE	91.19	44.5	13	3	-2	23	58	-2	16	42	PP
SOUTH POLE	91.36	180.0	13	1A	-5	23	44	-18	16	19	PP
PRAGUE	91.39	40.0	13	6	0	24	20	18	16	44	PP
PRUHONICE	91.47	40.1	13	6	-1	24	6	3	16	50	PP
UPPSALA	92.33	30.1	13	11	0	24	12	1	16	53	PP
KIRUNA	92.43	22.0	13	8	-3	24	14	3	23	51	SKS
ZAGREB	92.74	44.2	13	10K	-2	24	47	33	16	56	PP
VIENNA-H.	92.80	41.7	13	14A	1	24	31	16	16	53	PP
REGGIO CALA.	93.09	51.9							17	2	PP
BRATISLAVA	93.29	41.8	13	15	0	24	34	15	23	57	SKS
RACIBORZ	93.80	39.8	13	16	-1	24	41	18	17	14	PP
HURBANOVO	94.06	42.0	13	24	6	24	38	12	23	54	SKS
TARANTO	94.14	49.5	13	5	-14	23	57	-29			
BUDAPEST	94.69	42.3	13	23	2	24	44	13	24	0	SKS
SODANKYLA	94.85	21.9	13	21	-1						
KRAKOW	94.91	39.7	13	32	10	24	6	-27	17	22	PP
SKALNATE PL.	95.24	40.5	13	34	10	24	52	16	24	10	SKS
WARSAW	95.27	37.4	13	32K	8	24	5	-31	17	19	PP
SZEGED	95.57	43.5				24	11	-27	17	11	PP
HELSINKI	95.91	29.1	13	22	-5						
BELGRADE	95.99	44.8	13	28A	1	24	7	-35	17	25	PP
SCOTT BASE	96.26	191.2	13	39	11				18	34	PPP
TIMISOARA	96.39	43.8	13	34	5	24	58	13	17	34	
SKOPJE	97.07	47.6	13	55K	23	24	35	-16	18	7	PP
APATITY	97.28	20.9	13	34	1						
CAPE HALLETT	97.41	196.8	13	41A	7	24	11	-43	17	38	PP
LWOW	97.56	39.5	13	38	4						
HERMANUS	97.84	124.4	13	35	-1	25	4	6	17	40	PP
SOFIA	98.37	46.6	13	49	11	24	40	-22	17	43	PP
PULKOVO	98.61	28.8	13	41	2	25	5	* 1	17	44	PP
CAMPULUNG	99.11	43.9	13	52	11						
ATHENS	99.44	51.3	13	44	1						
BUCHAREST	100.03	44.5	12	54K	-52	24	31	-45	17	9	PP
IASI	100.42	41.6	13	49	2	24	24	-55	18	26	SKS
SUVA	102.05	251.8	13	59K	4				18	7	PP
WELLINGTON	102.82	228.0	14	7	9	25	54	15	18	15	PP
ISTANBUL KA.	102.89	47.4	13	58	0	25	54	14			
KIMBERLEY	103.03	119.1	13	58	-1						
MOSCOW	103.70	31.3	14	5	3	24	37	-70	18	22	PP
GRAHAMSTOWN	104.03	123.9	14	2	-1						
TIKSI	104.88	351.1	14	6	-1				18	29	PP
SIMFEROPOL	105.42	42.5	14	18K	777				18	35	PP
ROXBURGH	105.81	222.9				26	8	4	18	36	PP
HELWAN	107.14	58.3	14	25	777				18	52	PP
PETROPAVLOVK	107.48	327.6							22	3	PKS
LWIRO	108.17	91.9	14	19	777	25	11	11			
UVIRA	108.50	93.2	14	53	777				16	54	
ASTRIDA	109.10	92.3	15	23	777				19	38	
JERUSALEM	109.96	55.5	14	40	777				28	46	
KSARA	109.96	53.3	14	25	777				19	0	PP
TIFLIS	113.84	42.6	14	55	-223				19	39	PP
MIRNY	114.72	176.6	18	37	-2	25	16	-10	14	55	P
WILKES	114.91	184.4	14	57	-223	27	20	113	19	35	PP
GORIS	115.85	44.3	15	5	-217				19	57	PP
Y.-SAKHLINSK	119.42	328.2							20	22	PP
WAKKANAI	120.96	327.4							25	44	
URAKAWA	122.39	323.8							27	19	
SAPPORO	122.64	325.4							20	22	
BRISBANE	123.59	237.6	15	44	-193				20	30	PP
MORI	123.70	325.0							20	46	
ASHKABAD	124.74	40.4	19	0	1				28	36	
TANANARIVE	125.15	112.2	19	0A	0				20	51	PP
MIZUSAWA	125.22	321.8							21	2	PP
KERGUELEN I.	125.50	155.9	20	53	113				20	53	PP
MELBOURNE	125.52	222.8							21	0	PP
SEMIPALATNSK	125.55	15.9	18	55	-5				20	50	PP
SENDAI	125.88	321.1							31	1	
IRKUTSK	126.47	357.2	19	3	1				21	3	PP
ONAHAMA	126.67	319.8							21	17	PP
UTUNOMIYA	127.57	320.0	19	7	3				21	13	PP
VLADIVOSTOK	127.57	331.4	19	4	0						
TUKUBASAN	127.62	319.6	19	4K	0	26	27	18	21	10	PP
KUMAGAYA	128.13	319.9	19	4	-1						
TOKYO C.M.O.	128.17	319.2							20	56	
TRUK	128.19	280.5	19	8	2						
YOKOHAMA	128.38	319.0							21	20	PP
RABAUL	128.49	265.7	19	3	-3						
NAGANO	128.56	321.2	19	25	19				38	40	

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MERA	128.57	318.4								21	11 PP
MATUSIRO	128.62	321.1	19	2	-4	27	9	58		21	14 PP
TASHKENT	128.85	30.2	19	7	0					21	13
KOHU	128.97	319.9	19	13	6					38	9
MISIMA	129.03	319.2	19	28	21						
SHIZUOKA	129.48	319.4								38	57
OMAESAKI	129.82	319.1								21	45 PP
CHANGCHUN	129.89	336.8	19	8	-1					21	21 PP
GIHU	130.26	320.9	19	11	2					21	53
NAGOYA	130.27	320.5	19	15	5					22	41
STALINABAD	130.60	33.1	19	7	-3					22	44 PKS
ULAN-BATOR	130.61	354.5	19	15	5						
HIKONE	130.67	321.1	19	12	2						
KAMEYAMA	130.79	320.5								21	36 PP
KYOTO	131.15	321.2	19	11A	0						
OSAKA	131.52	321.0								21	23 PP
KOBE	131.72	321.3								21	55 PP
CHARTERS TS.	131.75	244.2	19	10	-2					32	9
SUMOTO	132.12	321.2	18	59	-14					21	43
SIOMISAKI	132.13	319.6								21	43 PP
YONAGO	132.34	323.4								21	40 PP
TAKAMATU	132.66	321.7								21	44 PP
PORT MORESBY	133.08	258.5	19	22	7					22	54
HAMADA	133.46	323.8								22	49
KOTI	133.49	321.3	19	16	0	26	14	-9		21	52 PP
HIROSIMA	133.61	323.0								22	40
GUAM	133.88	290.1	19	9K	-7					22	56 SKP
SIMIDU	134.35	321.0	19	5	-12					35	15
QUETTA	135.09	42.9	19	17	-2					21	56 PP
HUKUOKA	135.36	323.9								20	16
WARSAK DAM	135.43	35.2	19	13	-6					22	45 PKS
SAGA	135.66	323.6								22	14 PP
KUMAMOTO	135.72	322.9	19	11	-9						
NAGASAKI	136.28	323.5	19	21	0					40	21
PEKING	136.43	342.7	19	19	-2					22	1 PP
KAGOSIMA	136.68	321.7	19	49	28					23	20
KARACHI	137.73	47.9	19	26	3					23	13 PKS
LAHORE	138.82	35.1	19	17	-8					22	53 PKS
DEHRA DUN	141.82	32.5	19	27	-4	29	45	188		23	17 PKS
ZO-SE	142.28	330.6	19	27	-5					22	32 PP
NANKING	142.59	334.2	19	28K	-4					22	36 PP
AGRA	144.25	36.0	19	31A	-4					22	47
KOROR	145.18	284.8	19	32K	-5				19 47	23	47 PP
BOMBAY	146.02	52.3	19	38	0					23	15 PP
PERTH	146.38	203.7	19	37	-2					33	13
TAIPEI	146.88	323.8	19	48	9						
ILAN	146.94	323.2	18	53	-47						
POONA	147.04	51.9	19	41	1					23	51 PP
HWALIEN	147.61	322.4	18	47	-54						
LHASA	147.82	15.9	19	41A	0					23	20 PP
CHENGTU	147.99	354.6	19	41A	0						
HSINKONG	148.41	321.6	20	16	34						
TAINAN	149.19	323.0	19	58	15						
TAWU	149.25	321.2	19	50	7						
BOKARO	151.08	29.1	19	56	10					23	26
HYDERABAD	151.22	48.6								19	54 PP
TOCKLAI	151.47	11.1	19	54	7						
SHILLONG	151.90	17.0	19	45K	-2					23	39 PP
CANTON	152.77	333.9	19	49A	1						
CALCUTTA	153.38	26.1	19	57	8	26	57	4		24	11 PP
BAGUIO CITY	153.56	312.8	19	58	8						
KUNMING	153.67	355.9	19	49	-1						
KODAIKANAL	154.20	63.0	20	0	10					24	0 PP
VIZIANAGRAM	154.27	40.4	20	5	14						
MANILA	154.40	308.9	18	19	-92	25	7-107				
CHITTAGONG	154.89	19.6	19	54	3						
MADRAS	155.16	54.3	20	3	11						
PHU-LIEN	157.21	345.5	20	0	6					25	14
DJAKARTA	172.21	232.0	20	19	11	27	24	16			
MEDAN	174.70	22.0	20	21A	13					25	37 PP

JANUARY 19 14.H 43.M 29.5 EPICENTRE 1.39 -79.48 DEPTH= 16.KM

A= 0.18253 B=-0.98291 C= 0.02405 D=-0.9832 E=-0.1826
G= 0.0044 H=-0.0236 K=-0.9997 HT= 7.2

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SE= 2.54

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
BOGOTA	6.28	59.2	1 32	-1	2 47	2		
BALBOA HTS.	7.52	359.4	1 51A	0				
HUANCAYO	13.97	163.0	3 15	-3				
SAN SALVADOR	15.60	322.3	3 42	2				
PORT-PRINCE	18.44	21.9	4 15	0	7 41	4		4 33 PP
COMITAN	19.33	320.5	4 35	9	8 15	18		11 19
TRINIDAD	20.08	62.0	4 32	-2	8 21	8		
LA PAZ	21.01	148.2	4 40	-4				
SAN JUAN	21.38	37.0	4 48A	1				
PUEBLA	25.38	314.9	5 39	13	9 59	10		13 19
TACUBAYA	26.33	314.1	5 41K	6	10 18	13		10 41
ANTOFAGASTA	26.40	161.1	5 43	7	10 24	18		
MANZANILLO	30.02	307.4						13 11
GUADALAJARA	30.16	311.1	6 31	21				13 23
MOBILE	30.29	345.1	6 19	8				
COLUMBIA	32.48	357.6	6 29A	-1	12 5	22		
FAYETTEVILLE	37.13	340.1	7 7K	-3				
WASHINGTON	37.40	3.1	7 15A	3	13 8	9		
LUBBOCK	38.28	329.1	7 20	0	13 14	2		
ST. LOUIS 1	38.36	346.4	7 17A	-3				
FLORISSANT	38.55	346.3	7 20	-2	13 13	-3		
FORDHAM	39.61	6.7	7 30	-1				
PALISADES	39.76	6.6	7 30	-2				
CLEVELAND	39.95	357.6	7 33	-1				
WESTON	41.46	9.1	7 47A	1				
TUCSON	42.59	319.4	7 55A	0				
OTTAWA	43.95	3.8	8 4A	-2				
BREBEUF	44.23	5.9	8 7A	-2				9 56 PP
BOULDER	45.06	331.8	8 14	-1				
HALIFAX	45.29	16.0	8 18A	1				
SHAWINIGAN	45.36	6.5	8 17A	-1	14 59	2		
SEVEN FALLS	46.17	8.2	8 23A	-1	15 14	6		
RAPID CITY	47.44	336.8	8 32K	-2				39 48 PKPPKP
BOULDER CITY	47.51	320.5	8 34A	-1				10 5 PCP
PASADENA	48.66	316.3	8 43	-1	15 51	8		
EUREKA	50.41	323.3	8 56A	-1				
FRESNO	51.22	318.2	9 2	-1				
BOZEMAN	52.09	332.3	9 9A	-1				
LICK	52.76	317.8	9 13	-2				
RENO	52.80	321.1	9 14	-1				
SANTA CLARA	52.97	317.6	9 31K	15				
BERKELEY	53.46	318.0	9 19	-1				
MINERAL	54.39	320.9	9 25	-2				
UKIAH	54.77	318.8	9 31K	1				20 38 SS
SHASTA	55.09	320.9	9 27	-5				
HUNGRY HORSE	55.45	332.7	9 32A	-2				11 33 PP
CORVALLIS	57.84	324.2	9 50	-2				
BANFF	58.16	334.1	9 49	-5				
SEATTLE	59.10	327.6	10 0K	0				
VICTORIA	60.23	327.9	10 15	7				
HORSESHOE B.	60.67	328.7	10 9A	-2				
ALBERNI	61.42	328.0	10 16	0				
MBOUR	63.06	74.7	10 26	-1	19 8	13		
SITKA	70.92	331.4	11 20	3				
RESOLUTE	73.77	355.8	11 30	-4				
LISBON	73.85	50.1	11 34A	0				
COIMBRA	74.68	48.7	11 41	2				
SERRA PILAR	74.74	47.7	11 39K	0				14 27 PP
REYKJAVIK	75.12	22.5	11 40	-1				
HAWAII V.OB.	76.14	289.6	11 47	0				
MALAGA	77.22	52.8	11 55	2				16 31 PPP
GRANADA	77.92	52.4	11 59A	2	22 7	19		14 43 PP
TOLEDO	77.94	49.6	11 58	1				
SCORESBY SD.	78.28	16.8	11 57	-2				
KIPAPA	78.83	291.4	12 4	2				
RATHFARNHAM	78.89	35.8	12 2	0	22 5	7		15 8 PP
HONOLULU	78.89	291.3	12 14	12				15 34 PP
COLLEGE	79.67	336.2	12 4A	-3				
ALICANTE	80.51	51.5	12 10	-1				
LOME	80.61	84.1	12 15	3	22 29	13		
RELIZANE	81.10	54.2	12 15A	1				
DURHAM	81.89	34.9	11 57K	-21				
ABERDFEN	82.00	32.5	13 15	56	23 24	54		17 55
KEW	82.16	38.3	12 18	-2	22 36	4		15 29 PP
ALGIERS UNI.	83.18	53.3	12 25	0				

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PARIS	83.66	41.2	12	29	2	22	56	9			
BYRD STATION	83.69	186.5	12	26	-2				12	47	15 49 PP
CLERMONT-FD.	83.84	44.3	12	28	0						
NORD	84.78	7.5	12	30	-3						
TAMANRASSET	84.85	67.4	12	36	3	23	12	13			16 2 PP
DOURBES	85.14	40.0	12	59	24	24	4	62			16 36 PP
WITTEVEEN	86.57	37.3	12	44K	2						
MONACO	86.81	46.5	12	42	-1						
BASLE	86.99	42.7	12	45	1						
MUNSTER	87.12	38.2	12	55	10	23	25	4			
STRASBOURG	87.14	41.6	12	44	-1	23	30	9			
OROPA	87.23	44.6	12	46	1	23	29	7			
KARLSRUHE	87.57	41.2	12	47	0	23	35	10			16 39
ZURICH	87.67	42.8	12	48	1	23	33	7			
EBINGEN	87.94	42.0	12	49	0						
TUBINGEN	88.01	41.7	12	48	-1						
PAVIA	88.07	45.0	12	50	1	23	2	-28			
STUTTGART	88.09	41.4	12	49	0	23	35	5			
CHUR	88.32	43.4	12	51	1	23	32	0			
PRATO	89.47	46.3	12	59	3	23	49	6			
SKALSTUGAN	89.55	26.6	12	56	0						
FLORENCE X.	89.58	46.4	12	56	0	24	7	23			
JENA	89.60	39.3	12	56	0	23	54	10			
BOLOGNA	89.62	45.7	13	15	18						18 21 PPP
HALLE	89.82	38.7	12	58	1	23	52	6			16 31
COPENHAGEN	89.96	34.5	13	1	3						
PLAUEN	89.98	39.7	12	58	0	23	54	7			
CHFB	90.14	40.1	12	59	0	23	38	-11			20 9
POTSDAM	90.47	37.8	13	21	20	24	1	9			
ROME	90.55	48.3	13	0	-1	24	5	13			25 7 PS
TRIESTE	91.28	44.5	13	6	2	23	51	-8			
SOUTH POLE	91.38	180.0	13	3A	-2	22	54	-66	13	23	30 22 PKKP
PRAGUE	91.46	40.0	13	6	1	24	15	14			
PRUHONICE	91.55	40.1	13	9	3	24	7	6			25 18 PS
UPPSALA	92.39	30.1	13	8	-1						
KIRUNA	92.47	22.0	13	8	-2						
ZAGREB	92.83	44.2	13	12	1	24	19	6			
BRATISLAVA	93.37	41.8	13	15	1	24	31	14			
SODANKYLA	94.89	21.9	13	20	-1						
HELSINKI	95.96	29.1	13	20	-6						
BELGRADE	96.07	44.8	13	32A	6						17 20
KIMBERLEY	103.16	119.1	13	58	0						
LWIRO	108.32	91.9	14	33	777						
UVIRA	108.65	93.2									18 47 PP
ASTRIDA	109.25	92.3	14	25	777						18 59 PP
JERUSALEM	110.07	55.5									19 3 PP
TANANARIVE	125.29	112.2	19	0	1						20 49 PP
SENDAI	125.77	321.1	18	58	-1						22 4
TUKUBASAN	127.51	319.5	19	1K	-2						21 24 PP
RABAUL	128.35	265.8	19	3	-1						
MATUSIRO	128.51	321.0	19	3	-2						
CHANGCHUN	129.81	336.7	19	6	-1						21 21 PP
KYOTO	131.05	321.1	19	9A	-1						
CHARTERS TS.	131.63	244.3	19	9A	-2						22 33 PKS
QUETTA	135.17	42.8									21 51 PP
WARSAK DAM	135.50	35.0									22 50 PKS
NAGASAKI	136.18	323.4	19	21	2						22 29 PP
KARACHI	137.82	47.8	19	24	2						
LAHORE	138.88	35.0	19	17	-7						
BOMBAY	146.13	52.1	19	39	2						
POONA	147.14	51.7	19	41	3						23 50 PP
LHASA	147.84	15.6	19	41	1						
TOCKLAI	151.48	10.8	19	55	10						
SHILLONG	151.92	16.8	19	46	0						
CANTON	152.69	333.7	19	54	7						
MANILA	154.27	308.8	18	21	-88	25	13	-99			
CHITTAGONG	154.92	19.3	19	50	0						
PHU-LIEN	157.15	345.1	19	55	2						24 46
MEDAN	174.73	20.4	20	14A	7	27	15	9			

JANUARY 20 2.H 20.M 0.S EPICENTRE -30.62 -71.53 DEPTH= 51.KM

DEPTH OF FOCUS= 0.003R

A= 0.27305 B=-0.81770 C=-0.50676 D=-0.9485 E=-0.3167
G=-0.1605 H= 0.4807 K=-0.8621 HT= 1.6

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SE= 2.45

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
SANTA LUCIA	2.90	165.7	0	46	1	1	20	1			0	52	
CONCEPCION	6.21	183.8	1	49	17						3	40	
ANTOFAGASTA	7.01	8.4	1	48	5								
LA PLATA	12.22	114.0	2	50A	-4	5	5	-5					
LA PAZ	14.39	13.2	3	22A	-1	6	10	8			3	38	PP
HUANCAYO	18.81	348.4	4	19A	1	7	52	9					
PUNTA ARENAS	22.52	179.0				8	56	0			10	23	
BOGOTA	35.12	355.6	6	51A	0	12	25	6					
FUQUENE	35.94	356.3	6	56	-2	12	33	1					
ST. VINCENT	44.64	14.3	8	8	-2								
SAN JUAN	48.99	6.8	8	41	-3								
BYRD STATION	53.16	189.3	9	15	0	16	38	-3			10	18	PP
TACUBAYA	56.40	328.3	9	48	9						10	51	PP
BERMUDA	62.99	6.5				18	49	0			23	0	SS
COLUMBIA	64.89	351.3	10	34	-3	19	11	-2			12	50	PP
SCOTT BASE	66.47	191.3	10	46	-1								
CHAPEL HILL	66.56	353.4	10	46	-1								
MBOUR	68.94	57.8	11	2	0	20	3	1					
CAPE HALLETT	69.02	196.8	11	4K	1	20	10	8			14	40	PP
WASHINGTON	69.35	355.4	11	5	0								
FAYETTEVILLE	69.68	340.6	11	5A	-2				11	15			
LUBBOCK	69.98	333.4	11	7	-2	20	16	2			11	17	PCP
MORGANTOWN	70.33	353.1	11	10K	-1								
PALISADES	71.30	358.1	11	14	-3	20	30	1			21	34	SCS
CLEVELAND	72.33	352.1	11	23	0								
WESTON	72.64	0.2	11	24K	0								
TUCSON	72.77	325.8	11	25	0						12	52	
HERMANUS	74.00	120.7				21	8	8			14	27	PP
HALIFAX	75.22	5.9	11	41K	1								
OTTAWA	75.75	357.0	11	42K	-1	21	23	4					
BREBEUF	75.78	358.5	11	42K	-1								
SHAWINIGAN	76.81	359.1	11	46A	-3								
SEVEN FALLS	77.38	0.5	11	51A	-1	21	42	5					
BOULDER CITY	77.73	325.3	11	53	-1								
PASADENA	78.01	321.9	11	55	0	21	52	8					
LARAMIE	78.18	334.5	11	59	3								
RAPID CITY	79.78	337.4	12	3	-2								
GRAHAMSTOWN	79.90	122.6	12	5	0								
SALT LAKE C.	80.24	330.1	12	7	0								
KIMBERLEY	80.84	117.9	12	10	0								
FRESNO	80.86	322.6	12	9	-2								
EUREKA	81.05	326.7	12	11	-1						39	4	PKPPKP
LICK	82.26	321.9	12	18	0								
RENO	82.97	324.4	12	21	0								
BERKELEY	82.99	321.9	12	22	0	22	40	5					
BOZEMAN	83.97	333.3	12	26	-1								
MINERAL	84.49	323.9	12	28	-1								
PIETERMARITZBURG	84.61	121.2	12	30	0								
BUTTE	84.86	332.7	12	36	5								
SHASTA	85.15	323.7	12	31	-1								
HUNGRY HORSE	87.34	333.2	12	42	-1						15	38	
CORVALLIS	88.46	325.8	12	49	1								
LISBON	90.18	43.9	13	5K	8								
TAMANRASSET	90.97	64.1	13	1A	1	23	54	3			16	35	PP
MALAGA	91.86	47.8	13	10K	6								
HORSESHOE B.	91.99	329.1	13	3K	-2								
GRANADA	92.65	47.8	12	56A	-12	24	59	53			16	41	PP
TOLEDO	93.99	45.4	13	12	-2								
ALGIERS UNI.	96.78	51.2	13	27	0								
LWIRO	97.75	97.2	13	34	3	24	33	-16					
ASTRIDA	98.36	98.0	13	44	10						17	34	PP
DURHAM	103.99	34.1	14	0A	1								
RESOLUTE	106.15	353.7	14	8	777	26	0	3			27	40	PS
BRISBANE	108.25	221.0									25	3	
PRUHONICE	110.43	43.4									19	0	PP
KSARA	119.71	66.1									20	29	PP
APATITY	123.60	26.5	18	54	1								
PORT MORESBY	125.58	229.3	21	0	124	27	48	113			30	40	
TIFLIS	128.48	59.0	19	2	0								
TIKSI	137.46	350.6	19	15	-4								
SVERDLOVSK	137.85	37.4	19	5	-14								
GUAM	142.50	251.0	19	26	-2								
KARACHI	143.34	87.0	19	39	10								
OUFTTA	144.33	79.9	19	30A	-1						22	52	PP

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BOMBAY	145.73	101.5	19	32	-1	23 7	
KOROR	146.38	231.8	19	35	0		
POONA	146.43	102.9	19	35	0	19 45	
NAMANGAN	148.62	60.6	19	39	1		
WARSAK DAM	148.72	74.0	19	40	2		
LAHORE	150.82	79.3	19	45	4		
SENDAI	152.29	294.8	19	50	6	20 12	
TUKUBASAN	153.08	290.5	19	53K	8	23 48	PP
MATUSIRO	154.58	291.4	19	47	0	20 21	PKP2
KYOTO	156.70	288.1	20	22K	32		
IRKUTSK	158.15	6.9	19	52	0		
ULAN-BATOR	162.68	3.5	19	58	2		
SHILLONG	164.52	104.9	20	58	60		
PEKING	168.70	328.3	20	2	1	25 4	PP
ZO-SE	169.06	275.8	20	1	0	25 4	PP
NANKING	171.05	281.8	20	4	1		
KUNMING	172.45	135.9	20	4	1	25 17	PP
LANCHOW	173.31	34.3	20	6	2	25 22	PP
CHENGTU	176.16	88.2	20	5	0	25 40	PP

JANUARY 22 18.H 29.M 2.S EPICENTRE 23.57 121.62 DEPTH= 70.KM

DEPTH OF FOCUS= 0.006R

A=-0.48113 B= 0.78133 C= 0.39754 D= 0.8515 E= 0.5243
G=-0.2084 H= 0.3385 K=-0.9176 HT= 3.8

SE= 2.19

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
HWALIEN	0.40	359.5	0	5K	-9	0	12	-12				
HSINKONG	0.52	206.8	0	9A	-6	0	17	-9				
ALISHAN	0.76	266.7	0	13K	-4	0	20	-10				
TAITUNG	0.92	208.3	0	16	-2	0	26	-6				
TAICHUNG	1.04	304.1	0	16K	-4	0	29	-6				
ILAN	1.20	5.5	0	22	0	0	37	-1				
HSINCHU	1.37	334.2	0	21	-3	0	36	-6				
TAWU	1.38	209.0	0	22	-2	0	45	3				
TAINAN	1.41	246.7	0	23	-2	0	42	-1				
TAIPEI	1.46	356.3	0	24K	-1	0	44	0				
KAOHSIUNG	1.56	233.2	0	30	3	0	46	-1				
HENGCHUN	1.75	207.5	0	30A	1	0	53	2				
PENGHU	1.90	269.3	0	32	1	0	53	-1				
HONG KONG	6.99	261.1	1	39A	-3	2	53	-8				
BAGUIO CITY	7.18	188.0	1	43	-1	3	1	-4				
ZO-SE	7.51	357.1	1	42	-7	3	4	-10				
CANTON	7.68	268.0	1	49	-2	3	16	-2				
NANKING	8.81	344.2	2	4	-3	3	45	-1				
MANILA	8.96	184.0	2	7	-2	3	36	-13				
NAGASAKI	11.67	36.7	2	47	1						2	59
PHU-LIEN	14.16	261.7	3	19	1	6	32	38				
SIAN	15.38	316.6	3	33	-1							
TAIYUAN	16.15	333.4	3	47	3							
NHATRANG	16.32	228.4	3	47K	1	6	54	10				
KYOTO	16.76	43.9	3	57K	6							
PEKING	17.05	345.6	3	56A	1	7	12	11				
CHENGTU	17.19	298.1	3	57	0							
KUNMING	17.33	278.7	3	58A	-1							
TATUNG	17.93	338.8	4	6	0							
MATUSIRO	19.30	44.1	4	18	-4							
PAOTOW	19.57	332.8	4	26	1							
YINCHUAN	19.80	322.2	4	29	2	8	4	3				
LANCHOW	19.81	313.0	4	28	1	8	5	4				
KOROR	20.32	140.5	4	32	-1							
TUKUBASAN	20.34	47.5	4	29K	-4	8	14	2				
CHANGCHUN	20.44	7.7	4	34	0							
VLADIVOSTOK	21.27	21.1	4	40	-2							
SINING	21.49	311.8	4	46	2							
WUWEI	21.65	315.8	4	47	1							
SENDAI	22.03	43.8	4	50	0						11	23
GUAM	24.08	110.6	5	10	0							
TOCKLAI	24.50	283.1	5	38A	24							
ULAN-BATOR	26.99	337.9	5	31	-6							
SHILLONG	27.11	280.4	5	37A	-1						10	51
CHITTAGONG	27.45	273.4	5	40A	-1							

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LHASA	27.96	289.1	5	37A	-9	10	28	5		
Y.-SAKHLINSK	28.83	30.8	5	57	3					
MEDAN	29.77	231.6	6	4	2					
PORT BLAIR	29.91	251.7	7	23	80				12	19
CALCUTTA	30.61	274.8	6	12	3				11	4
IRKUTSK	31.57	339.6	6	16	-2				7	20 PP
BOKARO	32.75	277.8	6	30	2				12	7
TRUK	33.12	114.0	6	20	-11				10	19
DEHRA DUN	39.24	289.6	7	26	3	13	21	3	16	31 SSS
AGRA	39.42	284.6	7	21A	-4				13	41
MADRAS	40.60	262.5	7	36A	2				14	10
RABAUL	40.60	128.8	7	35	1				9	41
HYDERABAD	40.78	269.7	7	37A	1				9	59
PORT MORESBY	41.19	139.8	7	31	-8	13	51	4	9	38 PCP
MAGADAN	41.39	22.1	7	41	0					
SEMIPALATNSK	41.74	320.6	7	44	0				9	23 PP
LAHORE	42.41	291.5	7	49	0				9	37 PP
FRUNSE	43.18	308.2	7	56A	1	14	22	6	9	42 PP
KODAIKANAL	44.10	260.2	8	5	2					
POONA	44.71	273.0	8	7	-1	14	42	3	9	48 PP
WARSAK DAM	44.72	295.1	8	9	1					
BOMBAY	45.56	273.8	8	15	1				10	4
TASHKENT	46.86	305.2	8	23	-2	15	14	5	10	16 PP
STALINABAD	47.06	301.4	8	28	2	15	23	11		
TIKSI	48.27	3.1							10	26 PP
QUETTA	48.83	290.2	8	40	0	15	30	-7	10	36 PP
KARACHI	49.35	284.5	8	43A	-1					
CHARTERS TS.	49.53	149.0	8	46	1	16	2	15		
SVERDLOVSK	54.78	324.0	9	24	-1				17	20 PS
ASHKABAD	55.27	300.8	9	28A	0					
BRISBANE	59.11	147.4	9	55K	0	17	59	4		
GORIS	64.40	303.9	10	31	0	19	8	6	20	21 SCS
MELBOURNE	64.89	159.7	10	33	-1					
TIFLIS	65.16	306.6	10	36	0	19	19	8		
MOSCOW	67.53	322.5	10	49	-2					
APATITY	67.78	335.5	10	51	-1					
COLLEGE	69.17	27.2	11	1	0					
SUVA	69.23	121.7	11	21	20	20	10	9	20	58 SCS
SODANKYLA	70.39	335.8	11	7	-1					
SIMFEROPOL	72.04	311.8	11	18A	0	20	42	9	11	34 PCP
KIRUNA	72.53	337.0	11	20	-1					
NORD	72.99	354.1	11	22	-2					
HELSINKI	73.07	328.7	11	23	-1					
KSARA	73.92	300.2	11	29	0	20	53	-1	14	20 PP
JERUSALEM	75.09	298.4	11	38	2					
UPPSALA	76.63	329.8	11	43A	-2					
ISTANBUL KA.	76.75	309.1	11	44	-1				14	42 PP
LWOW	77.04	318.8	11	46	-1					
SKALSTUGAN	77.32	334.4	11	48	-1					
HELWAN	78.88	297.7	11	57A	0	21	53	4		
RESOLUTE	79.21	9.3	11	57A	-2				32	29
SOFIA	80.15	312.2	12	5	1					
RACIBORZ	80.40	320.5	12	6	1					
ATHENS	81.73	307.7	12	11K	-1					
BRATISLAVA	81.88	319.1	12	13	0			13 4	15	13
PRUHONICE	82.55	321.5	12	16	0				13	22
PRAGUE	82.58	321.6	12	18	1				14	3
COLLMBERG	82.79	323.2	12	17	-1					
HALLE	83.27	323.7	12	20	0				13	42
PLAUEN	83.65	322.7	12	20	-2					
TANANARIVE	83.67	246.3	12	23K	1					
JENA	83.75	323.3	12	23	0				13	27
TRIESTE	85.08	317.9	12	28	-1					
MUNSTER	85.33	325.5	12	31	1					
WITTEVEEN	85.35	326.5	12	31	0					
STUTTGART	86.19	322.2	12	35	0				12	49
ALBERNI	86.55	37.0	12	38	2					
EBINGEN	86.63	321.8	12	37	0					
STRASBOURG	87.09	322.5	12	39	0					
HORSESHOE B.	87.33	36.3	12	42	2					
FLORENCE X.	87.55	317.2	12	42	1				16	29 PP
ROME	87.72	315.1	12	43	1			13 21	16	10 PP
VICTORIA	87.73	37.1	12	44	2					
BANFF	90.25	31.9	12	54	0					
SHASTA	92.72	43.2	13	5	0					
HUNGRY HORSE	92.82	33.5	13	7	1				30	16 PKKP
MINERAL	93.41	43.1	13	9	0					
BUTTE	95.10	34.6	13	18	2					
EUREKA	97.40	41.2	13	29	2				17	25 PP

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TAMANRASSET	102.68	301.8	14 57	67	24 32	-54			18 5	PP
SOUTH POLE	113.42	180.0	18 30	0						
PALISADES	114.15	12.8							48 13	
BYRD STATION	117.95	170.0	18 39	0					19 47	PP
HUANCAYO	160.23	57.5	19 57	6			20 36		24 20	PP
LA PAZ	168.45	54.3	20 3	5					24 59	PP

JANUARY 23 2.H 34.M 10.S EPICENTRE 44.32 146.04 DEPTH= 139.KM

DEPTH OF FOCUS= 0.017R

A=-0.59539 B= 0.40096 C= 0.69623 D= 0.5586 E= 0.8294
G=-0.5775 H= 0.3889 K=-0.7178 HT= -3.3

SE= 2.31

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
NEMURO	1.04	198.9	0 24A	-1	0 40	-4		
ABASHIRI	1.30	257.4	0 29A	1	0 49	0		
KURILSK	1.59	54.4	0 31K	0				0 56
KUSIRO	1.79	222.3	0 33A	0	0 57	-1		
OBIHIRO	2.49	236.9	0 43K	1	1 12	-1		
ASAHIGAWA	2.70	259.8	0 47A	3	1 21	3		
URAKAWA	3.22	228.8	0 51	0	1 24	-6		
Y.-SAKHLINSK	3.51	319.6	0 58A	3	1 40	3		
SAPPORO	3.62	251.5	0 58	2	1 39	0		
TOMAKOMAI	3.71	242.6	0 59	1	1 40	-1		
MURORAN	4.20	243.5	1 4	0	1 50	-3		1 18
SUTTSU	4.49	252.3	1 9	1	2 0	0		
MORI	4.57	242.9	1 9	0	2 1	-1		
HAKODATE	4.65	238.8	1 8K	-2	2 0	-4		
HATINOHE	5.05	223.0	1 14	-1	2 4	-9		
AOMORI	5.23	229.8	1 16	-2	2 11	-6		
UGLEGORSK	5.49	331.6	1 24A	3	2 29	5		
MIYAKO	5.56	214.4	1 20	-2	2 14	-12		
MORIOKA	5.87	219.8	1 24	-2	2 19	-14		
MIZUSAWA	6.35	217.0	1 31	-2	2 35	-10		
AKITA	6.38	226.0	1 32K	-1	2 39	-6		
SENDAI	7.18	214.4	1 40	-4	3 5	1		
YAMAGATA	7.42	217.2	1 46	-1	3 1	-9		
HUKUSIMA	7.80	214.6	1 50	-2	3 10	-9		
ONAHAMA	8.33	209.7	1 55	-4	3 21	-11		2 24
SHIRAKAWA	8.44	213.5	1 57	-4	3 26	-9		
AIKAWA	8.61	225.7	2 2	-1	3 31	-8		
MITO	9.00	210.1	2 10	2	3 36	-12		
UTUNOMIYA	9.07	213.3	2 6	-3				2 40
KAKIOKA	9.23	211.0	2 8	-3	3 43	-11		
TUKUBASAN	9.27	211.3	2 7	-5	3 41	+14		
TAKADA	9.32	222.0	2 56	43				
MAEBASI	9.53	216.3	2 3	-12	3 53	-8		5 38
KUMAGAYA	9.61	214.2	2 20	4	3 52	-11		
NAGANO	9.69	220.7	2 22	5	3 58	-7		
MATUSIRO	9.78	220.2	2 17K	-2	3 59	-8		5 48
WAZIMA	9.79	228.1	2 18	-1	4 1	-6		
OIWAKE	9.81	218.2	2 32	13				
TOKYO C.M.O.	9.88	211.3	2 25	5	3 58	-11		
TITIBU	9.88	214.9	2 23	3	3 56	-13		
YOKOHAMA	10.14	211.1	2 32	9	4 8	-7		3 34
MATUMOTO	10.14	220.1	2 24	1	4 10	-5		
TOYAMA	10.15	224.5	2 19	-5	4 9	-7		
VLADIVOSTOK	10.31	268.3	2 26	0				3 28
KOHU	10.40	216.0	2 34	7	4 12	-9		
HUNATU	10.42	214.8	2 30	3	4 13	-9		
MERA	10.53	209.1			4 18	-7		2 41
AJIRO	10.69	212.3	2 31	0	4 22	-6		
OSIMA	10.83	210.6	3 6	34				4 20
SHIZUOKA	11.03	214.8	2 38	3	4 28	-8		4 54
GIHU	11.40	221.8	2 38	-2	4 39	-6		
OMAESAKI	11.43	214.5			4 39	-7		5 1
NAGOYA	11.49	220.4	2 35	-6				4 46
IBUKISAN	11.60	223.0	2 42	-1	4 45	-5		
HIKONE	11.75	223.1	2 45	0	4 39	-14		
KAMEYAMA	11.99	221.2	2 53	5	4 55	-4		
HATIDYOZIMA	12.20	205.5						4 52
KYOTO	12.21	224.0	2 51A	0				

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TOKUSIMA	13.54	224.8	3	6	-2							
SUIHWA	13.57	286.5	3	3	-5							
TAKAMATU	13.62	226.9	3	49	40							
HIROSIMA	14.46	231.2	3	17	-2	6	0	4				
KOTI	14.49	226.3	3	19	-1						6	38
CHANGCHUN	14.91	275.4	3	23K	-2	6	5	-2				
KLYUCHI	15.21	32.7	3	26	-3						6	6
MAGADAN	15.53	9.1	3	32A	-1						4	23
HUKUOKA	16.18	233.8	3	48	7							
SAGA	16.49	233.2	3	43	-2							
KUMAMOTO	16.57	231.4	3	46	0							
MIYAZAKI	16.87	227.7	3	53	4							
YAKUSIMA	18.51	226.8	4	9	1							
PEKING	22.49	269.4	4	48	-1	8	43	2			15	48 SCS
TO-SE	23.58	244.4	4	59K	0	9	2	2	5	29	10	1 *SS
TATUNG	24.54	271.6	5	6	-2							
NANKING	24.55	249.3	5	9K	1	9	20	4	5	40	5	54 *SP
ULAN-BATOR	27.17	291.6	5	33	0	10	0	1				
IRKUTSK	28.54	301.1				10	23	2				
SIAN	30.21	263.4	6	7	7							
LANCHOW	32.98	270.3	6	24	0	11	29	-2			12	29 *SS
CANTON	34.18	242.5	6	34K	0							
HONG KONG	34.19	240.5	6	35	1							
BAGUIO CITY	35.16	225.8	6	41	-2							
CHENGTU	35.64	262.0	6	46K	-1	12	7	-5	7	16	8	10 PP
KUNMING	39.96	255.9	7	22K	-1	13	14	-3	7	54	9	8 PP
COLLEGE	41.10	36.4	7	33	1				7	48		
LHASA	45.49	270.4	8	8K	1	14	40	2				
SHILLONG	47.28	265.3	8	29K	8							
RABAUL	48.61	171.8	9	2	30						9	18
SITKA	48.67	45.5	8	35	3							
FRUNSE	50.22	294.9				15	46	2			8	44
DEHRA DUN	54.39	279.6									16	36
TASHKENT	54.43	295.6									17	23 PS
RESOLUTE	54.66	16.6	9	13A	-4						19	55
LAHORE	56.30	283.0	9	28K	-1	17	6	0			18	56 SCS
WARSAK DAM	56.84	287.0	9	32	-1	17	10	-3				
APATITY	57.53	335.1	9	35	-2							
MEDAN	58.10	239.9	9	40	-1							
HORSESHOE B.	58.57	50.0	9	44K	-1							
VICTORIA	58.96	50.9	9	48K	1							
SODANKYLA	59.63	337.0	9	49	-3							
KIRUNA	60.96	339.3	9	58A	-3							
CORVALLIS	61.24	54.6	10	5	2							
BANFF	61.66	45.0	9	4	-62							
QUETTA	62.23	286.1	10	9K	-1	18	22	0	10	46	12	29 PP
ASHKABAD	63.31	297.9				18	38	2				
MOSCOW	63.52	323.2									10	15
CHARTERS TS.	64.01	179.8	10	22	1						10	52
SHASTA	64.07	57.7	10	22A	0							
HUNGRY HORSE	64.14	46.9	10	22	0				10	54	39	14 PKPPKP
UKIAH	64.51	59.5	10	27	3							
POONA	64.65	271.6	10	25	0							
MINERAL	64.76	57.6	10	26A	0							
HELSINKI	65.31	331.9	10	28	-2							
BERKELEY	65.87	60.1	10	33A	0							
RENO	66.34	57.4	10	36	0							
BUTTE	66.38	48.2	10	36	-1				11	4		
SKALSTUGAN	66.39	339.4	10	35K	-2							
LICK	66.59	60.2	10	38A	0							
BOZEMAN	67.42	47.7	10	45	2							
UPPSALA	67.92	334.7	10	44	-2				11	10		
FRESNO	68.09	59.7	10	47	0							
EUREKA	68.67	55.4	10	50	-1				11	24		
TIFLIS	69.09	308.2	10	54	1	19	49	3			20	29 PS
GORIS	69.67	305.6	10	58	1	19	55	2				
SALT LAKE C.	70.21	52.1	11	0	0				11	32		
PASADENA	70.79	60.9	11	4	0						11	36
REYKJAVIK	71.48	354.5	11	8	0							
BOULDER CITY	71.65	57.5	11	10	1				11	24		
SIMFEROPOL	72.55	316.3				20	25	-1				
RAPID CITY	72.58	44.9	11	13	-1				11	47		
COPENHAGEN	72.94	334.6	11	16	0							
LARAMIE	73.30	48.3	11	19	1							
LWOW	73.50	325.1	11	20	0	20	36	0			11	38 PCP
KRKAOW	74.96	327.4	11	28	0	20	52	-1				
RACIBORZ	75.60	328.3	11	32	1	21	1	1				
TUCSON	76.61	58.0	11	38	1				12	1		

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HALLE	76.63	332.5	11 37	0				12 14	14 33	PP
PRAGUE	76.98	330.4	11 40	1	21 13	-2				
PRUHONICE	77.02	330.2	11 39	0	21 15	0			14 28	PP
WITTEVEEN	77.13	336.1	11 41	1						
JENA	77.24	332.4	11 40	-1	21 16	-1		12 7		
PLAUEN	77.41	331.9	11 40	-2						
BRATISLAVA	77.57	327.8	11 44	1				12 23	14 14	PP
MUNSTER	77.60	335.1	11 43	0						
CHEB	77.69	331.5	11 43	0					12 28	*SP
ISTANBUL KA.	77.91	316.4	11 45	1						
KSARA	79.65	307.4	11 54	0	21 53	10			15 8	PP
STUTTGART	79.88	332.6	11 55	0					14 33	PP
TUBINGEN	80.13	332.6	11 56	0						
KEW	80.25	339.4	11 57A	0						
EBINGEN	80.47	332.5	11 58A	0						
STRASBOURG	80.52	333.4	11 58	0					13 20	
LUBBOCK	80.92	51.6	12 2	1						
TRIESTE	80.94	328.3	12 1	0						
BASLE	81.50	333.0	12 5K	1					14 31	
JERUSALEM	81.51	306.4	12 6	2						
PARIS	81.91	336.6	12 7A	1	22 5	-1				
NEUCHATEL	82.17	333.1	12 7	0						
ATHENS	82.92	317.7	12 10K	-1				12 38		
SHAWINIGAN	83.23	25.8	12 13A	1						
OTTAWA	83.29	28.2	12 12A	-1						
SEVEN FALLS	83.31	24.4	12 12A	-1						
BREBEUF	83.90	26.8	12 16A	0					12 55	*SP
HELWAN	85.16	307.6	12 23	1					13 12	
MORGANTOWN	86.72	33.8	12 31A	1						
WESTON	87.43	26.7	12 32K	-1						
COLUMBIA	91.07	37.5	12 50	0				13 27		
TAMANRASSET	104.08	322.8	13 39	-10					17 46	PP
KIMBERLEY	131.32	268.0	18 59	3					22 10	
HUANCAYO	132.17	60.7	18 42	-16					22 14	*PPP
BYRD STATION	134.05	166.0	19 2	1	23 39	-138		19 38	22 18	SKP
SOUTH POLE	134.13	180.0	19 1	-1				19 37	22 18	SKP
LA PAZ	140.02	57.0	19 16	4					22 36	PP

JANUARY 23 5.H 30.M 10.S EPICENTRE 30.77 84.16 DEPTH= 0.KM
A= 0.08759 B= 0.85625 C= 0.50909 D= 0.9948 E=-0.1018
G= 0.0518 H= 0.5064 K=-0.8607 HT= 1.6

SE= 2.18

	DELTA DEG.	AZ. DEG.	P M	S	O-C S	S M	S	O-C S	*PP M	S	SUPP. M	S	
DEHRA DUN	5.29	266.7	1	27	5	2	27	2			2	37	SS
LHASA	6.06	99.0	1	35A	2								
AGRA	6.49	237.5	1	39A	0	2	53	-2			2	7	
BOKARO	7.07	167.7	1	49	2	3	7	-2					
LAHORE	8.46	277.8	2	7	0	3	46	2			4	42	SG
SHILLONG	8.55	125.4	2	3K	-5	3	33	-13			3	44	SS
TOCKLAI	10.14	110.7	1	51	-39								
WARSAK DAM	11.13	290.1	2	42	-1	4	47	-3					
HYDERABAD	14.26	202.7	3	24A	-1						10	3	
FRUNSE	14.30	330.3	3	28	2	6	26	20					
NAMANGAN	14.35	318.6	3	24	-2	6	24	17					
QUETTA	14.85	272.1	3	30	-3	6	14	-5					
POONA	15.36	219.9	3	37	-3	6	19	-12			3	55	PPP
BOMBAY	15.66	223.6	3	41	-2	6	29	-9			3	53	PP
KARACHI	15.86	256.1	3	51	5	6	45	2					
CHENGTU	17.07	85.3	4	1	-1	7	11	0					
LANCHOW	17.24	66.9	4	4	0	7	16	1					
KUNMING	17.33	104.7	4	5A	0								
MADRAS	18.07	192.6	4	16K	2	7	27	-7			4	32	PP
SEMIPALATNSK	19.82	352.6	4	33	-2								
PORT BLAIR	20.60	155.5	4	49	6	8	42	13					
KODAIKANAL	21.37	198.3									8	2	
PHU-LIEN	22.50	110.9				9	21	16			15	25	
ULAN-BATOR	24.40	39.0	5	22	1	9	49	10					
PEKING	27.56	61.6	5	53	3	10	27	-4					
SVERDLOVSK	30.79	334.6	6	19	0								
MAKHACH-KALA	31.51	303.0									12	29	
CHANGCHUN	34.88	56.4	6	53	-2								
MOSCOW	40.99	321.3	7	44	-2								
KIRUNA	52.01	334.4	9	12	-1								

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UPPSALA	52.23	324.1	9 15	0			
MAGADAN	52.27	36.2	9 17	2			
PRUHONICE	54.38	311.9	9 45	14			10 34 PP
SKALSTUGAN	54.90	328.7	9 35	0			
TAMANRASSET	69.36	284.8	11 12	1			13 48 PP
RESOLUTE	74.81	359.7	11 43K	-1			
COLLEGE	76.47	20.2	11 54	1			
CHARTERS TS.	78.14	121.9	12 2	0			
KIMRERLEY	81.87	229.8	12 22	0			
SOUTH POLE	120.60	180.0	18 54	0			
BYRD STATION	129.70	174.8	19 13	2			

JANUARY 23 8.H 52.M 37.S EPICENTRE -18.58 169.68 DEPTH= 261.KM

DEPTH OF FOCUS= 0.036R

A=-0.93316 B= 0.16997 C=-0.31673 D= 0.1792 E= 0.9838
G= 0.3116 H=-0.0568 K=-0.9485 HT= 5.0

SE= 1.19

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
NOUMEA	4.78	218.7	1 13	-1				2 59
SUVA	8.32	88.4	3 4	66	3 38	7		
RAOUL ISLAND	15.52	135.5	3 27	0				4 29
ONERAHI	17.62	167.3	3 50	0				
BRISBANE	17.68	236.9	3 49	-1				
APIA	18.43	77.8	3 58	0	7 24	14		
TONGARIRO	21.16	167.3	4 26	1				
CHARTERS TS.	22.15	262.5	4 34K	-1	8 18	1		
RARAUL	22.30	307.7	4 38	2				5 58
COBB RIVER	22.58	174.0	4 41	2				
PORT MORESBY	23.66	289.6	4 50	1	8 47	5		6 12
MELBOURNE	28.87	223.3	6 32	56				
TRUK	31.30	324.2	5 57	-1				
KOROR	43.22	303.4	7 38	1			8 12	
KIPAPA	50.80	40.0	8 33	-2			9 8	
SOUTH POLE	71.53	180.0	10 51	-3			11 25	
UKIAH	84.95	46.0	12 7	0				
BERKELEY	85.02	47.5	12 8A	1				
LICK	85.21	48.2	12 10A	2			12 44	
SHASTA	86.26	44.9					12 43	
FRESNO	86.26	49.3	12 13A	0				
PASADENA	86.32	52.3	12 14	1				12 48
MINERAL	86.63	45.5	12 15A	0				
RENO	87.49	46.9	12 19	0				
CORVALLIS	87.53	41.2	12 19	0				
COLLEGE	89.30	16.8	12 26	-1				
VICTORIA	89.38	37.7	12 28	0				
BOULDER CITY	89.57	51.7	12 29	0				
HORSESHOE B.	89.88	37.0	12 30A	0				
EUREKA	90.15	48.2	12 33	2				16 9 PP
TUCSON	91.24	56.4	12 37	1				16 17 PP
SALT LAKE C.	93.56	48.2	12 47	0				
HUNGRY HORSE	94.94	40.6	12 52	-1			13 34	16 44 PP
BANFF	95.13	37.6	12 53	-1				
RAPID CITY	100.68	47.1	13 18	-1				
OTTAWA	120.20	47.8	18 18K	-2				
SEVEN FALLS	123.39	45.4	18 24K	-2				
PRUHONICE	142.89	333.3	19 0	-2				
ATHENS	144.61	310.2	19 4K	-1				
STUTTGART	145.99	336.7	19 9	1				22 23
EBINGEN	146.57	336.3	19 10	1				
TAMANRASSET	164.60	288.4	19 33	1				21 33 PKP2

JANUARY 23 13.H 35.M 4.S EPICENTRE 65.15 6.48 DEPTH= 0.KM

A= 0.41980 B= 0.04771 C= 0.90636 D= 0.1129 E=-0.9936
G= 0.9006 H= 0.1024 K=-0.4225 HT=-10.5

SE= 2.96

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

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	DEG.	DEG.	M	S	S	M	S	S	M	S	M	S	
SKALSTUGAN	2.97	119.5	0	49K	0								
BERGEN	4.80	187.0	1	12	-3	2	1	-11			1	32	PG
KIRUNA	6.19	58.1	1	32	-2	2	37	-10			3	19	SG
UPPSALA	7.40	130.8	1	47K	-5	3	5	-12			2	13	PG
SODANKYLA	8.41	65.7	2	1	-5								
ABERDEEN	9.01	211.3	3	8A	54						4	54	
HELSINKI	9.84	111.9	2	20	-5	4	4	-14					
COPENHAGEN	9.95	160.1	2	22	-5	4	8	-13					
APATITY	11.04	65.4	2	35	-7	4	28	-19					
DURHAM	11.16	204.8	2	41	-2	4	37	-13					
SCORESBY SD.	11.90	309.1	2	56	2								
PULKOVO	12.23	105.1	2	54	-4	5	0	-16			5	52	
WITTEVEEN	12.37	179.5	3	14	14								
MUNSTER	13.24	176.9	3	6	-5						3	24	
POTSDAM	13.25	162.1	3	32	20	5	32	-9			6	27	
RATHFARNHAM	13.52	214.5	3	22	7								
HALLE	13.98	165.7	3	17	-4						7	23	
KEW	14.17	197.6	3	21	-3						3	32	PP
BENSBERG	14.24	178.2	3	27	2	5	51	-14					
COLLMBERG	14.30	163.2	3	20	-5	7	27	81			5	53	
JENA	14.51	167.0	3	28	0	6	9	-2			3	46	PP
WARSAW	14.94	143.2	3	33	-1	6	4	-17			6	33	SS
PLAUEN	14.99	165.9	3	38	3						3	48	
CHEB	15.43	165.6	3	44	4	6	45	12					
PRAGUE	15.69	160.8	3	45	1	6	48	9	3	57			
PRUHONICE	15.80	160.6	3	44	-1	6	48	7	3	58			
KARLSRUHE	16.22	175.5	3	48	-2	6	27	-24			4	41	
RACIBORZ	16.32	152.2	3	46	-6	6	56	3			8	50	PCP
STUTTGART	16.49	173.7	3	50	-4	6	55	-2			4	8	PP
PARIS	16.53	189.3	3	57	3	6	52	-6					
STRASBOURG	16.63	177.0	4	0	4						7	22	
KRAKOW	16.71	148.6	3	52	-5	6	51	-11			4	9	PPP
TUBINGEN	16.73	174.0	4	1	4						4	11	PP
EBINGEN	17.07	174.3	4	4	3						4	12	PP
NORD	17.52	348.9	4	6	-1								
SKALNATE PL.	17.60	148.9				7	19	-4					
BASLE	17.68	177.6	4	13K	4						9	44	
MOSCOW	17.83	107.2	4	11	0	7	22	-6					
LWOW	17.91	140.6	4	6	-6	7	13	-17			4	30	PPP
BRATISLAVA	17.95	156.4	4	11	-1	7	26	-5					
NEUCHATEL	18.20	179.0	4	17	2						13	3	
CHUR	18.42	173.4	4	20	2						8	12	
HURBANOVO	18.44	154.4				7	31	-11					
BUDAPEST	18.97	153.0	4	23	-2						4	39	PP
KHEYS	19.28	22.1	4	37	9						5	14	PPP
CLERMONT-FD.	19.52	187.1	4	32	1	8	12	6					
OROPA	19.60	176.9	4	34	2						11	15	
RAKHOV	19.68	142.8	4	24	-9	7	57	-13					
CERNAUTI	19.84	139.1	4	30	-5	7	58	-15			4	47	PP
KALOCSA	19.87	153.9									4	36	PP
TRIESTE	19.95	164.9	4	36	0	8	17	1			4	51	
ZAGREB	20.07	160.4	4	39	2						10	39	
PAVIA	20.08	174.5	4	33	-4						11	14	
SZEGED	20.36	151.9	4	52	12	8	16	-8			10	33	
BOLOGNA	20.87	170.2	4	46	0						12	14	
TIMISOARA	21.06	150.3	5	0	12								
IASI	21.29	137.5	4	55	5	9	58	76			8	35	
MONACO	21.48	178.1	4	52	0						5	12	PP
FLORENCE X.	21.59	170.6	5	7	14	8	58	10	5	14	5	25	PP
BELGRADE	21.80	152.4	4	58K	3						8	59	PCP
KISHINEV	21.82	135.6	4	53	-2	8	36	-16			8	52	PCP
CAMPULUNG	22.39	143.9	5	3	2	9	21	18					
BUCHAREST	23.45	142.8	5	15K	4	9	31	9			5	35	
ROME	23.55	168.7	5	14	2	9	22	-2	5	22	5	42	PP
SOFIA	24.42	148.9	5	24	3	11	4	85			6	39	PP
TOLEDO	26.04	198.7	5	32	-4						9	49	
SVERDLOVS	26.73	82.2	5	41	-1	10	14	-3			6	40	PPP
ISTANBUL KA.	27.36	140.8	5	47	-1	10	42	14					
SOTCHI	28.43	123.2									6	58	PPP
ALGIERS UNI.	28.50	185.8									11	16	
GRANADA	28.64	197.0	6	3K	3								
MALAGA	29.20	198.1	6	5K	0								
RESOLUTE	31.62	330.2	6	25	-1	11	38	3			16	56	SCS
TIFLIS	31.89	118.5	6	29	0	11	38	-1			7	48	PPP
LENINAKAN	32.36	120.6	6	45	12								
KSARA	36.04	136.0	7	5	0	12	41	-3			8	28	PP
JERUSALEM	37.76	138.0	7	19	0						7	42	

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TIKSI	38.02	25.8	7	19	-2	13	10	-4	8	51	PP
KIZYL-ARVAT	38.66	107.8							7	39	
SEMIPALATNSK	39.46	75.2	7	32	-1						
ASHKABAD	40.42	106.5	7	41	0				9	14	PP
TCHIMKENT	41.45	91.8	7	50	0				9	39	PPP
TASHKENT	42.13	92.9				14	12	-4	9	29	PP
LUNACHARSKOE	42.14	92.9	7	54	-1	14	10	-6	9	44	PP
BAIRAM-ALI	42.26	102.9	7	56	0				9	39	PP
TAMANRASSET	42.37	181.3	7	58A	1	14	18	-1	9	6	PP
FRUNSE	43.08	86.8	8	18	15				17	58	SCS
SEVEN FALLS	43.49	284.5	8	7K	1						
ANDIJAN	43.91	90.5	8	10	0	14	31	-11	17	53	SCS
RYBACHE	44.07	85.9	8	12	1	14	45	1	10	1	PP
SHAWINIGAN	44.74	285.6	8	18	2						
PRZHEVALSK	45.02	83.8	8	19	0						
BREBEUF	45.94	285.4	8	27	1						
KHOROG	46.32	93.8	8	30	1						
OTTAWA	46.88	287.0	8	34	1						
IRKUTSK	47.19	56.1	8	35	-1						
KABANSK	48.18	54.7	8	52	8						
COLLEGE	48.93	345.8	8	50	1						
WARSAK DAM	49.27	96.2	8	48	-4						
KYAKHTA	49.51	56.0	8	54	0						
QUETTA	50.68	103.1	9	1A	-2	16	15	-3			
ULAN-BATOR	51.74	57.4	9	20	9						
LAHORE	52.56	95.2	9	15	-2						
MBOUR	53.18	208.8	9	21	-1						
MORGANTOWN	53.41	286.3	9	24K	1						
HUNGRY HORSE	57.85	317.3	9	54	-1				39	42	PKPPKP
RAPID CITY	58.28	307.1	9	56	-2						
COLUMBIA	58.69	283.7	10	0	-1						
BOZEMAN	59.39	313.7	10	7	1						
BUTTE	59.53	315.0	10	7	0						
LARAMIE	61.54	307.4	10	21	0						
SALT LAKE C.	64.07	312.0	10	37	-1						
SHILLONG	65.18	82.7	10	42A	-3						
EUREKA	66.52	314.6	10	54	1				11	23	PCP
SHASTA	67.22	320.1	10	57	-1						
MINERAL	67.33	319.3	10	58A	-1						
RENO	67.59	317.6	11	0	0						
LWIRO	69.19	156.1	11	9	-1						
ASTRIDA	69.70	155.1	11	12	-1						
BERKELEY	69.83	318.9	11	14A	0						
LICK	70.15	318.2	11	17A	1						
FRESNO	70.16	316.5	11	17	1						
TUCSON	71.52	307.5	11	24	0						
MATUSIRO	71.89	39.2	11	24A	-2				18	23	
PASADENA	72.11	314.2	11	28	0						
TUKUBASAN	72.69	37.8	11	29A	-2						
KIMBERLEY	94.67	163.9	13	23	-1						
CHARTERS TS.	127.71	50.1	19	7K	0						
FORT NELSON	148.85	63.6	19	53	8						
SOUTH POLE	155.01	180.0	19	50	-4				23	49	PP
BYRD STATION	159.36	203.6	19	59	-1				24	18	PP

JANUARY 24 4.H 35.M 54.S EPICENTRE 56.48 115.96 DEPTH= 0.KM

A=-0.24292 B= 0.49887 C= 0.83194 D= 0.8991 E= 0.4378
G=-0.3642 H= 0.7480 K=-0.5549 HT= -7.7

SE= 2.74

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
KABANSK	7.03	234.8	1	47	0						2	15	PG
IRKUTSK	8.00	243.1	1	52	-8						4	16	SG
KYAKHTA	8.34	226.8	2	4	-1						2	32	PG
ULAN-BATOR	10.21	216.7	2	32	1	5	20	53					
CHANGCHUN	13.99	150.9	3	19	-3								
TIKSI	16.16	14.7	3	44	-6	6	37	-13			3	55	PP
PEKING	16.46	179.4	3	55	1	6	59	2					
TATUNG	16.48	187.3	3	58	4								
VLADIVOSTOK	16.81	136.0				7	12	7					
MAGADAN	18.58	66.0	4	21A	1						7	58	SS
TAIYUAN	18.83	188.3	4	30	6								
Y.-SAKHLINSK	19.01	108.8	4	25	-1						8	6	SS

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YUMEN	20.39	225.5	3	6	-95					
SEMIPALATNSK	21.94	269.1	4	57	0	9	2	7		
LANCHOW	22.00	207.1	4	57	-1					
NANKING	24.50	174.2	5	20	-2					
PETROPAVLOVK	24.54	79.7	5	22K	0				9	49
MATUSIRO	24.93	133.7	5	27	1	9	41	-7		
ZO-SE	25.63	169.6	5	30	-3	9	54	-6		
PRZHEVALSK	27.73	255.8	5	54	2				14	31
ALMATA	27.98	258.5	5	56	2				11	7
RYBACHE	29.00	258.2	6	10	6				11	38
FRUNSE	29.53	260.3	6	14	6				15	9
SVERDLOVSK	29.72	294.2	6	12	2	11	10	4		
NARYN	29.75	256.7	6	12	2				12	5
LHASA	32.07	223.7	6	30	-1					
ANDIJAN	32.19	259.5	6	38	6				13	29
NAMANGAN	32.42	260.5	6	34	0				10	51
TCHIMKENT	32.66	264.3	6	35	-1				17	13
FERGANA	32.77	259.6	6	37	0				13	45
KHOROG	34.95	256.2	6	56	0					
SHILLONG	35.45	219.5	6	57K	-3				20	7
KULYAB	35.63	258.5	7	2	0					
STALINABAD	35.71	260.2	7	6	4				17	42
SAMARKAND	35.90	263.3	7	7	3				13	6
PHU-LIEN	36.30	194.9							14	42
APATITY	37.27	321.0	7	18	3					
SODANKYLA	39.68	322.7	7	37	1					
MOSCOW	41.45	303.2	7	51	1	14	8	2	9	31 PP
KIRUNA	41.46	325.2	7	57	7				9	31 PP
ASHKABAD	41.89	268.9	7	55	1				17	56 SCS
PULKOVO	42.36	311.5							9	18
COLLEGE	43.40	38.2	8	6	0				9	3
TIFLIS	46.71	283.2	8	35	2				15	38 PS
SKALSTUGAN	46.74	323.4	8	33A	0					
UPPSALA	47.35	317.2	8	37	-1					
GORIS	47.43	280.0	8	45	7					
RESOLUTE	47.52	10.7	8	36	-3	15	33	-1		
POONA	49.21	237.2	8	51	-1					
SCORESBY SD.	49.83	342.9	8	59	2					
SIMFEROPOL	50.08	293.6	9	5	6				10	58 PP
LWOW	51.56	304.3	9	11	1					
KRAKOW	53.25	306.9	9	23	0				14	9
RACIBORZ	53.99	307.9	9	29	1				27	24
COLLMBERG	55.29	311.9	9	37	-1					
BUDAPEST	55.52	305.2							18	46
HALLE	55.57	312.7	9	39	-1					
PRAGUE	55.62	310.1	9	58	18					
PRUHONICE	55.64	309.9	9	40	0	17	28	3	11	29 PP
BRATISLAVA	55.89	307.0	9	42	0					
JENA	56.16	312.4	9	43	-1					
PLAUEN	56.25	311.8	9	43	-2					
MUNSTER	56.93	315.5	9	53	4					
KSARA	57.29	282.9	9	54	2				11	55 PP
STUTTGART	58.80	312.2	10	2	-1					
TRIESTE	59.30	307.1	10	6	0					
STRASBOURG	59.54	313.0	10	13	5					
PARIS	61.44	316.3	10	20A	-1				10	54
FLORENCE X.	61.87	307.4	10	18	-6	18	39	-8		
HELWAN	62.79	283.5	10	29	-1					
HUNGRY HORSE	67.55	33.6	11	0	0					
BUTTE	70.08	33.7	11	17	1					
BOZEMAN	70.86	32.9	11	22	1					
SHASTA	71.39	43.1	11	25K	1					
MINERAL	72.00	42.7	11	29K	1					
RENO	73.37	41.9	11	35	-1					
MALAGA	74.34	313.9	11	40K	-1					
RAPID CITY	74.53	28.2	11	40	-2					
EUREKA	74.81	39.2	11	44	0					
SALT LAKE C.	75.04	35.6	11	44	-1					
FRESNO	75.81	43.2	11	49	-1					
SEVEN FALLS	76.62	4.8	11	54	0					
BOULDER	77.72	31.2	11	51	-9					
BOULDER CITY	78.34	39.9	12	5	1					
PASADENA	78.74	43.3	12	6	0					
CHARTERS TS.	80.36	151.2	12	12A	-3					
TAMANRASSET	81.87	299.1	12	22	-1				15	27 PP
TUCSON	83.11	38.5	12	29	0					
SOUTH POLE	146.30	180.0	19	39	-3				22	13 PP
BYRD STATION	150.93	162.8	19	51	2					

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JANUARY 24 5.H 54.M 6.S EPICENTRE 56.28 163.19 DEPTH= 61.KM

DEPTH OF FOCUS= 0.004R

A=-0.53385 B= 0.16125 C= 0.83006 D= 0.2892 E= 0.9573
G=-0.7946 H= 0.2400 K=-0.5577 HT= -7.7

SE= 2.47

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
KLYUCHI	1.35	272.5	0	22K	-1	0	41	0					
PETROPAVLOVK	4.11	221.7	1	1	-1	1	50	1					
MAGADAN	7.37	301.5	1	49A	2	3	19	9					
UGLEGORSK	14.66	249.4	3	27A	2	6	14	8					
KURILSK	14.67	227.5	3	27	2						6	49	
Y.-SAKHLINSK	15.72	242.2	3	27	-12								
NEMURO	17.17	228.4	4	18	21								
ABASHIRI	17.18	232.4	5	3	66								
WAKKANAI	17.32	240.2	4	59	60	8	34	86					
KUSIRO	17.96	230.1	3	55	-12	7	42	20					
ASAHIGAWA	18.22	235.4	4	13	3								
OBIHIRO	18.53	232.2	4	20	7								
SAPPORO	19.24	235.8	4	10	-12	8	12	22			9	50	
URAKAWA	19.33	231.6	4	21	-2	7	44	-8					
TOMAKOMAI	19.57	234.4				8	16	19					
SUTTSU	19.97	237.2	5	15	45	8	46	40					
MORI	20.36	235.4	4	28	-6						6	50	
TIKSI	21.05	330.1	4	41	0	8	25	-2			5	6	PP
HATINOHE	21.19	231.1				8	32	3					
MIYAKO	21.74	229.0	5	3	15								
MORIOKA	22.03	230.5	4	52	1	8	42	-3					
MIZUSAWA	22.53	229.7	4	54	-1	8	59	5					
SENDAI	23.35	228.9	5	3	0	9	14	6			9	55	
VLADIVOSTOK	23.90	249.8	5	7A	-2						9	3	
HUKUSIMA	23.97	228.9	5	15	6								
SUIHWA	24.28	261.9	5	28	16								
ONAHAMA	24.47	227.2	5	21	7	9	32	5			5	42	
SHIRAKAWA	24.61	228.5	5	17	1								
COLLEGE	24.93	49.9	5	17	-2	10	0	25			9	28	
MITO	25.14	227.2	5	25	4	9	40	1			7	43	
UTUNOMIYA	25.24	228.4	5	22	0	9	33	-7					
KAKIOKA	25.38	227.5	5	24	1								
TUKUBASAN	25.43	227.6	5	21A	-2	9	52	9			5	58	PP
MAEBASI	25.70	229.5	5	20	-6								
KUMAGAYA	25.78	228.7	5	28	1								
NAGANO	25.85	231.2	5	36	9								
MATUSIRO	25.94	231.0	5	26A	-2	9	48	-4			8	57	PCP
OIWAKE	25.98	230.2	5	38	9								
TOKYO C.M.O.	26.03	227.6	5	32	3						10	32	
YOKOHAMA	26.29	227.4	5	34	3						6	31	
MATUMOTO	26.30	231.0	5	34	3								
KOHU	26.57	229.4	5	36	2								
CHANGCHUN	26.95	258.6	5	34	-4								
GIHU	27.54	231.8	5	48	5								
OMAESAKI	27.60	228.7									10	59	
KYOTO	28.32	232.9	5	50A	0								
KOBE	28.85	233.3									8	31	
HAMADA	30.10	237.9									11	2	
KOTI	30.54	234.4									13	26	
SITKA	32.79	62.5	6	30	1						7	48	PP
IRKUTSK	33.70	288.5	6	36A	-1								
PEKING	34.54	262.2	6	41	-3	12	14	6			8	1	PP
ZO-SE	38.55	247.1	7	17	-1								
NANKING	39.04	250.6	7	18	-4								
RESOLUTE	39.68	24.0	7	27A	-1	13	23	-3			9	5	PP
NORD	42.35	360.0	8	8	19						9	33	PP
LANCHOW	44.21	268.7	8	3	-2	14	41	8			9	52	PP
YUMEN	45.00	278.4	8	7	-4								
GUAM	45.03	205.8	8	6	-5	16	51	126					
KIPAPA	45.06	124.4	8	13	2								
CORVALLIS	46.07	72.1	8	15	-4								
SEMIPALATNSK	47.03	299.8	8	25	-2						18	48	SS
CHENGTU	48.14	263.6	8	37K	1	15	40	11			10	28	PP
HUNGRY HORSE	48.31	62.4	8	36	-1						10	1	PCP
CANTON	49.14	248.7	8	43	0	15	50	7					

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SHASTA	49.23	75.3	8	44	0						
SASKATOON	49.27	54.4	9	6	22	15	55	10			
MINERAL	49.90	75.0	8	48	-1						
BUTTE	50.63	63.7	8	54	-1						
BAGUIO CITY	51.17	236.5	8	56	-3						
SVERDLOVSK	51.19	316.5	9	2	3	16	15	4		11	3 PP
BERKELEY	51.32	77.7	9	3	3	16	21	8			
RENO	51.44	74.5	9	0	-1						
BOZEMAN	51.63	63.1	9	3	1						
SANTA CLARA	51.86	78.0	9	5	1						
LICK	52.04	77.7	8	58	-7						
SODANKYLA	52.51	340.4	9	8	-1						
KIRUNA	53.17	343.3	9	13A	-1	16	42	4	9 22		
KUNMING	53.24	260.2	9	12A	-2					10	20 PCP
FRESNO	53.46	76.9	9	14	-2						
SCORESBY SD.	53.48	2.1	9	15	-1	16	57	14			
EUREKA	53.53	71.8	9	16	0						
KOROR	53.82	216.2	9	18	-1	16	48	1			
PHU-LIEN	54.51	253.5	8	50	-34					12	41
SALT LAKE C.	54.75	67.9	9	24	-1						
FRUNSE	55.06	296.3	9	27A	-1					17	26 PS
LHASA	56.14	273.7	9	35A	0	17	22	4			
PASADENA	56.29	77.8	9	35	-2	17	27	7		21	18 SS
RAPID CITY	56.62	59.5	9	36	-3					39	40 PKPPKP
BOULDER CITY	56.73	73.9	9	39	-1						
SKALSTUGAN	58.38	345.2	9	50A	-1						
PULKOVO	58.40	334.2	9	53	2					12	6 PP
BOULDER	58.63	64.0	9	53	0						
SHILLONG	58.83	270.0	9	51A	-3	17	50	-3		11	59 PP
TASHKENT	58.85	298.6	9	53	-1	17	50	-4		12	6 PP
HELSINKI	59.27	337.2	9	56	-1						
MOSCOW	59.93	327.9	10	2	0	18	13	5			
UPPSALA	61.03	341.0	10	9A	0	18	23	1		13	56
STALINABAD	61.22	296.9	10	10	-1						
TUCSON	61.71	73.7	10	15	1					12	21 PP
DEHRA DUN	62.76	284.3	10	23	2	18	42	-2		19	18 PS
WARSAK DAM	63.34	291.7	10	22	-3						
BOKARO	63.58	273.7	10	24	-2	18	55	1			
LAHORE	63.79	287.9	10	25A	-3						
AGRA	65.27	282.1	10	34A	-3	19	40	25		15	6
LUBBOCK	65.37	66.2	10	38	0						
COPENHAGEN	65.89	342.3	10	42	1	19	19	-3		13	6 PP
ABERDEEN	66.28	351.3	11	12K	28					18	44
ASHKABAD	66.71	303.7	10	47	0	19	35	3		13	17 PP
FLORISSANT	66.74	54.6	10	47A	0	19	31	-1			
PORT MORESBY	66.79	197.3	10	47	0	19	40	7		11	43 PCP
ST. LOUIS 1	66.95	54.7	10	47A	-1	19	43	8		11	16 PCP
CHIHUAHUA	67.08	72.6								17	24
OTTAWA	67.28	40.9	10	48K	-2	19	41	2		13	7 PP
SHAWINIGAN	67.34	38.3	10	47K	-3						
WARSAW	67.45	335.9	10	51A	0	19	52	11		15	0 PPP
SEVEN FALLS	67.50	36.7	10	50	-1	19	47	5			
BREBEUF	67.95	39.4	10	53K	-1	19	53	6			
DURHAM	68.61	350.6	11	7K	9	20	16	21			
QUETTA	68.74	292.5	10	58A	-1	20	0	4		39	8 PKPPKP
POTSDAM	68.94	340.9	11	0	0	20	24	25		13	29
LWOW	68.95	333.0	11	1	1					13	36 PP
TIFLIS	69.40	315.3	11	4	1	20	11	7			
PORT BLAIR	69.55	260.2	11	6	2	20	14	8		24	44 SS
WITTEVEEN	69.56	345.0	11	7	3					11	36
KRAKOW	69.73	335.7	11	8	3	20	9	1		20	34 PS
PITTSBURGH	69.88	46.5	11	11K	5						
HALLE	69.98	341.3	11	6	-1					20	40 *SS
COLLMBERG	69.98	340.6	11	6	-1						
RACIBORZ	70.09	336.9	11	7	0					11	19 PCP
MUNSTER	70.24	344.2	11	8	0						
IASI	70.41	329.6	11	14	5	20	40	24			
SIMFEROPOL	70.44	324.2	11	10A	0	20	23	7		15	28 PPP
DE BILT	70.47	345.8	11	12K	2	20	24	7		20	52 PS
JENA	70.60	341.4	11	10	0	20	28	10		13	57 PP
GORIS	70.68	313.0	11	10	-1					13	53 PP
PRAGUE	70.88	339.3	11	14A	2	20	30	8		13	50 PP
PRUHONICE	70.95	339.2	11	13	0					14	32 PP
CHEB	71.27	340.6	11	18	3					16	36
WESTON	71.48	39.5	11	16K	0						
PALISADES	71.74	42.0	11	15	-2	20	29	-2		13	53 PP
KEW	71.75	349.2	11	16	-1	20	33	1		25	30 SS
FORDHAM	71.89	42.1	11	17	-1	20	36	3		15	41 PPP

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HALIFAX	72.04	33.2	11	20K	1						
BRATISLAVA	72.13	336.9	11	21A	1				11	48	20 54 SCS
HURBANOVO	72.17	336.1				21	1	25			
BUDAPEST	72.34	335.3									20 54 PS
GEORGETOWN	72.35	45.3	11	23	2						19 41
WASHINGTON	72.35	45.3	11	22	1						14 2 PP
HYDERABAD	72.79	275.6	11	23	-1	20	44	1			14 11 PP
APIA	72.89	154.5	12	0	36						
KARLSRUHE	72.99	342.9	11	25	0						12 37
MEDAN	73.08	250.3	11	25	0						
STUTTGART	73.09	342.3	11	25	0	21	9	22			14 7 PP
SZEGED	73.24	334.2									13 16
TUBINGEN	73.35	342.4	11	27	0						
BUCHAREST	73.37	329.4	11	28A	1	20	59	9			13 56 PP
TIMISOARA	73.44	333.3									12 12
STRASBOURG	73.51	343.3	11	29A	1	21	14	23			14 13 PP
PARIS	74.05	346.9	11	32	1	21	14	17			
CHAPEL HILL	74.10	48.3	11	31	0						
POONA	74.44	280.0	11	33	0	21	2	0			15 45 PPP
BELGRADE	74.50	333.4	11	35A	1	21	14	11			16 17 PPP
BASLE	74.56	343.1	11	34A	0						22 9
ZAGREB	74.61	336.9	11	33	-1	21	24	20			
BOMBAY	74.70	281.0	11	30	-5	21	4	-1			
COLUMBIA	74.90	50.8	11	35	-1						
NEUCHATEL	75.18	343.4	11	38	1						
TRIESTE	75.25	338.3	11	38	0	21	20	9			26 23 SS
SUVA	75.25	165.0	11	36A	-2	21	18	7			22 10 PPS
MADRAS	75.42	271.6	11	38	-1	21	15	2			14 33 PP
ISTANBUL KA.	75.54	325.9	11	39	0	21	16	2			
SOFIA	75.73	330.6	11	41	0	21	27	11			14 32 PP
OROPA	76.35	342.4	12	0	16						14 32
PAVIA	76.57	341.4	11	46	1						14 41 PP
SKOPJE	76.91	331.7	11	50A	3	21	58	29			22 44 SKKS
CLERMONT-FD.	76.95	345.8	11	50	3	22	28	59			
CHARTERS TS.	77.33	196.3	11	49A	-1						13 31
PRATO	77.47	339.7	11	57	7	21	43	8			
FLORENCE X.	77.54	339.6	11	49A	-2	21	46	10	12	18	22 27 PS
MONACO	78.28	342.3	11	57	2						
NOUMEA	78.32	176.9	11	57	2						
ROME	79.10	338.2	12	0	1	22	3	11	12	27	15 6 PP
KODAIKANAL	79.20	272.2				21	58	5			
TARANTO	79.39	334.2	12	2	1	21	50	-5			15 4 PP
KSARA	79.72	317.7	12	4A	1	22	0	1			15 2 PP
ATHENS	80.01	328.6	12	4K	0						
JERUSALEM	81.79	317.3	12	15K	1	22	36	16			
SERRA PILAR	82.71	353.8	12	20K	2						
BERMUDA	82.77	39.2	12	22	3	22	38	8			15 25 PP
TOLEDO	83.59	350.2	12	24	1	23	19	40			
BRISBANE	83.88	189.1	12	25	1	22	47	6			
ALICANTE	84.72	347.2	12	28	0	22	54	4			28 28 SS
HELWAN	84.95	319.5	12	24	-6	22	56	4			
LISBON	85.14	354.0	12	32A	1						
ALGIERS UNI.	85.78	344.1	12	35	1	23	0	0			15 53 PP
GRANADA	86.22	349.5	12	36A	0	24	13	69			30 7 SS
ALMERIA	86.43	348.5	12	37	0						
MALAGA	86.76	350.0	12	32K	-6						
RELIZANE	87.14	345.9	12	43	3						
SAN JUAN	94.88	46.3	13	18	2						
TAMANRASSET	99.01	339.2	13	35	0	24	24	-33			17 36 PP
ROXBURGH	101.59	175.6				24	24	-55			32 54 SS
FUQUENE	102.97	58.9				24	42	-48			18 13 PP
BOGOTA	103.54	59.6				24	34	-61			18 14 PP
LWIRO	114.97	308.0	14	54	-220						22 1 PP
HUANCAYO	117.20	69.7	18	42	4						
LA PAZ	124.65	65.6	18	54	1						20 44 PP
MIRNY	133.24	211.1									22 35 PKS
PIETERMZBURG	137.57	288.7	19	8	-9						
BYRD STATION	142.74	163.7	19	22	-4						22 28 PP
SOUTH POLE	146.11	180.0	19	32	0						19 54

JANUARY 24 18.H 3.M 35.S EPICENTRE 53.55 169.93 DEPTH= 31.KM

A=-0.58754 B= 0.10438 C= 0.80243 D= 0.1749 E= 0.9846
G=-0.7901 H= 0.1404 K=-0.5967 HT= -6.7

SE= 1.74

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	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
KLYUCHI	5.96	301.4	1	27	-2						2	44	
PETROPAVLOVK	6.77	271.0	1	38	-2						3	3	
MAGADAN	12.12	307.4	2	54	0								
UGLEGORSK	17.92	266.9	4	11	2	7	35	10					
Y.-SAKHLINSK	18.53	260.2	4	18	2	7	46	7					
COLLEGE	23.91	45.1	5	13	1								
MIZUSAWA	24.34	245.4	2	4	-192	5	29	-242					
TIKSI	25.35	330.9	5	26	0	9	51	3			6	5	PP
VLADIVOSTOK	27.04	262.9	5	49	7								
TUKUBASAN	27.04	242.2	5	41K	-1								
MATUSIRO	27.80	245.2	5	46	-3	9	24	-64					
CHANGCHUN	30.55	269.8	6	11	-2								
PEKING	38.28	271.7	7	20	1	13	14	3			7	52	PP
IRKUTSK	38.33	295.5	7	19A	-1								
ULAN-BATOR	39.12	288.2	7	27	1	13	29	5					
HORSESHOE B.	40.45	67.8	7	29A	-8								
RESOLUTE	40.60	24.0	7	39A	0	13	38	-8					
VICTORIA	40.83	69.0	7	42A	1								
70-SE	41.41	257.1	7	45K	0	14	2	4					
NANKING	42.12	260.3	7	51	0	14	12	4					
CORVALLIS	43.16	73.8	8	1	1								
HUNGRY HORSE	46.07	64.0	8	23	0						9	42	PCP
SHASTA	46.09	77.5	8	25	2								
MINERAL	46.78	77.3	8	29	0								
LANCHOW	48.22	276.7	8	40A	0	15	39	3			10	35	PP
BUTTE	48.28	65.7	8	40	0						9	46	PCP
RENO	48.35	76.9	8	43	2								
BOZEMAN	49.32	65.2	8	49	1						9	31	
FRESNO	50.21	79.6	8	55	0								
EUREKA	50.61	74.4	8	59	1								
SEMIPALATNSK	51.78	305.4	9	6	-1	16	27	2					
CHENGTU	51.90	271.5	9	8A	0	16	30	3	9	16	10	25	PCP
SALT LAKE C.	52.09	70.5	9	10	1								
PASADENA	52.98	80.9	9	15	-1								
BOULDER CITY	53.66	76.8	9	21	0								
RAPID CITY	54.57	62.0	9	27	-1								
APATITY	54.93	341.2	9	29	-1								
LARAMIE	55.19	66.0	9	32	0								
SVERDLOVSK	55.81	321.2	9	38	1	17	23	3			21	19	SS
SCORESBY SD.	55.98	4.8	10	37	59								
BOULDER	56.23	66.9	9	41	1								
SODANKYLA	56.31	343.9	9	39	-1								
KIRUNA	56.82	346.7	9	43	-1	17	35	2					
TUCSON	58.63	77.1	9	58	1						15	50	
FRUNSE	59.79	302.1	10	4	-1								
TOCKLAI	60.27	275.5	10	34	26								
LHASA	60.33	280.5	10	9A	1	18	24	5			20	0	SCS
SKALSTUGAN	61.92	348.9	10	18A	-1								
PULKOVO	62.47	338.3	10	25	2								
LUBBOCK	62.79	69.8	10	25	0								
SHILLONG	62.87	276.9	10	23A	-3								
TASHKENT	63.59	304.3	10	29	-1								
MOSCOW	64.24	332.3									12	50	PP
UPPSALA	64.79	345.0	10	37A	-1								
FAYETTEVILLE	65.10	62.7	10	40A	0								
CHITTAGONG	65.33	274.6	10	41A	-1	19	25	3			13	3	PP
STALINABAD	65.95	302.6	10	45	-1								
OTTAWA	66.67	44.3	10	49A	-1								
SHAWINIGAN	66.94	41.8	10	50A	-2								
SEVEN FALLS	67.23	40.3	10	53A	-1								
DEHRA DUN	67.28	290.5				19	53	9					
BREBEUF	67.45	43.0	10	53A	-2								
WARSAK DAM	68.01	297.6	10	56	-2								
LAHORE	68.40	294.0	10	59A	-2								
WESTON	70.96	43.4	11	16A	-1								
PALISADES	71.01	45.9	11	15	-2	20	12	-17			14	10	PP
ASHKABAD	71.46	309.2	11	20A	0								
POTSDAM	72.69	345.4	11	27	0								
CHAPEL HILL	72.85	52.5	11	28	0								
WITTEVEEN	73.09	349.5	11	32	3								
QUETTA	73.42	298.3	11	31A	0	21	2	5			14	15	PP
COLUMBIA	73.45	55.0	11	31	0								
RATHFARNHAM	73.48	357.6	11	1	-30								
HALLE	73.71	345.9	11	32	-1						11	54	PCP
COLLMBERG	73.74	345.1	11	33	0								

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MUNSTER	73.82	348.7	11	34	1					
RACIBORZ	74.03	341.5	11	36	1					
TIFLIS	74.04	320.4	11	36	1				14	21 PP
JENA	74.32	346.0	11	35	-1					
IASI	74.65	334.4	11	45	7					
PRAGUE	74.71	343.9	11	40	1					
PRUHONICE	74.78	343.8	11	40	1				14	19 PP
SIMFEROPOL	74.86	329.1	11	39A	-1					
CHEB	75.03	345.2	11	41	1				14	21 PP
KEW	75.04	353.7	11	40A	-1					
GORIS	75.35	318.2	11	43	1					
CHARTERS TS.	76.05	202.9	11	45A	-1					
BRATISLAVA	76.07	341.6	11	49	3					
STUTTGART	76.76	347.0	11	46	-4					
STRASBOURG	77.13	348.0	11	53	1				12	17
PARIS	77.46	351.5	11	55A	1	20	44	-58		
NEUCHATEL	78.79	348.2	12	2	0					
POONA	78.84	285.9	12	2	0					
TRIESTE	79.11	343.2	12	4	1					
BOMBAY	79.14	286.9	12	0	-3					
ISTANBUL KA.	79.91	331.0	12	7	-1					
FLORENCE X.	81.34	344.5	12	16A	1				12 27	23 29 PS
BRISBANE	82.01	195.1	12	20K	1					27 58
KSARA	84.31	323.0	12	31	1					
JERUSALEM	86.39	322.7	12	42	1					16 6
ALGIERS UNI.	89.33	349.5	12	56	1	23	51	11		
HELWAN	89.50	324.9	12	56	0	23	49	7		
RELIZANE	90.59	351.4	13	13	12					
SAN JUAN	93.73	52.1	13	16	1					
TAMANRASSET	102.80	345.3	13	56	0					18 10 PP
BYRD STATION	139.07	165.5	19	19	-5					
SOUTH POLE	143.36	180.0	19	27	-5					
KIMBERLEY	144.48	300.3	19	33	0					
GRAHAMSTOWN	147.10	293.1	19	41	3					

JANUARY 24 23.H 17.M 31.S EPICENTRE 60.19-151.86 DEPTH= 60.KM

DEPTH OF FOCUS= 0.004R

A=-0.44063 B=-0.23569 C= 0.86620 D=-0.4717 E= 0.8818
G=-0.7638 H=-0.4085 K=-0.4997 HT= -9.0

SE= 1.39

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
COLLEGE	5.06	19.9	1	17	2								
SITKA	9.18	102.8	2	8	-4	3	46	-9					
ALBERNI	18.91	113.2	4	18	0								
HORSESHOE B.	19.54	110.8	4	25A	0	8	11	14					
VICTORIA	20.09	112.8	4	30A	-1	8	10	2					
SEATTLE	21.24	113.0	4	43	0								
BANFF	22.11	97.8	4	51A	0								
CORVALLIS	23.14	119.6	5	4A	3								
HUNGRY HORSE	24.69	101.6	5	17	1						5	49	
RESOLUTE	24.84	32.0	5	18K	0	9	35	1			12	18	SCP
SASKATOON	25.97	87.7	5	30	1						10	8	
SHASTA	26.69	123.6	5	36A	1								
BUTTE	27.03	103.8	5	38	0						6	3	
MINERAL	27.32	122.9	5	41A	0								
BOZEMAN	28.02	102.7	5	48	1				5	59	6	30	
MAGADAN	28.02	294.1	5	47A	0	10	23	-3					
RENO	28.75	121.4	5	55A	1								
BERKELEY	29.15	126.6	5	58A	1								
LICK	29.85	126.3	6	4	0								
EUREKA	30.48	116.5	6	10	1						9	8	PCP
FRESNO	31.09	124.4	6	15A	0								
SALT LAKE C.	31.33	110.1	6	16	-1				6	32			
TIKSI	31.68	323.6	6	19	-1	11	19	-5			9	14	PCP
RAPID CITY	33.03	96.9	6	31	-1								
BOULDER CITY	33.88	118.8	6	39	0				6	54			
LARAMIE	33.92	102.7	6	39	0								
PASADENA	34.02	124.7	6	40	0	12	3	3	6	57	17	35	SCS
BOULDER	35.04	103.8	6	49	0								
NORD	36.42	10.1									8	31	PP
TUCSON	38.79	117.4	7	21	1				7	37	8	51	
Y.-SAKHLINSK	39.34	280.7	7	27	2	13	21	0					

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LUBBOCK	41.84	106.5	7	45	0								
FLORISSANT	43.37	90.9	7	57A	-1	14	18	-3			9	46	PCP
ST. LOUIS I	43.56	91.0	7	58A	-2	14	22	-2			9	42	PCP
FAYETTEVILLE	43.58	96.8	7	59A	-1								
TERRE HAUTE	44.33	87.8	11	19	193	18	59	264					
DALLAS	44.89	102.1	8	10	0								
SCORESBY SD.	44.93	21.4	8	11	1	14	51	7	8	31	10	6	PP
OTTAWA	45.65	73.1	8	15A	-1								
CLEVELAND	45.74	81.1	8	16	-1						18	20	
SHAWINIGAN	46.20	69.9	8	20A	-1						10	5	PCP
BREBEUF	46.58	71.5	8	22A	-2	15	5	-2					
SENDAI	46.65	273.5	8	23	-1						8	36	
SEVEN FALLS	46.69	68.0	8	23A	-1	15	9	0			10	12	PCP
VLADIVOSTOK	47.39	284.9	8	31	1								
TSUKUBASAN	48.65	272.4	8	39K	-1				8	47			
MATUSIRO	49.33	274.3	8	45A	0	15	55	9					
PALISADES	49.82	75.6	8	47	-2	15	48	-5			19	44	SS
WASHINGTON	49.91	79.8	8	47	-2								
FORDHAM	49.96	75.7	8	49	-1								
CHANGCHUN	49.99	290.4	8	50A	0	15	51	-4	9	9			
WESTON	50.02	72.5	8	50A	0								
CHAPEL HILL	51.26	83.8	8	59	-1								
KYOTO	51.77	275.2	9	6K	2								
COLUMBIA	51.80	86.9	9	3	-1								
HALIFAX	51.89	65.1	9	3A	-1						19	50	
KIRUNA	52.16	3.7	9	5	-1	16	22	-3	9	29	16	59	*SS
IRKUTSK	52.41	311.1	9	7A	-1								
SODANKYLA	52.74	0.7	9	10	-1								
ULAN-BATOR	54.87	306.2	9	28	2	17	6	5					
TACUBAYA	55.10	113.8	9	34	6								
SKALSTUGAN	55.97	8.5	9	33	-1				10	0	14	23	PCS
NAGASAKI	56.51	278.3	9	39	1						10	33	
PEKING	57.20	294.1	9	43A	0	17	33	1	10	2	17	59	*SS
HELSINKI	59.95	1.8	10	1	-1								
UPPSALA	60.02	6.1	10	1	-2	18	1	-8	10	26	14	40	PCS
PULKOVO	60.37	358.7	10	7	2				10	30			
SVERDLOVSK	60.54	340.2	10	7	1								
BERMUDA	61.15	74.8				18	24	0			13	55	PPP
SEMIPALATNSK	62.02	325.1	10	16	0								
ZO-SE	62.10	284.2	10	14A	-3	18	36	0	10	34	19	4	*SS
NANKING	62.46	286.7	10	20	1	18	42	2	10	36	19	17	*SS
RATHFARNHAM	63.55	22.3	10	14	-12						11	5	
COPENHAGEN	63.81	9.8	10	28	0								
MOSCOW	64.18	354.1	10	29	-1				10	50	19	39	PS
LANCHOW	65.94	300.7	10	40A	-2	19	22	-1	11	1	13	7	PP
WITTEVEEN	66.03	14.1	10	44	2								
KEW	66.36	19.0	10	44	0	19	29	1	11	6	20	5	*SS
MUNSTER	66.98	13.6	10	49	1								
POTSDAM	67.13	10.0	11	9	20								
TRUK	67.24	243.5	10	49	-1								
WARSAW	67.79	4.7	10	54	1	19	46	1			13	0	PP
HALLE	67.90	10.8	10	53	-1	19	47	0	11	14	12	52	PP
BENSBERG	67.92	14.1	10	54	0								
COLLMBERG	68.20	10.2	10	55	-1				11	20			
JENA	68.43	11.2	10	55	-2	19	59	6	11	17	14	5	
CHEB	69.35	10.8	11	4	1	20	11	7					
PARIS	69.38	17.8	11	3A	0	20	3	-1					
PRAGUE	69.54	9.4	11	5	1	20	45	39			13	46	PP
PRIHONICE	69.64	9.3	11	6	1	20	9	2	11	24	20	46	PS
RACIBORZ	69.80	6.8	11	26	20						11	38	PCP
KRAKOW	69.92	5.6	11	40	33	20	12	1			13	57	PP
KARLSRUHE	69.99	13.7	11	8	1								
LWOW	70.29	2.8	11	9	0						20	55	PS
STUTTGART	70.32	13.2	11	11A	2	20	16	1			11	33	PCP
STRASBOURG	70.33	14.2	11	10	1				11	31	13	49	PP
CHENGTU	70.47	297.5	11	9A	-1				11	29			
FRUNSE	70.48	325.6	11	10	0						20	53	PS
TUBINGEN	70.54	13.3	11	10	0								
BRATISLAVA	71.63	7.8	11	18	1				11	37			
SAN JUAN	72.14	84.2	11	17	-3				11	55			
CHUR	72.25	13.3	11	23	2								
TASHKENT	73.37	328.9									11	45	PCP
TRIESTE	73.87	10.5	11	52	22	20	59	3			12	9	PCP
SEPRA PILAR	74.63	27.9	11	37K	3								
SIMFEROPOL	75.11	355.6	11	38A	1	21	9	-1			21	41	SCS
BELGRADE	75.16	5.7	11	38A	0	21	14	4					
FLORENCE X.	75.47	12.6	11	40	1	21	52	38					
STALINABAD	76.10	328.3	11	43	0								
LISBON	76.78	29.1	12	30K	43								

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LHASA	76.82	307.3	11	48A	1	21	30	2	12	10	21	49 SCS
ROME	77.46	11.9				21	41	6				
TIFLIS	77.53	347.3	11	52	1				12	22	22	4 SCS
CHINCHINA	78.87	99.5	11	53	-5						14	52
ST. VINCENT	78.98	82.9	11	59	0							
ISTANBUL KA.	79.10	359.3	11	59	0	21	51	-2				
GRANADA	79.53	25.3	12	29K	27							
GORIS	79.55	345.8	12	3	1						21	58
WARSAK DAM	79.60	324.5	12	0	-2							
BOGOTA	79.94	98.3	12	5	1	22	23	21				
SHILLONG	80.09	304.7	11	34	-31							
LAHORE	81.04	321.4	12	8A	-2				12	29		
ALGIERS UNI.	81.21	20.2	12	11A	0				12	32		
RELIZANE	81.75	22.4	12	15	1	22	18	-2	12	33		
CHITTAGONG	82.96	303.3	12	19	-1	22	32	-1			12	27 PCP
QUETTA	84.49	327.0	12	27	0	22	46	-2			22	35 SKS
KSARA	86.12	353.5	12	37	2	23	35	31			18	27
JERUSALEM	88.19	354.0	12	46	1							
HELWAN	90.24	357.2	12	56A	1	23	44	2				
HUANCAYO	93.77	107.6	13	12A	1						17	1 PP
CHARTERS TS.	94.20	236.3	13	13A	0						13	34
TAMANRASSET	95.29	20.9	13	19	1				13	36	16	58 PP
MBOUR	97.35	43.8									17	44 PP
LA PAZ	101.08	103.7									17	29 PP
LWIRO	122.21	359.2	18	50A	2						20	58 PP
ASTRIDA	122.55	358.1	18	47	-2							
TANANARIVE	136.50	332.8	19	39	24							
BYRD STATION	141.19	171.4	19	19	-5				19	43	22	51 PP
PRETORIA	145.58	359.9	19	33	2							
KIMBERLEY	148.48	5.7	19	40	4							
SOUTH POLE	150.02	180.0	19	35	-4				19	43	20	5 *SPKP
MIRNY	151.49	229.4	19	46	5							
GRAHAMSTOWN	153.10	2.9	19	50	7							

JANUARY 24 23.H 53.M 34.S EPICENTRE -17.87-178.61 DEPTH= 565.KM

DEPTH OF FOCUS= 0.084R

A=-0.95206 B=-0.02306 C=-0.30504 D=-0.0242 E= 0.9997
G= 0.3050 H= 0.0074 K=-0.9523 HT= 5.2

SE= 1.82

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
SUVA	2.83	264.0	1	16	0	2	18	2				
APIA	7.72	59.3	1	54	-2	3	28	-1				
ONERAHI	18.88	197.9	3	49	3							
KARAPIRO	20.62	193.2	4	2	0							
TONGARIRO	21.85	192.3	4	9	-4							
WELLINGTON	24.01	192.3	4	27	-5							
KAIMATA	25.99	197.0	5	5	15							
BRISBANE	27.80	244.8	5	6K	0	9	10	0				
RABAUL	31.66	292.0				10	6	6			7	6
CHARTERS TS.	33.26	260.6	5	52K	0	10	31	-3				
MELBUURNE	37.52	230.5	6	28	1							
TRUK	38.53	308.3	6	38	2							
HONOLULU	43.81	28.2	7	18	0							
GUAM	47.71	308.3	7	46	-1						11	51 SCP
SCOTT BASE	60.44	183.5	9	18A	1							
TUKUBASAN	66.47	324.4	9	54	-1							
BYRD STATION	67.31	170.7	10	2	2				11	57		
MATUSIRO	67.76	323.5	10	2A	-1							
KYOTO	68.16	320.8	10	5A	0							
SOUTH POLE	72.24	180.0	10	30	1	19	8	1	12	29	13	18 *SP
MIRNY	73.13	204.7	10	34	-1							
Y.-SAKHLINSK	73.31	333.5	10	36	0							
BERKELEY	76.64	42.6	10	55A	1							
PASADENA	77.34	47.7	10	57	-1							
SHASTA	78.20	40.2	11	3A	1							
MINERAL	78.49	40.9	10	59A	-5							
RENO	79.16	42.3	11	9	2							
CORVALLIS	79.98	36.6	11	13	1							
BOULDER CITY	80.63	47.5	11	15	0							
MAGADAN	81.08	344.8	11	15	-2							
EUREKA	81.63	44.0	11	21	1						11	41

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TUCSON	81.77	52.4	11	23	2			
SALT LAKE C.	85.01	44.5	11	37	0			
COLLEGE	85.78	12.7	11	39	-2			
HUNGRY HORSE	87.40	37.1	11	47	-1		15	20
BOZEMAN	87.86	40.4	11	52	2			
BOULDER	89.17	47.4	11	58	2			
LARAMIE	89.50	46.1	11	59	1			
RAPID CITY	92.21	44.3	12	11	1		16	0
SHILLONG	97.11	294.5					21	11
SHAWINIGAN	113.59	46.4	17	35	1			
SEVEN FALLS	114.93	45.8	17	37A	0			
QUETTA	119.59	295.0	17	47	1			
KIRUNA	128.60	350.9	18	2	-1		20	33 SKP
PULKOVO	133.22	340.4						
MOSCOW	133.32	332.6					20	51
SKALSTUGAN	133.72	353.3	18	2	-11		20	52 SKP
UPPSALA	136.46	348.2	18	6	-12		20	59 SKP
SIMFEROPOL	141.60	321.8	18	25	-3			
LWOW	143.29	335.4	18	29	-2			
IASI	143.70	329.5	18	36	5			
RATHFARNHAM	144.14	7.9	18	26K	-6		21	51
POTSDAM	144.36	347.7	18	31	-1			
KRAKOW	144.61	339.3	18	33	0			
WITTEVEEN	144.88	354.4	18	35A	2			
RACIBORZ	145.15	341.0	18	35	1			
KSARA	145.33	304.0	18	37	3			
UVIRA	145.39	234.9	18	37	3			
COLLMBERG	145.39	347.1	18	36	2		20	53
HALLE	145.42	348.4	18	34	0		23	36
ASTRIDA	145.45	236.7	18	38A	4		20	30
MUNSTER	145.62	353.2	18	36	2			
PRAGUE	146.21	344.8	18	39	4		21	51 *SPKP
PRUHONICE	146.27	344.6	18	36	1	20 40		
LWIRO	146.39	236.2	18	41A	6		20	53 PP
KEW	146.45	1.9	18	37	2			
JERUSALEM	146.47	300.9	18	40K	5		20	54
BENSBERG	146.67	353.3	18	39A	3			
CHEB	146.68	347.1	18	42	6	20 43		
BRATISLAVA	147.17	340.5	18	41	5			
KARLSRUHE	148.42	351.2	18	45A	7			
STUTTGART	148.53	350.1	18	40	2			
BELGRADE	148.75	333.4	18	45K	6			
TUBINGEN	148.79	350.1	18	45	6			
STRASBOURG	148.93	351.8	18	46A	7			
PARIS	149.13	358.6	18	46A	7		18	53 PKP2
HELWAN	150.22	299.2	18	42	1			
CHUR	150.33	348.7	18	48A	7			
TRIESTE	150.45	342.3	18	48	7			
NEUCHATEL	150.59	352.2	18	49	7			
FLORENCE X.	152.86	344.2	18	44	-1			
ALGIERS UNI.	161.12	355.9	18	52	-3		19	43 PKP2

JANUARY 26 3.H 35.M 21.S EPICENTRE -54.12-133.04 DEPTH= 0.KM

A=-0.40178 B=-0.43025 C=-0.80837 D=-0.7309 E= 0.6825
G= 0.5517 H= 0.5908 K=-0.5887 HT= -6.9

SE= 2.49

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
BYRD STATION	26.39	174.7	5	37	-3	10	18	6			7	11	
SOUTH POLE	36.06	180.0	7	11	6						8	28	PP
WELLINGTON	36.56	268.7									15	29	SS
ROXBURGH	37.19	259.1				13	9	7					
MIRNY	54.74	200.7	9	28	-5	16	58	-15					
HUANCAYO	61.62	70.0	10	21A	-1	18	43	0			11	0	PCP
LA PAZ	62.12	79.4	10	23	-2	18	39	-11			29	46	PS
CHARTERS TS.	68.63	265.2	11	3A	-4								
CHINCHINA	75.74	60.0	11	49	0	21	30	-1					
BOGOTA	76.24	61.6	11	53	1	21	39	3			24	46	SS
TUCSON	88.14	18.7	12	54	0								
PASADENA	88.84	12.3	12	56	-1								
BOULDER CITY	91.10	14.7	13	8	0								
EUREKA	94.38	13.2	13	26	3								
RESOLUTE	131.01	12.6	19	12	-2								

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	DELTA DEG.	AZ. DEG.	P M	P S	P O-C S	S M	S S	S O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
TAMANRASSET	135.93	118.6	19	16	-7						21	53	PP
SHILLONG	136.35	247.5	19	54	30								
ALGIERS UNI.	145.32	101.8	19	38	-2						22	53	PP
SCORESBY SD.	146.36	34.5	19	40	-1								
IRKUTSK	146.39	290.8	19	41	0								
NORD	146.93	14.0	19	42	0								
LAHORE	150.14	232.0	19	51	3								
QUETTA	152.05	219.2	19	57	7								
WARSAK DAM	153.46	230.7	19	52	0								
KSARA	158.25	154.4	20	55	56								
TIFLIS	167.51	172.5	21	11	63						25	6	

JANUARY 26 6.H 42.M 14.S EPICENTRE 47.41 154.29 DEPTH= 0.KM

A=-0.61200 B= 0.29468 C= 0.73391 D= 0.4338 E= 0.9010
G=-0.6612 H= 0.3184 K=-0.6793 HT= -4.5

SE= 2.01

	DELTA DEG.	AZ. DEG.	P M	P S	P O-C S	S M	S S	S O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
KURILSK	4.95	246.3	1	20	3						2	20	
Y.-SAKHLINSK	7.90	270.9									2	22	
UGLEGORSK	8.33	286.1	2	10	5						3	56	
KLYUCHI	9.78	21.7	2	32	7						4	46	
MAGADAN	12.34	351.7	3	2	2						5	34	
MIZUSAWA	12.65	233.9				5	40	13					
TUKUBASAN	15.36	228.4	3	40K	0	6	24	-7			4	39	
MATUSIRO	16.11	233.5	3	49K	0	7	2	13					
VLADIVOSTOK	16.32	263.0	3	55	3						7	7	
CHANGCHUN	20.53	270.7	4	39	-3								
TIKSI	27.06	342.6	5	47	1						6	36	PP
PEKING	28.30	269.0	5	58	1	10	44	1					
ULAN-BATOR	31.53	288.8	6	26	0								
COLLEGE	35.13	38.9	6	56	-1								
LANCHOW	38.69	271.8	7	29	2								
CHENGTU	41.72	264.9	7	53A	1	14	13	3					
KUNMING	46.24	259.8	8	29	0								
SEMIPALATNSK	46.89	302.6	8	29	-5								
RESOLUTE	49.96	18.9	8	57A	-1	16	17	9			19	52	SS
NORD	51.15	358.3	9	5	-2								
LHASA	51.15	273.4	9	9A	2								
VICTORIA	52.50	56.1	9	16	-1								
SHILLONG	53.20	268.9	9	21A	-1								
FRUNSE	54.07	296.7	9	27	-1								
BANFF	55.32	50.0	9	36	-2								
CHITTAGONG	55.37	266.0	9	39A	1	17	25	3			11	44	PP
SHASTA	57.53	63.5	9	53	0								
HUNGRY HORSE	57.76	52.0	9	55	0								
MINERAL	58.23	63.4	9	48	-10								
RENO	59.81	63.2	10	16	7								
BUTTE	59.97	53.5	10	10	0								
KIRUNA	59.98	341.6	10	8	-2								
BOZEMAN	61.02	53.0	10	19	1								
WARSAK DAM	61.33	290.1	10	18	-2								
FRESNO	61.56	65.6	10	23	2								
EUREKA	62.15	61.1	10	23	-2								
SCORESBY SD.	62.40	358.6	10	26	-1								
SALT LAKE C.	63.73	57.7	10	36	0								
MOSCOW	64.36	325.9	10	38	-2								
BOULDER CITY	65.11	63.4	10	46	1								
SKALSTUGAN	65.36	342.4	10	44	-2								
RAPID CITY	66.25	50.2	10	52	0								
QUETTA	66.77	289.7	10	55A	0	19	49	2					
ASHKABAD	66.80	301.2	10	56	1								
LARAMIE	66.88	53.7	10	56	0								
UPPSALA	67.41	338.0	10	57A	-2								
CHARTERS TS.	67.49	188.2	10	59A	-1								
BOULDER	67.92	54.6	11	4	1								
TUCSON	70.08	63.9	11	18	2								
POONA	70.19	276.0	11	18	1								
TIFLIS	71.52	311.9	11	25	0						21	23	SCS
SIMFEROPOL	74.08	320.3	11	40	0								
LUBBOCK	74.44	57.3	11	41	-1								
RACIBORZ	75.76	332.5	11	50	1								
COLLMBERG	76.20	336.2	11	51	-1								

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HALLE	76.31	336.9	11	51	-1			12	6 PCP
FAYETTEVILLE	76.79	50.7	11	54	-1				
PRAGUE	76.90	334.8	11	55	-1			14	1
JENA	76.92	336.8	11	55	-1				
PRUHONICE	76.95	334.6	11	56	0				
MUNSTER	76.97	339.6	11	55	-1				
OTTAWA	77.69	33.5	11	59K	-1				
SHAWINIGAN	77.78	31.1	12	0	-1				
BREBEUF	78.38	32.2	12	4	0				
STUTTGART	79.52	337.4	12	9A	-1			13	20
STRASBOURG	80.07	338.2	12	14	1				
PARIS	81.09	341.6	12	18A	0			12	25 PP
NEUCHATEL	81.74	338.1	12	22	0				
KSARA	82.09	312.3	12	25	1				
COLUMBIA	84.99	43.3	12	37	-1				
BYRD STATION	135.63	165.6	19	16	-6			19	37

JANUARY 26 7.H 28.M 39.S EPICENTRE 49.37 155.40 DEPTH= 43.KM
DEPTH OF FOCUS= 0.002R

A=-0.59433 B= 0.27213 C= 0.75679 D= 0.4163 E= 0.9092
G=-0.6881 H= 0.3151 K=-0.6537 HT= -5.2

SE= 1.55

	DELTA DEG.	AZ. DEG.	P M	S	O-C S	S M	S	O-C S	*PP M	S	SUPP. M	S	
UGLEGORSK	8.73	273.1	2	8	2	4	1	17					
MAGADAN	10.54	347.1	2	33	2	4	45	16					
TUKUBASAN	17.24	226.0	3	56K	-3						7	5	
MATUSIRO	17.90	230.7	4	6K	-1	7	32	10					
SUIHWA	19.16	272.6	4	37	15								
TIKSI	25.42	340.7	5	24	-1								
COLLEGE	33.15	40.8	6	32	-2								
LANCHOW	39.40	270.2	7	29	2								
KIPAPA	46.10	110.1									10	37	PPP
KUNMING	47.33	259.0	8	30	-1								
RESOLUTE	47.86	19.7	8	34A	-1	15	29	1			10	3	PCP
HORSESHOE B.	50.41	57.0	8	55	0								
VICTORIA	50.81	58.0	8	57	-1								
LHASA	51.78	272.7	9	10	5								
SVERDLOVSK	52.96	316.7	9	15	1								
RABAUL	53.43	184.0	9	18	1								
SHILLONG	53.98	268.3	9	21K	-1								
HUNGRY HORSE	55.98	53.6	9	35	-1						9	57	
SHASTA	56.02	65.3	9	36	0								
CHITTAGONG	56.25	265.6	9	39A	1						11	46	PP
MINERAL	56.71	65.2	9	40	-1								
BUTTE	58.22	55.0	9	51	-1								
RENO	58.28	64.9	9	52	0								
KIRUNA	58.34	341.6	9	50	-3								
BOZEMAN	59.26	54.5	10	1	2								
EUREKA	60.57	62.7	10	10	2								
WARSAK DAM	61.35	289.7	10	12	-1								
SALT LAKE C.	62.07	59.2	10	19	1								
BOULDER CITY	63.59	64.9	10	28	0								
SKALSTUGAN	63.71	342.6	10	28	-1								
RAPID CITY	64.44	51.5	10	34	0								
LARAMIE	65.14	55.1	10	38	0								
UPPSALA	65.86	338.2	10	40	-3								
BOULDER	66.19	55.9	10	46	1								
QUETTA	66.81	289.7	10	50	1								
TUCSON	68.56	65.3	11	1	1								
POONA	70.72	276.1	11	12	-1						11	38	
TIFLIS	70.76	312.1	11	14	1								
BOMBAY	71.12	277.2									21	27	
FAYETTEVILLE	74.98	51.8	11	37	-1								
JENA	75.40	337.3	11	37	-4						13	13	
PRUHONICE	75.48	335.1	11	43	2				12	7			
OTTAWA	75.64	34.5	11	41	-1								
SHAWINIGAN	75.71	32.0	11	43	1								
SEVEN FALLS	75.88	30.6	11	43A	0								
BREBEUF	76.32	33.1	11	45	-1								
BRISBANE	76.53	182.2	11	48A	1								
STUTTGART	77.99	337.9	11	56K	1						12	21	PCP
PARIS	79.45	342.2	12	4	1						12	53	

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NEUCHATEL	80.18	338.7	12	7	0					
MELBOURNE	87.32	188.2	12	44	1					
ALGIERS UNI.	90.79	338.1	13	24	24					
TAMANRASSET	103.32	331.6	13	58	2					
BYRD STATION	137.34	165.1	19	8	-11				19	34
SOUTH POLE	139.18	180.0	19	11	-11					

JANUARY 27 7.H 44.M 8.S EPICENTRE -14.99-174.10 DEPTH= 47.KM

DEPTH OF FOCUS= 0.002R

A=-0.96128 B=-0.09934 C=-0.25706 D=-0.1028 E= 0.9947
G= 0.2557 H= 0.0264 K=-0.9664 HT= 5.8

SE= 2.64

	DELTA DEG.	AZ. DEG.	P M	S	O-C S	S M	S	O-C S	*PP M	S	SUPP. M	S	
APIA	2.54	62.5	0	28	-12	0	56	-14					
SUVA	7.82	245.3	1	57	3	3	27	5					
NOUMEA	19.80	245.6	4	29	0				4	34			
ONERAHI	23.13	204.4	5	7	5	9	33	27					
AUCKLAND	23.93	202.4	5	3	-7	9	29	9					
WELLINGTON	27.92	198.1	5	45	-3	10	47	21			6	43	PP
KAIMATA	30.13	201.6	6	6	-1								
GEBBIES PASS	30.77	199.0	6	13	0								
BRISBANE	32.95	242.4	6	30	-2	11	49	3					
ROXBURGH	33.51	201.3				11	54	0					
RABAUL	34.89	284.5	6	47	-2						9	24	
RIVERVIEW	36.54	232.8	7	2A	-1	12	19	-22					
CHARTERS TS.	38.07	256.6	7	4	-11						9	46	
PORT MORESBY	38.24	273.8	7	17	0	13	12	5	7	38	11	39	
KIPAPA	39.48	23.9	7	29	2								
TRUK	40.47	301.2	7	28	-7								
MELBOURNE	42.68	229.9	7	53A	-1						10	32	
GUAM	49.58	302.8	8	47	-1								
PERTH	65.45	241.5	10	40	0	19	35	16			14	41	
TUKUBASAN	66.82	320.9	10	48A	-1						11	28	PCP
MATUSIRO	68.19	320.1	10	56A	-1	20	0	8			11	15	
KYOTO	68.83	317.5	10	57A	-4								
BYRD STATION	69.46	171.3	11	5K	0	20	20	12			21	15	SCS
NAGASAKI	71.52	312.5	11	26	8	20	29	-3					
BERKELEY	71.61	41.0	11	19	1	20	39	6			21	6	
BAGUIO CITY	71.64	293.2	11	18	0	20	46	13					
LICK	71.70	41.7	11	18	-1								
PASADENA	72.22	46.2	11	21	-1	20	49	9					
FRESNO	72.57	43.1	11	22	-2								
SHASTA	73.24	38.6	11	27	-1								
MINERAL	73.51	39.2	11	27	-2								
RENO	74.15	40.7	11	33	0								
SOUTH POLE	75.10	180.0	11	38K	0						14	29	PP
CORVALLIS	75.13	35.0	11	42	3								
BOULDER CITY	75.51	46.1	11	41K	0								
EUREKA	76.58	42.5	11	46K	-1								
TUCSON	76.60	51.1	11	47A	0						14	45	PP
70-SE	77.18	307.3	11	48A	-2	21	39	4			21	59	SCS
VICTORIA	77.58	31.8	11	50	-2	21	45	6					
SEATTLE	77.60	33.0	11	52	-1								
DJAKARTA	77.90	266.8	11	55	1	21	40	-2					
HORSESHOE B.	78.20	31.2	11	56	0	25	22	216					
NANKING	79.42	307.3	12	4A	1	22	6	7					
MAGADAN	79.54	342.7	12	4	1	22	4	4					
SALT LAKE C.	79.95	43.0	12	5	0								
CHANGCHUN	80.44	320.3	12	8A	0	22	17	8					
CANTON	80.47	297.0	12	9A	1	22	21	12					
NHATRANG	80.59	285.3	12	10	1								
TACUBAYA	81.21	67.2	12	20	8	22	25	8			15	3	PP
COLLEGE	82.09	11.0	12	13A	-4	22	28	2			25	54	
BUTTE	82.15	38.2	12	16	-1						15	23	PP
HUNGRY HORSE	82.52	35.7	12	17A	-2						15	23	PP
BOZEMAN	82.89	39.0	12	22A	1						15	32	PP
BANFF	83.24	32.7	12	20K	-3								
LUBBOCK	84.00	53.1	12	25	-1								
BOULDER	84.05	46.0	12	27	0								
PEKING	84.70	313.7	12	22	-8	23	3	11			22	54	SKS
PHU-LIEN	85.55	292.8	12	36	2	23	3	2					

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RAPID CITY	87.15	43.0	12	43A	1					
MEDAN	88.23	274.2	12	49A	2				16	7 PP
KUNMING	90.27	295.8	13	0A	3	23	58	13	23	32 SKS
CHENGTU	90.74	301.4	13	0A	1	24	0	11	23	32 SKS
FAYETTEVILLE	90.78	52.9	12	59	0	23	40	-9		
LANCHOW	92.46	306.6	13	10	3	24	16	12	23	43 SKS
ULAN-BATOR	93.79	318.6	13	13	0	24	26	10		
TIKSI	94.42	344.5	13	14	-2					
FLORISSANT	94.47	51.2				23	48	-33	30	58 SS
ST. LOUIS 1	94.53	51.4	13	14	-2	24	34	12	23	46 SKS
HUANCAYO	95.21	103.9	13	27	8	23	58	-30		
PORT BLAIR	95.98	280.4	14	13	50	24	48	14	23	59
CHINCHINA	99.44	87.4				25	21	17	17	35 PP
SHILLONG	99.89	293.9	13	41	0				17	47
LA PAZ	100.52	110.3				24	28	-45	25	32 S
COLUMBIA	100.72	57.6				24	29	-45		
BOGOTA	100.86	88.1				24	23	-52	17	41 PP
LHASA	101.41	297.8	13	50	3	25	34	14	24	30 SKS
RESOLUTE	101.52	15.5	13	47	-1	24	27	-54	26	59 PS
PALISADES	107.30	51.3				24	51	0	18	27 PP
DEHRA DUN	112.66	296.9							19	10
BERMUDA	114.13	61.0				25	34	18	23	8 PKS
BOMBAY	116.20	283.9							17	27
SVERDLOVSK	121.43	328.3							20	18 PP
QUETTA	122.25	296.4	18	52	2	26	0	15	20	42 PP
MOSCOW	132.61	336.2	19	11	2				22	41
TIFLIS	137.18	316.2	19	21	3					
RATHFARNHAM	140.59	11.5	19	33	9				20	12
SIMFEROPOL	141.78	327.1	19	20	-6					
KISHINEV	142.79	333.8	19	20	-8					
MUNSTER	143.09	358.2	19	30	1					
HALLE	143.26	353.7	19	26	-3				20	56
KEW	143.27	6.5	19	37	8					
COLLMBERG	143.34	352.5	19	29	0					
RACIBORZ	143.60	346.6	19	6	-23					
BENSBERG	144.11	358.6	19	32	2					
PRAGUE	144.33	350.6	19	35	4				21	6
BRATISLAVA	145.65	346.7	19	36	3				22	9
BUDAPEST	145.81	344.0	19	37	4				19	55
KARLSRUHE	146.01	357.0	19	37K	3				20	37
PARIS	146.16	4.0	19	36A	2				19	46 PKP2
STUTTGART	146.21	356.1	19	37K	3				20	1
TUBINGEN	146.46	356.2	19	38	4					
STRASBOURG	146.47	357.8	19	38	4				22	55 PP
KSARA	147.07	310.1	19	42	7				23	14 PP
ISTANBUL KA.	147.14	326.8	19	37	2					
RAVENSBURG	147.16	355.4	19	42	6				20	31
BASLE	147.53	357.9	19	50A	14				27	40
ZURICH	147.64	356.6	20	2	26					
NEUCHATEL	148.08	358.6	19	40	3					
CHUR	148.09	355.3	19	41A	4					
SOFIA	148.58	334.9	19	43	5				20	13
TRIESTE	148.73	349.4	19	50	12					
CLERMONT-FD.	149.23	3.8	19	43	4					
OROPA	149.42	357.1	19	40	1				25	32
PAVIA	149.78	355.4	19	46	6				22	8
BOLOGNA	150.23	352.2	19	55	15					
UVIRA	150.58	233.2	19	37	-4					
ASTRIDA	150.64	235.4	19	43	2					
FLORENCE X.	150.95	352.0	19	41	0					
MONACO	151.33	357.7	19	43	1				19	54
LWIRO	151.59	234.8	19	47A	5				23	29 PP
ATHENS	152.21	328.8	19	51K	8					
HELWAN	152.31	306.6	19	46	3				23	33
TOLEDO	153.72	17.5	19	38	-7				19	57
TORTOSA	153.84	9.3	19	52	6					
ALICANTE	156.06	12.4	19	46	-2	26	51	3	23	54 PP
GRANADA	156.34	19.2	19	54K	5				20	25 PKP2
MALAGA	156.49	21.1	19	39K	-10				19	56 PKP2
ALMERIA	156.99	17.4	19	51	1					
MBOUR	157.87	88.6	19	56	5				24	8 PP
ALGIERS UNI.	158.16	6.2	19	53	2				24	6 PP
RELIZANE	158.78	12.1	19	56	4					
TAMANRASSET	172.24	2.6	20	7A	4				25	34 PP

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JANUARY 29 0.H 16.M 31.S EPICENTRE 37.15 142.45 DEPTH= 0.KM

A=-0.63348 B= 0.48690 C= 0.60136 D= 0.6094 E= 0.7929
G=-0.4768 H= 0.3665 K=-0.7990 HT= -0.6

SE= 2.78

	DELTA DEG.	AZ. DEG.	P M	P S	P O-C S	S M	S S	S O-C S	*PP M	*PP S	SUPP. M	SUPP. S
ONAHAMA	1.26	261.2	0	27	2	0	39	-4				
ISINOMAKI	1.56	325.2	0	28	-1	0	47	-3				
SENDAI	1.66	312.6	0	28	-3	0	48	-5				
HUKUSIMA	1.69	291.3	0	30A	-1	0	48	-6				
MITO	1.77	244.7	0	31	-1	0	51	-5				
SHIRAKAWA	1.79	269.6	0	32A	0	0	53	-3				
TYOSI	1.93	222.6	0	33	-1	0	55	-5				
YAMAGATA	2.00	303.9	0	36	1	1	0	-1				
KAKIOKA	2.05	243.9	0	33A	-3	0	57	-6				
UTUNOMIYA	2.16	254.6	0	35A	-3	0	57	-8				
MIZUSAWA	2.23	332.5	0	40	1	1	6	-1				
MIYAKO	2.52	351.5	0	42	-1	1	15	0				
TOKYO C.M.O.	2.63	236.8	0	43	-1	1	8	-9				
KUMAGAYA	2.67	248.9	0	42	-3	1	16	-2				
SAKATA	2.71	310.9	0	47	2						1	31
MORIOKA	2.74	338.8	0	45	-1	1	17	-3				
NIIGATA	2.81	286.8	1	10	23						1	33
MAEBASI	2.82	255.5	0	46A	-1	1	19	-3				
YOKOHAMA	2.84	233.6	0	51	4	1	21	-2				
TITIBU	2.96	247.7	0	47	-2	1	20	-6				
MERA	3.08	224.4	0	58	7						1	26
AKITA	3.16	324.9	0	56	4	1	32	1				
OIWAKE	3.24	256.5	0	58	5	1	40	7				
TAKADA	3.36	270.4	0	55	0	1	37	1				
HUNATU	3.40	242.1	0	53	-2	1	39	2				
AJIRO	3.43	233.3	0	53	-3	1	38	0				
NAGANO	3.44	263.2	0	57	1						1	17
OSIMA	3.45	227.3	0	54	-2							
HATINOHE	3.45	348.2	1	1	5	1	37	-1				
MATUSIRO	3.45	261.2	0	55	-1	1	36	-3				
AIKAWA	3.45	285.8	0	57	1							
KOHU	3.48	245.3	0	56	-1	1	43	4				
MISIMA	3.49	235.5	0	58	1	1	42	2				
MATUMOTO	3.71	257.3	0	59	-1	1	42	-3				
AOMORI	3.89	340.9	1	9	7	1	59	9				
SHIZUOKA	3.94	237.6	1	3	0	1	50	-1				
IIDA	4.07	247.8	1	4	-1	1	59	4				
TOYAMA	4.23	265.4	1	9	2	2	7	8				
OMAESAKI	4.28	234.7	1	16	8	2	10	10				
TAKAYAMA	4.30	258.1				2	57	57				
HAKODATE	4.81	344.3	1	17	2	2	10	-3				
NAGOYA	4.86	247.6	1	16	0	2	20	6				
GIHU	4.91	250.8	1	16	-1	2	16	1				
URAKAWA	5.00	2.8	1	14	-4	2	25	8				
HUKUI	5.10	259.4	1	35	16							
MORI	5.15	344.2	1	36	16	2	33	12				
IBUKISAN	5.22	252.0	1	22	1	2	39	16				
HIKONE	5.36	251.3	1	23	0	2	32	6				
KAMEYAMA	5.37	246.4	1	23	0	2	35	8				
TOMAKOMAI	5.40	353.1	2	27	63							
OBIHIRO	5.79	5.4	1	40	11	2	34	-3				
KYOTO	5.85	250.6	1	31K	1							
OWASE	5.95	240.7	1	31	0						3	1
SAPPORO	5.97	352.2				2	35	-7			3	52
KUSIRO	6.01	13.8	1	19	-13	2	37	-6			3	13
OSAKA	6.15	248.1	1	37	3	2	50	4			3	9
TOYOOKA	6.37	257.5	1	35	-2	2	45	-7				
WAKAYAMA	6.61	246.0				2	40	-18				
NEMURO	6.62	20.2	1	39	-2	2	49	-9				
ASAHIGAWA	6.62	359.5	1	58	17							
SUMOTO	6.76	247.8	1	55	12	3	10	8			3	27
ABASHIRI	7.00	10.9				3	4	-4				
TOKUSIMA	7.11	246.7	1	48	0						3	43
HIROSIMA	8.61	254.2									4	19
CHANGCHUN	14.64	302.4	3	27	-3							
MAGADAN	23.05	10.9	5	10	2							
ULAN-BATOR	28.09	303.8	5	56	1							
CANTON	28.74	249.0	5	59	-2							
LANCHOW	30.89	279.9	6	17	-3							
CHENGTU	32.40	270.0	6	29	-4							

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KUNMING	35.88	261.9	7	0	-4							
NHATRANG	38.76	238.9	7	34A	6						7	48
LHASA	43.14	275.6	8	3	-1							
SHILLONG	44.25	269.8	8	9A	-4							
CHITTAGONG	45.85	265.9	8	21	-5							
COLLEGE	48.55	32.3	8	47	0							
LAHORE	55.44	285.8	9	34	-5							
SVERDLOVSK	55.61	318.7	9	39	-1							
WARSAK DAM	56.50	289.7	9	43	-3							
CHARTERS TS.	56.97	175.7	9	52	2							
QUETTA	61.71	287.8	10	19	-3							
RESOLUTE	62.28	14.6	10	24K	-2							
APATITY	62.92	335.9	10	28	-2							
SODANKYLA	65.18	337.4	10	43	-2							
KIRUNA	66.70	339.5	10	53	-2							
HUNGRY HORSE	71.13	43.3	11	22	0							
UPPSALA	73.21	334.4	11	31	-4							
EUREKA	75.12	51.7	11	46	0							
RAPID CITY	79.66	41.9	12	17	6							
PRUHONICE	81.82	329.0	12	21	-1							
JENA	82.26	331.1	12	26	2						12	36
STUTTGART	84.91	331.1	12	37	-1							
TAMANRASSET	107.89	318.5									17	5

JANUARY 30 6.H 13.M 25.S EPICENTRE -7.16 155.65 DEPTH= 0.KM

A=-0.90400 B= 0.40921 C=-0.12383 D= 0.4124 E= 0.9110
G= 0.1128 H=-0.0511 K=-0.9923 HT= 6.9

SE= 2.84

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
RABAUL	4.54	310.2	1	17	5								
PORT MORESBY	8.70	254.6	2	16	6								
TRUK	15.02	345.3	3	37	2								
CHARTERS TS.	15.68	214.6	3	41K	-3	6	49	10					
NOUMEA	18.30	146.4	4	18	1						6	45	
BRISBANE	20.36	186.7	4	37	-4	8	28	3					
GUAM	23.18	332.1	5	6	-3	9	12	-6			5	46	PP
SUVA	24.73	118.3	5	25	1	9	56	11					
KOROR	25.55	303.9	5	31	-1	9	46	-12					
RIVERVIEW	26.86	188.3	5	42	-2	10	21	1					
MELBOURNE	32.03	196.1	6	29	-2	11	5	-37			7	21	PP
APIA	32.68	104.4	6	38	2								
FORT NELSON	36.37	190.3	7	11K	3	12	56	6					
WELLINGTON	38.00	156.4	7	23	1	13	11	-4			8	55	PP
GEBBIES PASS	39.33	160.4	7	33	0	13	35	0			9	16	PP
ROXBURGH	40.04	165.0	7	36	-3	13	35	-10			9	11	PP
MANILA	40.60	302.2	7	38	-5	12	58	-56					
BAGUIO CITY	41.87	304.3	7	53	-1	14	14	2					
KYOTO	45.97	337.1	8	27A	0	15	11	-1					
MATUSIRO	46.45	340.6	8	29	-2	15	12	-7			9	47	
NAGASAKI	46.64	329.7	8	31	-1	15	13	-9					
SENDAI	47.24	344.2	8	37	0						9	57	
MIZUSAWA	47.98	344.8	8	53	10	15	49	8					
DJAKARTA	48.48	268.1	8	47A	1	15	41	-7					
NHATRANG	50.02	292.4	8	58A	0	16	8	-1					
ZO-SE	50.35	320.9	8	59	-2	16	16	2			9	37	
CANTON	51.18	307.2	9	9	2	16	31	6			9	46	
NANKING	52.49	320.1	9	15	-2	16	42	-1			20	24	SS
HONOLULU	53.48	57.0	9	29	5	17	4	7					
VLADIVOSTOK	54.50	338.8	9	29K	-3						17	11	PCS
HAWAII V.OB.	55.08	60.4	9	32	-4	17	23	5					
Y.-SAKHLINSK	55.08	349.2	9	37A	1						17	25	PS
CHANGCHUN	57.70	334.4	9	53	-2								
MEDAN	57.84	278.8	10	0K	4	18	3	8					
PEKING	59.42	325.5	10	5	-2	18	9	-6			12	28	PP
KUNMING	60.66	303.8	10	16	1	18	35	4			10	53	
CHENGTU	62.10	310.1	10	20	-5	18	52	2			23	10	SS
KLYUCHI	63.40	3.2	10	35A	1						14	53	
LANCHOW	64.90	315.3	10	42	-2	19	26	2			11	38	
PORT BLAIR	65.32	286.3	10	44	-2	19	27	-3					
WILKES	66.60	198.3	10	55	1	19	44	-1			24	4	SS
MAGADAN	66.61	357.3	10	53	-1	19	49	4					
TOCKLAI	67.89	302.5	11	5	2								
CHITTAGONG	69.00	297.1	11	10A	0	20	16	2			11	34	PCP

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ULAN-BATOR	69.60	327.3	11	15	2	20	25	4			
SHILLONG	69.95	300.4	11	8K	-7				21	36	
LHASA	71.97	304.2	11	25	-3	20	53	4	14	16	PP
CALCUTTA	72.13	296.3	11	29K	1				20	52	
MIRNY	72.78	201.8	11	35A	3	20	56	-2			
IRKUTSK	73.54	330.0	11	34A	-3						
MADRAS	77.58	285.0	12	2K	2	21	58	7	14	49	PP
KODAIKANAL	79.73	281.7	12	14	3						
HYDERABAD	80.03	289.1	12	15K	2	22	17	0	23	5	PS
TIKSI	80.59	351.7	12	16	0	22	22	-1	15	18	PP
KERGUELEN I.	81.74	221.2	12	26	4	23	38	63			
SOUTH POLE	82.89	180.0	12	23	-5				15	46	PP
DEHRA DUN	82.99	301.7	12	36	7	22	47	0	27	51	SS
COLLEGE	83.01	21.0	12	24	-5	22	49	1	28	36	SS
POONA	84.53	289.4	12	38	2	23	19	16	23	0	SKS
BOMBAY	85.56	289.6	12	43	2	23	38	25	16	28	
SEMIPALATNSK	86.27	321.6	12	46	1	23	15	-5			
LAHORE	86.36	302.3	12	44	-1	23	14	-7			
FRUNSE	89.32	313.4	12	53	-2	23	22	-17	16	29	
WARSAK DAM	89.09	304.3	12	54	-5						
PASADENA	90.83	55.9	13	10	3	23	43	-19	14	52	
KARACHI	91.83	295.7	13	12	1						
TASHKENT	91.95	311.2	13	14	2	24	11	-1	25	17	PS
STALINABAD	91.97	308.4	13	13	1				24	16	
QUETTA	92.43	299.9	13	13	-1	24	14	-2	16	53	PP
EUREKA	93.25	50.8	13	18	0				31	6	PKKP
BOULDER CITY	93.77	54.4	13	22	2						
HUNGRY HORSE	95.51	42.1	13	31	3				17	15	PP
TUCSON	96.75	58.4							17	30	PP
SVERDLOVSK	98.69	326.4	13	40	-3	25	10	0	17	48	PP
RESOLUTE	101.96	14.8	13	56A	-1	24	40	-57	18	1	PP
RAPID CITY	102.96	46.5	14	5	3				18	24	PP
THULE	106.81	9.9	14	14	777				18	41	PP
APATITY	108.51	340.0	19	13	777						
GORIS	109.41	309.3	14	33	777				19	8	PP
TIFLIS	110.27	311.8							19	16	PP
KIRUNA	112.45	343.2				25	27	5	19	25	PP
ST. LOUIS 1	113.24	51.1				25	45	20	28	4	
PULKOVO	113.40	333.3							19	25	PP
SCORESBY SD.	116.74	359.1							29	37	PS
SIMFEROPOL	117.11	317.2							20	0	PP
KSARA	118.60	304.6	18	46	-4	26	4	19	20	13	PP
UPPSALA	118.64	337.4				25	32	-13	20	7	PP
LWOW	121.41	325.4				25	41	-14			
OTTAWA	121.63	40.3	18	55	-1						
HERMANUS	121.64	222.0				26	2	6	37	15	SS
WARSAW	121.76	329.0							30	15	
ISTANBUL KA.	121.88	314.4				26	12	16	20	44	PP
BUCHAREST	122.62	319.0				25	33	-26			
PREBEUF	122.92	39.4	18	47	-12						
SHAWINIGAN	122.97	38.0	18	59	0						
HELWAN	123.18	301.0	19	59	60				37	35	PPS
COPENHAGEN	123.51	336.0				26	12	10	20	44	PP
SEVEN FALLS	123.86	36.6	19	0	0						
PALISADES	124.62	44.4	19	7	5	26	6	1	20	54	PP
POTSDAM	125.51	332.8							20	50	
UVIRA	125.60	260.6	19	7	3				21	0	PP
HUANCAYO	125.84	110.4	19	4	0	26	0	-9	20	53	PP
LWIRO	126.14	262.0	19	10	5				20	54	PP
HALLE	126.62	332.5	19	5	-1				20	51	
ABERDEEN	127.17	345.0							23	29	
WITTEVEEN	127.92	336.6	19	13	5						
MUNSTER	128.17	335.4	19	10	1						
CHINCHINA	129.00	89.4	19	10	0				20	55	PP
DE BILT	129.05	336.9							21	35	PP
BENSBERG	129.11	334.8	19	14	3				20	56	PP
TRIESTE	129.49	325.9	19	19	8	26	12	-7	22	35	PKS
GALERAZAMBA	129.62	82.0							22	41	SKP
STUTTGART	129.79	331.6	19	13	1				21	23	PP
BOGOTA	130.50	90.0							22	41	SKP
STRASBOURG	130.59	332.3	19	17	4				21	29	PP
LA PAZ	130.72	118.9	19	17	3	26	15	-7	21	3	PP
FUQUENE	130.91	89.0	19	17	3	26	21	-1	21	32	PP
BOLOGNA	131.55	326.1				26	37	13	22	47	
KEW	131.57	340.1							22	44	PKS
RATHFARNHAM	131.70	345.6							26	51	
FLORENCE X.	132.05	325.4	19	20	4				22	41	PKS
NEUCHATEL	132.11	331.4							22	50	

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PAVIA	132.27	328.1								22	50	
ROME	132.48	322.6	19	18A	1					21	43	PP
OROPA	132.59	329.4								22	56	
PARIS	132.70	336.0	20	50	93	26	32	5				
CLERMONT-FD.	134.80	332.9	19	45	24					22	59	PP
BERMUDA	134.92	50.7				26	6	-25		22	21	PKS
SAN JUAN	137.87	70.6	19	30	3							
ALGIERS UNI.	141.37	323.7	19	30	-3	26	41	-1		22	36	PP
ALICANTE	142.18	328.7	19	33	-2	26	41	-2		22	43	PP
TOLEDO	142.68	333.9	19	36	1					20	51	
FORT FRANCE	143.14	75.0								21	55	
SERRA PILAR	143.38	339.9	19	37K	0							
RELIZANE	143.53	324.8	19	36	-1					22	43	PP
ALMERIA	144.35	329.1	19	41	3							
GRANADA	144.65	330.7	19	43K	4	25	56	-51		22	35	PP
MALAGA	145.40	331.1	19	41A	1					22	44	PP
LISBON	145.71	338.6	19	43K	2					21	28	
TAMANRASSET	147.33	301.6	19	45	2					23	7	PP
MBOUR	169.80	315.3	20	15	6					25	18	PP

JANUARY 31 6.H 32.M 38.S EPICENTRE -39.92 176.35 DEPTH= 0.KM

A=-0.76747 B= 0.04901 C=-0.63920 D= 0.0637 E= 0.9980
G= 0.6379 H=-0.0407 K=-0.7690 HT= -1.7

SE= 2.17

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
WELLINGTON	1.81	221.0	0	34K	1	0	58	1			0	38	P*
KARAPIRO	2.10	342.1	0	37	0	0	58	-6			0	42	P*
COBB RIVER	2.99	246.1	0	50	1						1	41	S*
ONERAHI	4.43	338.7	1	11	1						1	36	PG
GEBBIES PASS	4.68	215.0	1	12	-1	2	2	-7			1	35	PG
NOUMEA	19.48	331.5	4	31	0	8	20	15					
RIVERVIEW	21.02	278.9	5	0A	12	8	48	10					
BRISBANE	22.95	295.6	5	9	2	9	19	6					
MELBOURNE	24.46	264.8	5	22K	1	9	46	6			5	55	
CHARTERS TS.	32.52	298.7	6	33	-2	12	14	24					
CAPE HALLETT	32.59	183.4				12	2	11			14	15	SS
SCOTT BASE	38.25	183.3	7	25	2								
PORT MORESBY	39.99	311.5	7	50	12	13	40	-4			9	4	PP
RABAUL	41.74	322.2	7	50	-2								
BYRD STATION	46.53	167.5	8	31	0						10	5	PCP
SOUTH POLE	50.27	180.0	9	0	0	16	32	20			10	17	PCP
TRUK	52.31	328.7	9	13	-2								
GUAM	60.71	324.2	10	21	6								
KOROR	60.85	310.7	10	17	1								
HALLEY BAY	63.87	173.7	10	35	-2						12	59	PP
MEDAN	82.86	280.7	12	25	-3								
MATUSIRO	83.79	330.0	12	29	-3						28	21	
HUANCAYO	95.97	111.0	13	32	2								
TUCSON	98.45	54.9	13	41	0						17	41	PP
EUREKA	100.30	46.7	17	59	249						18	13	PP
BUTTE	106.54	43.4	18	42	777								
HUNGRY HORSE	107.31	40.9	18	35	777						18	46	PP
RAPID CITY	110.56	49.4	18	33	-1								
WARSAK DAM	121.26	290.0	18	48	-7								
QUETTA	122.74	283.8	18	57	-1								
RESOLUTE	127.72	19.6	19	4	-4								
PALISADES	127.91	64.5	19	6	-2								
OTTAWA	128.35	58.7	19	7	-2						22	25	SKP
SHAWINIGAN	130.67	58.2	19	10	-3						22	32	SKP
SEVEN FALLS	132.12	58.1	19	14	-2						22	38	SKP
TIFLIS	143.67	289.0	19	33	-4								
APATITY	145.67	335.8	19	37	-3								
SODANKYLA	147.82	338.5	19	43	-1								
MOSCOW	148.65	314.2	19	44	-1								
KIRUNA	149.08	342.5	19	46	0								
SKALSTUGAN	154.49	343.4	19	59	5								
UPPSALA	156.00	333.2	20	12	16								
TAMANRASSET	161.22	207.2	20	1K	-1						20	44	PKP2
PRUHONICE	163.70	314.1	20	1	-3						21	43	
COLLMBERG	163.76	320.0	20	1	-3								
RATHFARNHAM	166.50	6.8	20	3A	-4						26	58	
KEW	168.22	349.7	20	6	-2								

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ALGIERS UNI. 173.86 241.3 20 10 -1 21 11 PKP2

FEBRUARY 1 16.H 10.M 16.S EPICENTRE 1.68 -79.31 DEPTH= 0.KM

A= 0.18537 B=-0.98224 C= 0.02919 D=-0.9827 E=-0.1854
G= 0.0054 H=-0.0287 K=-0.9996 HT= 7.2

SE= 2.37

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
CHINCHINA	4.92	48.4	1 5	-10	2 8	-5		
BOGOTA	5.99	60.8	1 31	1	2 44	4		
FUQUENE	6.72	55.8	1 41	0				
BALBOA HTS.	7.23	358.1	1 39A	-9				
HUANCAYO	14.21	163.9	3 18A	-5	5 51	-10		
SANTIAGO MA.	14.82	322.8	3 33	2	6 11	-5		
SAN SALVADOR	15.47	321.2	3 39	0	6 41	10		
TRINIDAD	19.80	62.5	4 33	1				8 21 SS
SAN JUAN	21.04	37.1	4 46	0				
LA PAZ	21.17	149.0	4 46A	-1				5 20 PP
ST. VINCENT	21.20	56.6	4 47K	0				9 2 SS
MERIDA	21.63	333.0	4 44K	-7	8 44	-2		7 11
FORT FRANCE	22.13	53.2	4 56	0				9 4 SS
ST. CLAUDE	22.46	49.6	5 2	2	9 14	13		
BARBADOS	22.58	58.8	5 0	-1				9 17
OAXACA	22.96	312.6	5 0	-5	9 16	6		
ANTIGUA	23.50	48.5	5 6	-4				7 28
PUEBLA	25.29	314.2	5 26	-1	9 56	6		
TACUBAYA	26.25	313.4	5 35K	-1	10 2	-4		6 15 PP
ANTOFAGASTA	26.63	161.6	5 44	4	10 11	-1		14 33
MANZANILLO	29.97	306.8	6 14	4	11 44	38		12 44
GUADALAJARA	30.09	310.6	6 24	13	11 22	14		13 28
COLUMBIA	32.19	357.3	6 28A	-1				
BERMUDA	33.50	22.8	6 41A	0	12 1	0		7 48 PP
MAZATLAN	33.86	311.2	6 40	-4	12 10	3		17 17 SCS
CHAPEL HILL	34.06	0.4	6 46	0				
DALLAS	35.08	333.9	6 55	1				
SANTA LUCIA	35.86	167.6	7 0	-1	12 39	1		8 7 PP
FAYETTEVILLE	36.91	339.7	7 8A	-2	12 46	-8		
GEORGETOWN	37.10	2.9	7 12	1	13 0	4		7 58
WASHINGTON	37.10	2.9	7 9A	-2	13 57	61		15 39
MORGANTOWN	37.77	359.2	7 17A	0	13 57	50		
WAYNESBURG	38.05	358.9	7 22	3	13 14	3		
LUBBOCK	38.11	328.8	7 19	-1	13 9	-3		
ST. LOUIS 1	38.11	346.1	7 16	-4	13 10	-2		
FLORISSANT	38.30	346.0	7 20	-1	13 12	-3		12 42
CONCEPCION	38.91	170.7	7 25	-2	13 25	1		
FORDHAM	39.30	6.5	7 29A	-1	13 29	-1		
PALISADES	39.45	6.4	7 31	0	13 29	-3		9 5 PP
CLEVELAND	39.67	357.4	7 38	5	13 36	1		
WESTON	41.15	9.0	7 46A	1	14 2	4		
LA PLATA	41.55	153.1	7 48	0	13 54	-9		9 24 PP
TUCSON	42.48	319.0	7 56K	0	14 19	2		12 55 SCP
OTTAWA	43.65	3.7	8 5A	-1	14 36	2		9 52 PP
BREBEUF	43.92	5.8	8 7A	-1	14 41	3		
HALIFAX	44.96	15.9	8 17A	1	14 58	5		
SHAWINIGAN	45.05	1.4	8 17	0	14 54	-1		
SEVEN FALLS	45.85	8.1	8 24A	1	15 11	5		18 22 SCS
LARAMIE	46.01	332.4	8 25	1				
RAPID CITY	47.24	336.6	8 33A	-1				15 30
PASADENA	48.56	316.0	8 44	0	15 48	4		10 42 PP
SALT LAKE C.	48.77	327.1	8 47K	1				
EUREKA	50.28	323.1	8 58A	0				
FRESNO	51.11	317.9	9 0K	-4				
BOZEMAN	51.91	332.1	9 9A	-1				
LICK	52.65	317.5	9 16K	0				
RENO	52.68	320.8	9 16K	0				
SANTA CLARA	52.87	317.4	9 24K	7	16 55	11		
BUTTE	52.89	331.4	9 15A	-2				
BERKELEY	53.35	317.8	9 23K	2	16 56	6		
MINERAL	54.27	320.7	9 26K	-2				
UKIAH	54.66	318.6	9 32K	2				
SHASTA	54.96	320.6	9 33	0				
SASKATOON	55.22	339.9	9 37	3	17 17	1		
HUNGRY HORSE	55.26	332.5	9 33A	-2				39 40 PKPPKP

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CORVALLIS	57.70	324.0	9	49K	-3						
SEATTLE	58.94	327.4	10	3K	2	18	12	7		19	44
VICTORIA	60.07	327.7	10	9K	0	18	22	3		19	58
HORSESHOE B.	60.51	328.6	10	20	8	18	38	13			
MBOUR	62.82	74.8	10	28A	1	19	0	6			
IVIGTUT	63.90	16.2				19	12	4		19	34 PS
OHIGGINS	66.79	169.7	9	50	-63					20	40
SITKA	70.74	331.3	11	18	1						
LISBON	73.53	50.1	11	34A	0	21	5	3		12	8
COIMBRA	74.37	48.7	11	40K	1	21	8	-3			
SERRA PILAR	74.42	47.7	11	40A	1	21	9	-3		14	26 PP
REYKJAVIK	74.79	22.5	11	45A	4						
HAWAII V.OB.	76.20	289.5	11	52	3	21	38	6			
MALAGA	76.91	52.8	11	51A	-2	21	43	4		14	41 PP
GRANADA	77.61	52.4	11	50	-7	22	3	16		28	6 SS
TOLEDO	77.62	49.6	11	57A	0	21	51	4		14	38 PP
SCORESBY SD.	77.95	16.8	12	1	2					12	22
ALMERIA	78.47	52.9	12	2	0	21	52	-4		15	0 PP
RATHFARNHAM	78.55	35.9	12	0A	-2	21	59	2		27	19 SS
KIPAPA	78.87	291.4	12	7	3						
HONOLULU	78.94	291.2	12	10	6						
COLLEGE	79.47	336.2	12	7A	0	22	5	-2		27	32 SS
ALICANTE	80.20	51.5	12	10	-1	22	17	3		15	17 PP
LOME	80.41	84.1	12	12	0	22	20	4			
RELIZANE	80.79	54.2	12	15A	1					15	31 PP
TORTOSA	81.19	49.1	12	16	0	22	30	5			
DURHAM	81.56	34.9	12	18A	0	22	29	1			
ABERDEEN	81.66	32.5	12	15	-4	22	27	-2		15	16 PP
KEW	81.83	38.3	12	20A	0	22	34	3		23	44
BARCELONA	82.47	48.6	12	19	-4	22	44	6		15	24 PP
ALGIERS UNI.	82.87	53.3	12	22	-3	22	42	0		15	38 PP
PARIS	83.33	41.2	12	29	2	22	47	1			
CLERMONT-FD.	83.51	44.3	12	29	1	22	54	6			
BYRD STATION	84.01	186.5	12	30K	-1	22	50	-3			
NORD	84.47	7.5	12	31A	-2						
TAMANRASSET	84.59	67.4	12	35A	1	23	6	7		15	49 PP
DE BILT	85.29	38.0	12	39A	2	23	11	5		15	54 PP
BERGEN	85.87	29.7								23	13 PS
NEUCHATEL	86.22	43.2	12	42	0						
WITTEVEEN	86.23	37.4	12	43A	1						
MONACO	86.49	46.5	12	45	2					12	54
BASLE	86.66	42.7	12	45	1	23	12	-7			
MUNSTER	86.79	38.2	12	45	0					13	47
STRASBOURG	86.81	41.6	12	46A	1	23	23	3		16	2 PP
OROPA	86.90	44.6	12	25	-20					23	27 SKKS
KARLSRUHE	87.24	41.2	12	48A	1	23	31	6		16	3 PP
ZURICH	87.34	42.8	12	48	1						
EBINGEN	87.61	42.0	12	49	0					16	14 PP
TUBINGEN	87.68	41.7	12	49	0						
PAVIA	87.74	45.0	12	29A	-20					15	57 PP
STUTTGART	87.76	41.4	12	50A	1	23	35	6		16	16 PP
CHUR	87.99	43.4	12	51	1	23	16	-16			
RAVENSBURG	88.05	42.4	13	6	15						
SKALSTUGAN	89.22	26.6	12	56	0						
FLORENCE X.	89.25	46.4	12	54	-3	24	57	74	13 16	16	29 PP
JENA	89.27	39.3	12	55	-2	23	47	4	13 30	16	24 PP
BOLOGNA	89.29	45.7	13	23	26	23	51	7		16	0 PP
HALLE	89.48	38.7	12	58	0	23	50	5		16	23 PP
COPENHAGEN	89.62	34.5	12	59	1	23	48	1		16	29 PP
PLAUEN	89.65	39.7	12	57	-1	23	51	4		23	25 SKS
CHEB	89.81	40.1	13	8	9	23	53	5		16	25 PP
POTSDAM	90.14	37.8	13	2	1	23	57	6		16	22 PP
COLLMBERG	90.15	38.9	13	1	0	23	55	4		16	54 PP
ROME	90.22	48.3	13	2A	1	24	0	8		16	38 PP
TRIESTE	90.95	44.5	13	5A	1	24	2	3		15	34 PP
PRAGUE	91.13	40.0	13	7K	2	24	3	3		16	29 PP
PRUHONICE	91.21	40.1	13	7	1	24	8	7		16	33 PP
SOUTH POLE	91.67	180.0	13	6A	-2	24	2	-3		29	24 SS
UPPSALA	92.05	30.1	13	9	-1	24	7	-1		23	39 SKS
KIRUNA	92.13	22.0	13	13	3	24	18	9		23	45 SKS
ZAGREB	92.50	44.2	13	12K	0	24	18	6		17	4 PP
REGGIO CALA.	92.88	51.9	13	20	7						
BRATISLAVA	93.04	41.8	13	15	1	24	21	4			
RACIBORZ	93.55	39.8	13	17	1					17	17
TARANTO	93.92	49.4	13	11	-7	23	51	-34			
BUDAPEST	94.44	42.3								23	55
SODANKYLA	94.55	21.9	13	22	1						
KRAKOW	94.66	39.7	13	43	22	24	39	8		14	56
SKALNATE PL.	94.99	40.5				24	21	-13		25	54

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WARSAW	95.01	37.4				24	39	5	23	55 SKS
BELGRADE	95.75	44.8	13	27K	1	24	6	-34	17	4 PP
SKOPJE	96.84	47.6	13	44A	13	24	25	-24	17	34 PP
LWOW	97.30	39.4							31	8 SS
CAPE HALLETT	97.72	196.8	13	39	4	24	13	-44	17	35 PP
HERMANUS	98.00	124.4	13	37	0	24	16	-43	17	34 PP
SOFIA	98.14	46.6	13	36	-1				17	30 PP
PULKOVO	98.32	28.8	13	38	0	24	0	-62	26	24 PS
ATHENS	99.22	51.3	13	41	-1				14	3
BUCHAREST	99.79	44.5	14	34	49	24	22	-52	24	48
IASI	100.17	41.5				24	23	-54	18	53
SUVA	102.17	251.9				24	34	-60	27	24 PS
ISTANBUL KA.	102.66	47.3	13	56	-2	25	48	10		
WELLINGTON	103.05	228.1	13	54	-5	24	32	-70	18	16 PP
MOSCOW	103.42	31.2				24	27	-78	20	41
TIKSI	104.58	351.1	14	7	1	25	49	-5	24	39 SKS
SIMFEROPOL	105.17	42.5				24	43	-51	18	28 PP
ROXBURGH	106.06	222.9				24	22	0	33	14 SS
HELWAN	106.96	58.2	14	20	777	24	56	0		
PETROPAVLOVK	107.23	327.7	14	21	777				18	51 PP
MAGADAN	107.54	335.8							18	28
LWIRO	108.16	91.8	12	27	777					
KSARA	109.76	53.2	14	31	777	25	37	0	19	3 PP
JERUSALEM	109.77	55.4	18	4	777				19	34
NOUMEA	113.02	246.6	19	22	46				28	58 PS
SVERDLOVSK	113.34	22.7				25	19	-2	19	31 PP
TIFLIS	113.60	42.6	14	43	-235				19	31 PP
WILKES	115.23	184.4							19	37 PP
GORIS	115.61	44.2	18	42	1	25	20	-10	14	59 P
Y.-SAKHLINSK	119.17	328.3							20	16 PP
RIVERVIEW	123.08	230.0				25	54	-2	37	20 SS
BRISBANE	123.78	237.8				26	0	2		
ASHKABAD	124.49	40.2	18	53	-6					
SEMIPALATNSK	125.24	15.9	19	1	1					
TANANARIVE	125.24	112.0	19	2K	2				20	50 PP
SENDAI	125.65	321.3	19	17	16				21	39 PPP
IRKUTSK	126.16	357.2	19	2	0				27	25 SKKS
VLADIVOSTOK	127.31	331.5	19	2	-2				27	43 SKKS
TUKUBASAN	127.40	319.7	19	9K	5	26	12	4	21	4 PP
MATUSIRO	128.39	321.3	19	6K	0				31	43 SKSP
RABAUL	128.53	266.0	18	54	-12					
TASHKENT	128.56	30.1	19	5	-2	26	9	-3	28	7 SKKS
CHANGCHUN	129.61	337.0	19	7	-2				21	25 PP
FRUNSE	129.79	24.9	19	9A	0				24	36
ULAN-BATOR	130.30	354.5	19	9	-1					
STALINABAD	130.33	32.9	19	11	1				22	31 PKS
KYOTO	130.92	321.4	19	14K	3	26	21	3		
CHARTERS TS.	131.91	244.5	19	11A	-2				22	35 PKS
PORT MORESBY	133.17	258.7	19	20	5	26	20	-3	24	34 PPP
QUETTA	134.84	42.7	19	20A	2				21	51 PP
WARSAK DAM	135.16	35.0	19	10	-9					
NAGASAKI	136.04	323.7	19	23	2				40	2 SS
PEKING	136.13	342.8	19	22	1	26	56	28	21	49 PP
KARACHI	137.50	47.7	19	25A	2				22	58 PKS
LAHORE	138.54	34.9	19	22	-3				22	49 PKS
DEHRA DUN	141.54	32.4	19	33	2				22	30
ZO-SE	142.01	330.8	19	29	-2				22	45 PP
NANKING	142.31	334.4	19	28	4				22	35 PP
LANCHOW	142.32	355.8	19	28	-4				22	37 PP
AGRA	143.98	35.7	19	34A	-1	25	58	-43	22	46 PP
KOROR	145.11	285.3	19	36	-1					
BOMBAY	145.81	52.0	19	41	3				23	45 PKS
PERTH	146.68	203.8	19	42	3				25	54
POONA	146.83	51.5	19	41	1				23	19 PP
LHASA	147.52	15.8	19	43A	2				23	13 PP
CHENGTU	147.68	354.6	19	43	2				23	14 PP
CHATRA	148.80	23.8	19	47	4					
BOKARO	150.80	28.8	19	43	-3				23	35
HYDERABAD	151.00	48.2	20	11	25				23	22
SHILLONG	151.59	16.9	19	47A	0				23	39 PP
CANTON	152.50	334.2	19	49A	1				23	45 PP
CALCUTTA	153.09	25.9	19	55A	6				24	6 PP
KUNMING	153.35	356.0	19	50A	0	26	59	6	23	45 PP
BAGUIO CITY	153.36	313.2	19	49	-1					
KODAIKANAL	154.04	62.4	19	58K	7				23	19
CHITTAGONG	154.58	19.4	19	53A	2				23	56 PP
MADRAS	154.96	53.8	20	2	10					
COLOMBO	157.54	67.5	19	55	0				24	11

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PORT BLAIR	164.55	30.6	20	9	6	27	10	6			24	35 PP
DJAKARTA	172.42	233.7	18	59	-69						25	13 PP
MEDAN	174.40	21.0	20	8K	-1							

FEBRUARY 1 18.H 2.M 39.S EPICENTRE 1.76 -79.16 DEPTH= 0.KM

A= 0.18797 B=-0.98170 C= 0.03046 D=-0.9822 E=-0.1881
G= 0.0057 H=-0.0299 K=-0.9995 HT= 7.2

SE= 2.37

	DELTA DEG.	AZ. DEG.	P M	P O-C S	S M	S O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
CHINCHINA	4.76	47.8	1	6 -8	2	8 -3					
BOGOTA	5.82	60.7	1	26 -3	2	40 2					
BALBOA HTS.	7.17	356.8	1	44A -4							
GALERAZAMBA	9.76	23.2	2	35 11	4	33 17					
HUANCAYO	14.23	164.6	3	22A -3							
SANTIAGO MA.	14.86	322.1	3	38 5							
SAN SALVADOR	15.51	320.6	3	44 3	6	45 10					
COMITAN	19.25	319.2	4	20 -8	8	9 9			4	40 PP	
TRINIDAD	19.63	62.5	4	33 1					8	19 SS	
SAN JUAN	20.89	36.9	4	49A 3							
ST. VINCENT	21.03	56.5	4	48 1							
LA PAZ	21.16	149.4	4	47A -2	8	29 -11			9	5 SS	
MERIDA	21.63	332.6	4	45K -9	8	45 -4			5	21 PP	
FORT FRANCE	21.96	53.1	4	57 0	9	5 10					
ST. CLAUDE	22.30	49.5	5	3 3	9	10 9					
BARBADOS	22.41	58.8	5	1 0					9	22	
OAXACA	23.02	312.3	5	4 -3	9	15 1			10	1	
ANTIGUA	23.33	48.4	5	6 -4							
PUEBLA	25.35	313.9							6	19 PPP	
TACUBAYA	26.31	313.1	5	40 1	10	5 -5			6	22 PP	
COLUMBIA	32.12	357.1	6	31A 0							
BERMUDA	33.37	22.6	6	43 1	12	7 4			7	48 PP	
MAZATLAN	33.93	311.0	6	44 -3					17	41	
CHAPEL HILL	33.99	0.2	6	48 1							
DALLAS	35.08	333.7	6	44 -13							
FAYETTEVILLE	36.89	339.5	7	11 -1	12	55 -2					
GEORGETOWN	37.02	2.7	7	14 1	13	3 4			8	35 PP	
CHIHUAHUA	37.06	318.7	7	11 -2	12	59 -1			9	51	
MORGANTOWN	37.70	359.0	7	19K 0							
ST. LOUIS 1	38.08	345.9	7	19A -3	13	8 -7					
LUBBOCK	38.13	328.6	7	22 0	13	14 -2			9	12 PPP	
FLORISSANT	38.27	345.8	7	23A 0	13	13 -5			8	56 PP	
FORDHAM	39.21	6.3	7	31A 0							
PALISADES	39.36	6.3	7	33A 0	13	36 1			9	6 PP	
CLEVELAND	39.60	357.2	7	38 4	13	37 -1					
WESTON	41.05	8.9	7	48A 2	14	3 3					
LA PLATA	41.54	153.3	7	51 1	13	56 -11			9	41 PP	
TUCSON	42.52	318.8	8	0A 2	14	24 2			9	57 PCP	
OTTAWA	43.57	3.5	8	4A -3	14	37 0			18	5 SS	
BREBEUF	43.83	5.6	8	10A 1	14	42 1					
HALIFAX	44.85	15.8	8	18A 1	15	0 5					
SHAWINIGAN	44.96	6.2	8	19A 1							
SEVEN FALLS	45.76	7.9	8	26A 1	15	13 5			18	20 SCS	
LARAMIE	46.02	332.2	8	27 0							
BOULDER CITY	47.43	320.0	8	39K 1							
PASADENA	48.61	315.9	8	47 0	15	52 3			9	27 *SP	
SALT LAKE C.	48.80	327.0	8	47A -1							
EUREKA	50.31	322.9	9	0 0					39	38 PKPPKP	
FRESNO	51.16	317.8	9	5 -2							
BOZEMAN	51.92	331.9	9	12A 0							
LICK	52.70	317.4	9	19K 1							
RENO	52.72	320.7	9	20K 2							
BUTTE	52.90	331.2	9	19 -1							
SANTA CLARA	52.92	317.3	9	30A 10	16	39 -9					
BERKELEY	53.40	317.7	9	24K 1	16	58 3					
MINERAL	54.31	320.6	9	26K -4							
UKIAH	54.70	318.5	9	43 10							
SHASTA	55.01	320.5	9	33 -2							
HUNGRY HORSE	55.27	332.4	9	36A -1							39 50 PKPPKP
CORVALLIS	57.73	323.9	9	55 0							
SEATTLE	58.96	327.3	10	2 -1							
VICTORIA	60.09	327.6	10	11K 0	18	24 1					
MBOUR	62.65	74.8	10	29A 1	19	3 7					

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IVIGTUT	63.79	16.1	10	33	-3	19	14	4	20	26 SKS
SITKA	70.75	331.3	11	20A	0					
LISBON	73.37	50.1	11	36A	1				14	23 PP
RESOLUTE	73.43	355.7	11	33A	-3	20	57	-8		
COIMBRA	74.20	48.7	11	41K	1					
SERRA PILAR	74.26	47.7	11	41A	1				14	27 PP
REYKJAVIK	74.66	22.5	11	44A	1					
MALAGA	76.75	52.8	11	54A	-1				14	44 PP
GRANADA	77.44	52.4	11	55A	-3	21	49	0	14	53 PP
TOLEDO	77.46	49.6	11	58A	-1	21	52	3		
SCORESBY SD.	77.84	16.8	12	1	0					
ALMERIA	78.30	52.9	12	4	1				15	9 PP
KATHFARNHAM	78.41	35.8	12	5K	1	21	53	-6		
KIPAPA	78.99	291.4	12	15	8					
COLLEGE	79.46	336.1	12	8A	-2					
ALICANTE	80.03	51.5	12	10	-3	22	18	1	15	18 PP
LOME	80.25	84.1	12	14	0	22	33	14		
KELIZANE	80.62	54.2	12	16A	0	22	33	10	15	23 PP
TORTOSA	81.03	49.1	11	36	-42	22	29	2		
DURHAM	81.41	34.9	12	21A	1					
ABERDEEN	81.52	32.5	12	4	-16	22	29	-3	17	18 PPP
KEW	81.68	38.3	12	21A	0	22	38	4	22	39 SKS
ALGIERS UNI.	82.71	53.3	12	25	-2	22	48	4	15	37 PP
PARIS	83.18	41.2	12	30A	1	22	50	1		
CLERMONT-FD.	83.35	44.3	12	30A	0	22	46	-5		
BYRD STATION	84.10	186.5	12	33	-1	22	51	-7	24	12 PPS
NORD	84.37	7.5	12	34	-1					
TAMANRASSET	84.42	67.4	12	37	2	23	8	7	15	48 PP
DE BILT	85.14	38.0	12	40	1	23	30	22	23	9 SKS
NEUCHATEL	86.07	43.2	12	44	0					
WITTEVEEN	86.08	37.4	12	46A	2					
MONACO	86.33	46.5	12	45A	0					
BASLE	86.51	42.7	12	46A	0	23	15	-7		
MUNSTER	86.64	38.2	12	47	1				13	23
STRASBOURG	86.66	41.6	12	47A	1	23	22	-1	16	10 PP
OROPA	86.74	44.6	12	35	-12	23	38	14		
KARLSRUHE	87.09	41.2	12	49	0	23	32	5	15	52 PP
ZURICH	87.18	42.8	12	50	1	23	33	5		
EBINGEN	87.45	42.0	12	50A	0				16	14 PP
TUBINGEN	87.52	41.7	12	50A	-1					
PAVIA	87.59	45.0	12	32	-19				16	1 PP
STUTTGART	87.61	41.4	12	51A	0	23	35	3	16	14 PP
CHUR	87.83	43.4	12	53A	1	23	21	-13		
RAVENSBURG	87.89	42.4	13	7	15					
PRATO	88.98	46.3	13	3	5	23	57	12		
SKALSTUGAN	89.08	26.6	13	4	6					
FLORENCE X.	89.09	46.4	12	56	-2	23	53	7	16	31 PP
JENA	89.12	39.3	12	58	0	23	46	0	16	24 PP
BOLOGNA	89.13	45.7	13	1	3	24	1	15	21	3
HALLE	89.33	38.7	12	59	0	23	50	2	16	14 PP
PLAUEN	89.49	39.7	12	56	-4	23	47	-3	23	29 SKS
CHEB	89.66	40.1	13	4	3	23	55	4	16	42 PP
POTSDAM	89.99	37.8	13	1	-1	23	57	3	16	45 PP
COLLMBERG	90.00	38.9	13	3	1				16	33
ROME	90.06	48.3	13	3A	0	24	0	5	33	1 SSS
TRIESTE	90.80	44.5	13	8	2	24	6	5	16	41 PP
PRAGUE	90.98	40.0	13	9	2	24	8	5	17	1 PP
PRUHONICE	91.06	40.1	13	7	0	24	7	3	16	41 PP
SOUTH POLE	91.75	180.0	13	8	-2	23	58	-12	16	37 PP
UPPSALA	91.91	30.1	13	10	-1					
KIRUNA	92.01	22.0	13	12	0					
ZAGREB	92.34	44.2	13	14A	1	23	46	-29	17	3 PP
BRATISLAVA	92.89	41.8	13	16	0					
RACIBORZ	93.39	39.8	13	13	-5				13	50
KHEYS	94.86	7.5							21	26
HELSINKI	95.49	29.1	13	27	-1					
BELGRADE	95.59	44.8	13	31A	3	24	3	-40	14	32
SOFIA	97.98	46.6	13	41	2				17	37 PP
ATHENS	99.06	51.3	13	44	0				14	2
BUCHAREST	99.63	44.5	13	23	-23				17	49 PP
IASI	100.02	41.5				24	24	-56		
ISTANBUL KA.	102.50	47.4							16	59 PP
HELWAN	106.79	58.2							17	39
UVIRA	108.35	93.1							18	54 PP
KSARA	109.59	53.2							19	2 PP
TIFLIS	113.44	42.6	19	33	53				20	24
RIVERVIEW	123.25	230.0				27	53	113		
TANANARIVE	125.13	111.9	19	5	3				20	53 PP

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SENDAI	125.69	321.4	19 39	36		20 56	PP
TUKUBASAN	127.44	319.9	20 14A	67			
MATUSIRO	128.43	321.4	19 9K	0		21 23	PP
RABAUL	128.69	266.1	19 8	-1		22 25	
CHANGCHUN	129.60	337.1	19 11	0		21 21	PP
NAMANGAN	129.86	28.7	19 14	3		22 36	
ULAN-BATOR	130.24	354.7	19 12	0			
KYOTO	130.96	321.6				22 38	
CHARTERS TS.	132.07	244.5	19 16K	0		22 39	
PORT MORESBY	133.33	258.8				23 23	
QUETTA	134.69	42.8	19 22A	1		21 54	PP
WARSAK DAM	135.01	35.1	19 12	-9			
NAGASAKI	136.07	323.9	19 6	-17		22 56	PP
PEKING	136.11	343.0	19 25	2		22 3	PP
KARACHI	137.34	47.7	19 28	3		22 59	PKS
LAHORE	138.40	35.0	19 28	1		22 9	PP
DEHRA DUN	141.40	32.5	19 37	4			
LANCHOW	142.26	356.1	19 37	3		22 40	PP
KOROR	145.24	285.4	19 39	0			
BOMBAY	145.65	52.0	19 42	2			
POONA	146.66	51.6	19 44	2			
PERTH	146.81	203.7	19 45	3			
LHASA	147.40	16.0	19 46	3		23 19	PP
CHENGTU	147.62	354.9	19 45	2		23 11	PP
SHILLONG	151.48	17.2	19 49A	0			
CANTON	152.50	334.6	19 51	0		20 9	PKP2
KUNMING	153.29	356.3	19 53	1		23 45	PP
CHITTAGONG	154.46	19.7	19 55	1	26 56 -3	23 57	PP
MADRAS	154.79	53.9	20 14	20			
DJAKARTA	172.58	233.5	18 51	-79			
MEDAN	174.28	22.2	20 9A	-2	27 10 -3		

FEBRUARY 1 20.H 45.M 52.S EPICENTRE 1.66 -79.19 DEPTH= 46.KM

DEPTH OF FOCUS= 0.002R

A= 0.18748 B=-0.98185 C= 0.02869 D=-0.9823 E=-0.1876
G= 0.0054 H=-0.0282 K=-0.9996 HT= 7.2

SE= 2.10

	DELTA DEG.	AZ. DEG.	P M	S	O-C S	S M	S	O-C S	*PP M	S	SUPP. M	S	
CHINCHINA	4.85	47.2	1	0	-13	2	2	-6					
BOGOTA	5.90	59.9	1	27	0	2	35	0					
FUQUENE	6.64	55.0	1	36	-2								
BALBOA HTS.	7.27	357.1	1	35A	-11								
GALERAZAMBA	9.87	23.1	2	28	6	4	24	11					
HUANCAYO	14.15	164.4	3	15	-5	5	41	-15					
SANTIAGO MA.	14.92	322.5	3	34	4	6	28	14					
SAN SALVADOR	15.57	320.9	3	37	-1	6	39	10					
COMITAN	19.31	319.4	4	20	-4	8	8	14					
TRINIDAD	19.70	62.2	4	27	-1						8	12	SS
SAN JUAN	20.99	36.8	4	41A	-1	8	45	17					
LA PAZ	21.09	149.2	4	40A	-3	8	32	2			5	8	PP
FORT FRANCE	22.05	53.0	4	41	-11	8	49	1					
ST. CLAUDE	22.38	49.4	4	57	1	9	15	21					
BARBADOS	22.49	58.6	4	55	-2						7	13	
OAXACA	23.07	312.5	5	6	4	9	24	18					
ANTIGUA	23.42	48.3	5	2	-4						7	19	
VERA CRUZ	24.07	317.5	5	15	3	9	33	10			10	45	SS
IACUBAYA	26.36	313.3	5	39K	5	10	8	6			6	22	PP
ANTOFAGASTA	26.56	161.8	5	48	12	10	40	35			6	14	PP
GUADALAJARA	30.20	310.5	6	22	14	11	24	21			7	4	PP
COLUMBIA	32.22	357.1	6	25A	-1								
BERMUDA	33.48	22.6	6	38A	1	12	4	9			7	43	PP
CHAPEL HILL	34.09	0.2	6	42	0								
FAYETTEVILLE	36.98	339.6	7	4A	-3	12	49	0					
CHIHUAHUA	37.12	318.8	7	19	11	13	16	25			9	2	PPP
MORGANTOWN	37.80	359.0	7	14K	0								
WAYNESBURG	38.08	358.8	7	14	-2	12	44	-21					
ST. LOUIS 1	38.17	346.0	7	14A	-3	13	5	-2			11	26	
LUBBOCK	38.20	328.7	7	16	-1	13	11	4			9	4	PPP
FLORISSANT	38.36	345.9	7	17A	-1	13	9	-1					
FORDHAM	39.31	6.4	7	26	0								
PALISADES	39.46	6.3	7	27	-1	13	29	3			8	59	PP
CLEVELAND	39.70	357.2	7	34	4	13	28	-2					

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WESTON			41.15	8.9	7 42A	0	13 58	7				
LA PLATA			41.46	153.2	7 48	4	13 58	2			17 13	SS
TUCSON			42.58	318.9	7 54K	1	14 37	25			9 45	PCP
OTTAWA			43.67	3.5	8 2	0	14 32	4			18 0	SS
BREBEUF			43.94	5.6	8 4A	0	15 5	33				
HALIFAX			44.95	15.8	8 13A	0	14 54	7				
SHAWINIGAN			45.06	6.3	8 13A	0						
SEVEN FALLS			45.86	8.0	8 20A	0	15 6	6				
LARAMIE			46.10	332.3	8 26	4						
BOULDER CITY			47.49	320.1	8 32A	-1						
PASADENA			48.67	316.0	8 42	0	15 46	6	9 10		9 21	*SP
SALT LAKE C.			48.87	327.0	8 42A	-1						
EUREKA			50.37	323.0	8 55A	0						
FRESNO			51.21	317.9	9 0A	-1						
BOZEMAN			51.99	332.0	9 7K	0						
LICK			52.76	317.5	9 13A	0						
RENO			52.78	320.8	9 12A	-1						
BUTTE			52.97	331.3	9 13A	-1						
SANTA CLARA			52.97	317.3	9 16A	2	16 48	9				
BERKELEY			53.46	317.7	9 18	0	16 54	9				
MINERAL			54.37	320.6	9 23A	-2						
UKIAH			54.76	318.6	9 25	-2						
SHASTA			55.07	320.6	9 34	4						
SASKATOON			55.29	339.8			17 12	2				
HUNGRY HORSE			55.34	332.4	9 30A	-2					39 44	PKPPKP
CORVALLIS			57.79	324.0	9 47A	-2						
BANFF			58.05	333.9	9 45A	-6						
SEATTLE			59.03	327.4	9 57	-1						
VICTORIA			60.16	327.7	10 4	-2	18 22	8				
HORSESHOE B.			60.60	328.5	10 7	-2						
MBOUR			62.71	74.8	10 23	0	19 16	30				
IVIGTUT			63.90	16.1			19 8	7			19 42	SKS
SITKA			70.82	331.3	11 13A	-1						
LISBON			73.45	50.1	11 30A	0	22 47	113				
RESOLUTE			73.53	355.7	11 27A	-3	20 54	-1			16 8	PPP
COIMBRA			74.29	48.7	11 34K	0						
SERRA PILAR			74.35	47.7	11 37K	2					14 22	PP
REYKJAVIK			74.77	22.5	11 38	1						
MALAGA			76.83	52.8	11 48A	-1	21 47	15			14 33	PP
GRANADA			77.53	52.4	12 3A	10	21 57	18			14 24	
TOLEDO			77.55	49.6	11 54A	1	22 1	22				
ALMERIA			78.39	52.8	11 57K	-1						
RATHFARNHAM			78.51	35.8	11 58A	0					13 4	
COLLEGE			79.54	336.1	12 2A	-2	22 0	-1				
ALICANTE			80.12	51.5	12 5	-2	22 11	4			15 11	PP
LOME			80.29	84.1	12 9	1	22 22	14				
RELIZANE			80.70	54.2	12 11A	1						
TORTOSA			81.11	49.1	12 12	0	22 31	14				
DURHAM			81.51	34.9	12 14A	0						
ABERDEEN			81.62	32.5	12 11	-4	22 22	0			23 16	PS
KEW			81.77	38.3	12 15A	-1	22 29	5			14 29	
ALGIERS UNI.			82.79	53.3	12 20	-1	22 36	2			15 36	PP
PARIS			83.27	41.2	12 24A	1	22 49	10				
CLERMONT-FD.			83.45	44.3	12 25A	1	23 3	22				
BYRD STATION			83.99	186.5	12 27	0	22 42	-4			14 38	
NORD			84.48	7.5	12 28	-1						
TAMANRASSET			84.48	67.4	12 30A	1	23 2	11			15 43	PP
DE BILT			85.23	38.0	12 34	1	23 22	24			23 2	SKS
NEUCHATEL			86.16	43.2	12 38	0					22 35	
WITTEVEEN			86.18	37.3	12 39	1					14 52	
MONACO			86.42	46.5	12 40	1						
BASLE			86.60	42.7	12 41A	1					22 27	
MUNSTER			86.73	38.2	12 42	1	23 12	-1				
STRASBOURG			86.75	41.6	12 41A	0	23 26	13			16 2	PP
OROPA			86.84	44.6	12 42	1					23 30	
KARLSRUHE			87.18	41.2	12 44A	1	23 27	10			13 40	
ZURICH			87.28	42.8	12 44	1	23 40	22				
EBINGEN			87.55	42.0	12 45A	1						
TUBINGEN			87.61	41.7	12 45	0						
PAVIA			87.68	45.0	12 25A	-20					23 41	PS
STUTTGART			87.70	41.4	12 46A	1	23 33	11			15 0	PKP2
CHUR			87.93	43.4	12 47	1	23 22	-2				
FLORENCE X.			89.18	46.4	12 50	-2	23 57	21			16 25	PP
SKALSTUGAN			89.19	26.6	12 52A	0						
JENA			89.21	39.3	12 53	1	23 41	5			16 21	PP
BOLOGNA			89.22	45.7	12 30	-22	24 20	44				
HALLE			89.43	38.7	12 54	1	23 41	3			16 36	PP
PLAUEN			89.59	39.7	12 54	0						

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CHEB	89.75	40.1	13	20	25	23	58	17		23	43 SKS
POTSDAM	90.09	37.8	12	57	1	24	5	21			
COLLMBERG	90.09	38.9	12	57	0					14	
ROME	90.15	48.3	12	58A	1	24	1	16		16	34 PP
TRIESTE	90.89	44.5	12	58	-2	24	4	13		16	38 PP
PRAGUE	91.07	40.0	13	4	3	24	12	19		23	48 SKS
PRUHONICE	91.16	40.1	13	1	-1	24	12	19		25	10 PS
SOUTH POLE	91.64	180.0	13	3	-1					16	42 PP
UPPSALA	92.01	30.1	13	5	0						
KIRUNA	92.11	22.0	13	6	0						
ZAGREB	92.43	44.2	13	7	0	24	22	17		16	33 PP
BRATISLAVA	92.98	41.8	13	10	0						
RACIBORZ	93.49	39.8	13	15	3						
HELSINKI	95.59	29.1	13	21	-1						
BELGRADE	95.68	44.8	13	24K	2					13	52
CAPE HALLETT	97.73	196.8								26	34 PPS
HERMANUS	97.88	124.4				24	10	-41			
SOFIA	98.07	46.6	13	15	-18					17	14 PP
ISTANBUL KA.	102.59	47.4								18	3 PP
HELWAN	106.87	58.2								17	42
PETROPAVLOVK	107.32	327.7								18	38
MAGADAN	107.62	335.8								18	48
LWIRO	108.04	91.8								18	44 PP
UVIRA	108.37	93.1								18	49 PP
KSARA	109.68	53.2	14	29	777					18	59 PP
TIFLIS	113.54	42.6	19	29	56						
TANANARIVE	125.12	112.0	18	59	3					20	45 PP
SENDAI	125.75	321.3								20	55 PP
VLADIVOSTOK	127.39	331.6	19	4	4					20	57
TUKUBASAN	127.50	319.8	19	4K	4						
MATUSIRO	128.49	321.3	19	2A	0					21	18 PP
RABAUL	128.65	266.0	19	1	-2					21	17
CHANGCHUN	129.68	337.0	19	3	-2					21	14 PP
ULAN-BATOR	130.34	354.6	19	6	0						
KYOTO	131.02	321.5	19	12A	5						
PORT MORESBY	133.28	258.7								22	42 PKS
QUETTA	134.78	42.8	19	16A	2					21	47 PP
WARSAK DAM	135.11	35.1	19	6	-9						
PEKING	136.20	342.9	19	19	2					21	57 PP
KARACHI	137.43	47.8	19	21	2						
LAHORE	138.50	35.1	19	15	-6						
DEHRA DUN	141.50	32.5	19	44	18					23	4
LANCHOW	142.35	356.0	19	22	-6					22	25 PP
KOROR	145.24	285.3	19	32	-1						
BOMBAY	145.73	52.1	19	37	3						
PERTH	146.70	203.7	19	42	7						
POONA	146.75	51.7	19	38	3						
LHASA	147.51	16.0	19	40	3					22	53 PP
CHENGTU	147.72	354.8	19	39	2					23	4 PP
CHATRA	148.77	24.0	19	44	5					22	0
SHILLONG	151.59	17.2	19	43	0						
CANTON	152.58	334.4	19	45	1					23	44 PP
CALCUTTA	153.06	26.1	19	50	5					24	1
KUNMING	153.39	356.2	19	48	2					23	36 PP
KODAIKANAL	153.94	62.6	20	14	28						
CHITTAGONG	154.57	19.7	19	43	-4						
MADRAS	154.88	54.0	20	7	19						
DJAKARTA	172.50	233.0	19	5A	-59						
MEDAN	174.38	22.3	20	2K	-3					25	19 PP

FEBRUARY 2 8.H 12.M 0.S EPICENTRE 48.28 154.40 DEPTH= 62.KM
DEPTH OF FOCUS= 0.005R

A=-0.60245 B= 0.28865 C= 0.74413 D= 0.4321 E= 0.9018
G=-0.6711 H= 0.3215 K=-0.6680 HT= -4.8

SE= 2.55

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
KURILSK	5.42	238.2	1	19	-1	2	22	0			1	38	*SP
PETROPAVLOVK	5.56	27.5	1	22K	0	2	32	6			1	43	
NEMURO	7.90	234.5	1	46	-9	3	16	-7			2	7	
Y.-SAKHLINSK	8.01	264.8	1	55K	-1	2	30	-56			2	11	*SP
UGLEGORSK	8.20	280.2	2	1K	2	3	40	9			2	13	*SP

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ABASHIRI	8.21	242.5	2	4	5	3	41	10			
KUSIRO	8.78	236.6	2	1	-6	3	38	-7			
KLYUCHI	8.95	23.4	2	13	4	4	0	11		2	24 *SP
WAKKANAI	9.17	256.6	2	17	5	4	27	32			
ASAHIGAWA	9.50	246.2	2	19	2						
OBIHIRO	9.50	239.8	2	15	-2						
URAKAWA	10.23	237.5	2	26	-1	4	16	-5			
SAPPORO	10.51	245.1	2	33	3	4	42	15		3	28
TOMAKOMAI	10.69	242.2	2	37	4						
MURORAN	11.17	242.8	2	40	1	4	43	0			
SUTTSU	11.34	246.4	2	42	0	4	30	-18			
MAGADAN	11.49	350.8	2	44A	0					2	58 *SP
MORI	11.54	242.8	2	47	3	5	6	14		4	54
HAKODATE	11.65	241.2	2	47	1	4	48	-7		3	11
HATINOHE	12.02	234.6	2	46	-5	4	50	-14			
AOMORI	12.23	237.5	2	56	2	5	2	-7			
MIYAKO	12.42	230.6	2	51	-5	5	2	-11			
MORIOKA	12.80	232.8	2	56	-5	5	12	-11			
MIZUSAWA	13.24	231.2	3	2	-5	5	21	-12			
AKITA	13.37	235.5	3	5	-3	5	35	-1			
SENDAI	14.01	229.4	3	18	1	5	41	-10			
YAMAGATA	14.30	230.7	3	17	-4						
HUKUSIMA	14.62	229.1	3	24	-1	5	59	-7			
ONAHAMA	15.04	226.1	3	34	4	5	51	-24		4	8
NIIGATA	15.23	232.8	4	10	37						
SHIRAKAWA	15.24	228.2	3	39	6	6	15	-5		6	49
MITO	15.70	225.9	3	24	-15						
UTUNOMIYA	15.86	227.7	3	42	1	6	28	-6			
KAKIOKA	15.96	226.2	3	38	-4						
TUKUBASAN	16.01	226.4	3	38K	-5	6	27	-11	3 45	6	46 SS
MAEBASI	16.37	229.2	3	45K	-2	6	57	11		4	54
KUMAGAYA	16.41	227.9	3	47	-1	6	49	2			
VLADIVOSTOK	16.52	260.2	3	47	-2					3	59 *SP
TOKYO C.M.O.	16.61	226.1	3	52	2	6	53	1			
NAGANO	16.61	231.7	3	50	0						
OIWAKE	16.69	230.2	3	56	5						
MATUSIRO	16.70	231.4	3	49	-2	7	4	10			
WAZIMA	16.79	236.0	3	58	6						
MATUMOTO	17.05	231.2	3	58	2	7	16	14			
TOYAMA	17.12	233.8	3	48	-9						
KOHU	17.23	228.6	4	0	2	7	18	12			
HUNATU	17.23	227.9	4	0	2	7	18	12			
MISIMA	17.45	226.8	4	2	1						
IIDA	17.69	230.0	4	10	6						
HUKUI	18.11	234.2	4	14	5						
GIHU	18.33	231.9	4	12	1	7	38	8			
NAGOYA	18.40	231.0	4	15	3						
IBUKISAN	18.55	232.6	4	12	-2						
HIKONE	18.70	232.6	4	15	-1						
KAMEYAMA	18.91	231.4	4	27	9						
KYOTO	19.17	233.1	4	23	2	7	34	-15			
TOKUSIMA	20.51	233.5	4	37	2						
CHANGCHUN	20.61	268.4	4	34	-2						
KOTI	21.47	234.4	4	46	1					6	26
TIKSI	26.25	342.0	5	28	-3	9	55	-2		6	17 PP
PEKING	28.40	267.5	5	49	-2	10	32	0	6 8		
ZO-SE	30.47	247.9	6	9	0	11	7	2		7	11 PP
NANKING	31.33	252.0	6	17	0	11	21	3		7	31 PP
ULAN-BATOR	31.33	287.5	6	31	14	12	1	43			
COLLEGE	34.41	39.7	6	43A	0	12	9	3			
LANCHOW	38.75	270.8	7	20	0	13	15	3	7 34		
TRUK	40.72	183.9	7	41	5						
CANTON	41.11	247.1	7	39A	0	13	49	1	7 55		
SITKA	41.72	50.6	7	45	1					9	11 PCP
CHENGTU	41.88	264.0	7	46A	0	13	58	-1			
BAGUIO CITY	42.12	232.8	7	48	0	14	8	5			
KOROR	44.17	209.0	8	4	0						
KIPAPA	46.37	108.1	8	22A	0						
KUNMING	46.47	259.1	8	22A	-1	15	6	1	8 39		
RESOLUTE	49.11	19.2	8	43K	0	15	47	4		18	30 SCS
NORD	50.28	358.3	8	52	0						
TOCKLAI	50.57	267.2	9	2	8						
LHASA	51.18	272.8	9	0A	1	16	17	6	9 23		
HORSESHOE B	51.57	55.8	9	2K	0						
VICTORIA	51.96	56.8	8	59K	-6						
RABAUL	52.29	182.8	9	6	-1						
SEATTLE	53.06	57.2	9	14	1						
SHILLONG	53.29	268.3	9	12A	-3						
CORVALLIS	54.23	60.8	9	22	0						

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BANFF	54.71	50.5	9 22K	-3						
CHITTAGONG	55.51	265.5	9 29A	-2	17 12	2			11 33	PP
CHATRA	55.59	273.0	9 33	1						
APATITY	56.29	336.7	9 36	-1						
SHASTA	57.08	64.1	9 41	-1						
HUNGRY HORSE	57.17	52.5	9 43	0			9 56		11 49	PP
MINERAL	57.77	64.0	9 46K	-1						
PORT MORESBY	57.78	188.5	9 46	-1						
SODANKYLA	58.14	338.9	9 48	-2						
BERKELEY	58.92	66.6	9 55K	0			10 8			
KIRUNA	59.17	341.5	9 58	1						
DEHRA DUN	59.33	282.3	9 57	-1					12 7	
RENO	59.35	63.7	9 59K	1						
BUTTE	59.40	53.9	9 58A	0						
LICK	59.64	66.7	10 0K	0			10 14			
BOZEMAN	60.44	53.5	10 8K	2						
LAHORE	60.93	285.8	10 9	0						
FRESNO	61.13	66.1	10 9K	-1			10 23			
AGRA	61.46	279.6	10 11A	-1					14 27	
EUREKA	61.67	61.6	10 14A	0						
PORT BLAIR	62.61	256.2			18 54	12				
SALT LAKE C.	63.20	58.1	10 24K	0						
PASADENA	63.86	67.4	10 27	-1	19 3	6			39 23	PKPPKP
HELSINKI	64.38	334.6	10 30	-2						
SKALSTUGAN	64.56	342.3	10 42	9						
BOULDER CITY	64.66	63.8	10 34K	0						
MEDAN	65.06	245.4	10 37A	1					13 6	PP
RAPID CITY	65.64	50.6	10 41K	1					39 25	PKPPKP
LARAMIE	66.31	54.1	10 45	1						
QUETTA	66.55	289.4	10 45A	-1	19 31	1			11 16	PCP
UPPSALA	66.63	337.9	10 45	-1						
KARACHI	69.50	286.0	11 8A	4						
SUVA	69.53	155.6			20 17	11			20 57	SCS
TUCSON	69.63	64.3	11 6K	1					39 9	PKPPKP
POONA	70.18	275.8	11 9	1	20 17	4			20 43	PS
BOMBAY	70.60	276.8	11 11	0	20 20	2			13 56	PP
TIFLIS	71.00	311.8	11 13	0						
GORIS	71.87	309.3	11 19	1					20 45	PS
SIMFEROPOL	73.46	320.2	11 28	0						
LUBBOCK	73.91	57.6	11 30	0						
POTSDAM	74.44	336.6	11 34	1						
RACIBORZ	75.02	332.5	11 38	1						
DURHAM	75.35	345.9	11 31A	-7	21 6	-6				
BRISBANE	75.42	181.3	11 39	0	21 18	5				
COLLMBERG	75.44	336.1	11 39	0					12 54	
HALLE	75.54	336.8	11 40	0			12 13			
WITTEVEEN	75.61	340.5	11 41	1						
FLORISSANT	76.00	46.8	11 43	1	21 46	27			11 55	PCP
JENA	76.15	336.8	11 42	-1					14 35	PP
MUNSTER	76.18	339.6	11 44	1						
FAYETTEVILLE	76.18	50.9	11 43	0			11 57			
PRUHONICE	76.19	334.6	11 43	0					13 30	
ST. LOUIS 1	76.20	46.8	11 42A	-1	21 24	3			14 30	PP
PLAUEN	76.39	336.3	11 43	-1						
CHEB	76.71	336.0	11 48	2					14 29	
OTTAWA	76.92	33.7	11 47A	0						
SHAWINIGAN	76.99	31.3	11 48K	0						
BRATISLAVA	77.05	332.2	11 50	2						
SEVEN FALLS	77.16	29.8	11 40	-9						
RATHFARNHAM	77.48	348.3	11 50A	0	21 45	10				
BREBEUF	77.60	32.4	11 51A	0					19 15	
KEW	78.30	344.2	11 55	0	21 53	9				
KARLSRUHE	78.73	337.9	12 2	5						
STUTTGART	78.75	337.4	11 58A	1						
ISTANBUL KA.	78.76	321.0	11 57	-1						
BELGRADE	78.89	328.5	11 58K	0					13 37	
TUBINGEN	79.01	337.3	11 59	0						
STRASBOURG	79.29	338.2	12 2	2					14 30	
EBINGEN	79.35	337.3	12 0	-1						
RAVENSBURG	79.55	336.7	12 4	2						
SOFIA	79.67	325.6	12 4	2					12 56	
ZURICH	80.20	337.2	12 6	1						
PARIS	80.29	341.6	12 6A	0	22 9	4				
BASLE	80.31	337.9	12 6A	0					12 40	
TRIESTE	80.33	333.2	12 0	-6					15 10	PP
CHUR	80.43	336.4	12 7	0						
NEUCHATEL	80.96	338.1	12 10	1						
PALISADES	81.36	34.9	12 11	0	22 3	-13	12 25		29 55	

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KSARA	81.56	312.3	12	13A	1							
RIVERVIEW	81.79	182.7	12	14A	0	22	26	6				
FLORENCE X.	82.77	334.0	12	19A	0	22	40	10				
CLERMONT-FD.	83.03	340.2	12	20A	0							
ATHENS	83.58	322.9	12	21K	-2							
MONACO	83.88	336.6	12	25	1							
ROME	84.12	332.4	12	22	-3							
COLUMBIA	84.30	43.4	12	28	2							
HELWAN	87.01	313.2	12	41	1	23	14	2				
SERRA PILAR	89.71	347.2	12	54K	1							
TOLEDO	90.17	343.6	12	53	-2							
ALICANTE	90.90	340.5	12	58	0	23	53	5				
MALAGA	93.29	343.1	12	48	-21	23	48	-21			23	6 SKS
TAMANRASSET	103.97	330.6	13	58	1							
LWIRO	114.68	296.6	18	36	3							
UVIRA	115.47	295.5	18	37	2							
SCOTT BASE	126.09	176.8	18	56	1							
BYRD STATION	136.45	165.4	19	6	-9				19	18	21	54 PP
SOUTH POLE	138.08	180.0	19	5	-13				19	19	22	5 PP

FEBRUARY 2 8.H 49.M 15.S EPICENTRE 1.62 -79.26 DEPTH= 0.KM

A= 0.18635 B=-0.98208 C= 0.02812 D=-0.9825 E=-0.1864
G= 0.0052 H=-0.0276 K=-0.9996 HT= 7.2

SE= 2.00

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
CHINCHINA	4.92	47.4	1	6	-11	2	12	-3				
BOGOTA	5.97	60.0	1	35	4	2	43	2				
FUQUENE	6.71	55.1	2	52	70							
BALBOA HTS.	7.30	357.6	1	45	-5	3	55	40				
GALERAZAMBA	9.92	23.4	2	31	5	4	22	2				
HUANCAYO	14.13	164.1	3	22	-1	6	0	-2			6	32
COMITAN	19.29	319.6				8	13	12				
TRINIDAD	19.78	62.2	4	34	0							
SAN JUAN	21.06	36.9	4	47	0						5	10
LA PAZ	21.09	149.0	4	48A	0	8	57	18			5	19 PP
ST. VINCENT	21.18	56.3	4	48	-1							
ST. LUCIA	21.86	54.7	4	55	-1							
FORT FRANCE	22.12	53.0	4	57	-1	9	4	6				
BARBADOS	22.57	58.6	5	2	-1							
ANTIGUA	23.50	48.3	5	11	-1							
VERA CRUZ	24.05	317.7	6	9	52							
PUEBLA	25.37	314.2	5	37	7							
TACUBAYA	26.33	313.5	5	36	-3	10	5	-6			6	26 PP
COLUMBIA	32.25	357.2	6	32	0							
LUBBOCK	38.19	328.8	7	23	0							
PALISADES	39.50	6.4	7	34	0							
WESTON	41.20	8.9	7	48K	1							
TUCSON	42.56	319.0	8	0	1						10	9 PCP
OTTAWA	43.71	3.6	8	7A	-1							
BREBEUF	43.98	5.7	8	11A	1							
SHAWINIGAN	45.10	6.3	8	20K	1							
SEVEN FALLS	45.91	8.0	8	26A	0							
LARAMIE	46.10	332.4	7	29	-58							
RAPID CITY	47.32	336.6	8	38	1							
BOULDER CITY	47.48	320.2	8	39	1							
PASADENA	48.64	316.1	8	47	0							
SALT LAKE C.	48.86	327.1	8	49	0							
EUREKA	50.36	323.1	9	1	1							
FRESNO	51.19	317.9	9	9	2							
BOZEMAN	51.99	332.0	9	15	2							
LICK	52.74	317.5	9	18	0							
RENO	52.76	320.8	9	19	1							
BUTTE	52.97	331.4	9	19	-1							
HUNGRY HORSE	55.34	332.4	9	37	0							
BANFF	58.05	334.0	9	54A	-3							
SEATTLE	59.02	327.4	9	57	-6							
VICTORIA	60.15	327.7	10	10	-1							
MBOUR	62.78	74.7	10	30A	1							
LISBON	73.52	50.1	11	37K	1							
RESOLUTE	73.56	355.7	11	33A	-3							
MALAGA	76.91	52.8	11	54A	-1	21	38	-5			23	53
TOLEDO	77.62	49.6	12	0A	1							

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RATHFARNHAM	78.57	35.8	12	5K	1						
COLLEGE	79.55	336.2	12	9	-1						
ALICANTE	80.19	51.5	12	10	-3	22	16	-2			
RELIZANE	80.78	54.2	12	17	1					15	17 PP
DURHAM	81.57	34.9	12	21K	1						
KEW	81.84	38.3	12	22	0						
ALGIERS UNI.	82.86	53.3	12	22	-5						
PARIS	83.34	41.2	13	29A	59					13	49
CLERMONT-FD.	83.52	44.3	12	31	0						
BYRD STATION	83.95	186.5	12	34	1						
NORD	84.52	7.5	12	34	-2						
TAMANRASSET	84.56	67.4	12	37A	1					15	45 PP
WITTEVEEN	86.25	37.3	12	45	1						
MUNSTER	86.80	38.2	12	47	0					13	25
STRASBOURG	86.82	41.6	12	48A	1					13	57
KARLSRUHE	87.25	41.2	12	51	2						
EBINGEN	87.62	42.0	12	50	-1						
TUBINGEN	87.68	41.7	12	51	0						
PAVIA	87.75	45.0	13	45	53					17	55
STUTTGART	87.77	41.4	12	52A	0					13	26
FLORENCE X.	89.26	46.4	12	58	-1					26	25
HALLE	89.50	38.7	13	1	1						
COLLMBERG	90.16	38.9	13	4	1						
TRIESTE	90.96	44.5	13	7	0						
PRUHONICE	91.22	40.1	13	8	0						
SOUTH POLE	91.61	180.0	13	9	-1						
BRATISLAVA	93.05	41.8	13	19	3						
RABAUL	128.58	265.9	19	17	8						
CHARTERS TS.	131.93	244.4	19	16	1						
QUETTA	134.85	42.8	19	23	2						
POONA	146.82	51.7	19	44	2					22	4 PP
SHILLONG	151.64	17.1	19	50	1						
CHITTAGONG	154.62	19.6	20	4A	10						

FEBRUARY 3 19.H 27.M 11.5 EPICENTRE 32.28 55.62 DEPTH= 0.KM

A= 0.47832 B= 0.69907 C= 0.53152 D= 0.8253 E=-0.5647
G= 0.3001 H= 0.4387 K=-0.8470 HT= 1.1

SE= 2.56

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
ASHKABAD	6.08	20.8	1	35	1						1	57	
BAIRAM-ALI	7.52	43.4	1	54	0						2	20	
QUETTA	9.92	99.2	2	27	0	4	36	15			3	7	
GORIS	10.42	316.3	2	35	1						2	53	
KIROVOBAD	11.24	321.2	2	43	-2	4	47	-6					
STALINABAD	12.41	56.1	3	3	2								
WARSAK DAM	13.46	78.4	3	14	-1								
TASHKENT	14.17	46.6	3	22	-3						7	11	
LAHORE	15.91	87.7	3	45	-2	6	58	13			4	7	PP
KSARA	16.62	280.6	3	56	0	7	15	14			4	10	PP
FRUNSE	18.34	49.4	4	18	0						7	55	SS
DEHRA DUN	19.27	89.9	4	28	-1	8	14	13			4	41	PP
AGRA	20.11	99.0	4	38A	-1	8	20	0					
BOMBAY	20.41	126.6	4	41	-1	8	33	7			5	7	PP
HELWAN	20.93	269.8	4	43	-4	8	45	9					
SIMFEROPOL	20.95	313.3	4	53	6								
POONA	21.37	125.5	4	51	-1	8	57	12					
ISTANBUL KA.	22.96	300.0	5	9	2								
SEMIPALATNSK	25.69	38.0	5	30	-4						10	21	
IASI	26.03	313.1	5	39	2	11	16	69			6	8	
MOSCOW	26.61	337.0	5	42	0						11	43	SSS
ATHENS	26.62	291.2	4	37	-65						4	51	
CHATRA	27.92	93.0	5	58	4	11	4	27					
LHASA	30.41	85.5	6	23	6	11	18	1			7	18	PP
CALCUTTA	30.53	100.3									10	46	
SHILLONG	32.32	92.5	6	30	-3								
PRUHONICE	35.10	312.5	6	57	0						7	47	
COLLMBERG	36.39	314.2	7	7	-1								
STUTTGART	38.29	309.3	7	19	-5								
CHENGTU	41.03	79.0	7	49	2						13	59	
ULAN-BATOR	41.44	52.5	7	54	4								
PARIS	42.71	308.8	8	0	-1						8	22	
LWIRO	42.72	221.6	8	4	3						8	29	

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ALGIERS UNI.	43.10	291.1	8	7	3				9	37
UVIRA	43.56	220.3	8	8	0					
TAMANRASSET	45.08	270.9	8	16	-4	15	4	4	10	5 PP
RELIZANE	45.28	290.2	8	23	1					
TANANARIVE	51.49	189.8	9	10	0					
GRAHAMSTOWN	70.77	205.5	10	56	-25					
RESOLUTE	71.56	352.1							30	19
COLLEGE	81.44	9.9	12	20	-1					
PITTSBURGH	96.79	327.4							30	28
SOUTH POLE	122.11	180.0	18	58	1					

FEBRUARY 5 8.H 8.M 12.S EPICENTRE 47.03 153.16 DEPTH= 0.KM

A=-0.61036 B= 0.30881 C= 0.72945 D= 0.4515 E= 0.8923
G=-0.6509 H= 0.3293 K=-0.6840 HT= -4.3

SE= 2.84

	DELTA DEG.	AZ. DEG.	P M	S	O-C S	S M	S	O-C S	*PP M	S	SUPP. M	S	
KURILSK	4.10	245.8	1	3A	-2	1	51	-4			1	14	*SP
NEMURO	6.51	238.1	1	33	-6	2	33	-22					
ABASHIRI	6.93	247.4	1	46	1								
PETROPAVLOVK	7.05	28.0	1	59	12						3	21	
Y.-SAKHLINSK	7.14	273.1	1	52A	4	3	24	13					
KUSIRO	7.41	240.0	1	47	-5	3	9	-9					
UGLEGORSK	7.71	289.5	2	4A	8						3	4	
OBIHIRO	8.17	243.4	2	1	-1								
URAKAWA	8.87	240.4	2	10	-2	3	44	-10					
SAPPORO	9.25	248.9	2	17	0	4	14	11			4	46	
TOMAKOMAI	9.39	245.5	2	30	11								
MURORAN	9.87	246.0				4	13	-6					
SUTTSU	10.10	249.9	2	42	13								
MORI	10.25	245.8	2	40	9	4	34	6			4	53	
HAKODATE	10.33	244.0	3	14	42	4	29	-1					
KLYUCHI	10.42	24.1	2	48	15						5	12	
HATINOHE	10.62	236.5	3	14	38	4	31	-6					
AOMORI	10.87	239.6				4	37	-6					
MORIOKA	11.39	234.3				4	38	-18			4	23	
MIZUSAWA	11.81	232.4	2	54	2	4	48	-18					
SENDAI	12.56	230.2				5	2	-22					
MAGADAN	12.62	354.5									3	8	
YAMAGATA	12.87	231.6				4	58	-34					
SHIRAKAWA	13.78	228.7				5	30	-24					
TUKUBASAN	14.54	226.7	3	22K	-7						4	24	
NAGANO	15.19	232.4	3	47	10								
OIWAKE	15.26	230.7	3	44	6								
MATUSIRO	15.27	232.0	3	30K	-8	6	40	11					
VLADIVOSTOK	15.51	263.2	3	40A	-1						5	20	
KOHU	15.78	229.0	3	46	1	6	41	0					
NAGOYA	16.97	231.5	4	0	0								
CHANGCHUN	19.77	270.9	4	31	-3								
HAMADA	19.94	240.1	4	31	-5								
TIKSI	27.19	343.4	5	48	1						5	57	*SP
PEKING	27.52	268.9	5	48A	-2								
ZO-SE	29.24	248.5	6	3	-2	10	54	-4					
NANKING	30.15	252.6	6	10A	-3	11	13	1					
ULAN-BATOR	30.92	289.0	6	20	0	11	52	28					
COLLEGE	35.91	38.6	7	3	0	12	30	-12					
LANCHOW	37.93	271.5	7	20A	0	13	16	3			8	53	PP
CHENGTU	40.92	264.4	7	44A	-1	13	54	-4			9	21	PP
SITKA	43.16	49.3	8	8	4								
KUNMING	45.42	259.2	8	19A	-3	15	3	0			13	19	
SEMIPALATNSK	46.44	302.4	8	28	-2								
LHASA	50.40	272.9	9	2A	1	16	18	4			10	54	PP
RESOLUTE	50.56	18.6	9	2A	0	16	16	0			19	12	SCS
RABAUL	51.02	181.3	9	9	4								
SHILLONG	52.42	268.3	9	13A	-3								
FRUNSE	53.55	296.4	9	22	-2								
SVERDLOVSK	53.65	317.0	9	24	-1						21	0	SS
CHITTAGONG	54.58	265.4	9	30	-2	17	7	-4			11	36	PP
CHATRA	54.82	272.9	9	33	-1								
PORT MORESBY	56.43	187.1	10	21	36	17	22	-13			20	15	SCS
HOWRAH	56.84	268.2	9	46	-2								
TASHKENT	57.68	297.6	9	55	1								
HUNGRY HORSE	58.60	51.3	9	58	-3								

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	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
DEHRA DUN	58.78	282.3	10	1	-1								
SODANKYLA	59.00	338.7	10	3	0								
STALINABAD	59.66	295.3	10	8	0	18	22	4					
KIRUNA	60.09	341.2	10	10	-1								
LAHORE	60.47	285.7	10	12A	-1								
WARSAK DAM	60.73	289.6	10	14A	-1								
BUTTE	60.81	52.7	10	15	-1								
AGRA	60.84	279.5	10	14	-2								
BOZEMAN	61.85	52.3	10	23	0								
EUREKA	63.00	60.3	10	31	1								
PULKOVO	63.80	331.7	10	36	0						14	31	PPP
MOSCOW	64.23	325.5	10	38	-1						12	58	PP
SALT LAKE C.	64.57	56.9	10	42	1								
HELSINKI	65.15	334.3	10	44	0								
SKALSTUGAN	65.48	341.9	10	47	0								
BOULDER CITY	65.97	62.6	10	48	-2								
QUETTA	66.17	289.2	10	51A	0	19	37	-2					
ASHKABAD	66.34	300.7	10	53	1						20	41	SCS
RAPID CITY	67.08	49.5	10	55	-2								
UPPSALA	67.46	337.5	10	59	0								
LARAMIE	67.72	53.0	11	1	0								
POONA	69.47	275.4	11	11	-1								
BOMBAY	69.91	276.4	11	14	0	20	27	3			21	14	
TUCSON	70.93	63.1	11	20	-1								
TIFLIS	71.20	311.4	11	23	1						21	17	PS
GORIS	72.01	308.9	11	28	1						21	30	PS
SIMFEROPOL	73.87	319.7	11	38A	0						11	43	*SP
BRISBANE	74.16	180.1	11	36	-4						12	12	
RACIBORZ	75.73	331.9	11	50	1								
COLLMBERG	76.23	335.5	11	51	-1								
HALLE	76.34	336.2	11	51	-1						12	14	
PRUHONICE	76.95	334.0	11	56	0						13	17	
JENA	76.96	336.2	11	56	0						12	53	
SHAWINIGAN	78.49	30.4	12	4	0								
RATHFARNHAM	78.52	347.6	12	8	4								
SEVEN FALLS	78.65	28.9	12	12	7								
BREBEUF	79.10	31.5	12	2	-5								
ISTANBUL KA.	79.19	320.4	12	8	0								
KEW	79.26	343.5	12	9	1								
BELGRADE	79.50	327.9	12	12K	2	22	17	6			13	28	
STUTTGART	79.57	336.7	12	9	-1						30	36	SSS
TUBINGEN	79.82	336.7	12	11	0								
EBINGEN	80.17	336.6	12	14	1								
SOFIA	80.22	324.9	12	14	1								
TRIESTE	81.05	332.5	12	13	-5								
BASLE	81.14	337.2	12	21	3						12	21	
PARIS	81.19	340.9	12	20	1	22	25	-3					
KSARA	81.77	311.6	12	22	0								
NEUCHATEL	81.80	337.4	12	22	0								
FLORENCE X.	83.51	333.3	12	30	-1								
JERUSALEM	83.72	310.8	12	33	1								
CLERMONT-FD.	83.91	339.4	12	35	2								
ATHENS	84.06	322.1	12	32	-1						12	40	
ALICANTE	91.79	339.6	13	10	0								
TAMANRASSET	104.62	329.3									18	21	PP
LA PAZ	134.34	62.3	19	20	0								
BYRD STATION	135.45	165.6	19	19	-3								

FEBRUARY 6 16.H 00.M 17.S EPICENTRE -27.66-178.19 DEPTH= 264.KM

DEPTH OF FOCUS= 0.036R

A=-0.88658 B=-0.02804 C=-0.46172 D=-0.0316 E= 0.9995
G= 0.4615 H= 0.0146 K=-0.8870 HT= 2.6

SE= 2.15

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
SUVA	9.96	341.1				4	25	17					
ONERAHI	10.27	216.2	2	26	3	4	34	19					
TONGARIRO	12.65	202.9	2	50	-2	5	3	-5					
WELLINGTON	14.77	201.2	3	11	-7	5	45	-10			8	13	PCP
NOUMEA	14.91	287.6	3	22	2	5	45	-13					
APIA	15.03	24.7	3	23	2	5	38	-23					
KAIMATA	17.07	207.0	3	46	2	6	36	-8					
GEBBIES PASS	17.63	202.4	3	45	-5	6	44	-11					

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BRISBANE	25.49	263.7	5 7A	1	10 52	100					
RIVERVIEW	27.00	249.2	5 19	-1					6 41		
MELBOURNE	32.42	242.3	6 8A	1							
CHARTERS TS.	33.31	275.4	6 16A	1					7 11		
RABAUL	36.63	304.2	6 40	-3					7 55		
PORT MORESBY	37.36	292.4	6 49	0	13 51	94			9 47	PP	
CAPE HALLETT	45.13	184.9	7 58	6	14 25	14			9 21	PP	
SCOTT BASE	50.75	184.1	8 37K	2							
GUAM	54.43	313.9	8 58	-4							
BYRD STATION	57.65	169.8	9 23	-2	17 6	5	10 19				
SOUTH POLE	62.50	180.0	9 58	1	18 0	-2	10 53		38 55	PKPPKP	
BAGUIO CITY	73.74	298.8	11 6	-1							
MATUSIRO	75.90	325.1	11 18A	-1	21 13	35	12 20		16 2	*SPP	
NHATRANG	80.67	289.0	11 45K	0	21 43	14					
ZO-SE	82.19	311.0	11 53	0							
CANTON	83.17	300.3	11 59A	1							
BERKELEY	83.63	41.3	12 0	0			12 59				
LICK	83.64	42.0	12 0	0			12 59				
PASADENA	83.71	46.3	12 0	0					12 59		
VLADIVOSTOK	84.04	325.7	12 1	-1							
NANKING	84.38	310.5	12 5A	1							
MEDAN	85.57	276.3	12 10	0	22 15	-2					
MINERAL	85.67	39.8	12 10	0			13 9				
BOULDER CITY	86.99	46.6	12 16	0			13 16				
TUCSON	87.47	51.5	12 19	0			13 20				
CHANGCHUN	87.96	322.9	12 21	0							
EUREKA	88.42	43.2	12 23	0			13 21				
MAGADAN	90.58	344.8	12 31	-2							
PEKING	90.85	315.6	12 35A	0	23 15	9	13 38		22 42	SKS	
KUNMING	92.45	296.9	12 44	2							
CHENGTU	94.17	302.4	12 51A	1							
HUNGRY HORSE	94.94	37.1	12 52	-1			13 58				
COLLEGE	95.20	12.5	12 53	-2			13 53				
HUANCAYO	95.59	106.6	12 59	3			14 2				
CHITTAGONG	100.05	289.9							16 52		
SEVEN FALLS	121.20	49.6	18 21	0							
QUETTA	123.63	289.3	18 28	2			19 34		20 19	PP	
KIRUNA	138.26	349.5	18 52	-2							
LWIRO	140.52	225.5	18 56	-2					22 15	PP	
SKALSTUGAN	143.43	352.2	19 0	-3							
UPPSALA	146.04	345.7	19 7	-1			20 12				
KSARA	150.17	290.4	19 19	5							
JERUSALEM	150.76	286.2	19 24A	9					20 31		
HELWAN	154.06	281.9	19 29	9							
COLLMBERG	154.92	343.3	19 31	10							
PRUHONICE	155.67	339.8	19 22	0			20 23		20 53	*SPKP	
GRANADA	169.46	24.3	20 57K	82					24 43	PP	
KELIZANE	171.86	7.3	19 39	3							
TAMANRASSET	174.10	215.5	19 40	3					25 3	PP	

FEBRUARY 7 0.H 32.M 25.S EPICENTRE 3.28 96.21 DEPTH= 0.KM

A=-0.10798 B= 0.99253 C= 0.05677 D= 0.9941 E= 0.1082
G=-0.0061 H= 0.0564 K=-0.9984 HT= 7.1

SE= 2.61

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S	
MEDAN	2.49	83.0	0 48A	6				6 18	
PORT BLAIR	9.03	337.7	2 31	16	4 29	31		2 39	PP
MADRAS	18.56	302.3	4 22K	2	7 58	13		4 41	PP
CHITTAGONG	19.44	347.7	4 40	9	8 25	20		8 55	SS
KODAIKANAL	19.84	291.3	4 38	3					
PHU-LIEN	20.16	29.4	4 29	-10				11 55	
CALCUTTA	20.60	338.9						7 10	
KUNMING	22.53	15.5	5 8	5					
SHILLONG	22.55	349.7	5 0A	-3					
POONA	26.62	306.3	5 45	3	10 25	9		12 34	PCS
LHASA	26.67	349.9	5 44	1	10 17	0			
BOMBAY	27.65	305.9						12 7	
DEHRA DUN	31.92	329.4	6 28	-1	11 56	16			
LANCHOW	33.39	11.2	6 42	0					
LAHORE	34.86	326.2	6 54	-1					
WARSAK DAM	38.24	325.9	7 25	1					
KOROR	38.31	82.4	7 25	1					

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QUETTA	38.50	317.2	7	27	1	13	16	-6			
PEKING	40.81	23.6	7	46	1						
NAMANGAN	43.55	332.8	8	7	0	14	34	-3			
FRUNSE	43.89	337.0	8	10	0						
ULAN-BATOR	45.42	10.1	8	26	4	15	6	2			
IRKUTSK	49.29	6.6	8	52	-1	15	57	-2			
VLADIVOSTOK	50.77	33.5	8	58	-6				15	51	
MATUSIRO	50.88	44.0	9	3	-2				10	21	
TANANARIVE	52.70	243.3	9	20	1						
CHARTERS TS.	54.30	117.4	9	29K	-1				9	37	
IIFLIS	59.74	317.4	10	9	0				18	10	
SVERDLOVSK	60.41	338.4	10	10	-4						
BRISBANE	62.65	123.2				18	27	30	25	43	SSS
KSARA	63.71	306.2	10	37	1	19	15	5			
JERUSALEM	63.76	303.9	10	35	-1						
HELWAN	66.65	301.1	10	54K	-1				11	4	
RUMANGABO	67.01	267.2	10	7	-50						
UVIRA	67.38	264.9	10	59A	0						
LWIRO	67.60	266.2	11	6	5						
SIMFEROPOL	68.17	317.5	11	3	-1						
MAGADAN	69.91	26.2	11	15	0						
MOSCOW	70.05	329.1	11	16	0						
ISTANBUL KA.	70.71	312.4	11	17	-3						
LWOW	76.05	320.6	11	51	0						
APATITY	76.83	339.5							11	55	PCP
HELSINKI	77.89	331.0	11	59	-2						
KRAKOW	78.69	320.3	12	5	-1				12	57	
SODANKYLA	79.21	338.3	12	8	-1						
RACIBORZ	79.80	320.2	12	11	-1						
BRATISLAVA	80.30	318.2	12	15	1						
UPPSALA	81.44	330.0	12	20	0						
KIRUNA	81.63	338.2	12	21A	0				12	30	
PRUHONICE	82.13	319.8	12	24	0				13	0	
COLLMBERG	83.21	321.1	12	29	-1						
SKALSTUGAN	84.38	333.4	12	35	0						
TAMANRASSET	89.38	292.6	13	0	0				16	32	PP
PARIS	90.01	318.7	13	3	0	23	35	-20			
NORD	90.05	352.2	13	2	-1						
RELIZANE	92.70	305.9	13	10	-5						
SOUTH POLE	93.25	180.0	13	17	-1						
COLLEGE	97.78	22.8	13	43	5				17	36	PP
RESOLUTE	101.87	3.0	13	55	-2				17	56	PP
HUNGRY HORSE	122.21	23.4	18	58	1				18	22	
EUREKA	128.17	31.6	18	55	-14						
SEVEN FALLS	128.53	348.7	19	10	1						
RAPID CITY	129.74	18.1	19	13	1				20	4	
PASADENA	130.66	38.1	19	12	-1						
BOULDER CITY	131.35	33.9	19	17	2						
TUCSON	136.33	33.9	19	28	4				19	55	
LA PAZ	159.76	228.5	20	13	12						

FEBRUARY 7 1.H 10.M 58.S EPICENTRE -31.45-179.69 DEPTH= 229.KM

DEPTH OF FOCUS= 0.031R

A=-0.85466 B=-0.00464 C=-0.51917 D=-0.0054 E= 1.0000
G= 0.5192 H= 0.0028 K=-0.8547 HT= 1.3

SE= 2.22

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
ONERAHI	6.57	227.4	1	38	3	3	9	19				
AUCKLAND	7.08	218.7	1	45	3	2	49	-13				
KARAPIRO	7.56	210.1	1	51	3	3	18	5				
TONGARIRO	8.66	205.5	2	2	0	3	42	4				
WELLINGTON	10.78	202.9	2	25	-4	4	18	-9				
COBB RIVER	11.39	210.3	2	38	1	4	30	-11				
KAIMATA	13.13	210.2	2	53	-6	5	9	-11				
SUVA	13.35	352.2	3	0	-1	5	34	9				
GEBBIES PASS	13.65	204.2	3	1	-4	5	20	-12				
NOUMEA	15.35	303.1	3	27A	1						4	24
APIA	19.01	24.2	4	5	-1	7	15	-10				
BRISBANE	24.05	272.5	4	58	3	9	0	7				
RIVERVIEW	24.64	256.7				9	9	6			5	55 PP
MELBOURNE	29.64	247.8	5	46K	0						6	47 PP
CHARTERS TS.	32.59	282.2	6	12K	0	11	12	3				

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PORT MORESBY	37.79	298.3	6	22	-33	11	29	-60			16	31
RABAUL	37.87	310.0	6	45	-11						12	33
SCOTT BASE	46.89	183.9	8	9A	0						9	38 PCP
TRUK	47.31	320.0	7	50	-22							
BYRD STATION	54.17	169.2	9	3	0							
GUAM	56.20	317.1	9	16	-2							
HONOLULU	56.39	24.3	9	18	-1						10	14 PCP
SOUTH POLE	58.72	180.0	9	35	0	17	22	1			10	23 PCP
HALLEY BAY	71.90	173.1	10	59	-1						25	24 SS
MATUSIRO	78.29	326.5	11	34K	-2				12	10		
NHATRANG	80.71	290.4	11	50K	1	22	6	31				
VLADIVOSTOK	86.46	326.7	12	17	-1							
UGLEGORSK	87.12	336.0	12	21	0							
PASADENA	87.25	46.9	12	22	1						13	17
LICK	87.31	42.6	12	23	1						13	20
BERKELEY	87.32	41.9	12	22	0						13	19
FRESNO	88.00	44.0	12	25	0							
MINERAL	89.10	40.5	12	32	1							
RENO	89.80	42.0	12	33	-1							
BOULDER CITY	90.52	47.2	12	38	1							
TUCSON	90.83	52.2	12	40	2						13	36
EUREKA	92.06	44.0	12	44	0							
HUANCAYO	95.72	107.7	13	4	4							
HUNGRY HORSE	98.73	37.9	13	14	0							
COLLEGE	99.18	13.2	13	15	-1						17	23 PP
LAHORE	118.11	291.5	18	19A	0							
RESOLUTE	118.68	17.6	18	19K	-1						32	2
OTTAWA	120.92	52.8	18	24	-1						21	39 SKP
BREBEUF	122.37	53.2	18	27A	0							
SHAWINIGAN	123.19	52.1	18	29A	0							
QUETTA	123.58	287.4	18	31A	1						20	15 PP
SEVEN FALLS	124.60	51.7	18	31K	-1							
NORD	129.33	3.2	18	39	-2							
UVIRA	135.74	223.6	18	54A	1						22	1 PP
LWIRO	136.92	224.2	18	57A	2						22	6 PP
APATITY	138.96	341.4	17	52	-67							
SODANKYLA	140.82	344.2	18	56	-7							
KIRUNA	141.71	347.8	18	58	-6							
TIFLIS	143.19	298.9	19	5	-2							
MOSCOW	144.35	324.0	19	7	-2						21	6
PULKOVO	145.32	333.6	19	7	-3							
HELSINKI	146.93	337.5	19	14	1							
SKALSTUGAN	146.97	350.2	19	14	1				20	15		
UPPSALA	149.32	342.9	19	19	3							
KSARA	150.04	284.1	19	24	6						19	44 PKP2
JERUSALEM	150.34	279.9	19	26	8						19	20
SIMFEROPOL	150.44	306.8	19	25	7							
LWOW	154.47	322.8	19	25	1							
ISTANBUL KA.	155.00	300.6	19	22	-3						23	26 PP
KRAKOW	156.33	327.4	19	37	11						21	35
RACIBORZ	157.08	329.5	18	26	-61							
COLLMBERG	158.06	338.3	19	29	0						20	4
HALLE	158.20	340.1	19	22	-7							
PRUHONICE	158.64	334.2	19	30	1						20	7 PKP2
JENA	158.82	340.0	19	26	-4						20	5
BRATISLAVA	158.98	327.4	19	29	-1						20	9 PKP2
CHEB	159.31	337.6	19	31	1						20	18 PKP2
ATHENS	159.71	295.1									20	8 PKP2
KEW	159.99	1.2	19	31	0							
STUTTGART	161.43	341.3	19	32A	0						20	19 PKP2
STRASBOURG	161.98	343.8	19	34A	1						20	22 PKP2
EBINGEN	162.04	340.9	20	22A	49							
BASLE	163.00	342.9	21	26	112							
TAMANRASSET	170.20	209.5	19	41K	2						24	55 PP
RELIZANE	175.70	357.4	19	43	1						25	24 PP

FEBRUARY 7 6.H 59.M 57.S EPICENTRE 27.39 128.56 DEPTH= 0.KM

A=-0.55422 B= 0.69526 C= 0.45766 D= 0.7820 E= 0.6233
G=-0.2853 H= 0.3579 K=-0.8891 HT= 2.6

SE= 3.42

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

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YAKUSIMA	3.49	28.7	0	58K	1						1	36
KAGOSIMA	4.51	22.2	1	15	4	2	15	9				
MIYAZAKI	5.15	28.2	1	20	-1	2	31	9				
NAGASAKI	5.44	11.8	1	23	-2						2	49
KUMAMOTO	5.72	18.4	1	30	1	2	42	6				
SAGA	6.03	14.0	1	37	4							
HUKUOKA	6.37	14.1	1	41	3							
OOITA	6.39	23.7	1	45	7						2	45
ZO-SE	7.43	301.6	1	55	2	3	23	4				
KOTI	7.49	33.7	1	52	-1	3	13	-7				
HAMADA	8.06	21.0				3	55	20			3	15
TAKAMATU	8.36	33.0	2	9	3							
TOKUSIMA	8.43	36.4	2	6	-1	3	32	-12				
NANKING	9.67	301.0	2	26	2	4	20	6				
KOHU	11.84	43.6	3	0	7							
HUNATU	11.88	44.6	2	54	0							
MATUSIRO	12.26	39.5	2	57	-2	5	8	-10			3	7
OIWAKE	12.30	41.1	3	14	15							
NAGANO	12.34	39.1	3	14	14							
TUKUBASAN	13.17	45.2	3	9K	-2							
BAGUIO CITY	13.19	215.7	3	25	13							
MANILA	14.57	210.5	3	34	4	6	36	23				
SENDAI	14.99	40.6	3	33	-2							
VLADIVOSTOK	15.92	8.9	3	57	10	7	5	20				
PEKING	16.26	324.0	3	54	2	7	0	7				
CHANGCHUN	16.61	351.7	4	10	14							
GUAM	20.51	129.3	4	40	-3							
PHU-LIEN	21.05	256.6	5	23	35						20	28
CHENGTU	21.70	284.5	4	56	1	8	52	1				
LANCHOW	22.71	298.6	5	4A	-1	9	8	-1				
KUNMING	23.32	270.1	5	11	0							
NHATRANG	23.60	234.0	5	15A	1	9	34	9				
UGLEGORSK	24.04	22.2	5	18	0	9	34	1				
ULAN-BATOR	26.56	326.3	5	37	-5	10	38	23				
SHILLONG	32.82	275.3	6	35K	-3						9	20
LHASA	32.95	282.9	6	39	0							
MEDAN	37.08	235.6	7	16	2						9	9
RABAUL	38.81	140.4	7	27	-2							
PORT MORESBY	40.77	151.2				13	51	-5				
LAHORE	47.00	288.7	8	32	-3							
MAMANGAN	48.19	301.7	8	44	0							
CHARTERS TS.	50.14	158.1	8	59	0						9	11
QUETTA	53.49	288.6	9	23A	-2							
SVERDLOVSK	55.53	321.8	8	48	-52							
COLLEGE	62.87	28.5	10	28	-2							
APATITY	66.92	335.4	10	52	-5							
KIRUNA	71.43	337.6	11	21	-3							
RESOLUTE	74.36	10.9	11	38A	-4	21	19	3				
UPPSALA	76.42	331.0	11	49	-4							
SKALSTUGAN	76.51	335.6	11	50	-4							
LWOW	78.22	320.2	12	2	-1							
JERUSALEM	78.71	299.9	12	5A	-1							
KRAKOW	80.40	321.7	12	13	-2						13	8
HELWAN	82.55	299.7	12	25K	-1						12	40
PRUHONICE	83.34	323.6	12	29	-1						13	36
COLLMBERG	83.37	325.2	12	30	-1							
HALLE	83.78	325.8	12	31	-2						12	52
JENA	84.31	325.5	12	33	-2							
HUNGRY HORSE	86.11	36.4	12	44	0							
BUTTE	88.33	37.6	13	1	6							
EUREKA	90.35	44.3	13	3	-2							
BOULDER CITY	93.17	46.6	13	17	-1							
RAPID CITY	94.55	34.6	13	45	21							
HUANCAYO	152.90	60.4	20	0	8							

FEBRUARY 7 23.H 23.M 33.S EPICENTRE 31.54 103.87 DEPTH= 0.KM

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CHENGTU	0.88	172.2	0	21	2								
TIENSHUI	3.42	27.0	0	55	0						1	8	PG
LANCHOW	4.53	359.5	1	12	1	2	9	3			1	32	PG

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SIAN	5.03	56.2	1	17	-1	2	16	-2		
WUMEI	6.46	351.3	1	43	5					
KUNMING	6.55	189.5	1	40	0	2	55	-1		
YINCHUAN	7.19	15.2	1	55	6					
LINFEN	7.82	52.4	2	1	3					
TOCKLAI	9.28	241.3	3	27	69					
TAIYUAN	9.51	46.6	2	20	-1					
PAOTOW	10.30	27.2	2	32	0					
YUMEN	10.35	329.5	2	34	1					
FUTZELING	10.62	88.0	2	30	-6					
PHU-LIEN	10.98	166.3	2	39	-2	5	56	70		
LHASA	11.22	263.6	2	48A	4	4	54	2		
TATUNG	11.45	39.2	2	48	0					
CANTON	11.87	132.9	2	51A	-2	5	3	-5		
SHILLONG	12.11	243.6	2	56A	0	5	16	3	3	4 PP
NANKING	12.71	83.8	2	59	-6	5	17	-11		
HONG KONG	13.00	132.6	3	5	-3	5	19	-16		
PEKING	13.08	46.3	3	7	-3	5	34	-3		
CHITTAGONG	14.10	232.5	3	21	-2	6	1	0		
ZO-SE	14.81	87.2	3	28	-4	6	12	-6		
CHATRA	15.32	256.4	3	39	0				8	30
PENGHU	16.02	116.0	3	53	5	7	10	23		
DAIREN	16.25	58.3	3	52	1					
CALCUTTA	16.48	240.8	3	50A	-4	6	44	-13		
ULAN-BATOR	16.52	7.2	3	56	2	7	11	13		
TAICHUNG	16.58	112.2	4	4	9	7	32	33		
TAINAN	16.83	116.4	4	2	4					
ALISHAN	16.99	113.9	4	5	5	7	24	15		
ILAN	17.14	108.7	4	6	4	7	34	22		
HWALIEN	17.41	111.3	4	5	-1					
HSINKONG	17.66	114.1	4	11	2					
TAITUNG	17.68	115.5	4	12	3	7	32	7		
TAWU	17.71	117.0	4	8	-1	7	32	7		
BOKARO	17.74	248.8	4	8A	-2	7	18	-8	4	14 PP
HENGCHUN	17.80	118.2	4	15	5					
NHATRANG	19.85	164.5	4	35K	0				4	55 PP
IRKUTSK	20.72	0.8	4	44A	0	8	37	6		
CHANGCHUN	20.87	48.0	4	43	-3	8	32	-2		
TOMIE	21.12	80.5	4	47	-1	8	44	5		
BAGUIO CITY	21.39	130.8	4	53	2	8	55	10		
NAGASAKI	22.04	80.0	4	55	-3	9	1	4		
DEHRA DUN	22.17	273.6	5	2	3	9	1	2	5	39 PP
PORT BLAIR	22.29	210.0	4	59	-1	9	18	17		
SAGA	22.37	78.6	5	18	17					
HUKUOKA	22.45	77.7	5	5	3	9	7	3		
KAGOSIMA	22.72	82.9	5	10	6					
KUMAMOTO	22.73	79.6	5	3	-1	9	11	2		
YAKUSIMA	22.84	85.8	5	6	1	9	8	-3		
AGRA	22.94	265.6	5	6A	0	9	13	0	5	36 PP
PRZHEVALSK	23.00	305.5	5	10	3					
MANILA	23.03	133.3	5	9	2	9	21	6		
KURMENTY	23.28	306.8	5	12	2					
SUIHWA	23.31	43.2	5	11	1					
OOITA	23.47	78.5	5	11	-1	9	27	5		
ALMATA-2	23.98	306.7	5	19	2	9	39	8		
HIROSIMA	24.10	75.6	5	21	3	9	40	7		
ALMATA	24.27	306.4	5	22	3	9	51	15	6	5 PP
MATUYAMA	24.38	76.9	5	25	4	9	35	-3		
NARYN	24.40	301.7	5	23	2	9	52	14	6	2 PP
ILI	24.42	308.1	5	22	1					
FABRICHNAYA	24.62	305.9	5	29	6					
SIMIDU	24.64	79.4	5	20	-3	9	41	-1		
YONAGO	24.85	73.0				9	35	-11		
VLADIVOSTOK	24.99	54.5	5	24K	-2	9	46	-2		
KOTI	25.05	77.5				9	57	8	6	0
LAHORE	25.14	277.8	5	27A	-1					
TAKAMATU	25.44	75.6	5	28	-3					
SEMIPALATNSK	25.76	323.8	5	36	2	10	5	4		
FRUNSE	25.80	304.3	5	36A	2	10	16	14	6	26 PP
TOKUSIMA	25.89	76.1	5	36	1					
SUMOTO	26.12	75.5	5	29	-8	10	13	6		
KOBE	26.36	74.7				10	8	-3		
OSAKA	26.65	74.7	5	48	6				8	33
KYOTO	26.80	73.9	5	43K	0	10	39	21		
ANDIJAN	26.93	298.8	5	46	2				10	56
HYDERABAD	26.98	244.6	5	46	1	10	38	17	12	23 SS
KHOROG	27.16	291.5	5	48	1					
HIKONE	27.22	73.3	5	52	5					

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WARSAK DAM	27.23	283.9	5	38	-9						
FERGANA	27.31	297.8	5	49	1	10	30	3			
IBUKISAN	27.32	73.1	5	54	6						
KAMEYAMA	27.41	74.2	5	46	-3						
NAMANGAN	27.49	299.1	5	52	2						
GIHU	27.64	73.0	5	51	0						
NAGOYA	27.81	73.5	6	32	40						
MEDAN	28.24	191.0	5	57	1	10	54	12			
MADRAS	28.54	235.0	6	0	1	10	46	-1	6	56	PP
NAGANO	28.79	70.3	6	20	19						
MATUSIRO	28.80	70.6	5	57A	-4	10	44	-7	12	40	SS
OIWAKE	29.07	71.0	6	5	1						
TASHKENT	29.33	299.2	6	7	1	11	0	1	13	21	SSS
STALINABAD	29.45	293.5	6	7	0	11	4	3			
POONA	30.02	251.6	6	16	4	11	14	4			
TUKUBASAN	30.32	71.2	6	12K	-3						
BOMBAY	30.67	253.2	6	17	-1	11	45	25	7	12	PP
SAMARKAND	30.90	295.6	6	20	0	11	27	3			
QUETTA	31.63	277.3	6	27A	0	11	37	1			
SAPPORO	31.71	58.0							9	49	
KODAIKANAL	32.37	234.8				11	16	-31			
KARACHI	32.70	269.4	6	38	2						
Y.-SAKHLINSK	33.41	51.3	6	43A	1	11	59	-4			
KUSIRO	33.92	58.7	6	42	-4						
NEMURO	34.81	58.3	6	55	1						
KOROR	37.35	123.6	7	14	-2	13	2	-2			
DJAKARTA	37.61	175.2	6	19	-59	12	0	-68			
ASHKABAD	37.65	292.6	7	20A	2				8	52	PP
SVERDLOVSK	39.04	323.3	7	32	2				9	3	PP
GUAM	41.54	106.2	7	48	-2	14	2	-5			
MAGADAN	41.85	33.9	7	51A	-2						
TIKSI	42.35	11.5	7	54	-3				17	48	SCS
PETROPAVLOVK	44.59	44.5	8	18A	3				10	4	PP
GORIS	46.82	296.5	8	32	-1				11	19	PPP
TIFLIS	47.65	299.7	8	40	0				10	33	PP
MOSCOW	51.40	318.5	9	8	0	16	26	-2	11	59	PPP
APATITY	53.82	333.4	9	25	-1	16	57	-4	11	30	PP
SIMFEROPOL	54.81	305.4	9	33	-1	17	14	0	12	58	PPP
PULKOVO	55.16	323.8	9	34	-2	17	15	-4	21	33	SS
KSARA	56.31	291.9	9	46A	2	17	39	5	11	52	PP
SODANKYLA	56.43	333.1	9	43	-2						
JERUSALEM	57.48	289.8	9	53K	0				10	0	
PORT MORESBY	58.07	127.1	9	55	-2						
RABAUL	58.09	118.7	9	56K	-1						
IASI	58.76	309.2	10	8	6				11	22	
KIRUNA	58.76	333.8	9	59	-3	18	4	-2	10	48	PCP
ISTANBUL KA.	59.34	302.0	10	4	-2	18	14	0			
LWOW	60.39	312.8	10	13	0	18	28	1	10	48	PCP
BUCHAREST	60.48	306.4	10	13	-1	18	31	3			
HELWAN	61.29	289.1	10	18A	-1	18	39	0			
UPPSALA	61.47	325.0	10	18A	-2	18	39	-2			
WARSAW	61.59	316.1	10	18	-3	18	33	-10			
KRAKOW	62.87	313.9	10	29	-1	18	59	0	13	1	PP
SOFIA	62.93	305.2	10	31	1				12	7	
SKALNATE PL.	62.93	312.9	10	28	-2						
SKALSTUGAN	62.94	329.9	10	28A	-2						
NORD	63.19	351.8	10	29A	-3						
TIMISOARA	63.38	309.0	10	38	5						
RACIBORZ	63.92	314.3	10	37	0				11	39	
BELGRADE	64.20	308.3	10	37	-1				23	35	SS
BUDAPEST	64.22	311.4	10	39	0				33	12	
ATHENS	64.26	300.2	9	38K	-61						
BRATISLAVA	65.24	312.6	10	45	0				11	31	
COPENHAGEN	65.36	321.5	10	45	-1	19	29	-1			
CHARTERS TS.	65.42	135.8	10	45A	-1				11	14	
PRUHONICE	66.17	315.1	10	50	-1				13	8	PP
POTSDAM	66.18	317.9	10	50	-1						
PRAGUE	66.21	315.2	10	53	2	19	40	0	13	32	
HALLE	67.14	317.3	10	55	-2	19	53	2	13	30	PP
PLAUEN	67.41	316.3	10	57	-2				15	11	
CHEB	67.43	315.8	10	52	-7				13	12	PP
JENA	67.58	316.8	10	58	-2	19	47	-10	13	29	PP
TARANTO	67.98	304.8				20	12	11	27	52	
TRIESTE	68.30	311.0	11	4	-1	20	4	-1	20	56	SCS
COLLEGE	69.14	25.7	11	7A	-3	19	55	-20			
MUNSTER	69.42	318.9	11	10	-2				11	17	
WITTEVEEN	69.59	320.0	11	12	-1						
STUTTGART	69.86	315.4	11	13	-1	20	24	0	13	41	PP
RAVENSBURG	70.02	314.3	11	15	0						

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TUBINGEN	70.04	315.2	11 14	-1			
KARLSRUHE	70.23	315.9	11 15	-1		11 46	
CHUR	70.48	313.4	11 17K	-1			
ROME	70.68	307.7			20 37 4	25 12	
FLORENCE X.	70.70	309.9	11 20	1	20 54 21	25 47	SSS
STRASBOURG	70.80	315.6	11 19	-1		11 40	
ZURICH	70.84	314.2	11 20	0			
SCORESBY SD.	71.20	343.3	11 20	-2			
BASLE	71.38	314.7	11 23A	0		15 7	
PAVIA	71.43	312.0				29 9	
NEUCHATEL	72.00	314.4	11 26	-1			
DURHAM	73.00	324.3	11 37A	4	21 40 40		
MONACO	73.20	311.2	11 40	6			
RESOLUTE	73.33	5.1	11 33A	-2	21 1 -3	25 42	SS
PARIS	73.79	317.6	11 37A	-1	20 57 -12		
KEW	74.03	320.9	11 38	-1	21 10 -1		
CLERMONT-FD.	74.91	314.6	11 44A	0			
BRISBANE	75.10	135.9	11 43	-2	21 11 -12		
RATHFARNHAM	76.13	324.5	11 51	0			
RUMANGABO	77.55	260.7	11 59A	0			
ASTRIDA	77.90	259.4	13 1A	60			
LWIRO	78.49	260.2	12 4A	0		34 24	
SITKA	78.64	28.6	12 4	-1			
UVIRA	78.88	258.9	12 6A	0			
MELBOURNE	78.95	148.0	12 5K	-2		12 25	PCP
TORTOSA	79.10	311.2	12 9	1			
ALGIERS UNI.	79.54	306.7	12 9A	-1	22 11 0	15 13	PP
ALICANTE	81.07	309.5	12 15	-3	22 25 -2	15 25	PP
RELIZANE	81.79	306.9	12 21	-1		14 6	
TOLEDO	82.52	312.4	12 26A	0	22 1 -41	12 32	PCP
ALMERIA	83.22	309.2	12 27	-2		15 47	PP
GRANADA	83.77	310.0	12 30A	-2	23 15 20	15 49	PP
FORT NELSON	84.16	149.5	12 32A	-2			
MALAGA	84.56	310.0	12 27A	-9		15 50	PP
SERRA PILAR	84.58	315.5	12 35A	-1			
TAMANRASSET	85.07	293.6	12 38	-1		15 59	PP
KIPAPA	85.60	67.7	12 40	-1			
LISBON	86.39	313.8	12 46A	1			
HORSESHOE B.	89.17	28.6	12 57A	-2			
VICTORIA	89.79	29.2	12 59A	-2			
SEATTLE	90.93	29.2	13 8	1			
HUNGRY HORSE	93.54	24.2	13 18	-1		17 6	PP
BUTTE	96.05	24.6	13 30	0		17 26	PP
KIMBERLEY	96.15	240.1	13 31A	0			
LICK	99.35	35.2	13 33	-12		17 29	PP
EUREKA	100.24	30.3	13 49	0		17 48	PP
RAPID CITY	100.79	19.5	13 51	-1		17 54	PP
SALT LAKE C.	100.83	26.8	13 56	4			
SEVEN FALLS	101.56	356.3	13 57A	2			
SHAWINIGAN	102.22	357.6	13 57K	-1			
OTTAWA	103.43	359.7	14 5A	2			
PASADENA	103.60	34.8				18 22	PP
BOULDER CITY	103.65	31.5	14 6	2		18 16	PP
TUCSON	108.57	30.6	18 21	777			
SOUTH POLE	121.37	180.0	18 53	-2		28 54	PKKP
BYRD STATION	128.37	171.2	19 8	-1		21 12	PP
FUQUENE	143.13	356.0	19 41	5			
CHINCHINA	143.69	359.1	19 14	-23		19 19	
BOGOTA	143.99	356.5	19 36	-1		23 22	SKP
HUANCAYO	160.59	357.6	20 4	3		24 9	PP
LA PAZ	163.35	332.2	20 5A	1		24 41	PP

FEBRUARY 9 4.H 15.M 7.S EPICENTRE 7.72 -79.23 DEPTH= 0.KM

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	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
BALBOA HTS.	1.28	345.0	0 15	-10	0 31	-12		
CHINCHINA	4.50	127.1	0 52	-19	2 1	-4		
GALERAZAMBA	4.95	51.8	1 11	-6	2 0	-16		
FUQUENE	5.90	111.9	1 30	0	2 42	2		
BOGOTA	5.98	120.7	1 30	-2	2 42	0		

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SANTIAGO MA.	10.74	303.0	2 40	2			
SAN SALVADOR	11.50	302.1	2 48	0			
COMITAN	15.20	305.1			8 40 133	7 32	
MERIDA	16.55	323.7			7 20 21	10 14	
SAN JUAN	16.58	49.0	3 54	-1			
ST. VINCENT	18.47	71.4	4 18	-1			
ST. CLAUDE	19.02	62.7	4 30	4			
FORT FRANCE	19.04	67.0	4 24	-2	8 10 14		
VERA CRUZ	19.99	306.5				12 26	
HUANCAYO	20.01	168.8	4 36	-1	7 31 -46	6 57	
BARBADOS	20.03	72.8	4 37	0			
TACUBAYA	22.59	302.9	5 18	15	8 55 -12	5 56	
COLUMBIA	26.21	356.6	6 12	34			
LA PAZ	26.45	155.5	5 38	-2	10 9 -4	11 23 SS	
GUADALAJARA	26.63	301.5				10 55	
BERMUDA	28.02	26.9			9 44 -54	12 53	
FAYETTEVILLE	31.38	336.3	6 21K	-3			
MORGANTOWN	31.78	358.9	6 59	31			
WESTON	35.22	10.2	6 59K	1			
OTTAWA	37.66	4.0	7 18	0			
TUCSON	38.18	314.1	7 22	-1		9 19 PCP	
SHAWINIGAN	39.09	7.1	7 31	1			
SEVEN FALLS	39.91	8.9	7 39A	2			
RAPID CITY	41.83	334.0	7 51	-2		10 17 PPP	
BOULDER CITY	42.98	316.2	8 1	-1			
SALT LAKE C.	43.89	323.8	8 10	0			
PASADENA	44.46	311.9	8 13	-1			
EUREKA	45.65	319.6	8 22	-2		9 12	
FRESNO	46.85	314.3	8 30	-3			
BUTTE	47.73	328.8	8 38	-2			
RENO	48.20	317.6	8 44	0			
LICK	48.42	314.1	8 45	-1			
MINERAL	49.79	317.6	9 6	10			
HUNGRY HORSE	50.04	330.2	8 56	-2			
VICTORIA	55.11	325.6	9 33	-3			
MBOUR	61.31	77.9	10 19	0			
RESOLUTE	67.53	355.5	10 55	-5	19 53 -3		
MALAGA	73.27	54.1	11 28K	-7		11 46 PCP	
RATHFARNHAM	73.67	36.7	12 21	44			
COLLEGE	74.03	335.6	11 37	-2		14 21 PP	
RELIZANE	77.25	55.2	12 2	5			
NORD	78.52	7.7	12 10	6			
PARIS	78.79	41.8	12 6A	0		12 14 PCP	
ALGIERS UNI.	79.25	54.1	12 14	6			
TAMANRASSET	82.23	68.1	12 24	0		15 46 PP	
STUTTGART	83.22	41.8	12 28	-1			
SKALSTUGAN	83.82	26.7	12 40	8			
JENA	84.58	39.5	12 39	3			
FLORENCE X.	85.07	46.6	12 19	-20			
COLLMBERG	85.43	39.0	12 41	1			
KIRUNA	86.54	22.0	12 46K	0			
PRUHONICE	86.58	40.2	12 46	0			
TRIESTE	86.62	44.6	12 53	7			
UPPSALA	86.82	30.1	12 46	-1			
SODANKYLA	88.96	21.9	12 57	-1			
BYRD STATION	89.97	186.5	13 5	3			
SOUTH POLE	97.66	180.0	13 36	-2			
QUETTA	130.26	39.2	19 13	1			
SHILLONG	145.80	14.4	19 40K	0			

FEBRUARY 9 9.H 31.M 9.S EPICENTRE 24.93 90.86 DEPTH= 36.KM
DEPTH OF FOCUS= 0.0COR

A=-0.01361 B= 0.90783 C= 0.41913 D= 0.9999 E= 0.0150
G=-0.0063 H= 0.4191 K=-0.9079 HT= 3.4

SE= 2.38

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
SHILLONG	1.12	54.8						0 20 PG
CHITTAGONG	2.70	160.8	0 41	-1	1 16	2		0 50 PG
CALCUTTA	3.32	224.6	0 32	-19	1 3	-27		1 11 SG
CHATRA	3.83	300.5	1 0	2	1 59	16		
LHASA	4.70	1.9	1 13	2				

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BOKARO	4.74	257.7	1	18	7	2	9	3			1	25 PP
KUNMING	10.72	86.9	2	34	-1	4	47	12				
AGRA	11.75	283.5	2	48	-1	4	54	-6				
DEHRA DUN	12.56	298.2	2	58	-1	5	11	-8				
HYDERABAD	13.76	239.6	3	12	-3	5	33	-15				
PHU-LIEN	15.10	102.6	3	35	2							
MADRAS	15.57	222.3	3	36K	-3	6	20	-10			3	49 PP
LANCHOW	15.74	42.0	3	39K	-2	6	45	11				
LAHORE	15.98	298.1	3	40	-4	6	33	-7				
POONA	17.03	251.4	3	56A	-1	6	50	-14				
BUMBAY	17.77	253.8	4	18	11	7	29	8			7	59 SS
WARSAK DAM	19.07	302.8	4	23A	1							
CANTON	20.56	90.5	4	39K	0	8	32	10				
HONG KONG	21.52	92.2				8	47	8				
KARACHI	21.54	277.5	4	55	7							
QUETTA	21.82	289.2	4	53A	2	8	47	2				
FRUNSE	22.36	327.2	4	58	1							
MEDAN	22.52	159.2	4	59K	1	8	39	-19				
NAMANGAN	22.63	319.7	5	1	2							
NANKING	25.52	67.5	5	26	-1	10	1	11				
PEKING	26.01	48.5	5	32	0	10	8	10				
ULAN-BATOR	26.22	24.9	5	32	-2	10	1	0				
ZO-SE	27.41	70.2	5	42	-3	10	33	12				
MATUSIRO	41.95	62.4	7	47	-2							
JERUSALEM	49.00	291.3	8	46	1							
HELWAN	52.58	289.5	9	13	0							
ISTANBUL KA.	53.21	303.7	9	16	-1							
APATITY	54.92	336.7	9	28	-2							
SODANKYLA	57.37	335.6	9	47	0							
KIRUNA	59.79	335.6	10	3	-1				10	13		
UPPSALA	60.39	326.2	10	7	-1				10	18		
TRUK	60.61	95.6	10	19	9							
PRUHONICE	62.69	315.1	10	24	0						11	12 PCP
SKALSTUGAN	62.92	330.5	10	25	0				10	35		
ASTRIDA	65.23	254.5	10	41	1							
UVIRA	66.18	254.0	10	47	0				10	58		
STUTTGART	66.33	314.4	10	48	1						11	29
STRASBOURG	67.30	314.4	10	54	0							
NORD	68.02	351.3	10	56	-2							
CHARTERS TS.	69.99	124.5	11	10A	0							
PARIS	70.64	315.5	11	14A	0	20	32	8				
TAMANRASSET	76.74	289.1	11	50	0						14	54 PP
BRISBANE	79.39	126.9	12	4	0							
COLLEGE	79.78	21.8	12	6	0						15	5 PP
MELBOURNE	80.48	139.4	12	10	0							
RESOLUTE	80.57	1.5	12	10A	-1							
HUNGRY HORSE	103.72	16.8	14	5	5							
EUREKA	111.20	22.0	18	33	3							
SOUTH POLE	114.78	180.0	18	38	1							
TUCSON	119.49	21.1	18	48	2							
HUANCAYO	161.70	311.9	20	2	5						20	58 PKP2

FEBRUARY 9 22.H 29.M 23.S EPICENTRE 12.72 120.93 DEPTH= 0.KM

A=-0.50159 B= 0.83699 C= 0.21874 D= 0.8578 E= 0.5140
G=-0.1124 H= 0.1876 K=-0.9758 HT= 6.1

SE= 2.41

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
MANILA	1.85	1.4	1	41	67	2	1	63				
BAGUIO CITY	3.70	354.7	1	2	2	1	54	9				
HONG KONG	11.50	326.8	2	33	-16						3	36
CANTON	12.61	325.8	3	5	1							
KOROR	14.37	110.6	3	22	-5							
PHU-LIEN	15.87	302.3	3	46	-1	6	49	5				
ZO-SE	18.30	0.7	4	19	2							
NANKING	19.34	354.5	4	32A	2	8	6	3				
KUNMING	21.15	308.1	4	52	3	8	44	3				
GUAM	23.21	85.5	5	10	0	9	25	6				
DJAKARTA	23.43	217.5	5	19	7	9	56	34				
CHENGTU	23.73	321.4	5	16	1	9	29	1			6	13
MEDAN	23.80	249.5	5	13K	-3	9	25	-4				
SIAN	24.06	335.0	5	15	-3							
KYOTO	25.94	28.6	5	36A	0	10	16	11				

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PEKING	27.53	352.1	5	50A	-1					
LANCHOW	27.91	329.4	5	55K	1	10	39	2	6 48	PP
MATUSIRO	28.36	30.2	5	56A	-2	10	37	-8	6 8	*SP
TUKUBASAN	29.07	33.1	6	21K	16				7 10	PP
CHITTAGONG	29.32	293.1	6	6A	-1	11	0	0	7 1	PP
WUWEI	29.94	330.2	6	14	2					
SHILLONG	30.20	299.3	6	13A	-2	11	13	-1	7 5	PP
CHANGCHUN	31.23	6.1	6	23	-1					
VLADIVOSTOK	31.74	15.4	6	30	2				7 51	
LHASA	32.42	306.0	6	35	1	11	48	-1	13 38	SS
CALCUTTA	32.49	292.0	6	33	-2	11	48	-2	13 48	SS
PORT MORESBY	34.07	128.9	6	57	8				8 11	PP
CHATRA	34.61	299.0	6	51	-2	12	22	-1		
BOKARO	35.05	293.4	6	57	0	12	29	0		
RABAUL	35.29	116.5	6	58	-1					
ULAN-BATOR	37.00	344.3	7	13	0					
MADRAS	39.70	275.1	7	36K	0	13	42	2	9 12	PP
UGLEGORSK	40.25	21.5	7	42	1	13	55	6		
HYDERABAD	41.23	282.0	7	46	-3	14	5	2	14 35	PS
IRKUTSK	41.65	344.7	7	49	-3	14	12	2		
AGRA	42.60	296.3	7	57	-3					
KODAIKANAL	42.63	271.3							9 41	
DEHRA DUN	43.27	300.9	8	14	9	14	29	-4	10 15	PPP
POONA	45.61	283.5	8	26	2	15	3	-4	15 6	PS
BOMBAY	46.59	284.0	8	29	-3	15	21	0		
LAHORE	46.67	301.5	8	31	-2				10 27	PP
WARSAK DAM	49.50	304.0	8	54	-1					
FRUNSE	49.96	316.0	8	58	0				16 10	
SEMIPALATNSK	50.09	327.0	9	6	7				14 16	PCS
PETROPAVLOVK	50.23	28.7	9	1	1				14 7	PCS
BRISBANE	50.65	142.4	8	59	-4				13 43	PCS
MAGADAN	51.74	18.8	9	12	0				16 52	
QUETTA	52.68	298.3	9	18	-1	16	46	0	11 7	PP
RIVERVIEW	54.50	149.0				17	11	1	10 40	
SVERDLOVSK	63.35	327.7	10	33	-1	19	5	-1		
MAKHACH-KALA	69.34	311.2	11	13	1	20	17	-1		
TIFLIS	71.33	309.9	11	23	-1	20	43	1		
SOTCHI	75.01	312.0	11	47	1	21	22	-1		
MOSCOW	75.83	324.6	11	50	0	21	28	-4		
KIPAPA	77.24	70.7	12	2	4					
SIMFEROPOL	78.90	313.7	12	6	-1	22	3	-2		
KSARA	78.98	302.3	12	12	4					
COLLEGE	79.12	25.8	12	7	-1				15 7	
PULKOVO	79.43	329.0							12 21	PCP
SODANKYLA	80.02	336.9	12	12	-1					
MIRNY	81.69	190.9	12	22	0					
HELSINKI	82.02	329.9	12	23	-1					
KISHINEV	82.24	316.4	12	23	-2					
KIRUNA	82.25	337.9	12	24	-1	22	42	2		
IASI	83.05	316.7	12	29	0				13 10	
ISTANBUL KA.	83.16	310.4	12	28	-2					
HELWAN	83.44	299.0	12	31	0	22	55	3		
NORD	83.66	354.3	12	30	-2					
BUCHAREST	84.63	314.2	12	38	1	23	4	0	13 6	
LWOW	84.80	319.8	12	38	0					
CAMPULUNG	85.18	315.2							13 30	
UPPSALA	85.67	330.5	12	41	-1					
SKALSTUGAN	86.79	334.9	12	48	0					
KRAKOW	87.30	320.7	12	51	1				16 19	PP
ATHENS	87.87	308.3	12	51	-2					
RACIBORZ	88.35	321.0	12	55	0					
BELGRADE	88.44	315.6	13	0A	4	23	25	-16	16 51	PP
BRATISLAVA	89.64	319.5	13	1	0					
RESOLUTE	89.97	9.0	13	2A	-1	23	51	-4		
PRUHONICE	90.61	321.7	13	6	0					
COLLMBERG	91.05	323.3	13	7	-1					
HALLE	91.59	323.7	13	10	0					
JENA	92.02	323.3	13	10	-2				14 3	
UVIRA	92.52	267.0	13	20	5					
LWIRO	92.57	268.3				25	34	76		
TRIESTE	92.65	317.9	13	19	4				16 49	PP
STUTTGART	94.30	322.0	13	21	-2					
PARIS	98.23	324.0							17 44	PP
RATHFARNHAM	100.33	330.9	13	30	-20					
HUNGRY HORSE	102.17	34.0	14	0	1				17 52	PP
EUREKA	105.89	42.4	14	17	777					
TAMANRASSET	107.59	299.0	17	35	777				18 53	PP
RAPID CITY	110.68	32.4							19 10	PP
TUCSON	113.30	46.4	18	48	8				14 8	P

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SEVEN FALLS	119.51	9.2	19	20	28						
SAN JUAN	148.33	12.8	19	49	4						
HUANCAYO	164.10	89.4	20	13	8					24	52 PP
LA PAZ	170.46	114.3	20	16	6					25	22 PP

FEBRUARY 11 0.H 46.M 3.S EPICENTRE -8.85 107.41 DEPTH= 0.KM

A=-0.29571 B= 0.94298 C=-0.15279 D= 0.9542 E= 0.2992
G= 0.0457 H=-0.1458 K=-0.9883 HT= 6.7

SE= 2.39

	DELTA DEG.	AZ. DEG.	P M	S	O-C S	S M	S	O-C S	*PP M	S	SUPP. M	S	
DJAKARTA	2.71	347.7	0	48K	2	1	39	19					
MEDAN	15.11	324.5	3	40	3	6	30	4					
NHATRANG	21.01	4.9	4	49K	1						5	12	PP
PHU-LIEN	29.47	358.5	4	39	-89						7	31	
COLOMBO	31.60	298.8									16	32	
HONG KONG	31.65	12.0	6	54	27	12	36	60			8	1	PP
KUNMING	34.00	352.3	6	49	1	12	16	3					
CHITTAGONG	34.57	334.0	6	53	0	12	23	1					
MADRAS	34.68	308.4	6	56	2						9	41	
KODAIKANAL	35.32	301.8	6	33	-26								
SHILLONG	37.40	336.5	7	12K	-5								
CHARTERS TS.	39.13	110.8	7	33K	2						19	43	
CHENGTU	39.41	355.4	7	32	-1	13	32	-4			13	53	
CHATRA	40.54	331.6	7	39	-4						14	8	
LHASA	41.38	338.2	7	51	1								
ZO-SE	41.85	17.8	7	54	1	14	12	0					
NANKING	42.10	14.5	7	55	0						8	23	
POONA	42.85	309.5	8	2	0	14	32	5			9	51	PP
BOMBAY	43.86	309.1									18	25	
MELBOURNE	44.47	136.4	8	17	2								
LANCHOW	44.81	355.9	8	18	0	14	56	1					
AGRA	45.73	322.3	8	21	-4	15	3	-5					
BRISBANE	46.82	119.5	8	34	1								
TRUK	47.16	71.2	8	35	-1								
RIVERVIEW	47.23	128.4	8	36A	-1	15	35	5					
DEHRA DUN	48.08	325.3	8	47	4	15	40	-2					
PEKING	49.30	8.9	8	51	-2	15	57	-2					
LAHORE	51.14	323.2	9	4	-3	16	21	-4					
KARACHI	52.24	312.4	9	13	-2								
MATUSIRO	53.64	30.8	9	23A	-3						22	30	
TUKUBASAN	54.36	32.5	9	31	0								
WARSAK DAM	54.52	323.3	9	31	-1	17	11	0					
QUETTA	54.92	316.6	9	33	-2	17	19	3					
VLADIVOSTOK	56.33	21.4				17	30	-5					
MIRNY	58.46	186.7				17	57	-6					
TANANARIVE	58.74	253.3	10	1	-1								
NAMANGAN	59.50	329.1	10	5	-2								
FRUNSE	59.55	332.5	10	7	-1								
MAKHACH-KALA	74.94	318.9	11	46	1								
TIFLIS	76.17	316.8	11	51	-1								
MAGADAN	76.45	21.1	11	55	2								
ASTRIDA	77.44	269.3	12	58	59								
UVIRA	77.91	268.3	12	1	-1								
LWIRO	78.41	269.5	12	2	-2								
JERUSALEM	79.79	304.5	12	16	4								
KSARA	79.86	306.7	12	17	5						15	31	PP
SOUTH POLE	81.21	180.0	12	16	-3								
TIKSI	81.56	6.7	12	20	-1	22	26	-7					
HELWAN	82.49	301.7	12	33	7						13	16	
SIMFEROPOL	84.60	316.9	12	36	-1	22	54	-9					
MOSCOW	86.15	327.9									12	50	PCP
ISTANBUL KA.	87.08	312.1	12	47	-2								
BYRD STATION	88.12	172.7	12	55	1						15	4	
KISHINEV	88.71	317.9				23	26	-17					
ATHENS	90.45	308.2	13	17K	12								
PULKOVO	91.15	330.4									22	55	
SODANKYLA	94.57	337.5	13	27	3								
KIRUNA	96.98	337.6	13	34	-1								
PRUHONICE	98.54	319.3									17	45	PP
PRAGUE	98.62	319.4									17	58	PP
COLLEGE	104.23	25.2									18	21	PP
TAMANRASSET	104.29	291.3									18	39	PP

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RESOLUTE	112.98	6.3	18 39	0			
HUNGRY HORSE	127.45	33.8	19 8	1			
EUREKA	130.74	44.6	19 18	4			
PASADENA	131.22	52.0					21 17
RAPID CITY	135.96	31.9	19 25	2			22 41
TUCSON	137.63	51.1					
SEVEN FALLS	141.83	358.1	19 36	2			22 29 PKS
SHAWINIGAN	142.43	0.2	19 36K	1			
LUBBOCK	143.50	43.3	19 36	-1			
FAYETTEVILLE	146.50	32.7	19 43A	1			
CLEVELAND	146.55	12.2	19 44	2			
PALISADES	147.95	1.9	19 49	5			26 16 PPP
MORGANTOWN	148.65	11.0	19 51K	6			
CHAPEL HILL	152.41	11.4	19 12	-39			
COLUMBIA	153.79	16.0	20 4	11			
LA PAZ	154.43	190.0	20 5	11			
HUANCAYO	159.06	172.5	20 4	4			

FEBRUARY 12 18.H 17.M 9.5 EPICENTRE 5.96 95.68 DEPTH= 0.KM

A=-0.09852 B= 0.98978 C= 0.10310 D= 0.9951 E= 0.0990
G=-0.0102 H= 0.1026 K=-0.9947 HT= 7.0

SE= 4.05

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
MEDAN	3.81	128.2	1 34A	33	4 48	181		
PORT BLAIR	6.39	332.9	1 52	15	3 4	12		
CHITTAGONG	16.73	347.5	4 4K	7	6 54	-9		
MADRAS	16.81	295.7	4 9K	11	7 7	2		4 24 PP
VIZIANAGRAM	16.99	316.4	4 8K	8	7 4	-5		
CALCUTTA	17.94	337.4	4 21	9	7 27	-3		
PHU-LIEN	18.18	34.7	3 22	-53	7 45	8		
KODAIKANAL	18.52	284.4	4 28	9				
SHILLONG	19.84	349.8	5 0	25	7 59	-14		
KUNMING	20.13	18.7	4 44K	6				
BONARO	20.15	332.9	4 38	0	8 3	-17		
HYDERABAD	20.34	305.5	4 45	5	8 18	-6		5 3 PP
TOCKLAI	20.70	357.7	4 47	3	8 15	-16		
CHATRA	22.29	339.6	5 0	0				10 6
LHASA	23.96	350.0	5 20K	4	9 16	-15		15 58 SCS
POONA	24.69	302.3	5 26	3				8 22
BOMBAY	25.72	302.1	6 16	43	10 1	0		
CHENGTU	25.79	16.7	5 35K	1	9 42	-20		16 4 SCS
AGRA	26.95	323.4	6 7	23				9 57
DEHRA DUN	29.37	327.7	6 8	2				
LANCHOW	30.90	12.9	6 20K	0				
LAHORE	32.37	324.5	6 31K	-2	11 20	-27		7 41 PPP
KARACHI	33.76	309.0	6 42	-3				
WARSAK DAM	35.76	324.5	7 2K	0				
QUETTA	36.21	315.2	7 6K	0	12 25	-22		
PEKING	38.60	25.5	7 28K	2	13 6	-17		8 18
NAMANGAN	40.95	332.0	7 46	1	13 36	-22		
FRUNSE	41.24	336.3	7 47	-1				
ULAN-BATOR	42.90	11.1	8 1	0				
TANANARIVE	53.47	241.3	9 29A	5				10 30
PORT MORESBY	53.51	106.2	9 26	2	16 37	-19		
TRUK	55.77	85.0	9 38	-3				
CHARTERS TS.	56.02	118.8	9 15K	-27				14 10
SVERDLOVSK	57.74	338.1	9 51	-4	17 25	-28		
KSARA	61.73	305.2	10 21	-1				
JERUSALEM	61.86	302.8	10 22A	-1				
HELWAN	64.85	300.1	10 40K	-3				11 41
ASTRIDA	66.41	264.6	10 53K	0				
RUMANGABO	66.64	266.0	11 46K	52				
LWIRO	67.28	265.1	10 59K	1				12 16
MOSCOW	67.50	328.7	10 54	-5	19 26	-29		
MAGADAN	67.76	26.8	10 39	-22				
ISTANBUL KA.	68.53	311.8	11 1	-5				
PIETERMZBURG	71.85	236.3	11 28K	2				
ATHENS	72.15	307.9	11 17	-11				12 19
APATITY	74.15	339.3	11 35	-5				
HELSINKI	75.31	330.8	11 42	-4				
KIMBERLEY	76.33	238.6	12 2	10				
SODANKYLA	76.55	338.2	11 49	-4				
BRATISLAVA	77.97	317.9	11 57	-4				12 54

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UPPSALA	78.88	329.8	12 1K	-5	
KIRUNA	78.96	338.0	12 1	-6	
PRUHONICE	79.76	319.6	12 7	-4	
SKALSTUGAN	81.76	333.3	12 17	-5	
WINDHOEK	81.80	246.3	12 24K	2	
NORD	87.34	352.2	12 45	-5	
TAMANRASSET	87.88	292.5	12 50	-2	16 14 PP
COLLEGE	95.52	22.6			17 11 PP
SOUTH POLE	95.92	180.0	13 31	2	
RESOLUTE	99.24	2.8	13 40A	-4	14 43
HUNGRY HORSE	119.96	22.4	18 49	-3	20 19
EUREKA	126.16	30.2	19 2	-2	

FEBRUARY 12 23.H 31.M 19.S EPICENTRE 42.99 146.01 DEPTH= 0.KM

A=-0.60839 B= 0.41026 C= 0.67938 D= 0.5591 E= 0.8291
G=-0.5633 H= 0.3798 K=-0.7338 HT= -2.8

SE= 3.52

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
NEMURO	0.46	317.8	0 24K	10	0 33	10		
KUSIRO	1.18	270.2	0 28	4	0 40	-1		
ABASHIRI	1.63	310.0	0 37	7	0 54	2		
OBIHIRO	2.06	269.1	0 41	4	1 1	-2		
URAKAWA	2.53	251.7	0 47	4	1 13	-2		
KURILSK	2.61	30.3	0 55	11	1 26	9		
ASAHIGAWA	2.77	287.9	0 50	3				1 29
TOMAKOMAI	3.29	263.3			1 32	-3		1 5
SAPPORO	3.42	273.0	0 58K	2	1 33	-5		1 23
MURORAN	3.77	261.7	1 10	9	1 40	-7		
HAKODATE	4.10	254.7	1 7	1	1 45	-11		1 30
MORI	4.11	259.4	1 18	12				
HATINOHE	4.15	235.3	1 8	2	1 47	-10		
SUTTSU	4.25	269.4	1 28	20				
AOMORI	4.46	242.7	1 9	-2	1 55	-10		
MIYAKO	4.51	223.7	1 11	0	1 57	-9		
Y.-SAKHLINSK	4.60	330.7	1 19A	6	2 10	2		
MORIOKA	4.90	229.6	1 17A	0	2 4	-11		
MIZUSAWA	5.33	225.4	1 24	1	2 16	-10		
AKITA	5.51	235.7			2 25	-7		
ISINOMAKI	5.78	219.6	1 29	0	2 27	-10		
SENDAI	6.11	221.2	1 35	1	2 36	-10		
YAMAGATA	6.40	224.2	1 35	-3	2 44	-9		
UGLEGORSK	6.68	337.2	1 48	6	3 6	6		
HUKUSIMA	6.72	220.8	1 43	0	2 53	-8		
UNAHAMA	7.19	214.7			3 13	0		2 49
SHIRAKAWA	7.35	219.0			3 7	-10		2 37
MITO	7.86	214.7			3 10	-19		
UTUNOMIYA	7.98	218.3	2 0	0	3 22	-10		
KAKIOKA	8.11	215.6	1 38	-24				2 15
TUKUBASAN	8.15	215.9	2 1K	-2	3 22	-15		
MAEBASI	8.47	221.4			3 38	-7		4 2
KUMAGAYA	8.53	219.0	2 6	-2	3 37	-9		
NAGANO	8.71	226.2	2 19	9				
TOKYO C.M.O.	8.76	215.6	2 14	3	3 40	-12		
OIWAKE	8.79	223.3	2 28	16				
MATUSIRO	8.79	225.6	2 11A	-1	3 41	-11		3 17
TITIBU	8.81	219.7			3 43	-10		
YOKOHAMA	9.01	215.3	2 34	19	3 57	-1		
KOHU	9.33	220.5	2 31	12	3 57	-9		
HUNATU	9.35	219.3			3 57	-9		
MISIMA	9.58	217.2			3 58	-14		
VLADIVOSTOK	10.33	275.5	2 24	-9				
MAGADAN	16.85	8.4	4 2	3				
ULAN-BATOR	27.66	293.9	5 49	-3				
COLLEGE	42.19	35.6	8 0	4				8 34
RABAUL	47.30	171.6	8 39	2				
SVERDLOVSK	53.13	316.8	9 20	-2				
NORD	55.32	356.9	9 35	-3				
RESOLUTE	55.94	16.3	9 42A	0				
LAHORE	56.59	283.8	9 43A	-4				
APATITY	58.73	335.5	9 59	-3				
SODANKYLA	60.85	337.3	10 15	-2				
KIRUNA	62.19	339.6	10 24A	2				

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QUETTA	62.58	286.7	10 25	-3		
CHARTERS TS.	62.68	179.7	10 29K	0		13 58
MOSCOW	64.57	323.5	10 40	-1		
HUNGRY HORSE	65.07	46.4	10 47	2		
HELSINKI	66.47	332.1	10 52	-2		
SKALSTUGAN	67.62	339.5	10 59	-2		
UPPSALA	69.11	334.9	11 8A	-2		
EUREKA	69.45	54.9	11 15	3		
RAPID CITY	73.55	44.6	11 37	0		
COPENHAGEN	74.13	334.7	11 39	-1		
LWOW	74.58	325.3	11 42	-1		
KRAKOW	76.07	327.5	11 50	-1		24 32
TUCSON	77.34	57.7	12 1	3		
COLLMBERG	77.61	332.0	11 58	-2		
PRUHONICE	78.16	330.4	12 0	-3		12 37
WITTEVEEN	78.34	336.2	12 4	0		
JENA	78.41	332.5	12 2	-2		
ISTANBUL KA.	78.86	316.6	12 5	-2		
STUTTGART	81.05	332.7	12 17	-2		12 44
KEW	81.48	339.5	12 17	-4		
EBINGEN	81.64	332.5	12 19	-3		
JERUSALEM	82.28	306.5	12 25	0		
PARIS	83.12	336.7	12 29	0		
OTTAWA	84.48	28.1	12 36K	0		
SEVEN FALLS	84.54	24.3	12 37	1		
HELWAN	85.96	307.7	13 5K	21		
SOUTH POLE	132.79	180.0	19 17	-1		

FEBRUARY 12 23.H 43.M 52.S EPICENTRE 51.79-175.20 DEPTH= 50.KM

DEPTH OF FOCUS= 0.003R

A=-0.61897 B=-0.05199 C= 0.78369 D=-0.0837 E= 0.9965
G=-0.7809 H=-0.0656 K=-0.6212 HT= -6.1

SE= 1.91

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
PETROPAVLOVK	15.97	285.1	3 45	2				6 35
COLLEGE	19.23	36.6	4 22	-1	7 52	0		4 40
MAGADAN	20.50	305.6	4 37	0				8 31
SITKA	23.54	61.3	5 10	3				10 7
UGLEGORSK	27.07	281.3	5 41	1				11 8
TIKSI	31.40	329.7	6 18	-1				
HORSESHOE B.	32.48	73.3	6 28A	0				
VICTORIA	32.76	74.8	6 30A	-1	11 49	6		
HONOLULU	33.21	150.0	6 33	-2				
SEATTLE	33.82	75.6	6 54	14				
CORVALLIS	34.70	81.0	6 51	4				
TUKUBASAN	35.11	261.5	6 50A	-1				
MATUSIRO	36.05	263.6	6 59A	0	12 37	3		
SHASTA	37.39	85.9	7 11	1				
MINERAL	38.08	85.8	7 29	13				
HUNGRY HORSE	38.40	70.2	7 19	0				9 32 PCP
RESOLUTE	38.44	24.9	7 18A	-1	13 15	5		8 50 PP
KYOTO	38.58	263.9	7 22A	2				
BERKELEY	39.17	89.5	7 26	1	13 28	7		
RENO	39.67	85.5	7 30A	1				
LICK	39.88	89.6	7 31A	0				8 8
BUTTE	40.44	72.6	7 36					8 26
SASKATOON	40.80	61.4			13 44	-2		
FRESNO	41.38	88.9	7 43A	0				
BOZEMAN	41.53	72.1	7 45	1				28
EUREKA	42.08	82.9	7 49	0				13 30 SCP
SALT LAKE C.	43.83	78.6	8 4	1				8 53
PASADENA	44.09	90.5	8 5	0	14 31	-3	8 12	10 6 PCP
BOULDER CITY	44.97	86.0	8 12	0				8 43
NORD	46.36	4.3	8 23	0				
RAPID CITY	47.03	69.5	8 28	-1				
IRKUTSK	47.05	304.1	8 27	-2				
PEKING	47.48	284.0	8 32A	0	15 24	2		10 18 PP
ULAN-BATOR	48.13	298.0	8 37	0	16 8	37		
BOULDER	48.24	75.2	8 39	1				
GUAM	49.91	234.9	8 48	-3				11 4 PP
TUCSON	49.92	86.8	8 51	0	16 18	22		10 59 PCP

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ZO-SE	50.24	271.5	8	53A	0	16	3	2			9	10	*SP
NANKING	51.07	274.2	8	59A	-1	16	17	5			9	16	*SP
TRUK	51.82	223.3	9	4	-1								
LUBBOCK	54.55	79.1	9	25	-1	17	3	3			11	27	PP
CHIHUAHUA	55.38	86.5	9	31	-1								
LANCHOW	57.43	288.3				17	31	-7					
FAYETTEVILLE	57.44	71.7	9	45	-1								
APATITY	59.06	347.6	9	42	-16								
SEMIPALATNSK	59.85	314.2	10	2	-1								
SODANKYLA	60.03	350.4	10	3	-1								
KIRUNA	60.13	353.2	10	4	-1	18	12	-1			12	20	PP
KOROR	60.48	241.3	10	4	-3								
CLEVELAND	60.84	59.2	10	6	-4	18	22	0					
CANTON	60.87	270.9	10	10A	0	18	26	4			10	26	*SP
OTTAWA	61.05	52.6	10	10A	-1	18	26	1			25	24	SSS
CHENGTU	61.10	283.7	10	11	-1	18	24	-1			10	27	*SP
SHAWINIGAN	61.65	50.0	10	13A	-2								
BREBEUF	62.00	51.3	10	16A	-2	18	37	0					
SEVEN FALLS	62.15	48.4	10	18A	-1	18	40	1			10	58	PCP
SVERDLOVSK	62.43	329.1	10	20	-1	18	48	6					
MANILA	62.53	258.3	9	21	-60								
MORGANTOWN	63.00	59.7	10	25A	1	18	53	4					
SKALSTUGAN	64.83	356.3	10	35	-1								
WASHINGTON	65.07	58.4	10	38	0						13	18	PP
PALISADES	65.15	54.9	10	37	-1						13	3	PP
APIA	65.38	176.3	11	3	23								
WESTON	65.42	52.3	10	40A	0	19	19	0					
KUNMING	65.97	280.4	10	44A	0	19	30	4			13	9	PP
CHAPEL HILL	66.19	61.9	10	40	-5								
TACUBAYA	66.38	88.4	10	55	9	19	21	-10					
COLUMBIA	66.50	64.6	10	47	0								
PHU-LIEN	66.68	274.3	9	31	-77						15	8	
PULKOVO	66.90	346.3	10	46	-3	19	34	-3					
HELSINKI	67.22	349.2	10	51	0								
HALIFAX	67.34	46.0	10	51A	-1	19	41	-1			11	19	PCP
FRUNSE	68.07	312.0	10	58	1	19	58	7					
UPPSALA	68.24	353.1	10	57	-1	19	54	1			20	22	PS
PORT MORESBY	69.02	220.2	11	1	-2				11	15			
MOSCOW	69.45	340.9	11	4	-1	19	59	-9					
LHASA	69.50	292.0	11	9A	3	20	14	6			11	24	*SP
NAMANGAN	70.90	312.5	11	16	2								
COPENHAGEN	72.71	355.5	11	25	0	20	54	9			14	26	PP
CHATRA	73.85	292.8	11	30	-2								
CHITTAGONG	74.54	286.4	11	37A	1	21	11	5					
RATHFARNHAM	74.87	6.9	11	38	1						12	25	
WARSAW	75.46	349.8	11	37	-4						16	23	PP
NOUMEA	75.50	197.5	11	54	13								
WITTEVEEN	75.75	358.8	11	45	3								
POTSDAM	75.97	354.8	11	43	-1								
BERMUDA	76.50	54.6	11	52	5	21	33	6			15	52	PPP
WARSAK DAM	76.56	308.3	11	47	0								
MUNSTER	76.59	358.2	11	47	0								
HALLE	76.91	355.4	11	49	0						12	4	PCP
KEW	77.03	3.3				21	54	21			27	8	SS
COLLMBERG	77.05	354.7	11	49	-1								
LAHORE	77.14	304.9	11	49A	-1								
JENA	77.50	355.6	11	52	0						14	53	PP
PLAUEN	77.90	355.2	11	53	-2						13	22	
PRAGUE	78.19	353.7	11	58	2						12	39	
PRUHONICE	78.27	353.6	11	56	-1						15	2	PP
CHEB	78.31	355.0	11	57	0						13	27	
MAKHACH-KALA	78.63	329.5	11	59	0	21	54	4					
AGRA	78.72	299.5	11	56A	-3	21	47	-4			22	11	SKS
CHARTERS TS.	79.03	216.6	12	0A	-1						15	3	PP
KISHINEV	79.43	343.5	12	3	0	22	1	2					
IASI	79.48	344.4	12	2	-1						12	58	
STUTTGART	79.75	357.0	12	4	-1						13	29	
PARIS	79.76	1.6	12	6A	1	22	8	6					
BRATISLAVA	79.87	351.7	12	5	0						12	34	
STRASBOURG	79.98	358.0	12	7	1						13	10	
TUBINGEN	80.00	357.1	12	6	0								
SOTCHI	80.32	335.0	12	7	-1	22	10	2					
EBINGEN	80.35	357.2	12	8	0						12	47	
SIMFEROPOL	80.37	339.3	12	9	1	22	13	4					
TIFLIS	80.60	330.8	12	10	1	22	15	4					
BASLE	81.03	358.1	12	32	21						19	30	
NEUCHATEL	81.58	358.5	12	15	1								
QUETTA	81.91	309.3	12	16A	0	22	29	5			27	28	SS

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GORIS	82.14	328.8	12	22	5	22	34	7			
PORT BLAIR	82.22	278.9	12	17	-1	22	34	6	12	23	PCP
BUCHAREST	82.42	344.8	12	19	0	21	2	-88			
TRIESTE	82.64	353.7	12	19	-1				14	27	
BELGRADE	82.83	348.8	12	22A	1	22	38	4	13	50	
BRISBANE	83.72	208.1	12	39	14	22	44	1			
SOFIA	84.53	346.4	12	30	1						
FLORENCE X.	84.65	355.3	12	30	0	23	12	20	15	58	PP
MEDAN	84.81	269.2	12	32	1	22	54	1			
ISTANBUL KA.	85.14	341.8	12	33	1	23	3	6			
KARACHI	85.48	306.9	12	38	4						
ROME	86.46	354.3	12	40	1	23	20	9	29	10	SS
SERRA PILAR	86.73	10.1	12	39K	-1						
SAN JUAN	86.97	64.0	12	42	1						
GALERAZAMBA	87.69	75.6				22	22	-59			
POONA	87.85	297.5	12	45	-1	23	22	-1			
BOMBAY	88.15	298.6	12	43	-4	23	25	0			
ATHENS	89.10	345.2	12	59	8				13	28	
KSARA	90.50	334.5	12	59A	1	23	51	4	16	29	PP
ANTIGUA	90.82	60.9	12	58	-2						
MALAGA	91.50	7.4	13	3K	0						
ALGIERS UNI.	91.80	1.4	13	1	-3	24	3	5	23	29	SKS
JERUSALEM	92.61	334.4	13	9	1						
RELIZANE	92.75	3.5	13	10	2				17	0	PP
FUQUENE	92.79	77.6	13	9	0	23	41	-26	25	34	PS
BOGOTA	93.26	78.4	13	16	5	23	45	-26	25	48	PPS
HELWAN	95.42	337.1	13	20	-1	23	54	-36			
ROXBURGH	97.87	190.9				24	4	-46			
TAMANRASSET	105.76	359.3	18	18	777	24	39	0	27	53	PS
LA PAZ	113.34	87.2	18	29	-4	25	21	8	19	30	
CAPE HALLETT	124.21	185.3							27	20	SKKS
LWIRO	126.70	329.5	19	1A	3				20	59	PP
ASTRIDA	126.73	328.3	19	1A	3						
TANANARIVE	133.19	298.2	19	15	4				21	44	PP
BYRD STATION	135.28	168.2	19	13	-2				22	38	PP
SOUTH POLE	141.60	180.0	19	20	-6				22	26	PP
WINDHOEK	149.32	337.3	19	42	3						
PIETERMZBURG	150.83	309.5							20	50	PKP2
KIMBERLEY	152.57	319.4	19	52	8						
GRAHAMSTOWN	155.71	311.0	19	43	-5				20	17	

FEBRUARY 13 0.H 11.M 37.S EPICENTRE 27.62 92.53 DEPTH= 0.KM

A=-0.03921 B= 0.88645 C= 0.46115 D= 0.9990 E= 0.0442
G=-0.0204 H= 0.4607 K=-0.8873 HT= 2.6

SE= 2.67

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
SHILLONG	2.13	196.4	0	36K	1	1	2	0			0	43	PP
LHASA	2.40	327.2	0	45A	6	1	19	10					
CHATRA	4.84	261.9	1	13	-1						2	36	
CHITTAGONG	5.28	187.2	1	20	0	2	21	-1					
HOWRAH	6.33	218.0	1	27	-8	2	11	-37					
CALCUTTA	6.33	217.8	1	38	3	2	54	6			1	45	PP
BOKARO	7.15	239.6	1	45	-1								
KUNMING	9.46	103.4	2	18	-1	4	3	-3			5	17	
CHENGTU	10.48	70.5	2	32	-1	4	25	-6					
VIZIANAGRAM	12.62	223.4				5	13	-10					
LANCHOW	12.77	45.9	3	0	-4						6	47	
AGRA	12.91	271.2	3	6	1						5	42	
DEHRA DUN	12.96	285.4	3	4	-2	5	22	-9					
PORT BLAIR	15.87	179.3	3	47	3	6	49	9					
LAHORE	16.31	288.3	3	46	-4	6	42	-8					
HYDERABAD	16.48	235.0	3	44	-8	6	44	-10			7	8	SS
MADRAS	18.57	220.9	4	20	2	7	47	5			4	35	PP
WARSAK DAM	19.10	294.6	4	24	0								
POONA	19.40	246.2	4	28	0	8	6	5					
BOMBAY	20.06	248.6	4	32	-3	8	8	-7			8	20	SS
FRUNSE	21.07	320.9	4	47	1						8	45	
NAMANGAN	21.72	313.2	4	54	2								
KODAIKANAL	22.37	222.2									9	7	
QUETTA	22.53	282.6	5	2	2	9	9	7					
KARACHI	22.83	271.4	5	9	6								
PEKING	23.13	51.6	5	9	3						9	25	

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MEDAN	24.62	165.1	5	23A	2	9	43	4			
MATUSIRO	39.41	65.2	7	29	-2					12	24
TIFLIS	41.19	302.7	7	48	3						
ISTANBUL KA.	53.02	302.1	9	18	0						
APATITY	53.07	335.7	9	16	-3						
HELSINKI	55.34	325.8	9	35	0						
SODANKYLA	55.57	334.6	9	36	-1						
LWOW	55.81	313.2	9	38	-1						
KIRUNA	57.98	334.8	9	53	-1					10	7
UPPSALA	59.02	325.4	10	0	-1					11	40
SKALSTUGAN	61.34	329.8	10	16A	-1						
PRUHONICE	61.87	314.3	10	21	0					11	48
POTSDAM	62.37	317.1								13	50
HALLE	63.21	316.3	10	19	-11				10	29	10 54 PCP
TANANARIVE	63.54	228.4	10	33	1						
JENA	63.55	315.7	10	31	-1					10	43
ASTRIDA	67.40	254.3	10	58	1						
LWIRO	68.01	255.1	11	7A	7						
PARIS	69.78	315.2	11	11	0					11	40 PCP
CHARTERS TS.	70.32	126.4	11	15A	0					11	21
RELIZANE	75.92	303.1	12	4	16					13	15
COLLEGE	76.73	22.4	11	52	0					13	2
RESOLUTE	77.84	2.0	11	57A	-1						
HUNGRY HORSE	100.71	17.7	13	49	0						
SCOTT BASE	113.55	167.2								29	8
SOUTH POLE	117.46	180.0	18	45	0						
HUANCAYO	160.73	321.3	29	35	36						

FEBRUARY 13 9.H 31.M 58.S EPICENTRE 45.62 134.70 DEPTH= 0.KM

A=-0.49365 B= 0.49888 C= 0.71234 D= 0.7108 E= 0.7034
G=-0.5010 H= 0.5064 K=-0.7018 HT= -3.8

SE= 5.70

	DELTA DEG.	AZ. DEG.	P M	S	O-C S	S M	S	O-C S	*PP M	S	SUPP. M	S
VLADIVOSTOK	3.20	219.8	2	26	94						3	12
SAPPORO	5.41	115.8	1	38K	15	2	34	7				
MURORAN	5.59	123.8	1	37	11							
HAKODATE	5.81	129.2	1	38K	9	2	37	0				
TOMAKOMAI	5.85	119.6	1	45	15	2	59	21				
UGLEGORSK	6.09	52.7	2	11	38	3	29	45				
OBIHIRO	6.67	110.8	1	54	13	3	0	1				
CHANGCHUN	6.92	258.4	2	17	32							
KUSIRO	7.44	107.3	2	2	10	3	13	-5				
MORIOKA	7.60	138.9	1	55	1	3	1	-21				
MIYAKO	8.02	135.5				3	4	-29				
NEMURO	8.11	102.5	2	10	9							
SENDAI	8.67	145.7	2	4	-5	3	20	-29				
ISINOMAKI	8.71	143.3				3	19	-31				
HUKUSIMA	8.97	149.2	2	8	-5							
NAGANO	9.32	162.3	2	15	-3							
MATUSIRO	9.44	162.4	2	14K	-6	3	38	-30				
SHIRAKAWA	9.45	152.1	2	15	-5	3	37	-31				
OIWAKE	9.72	161.3	3	11	47							
ONAHAMA	9.83	149.6				3	43	-35				
UTUNOMIYA	9.86	154.9	2	20	-6						2	44
KUMAGAYA	10.10	157.9				3	50	-34				
MITO	10.20	152.7				3	48	-39				
TUKUBASAN	10.24	154.6	2	20K	-11	3	48	-40				
KAKIOKA	10.25	154.3	2	32	1	3	50	-38				
GIHU	10.33	170.5				4	1	-29			2	51
KOHU	10.40	162.3				3	56	-36				
HUNATU	10.57	161.6	2	59	24							
TOKYO C.M.O.	10.64	157.2				4	1	-37				
YOKOHAMA	10.85	158.0				4	1	-42				
MISIMA	10.97	161.4				4	6	-40			3	38
TAKAMATU	11.30	182.7	2	40	-5	4	23	-31				
MERA	11.38	158.1				4	5	-51				
PEKING	14.69	254.2	3	43	12	6	25	10				
MAGADAN	16.97	28.9				4	18	-170			7	30
ULAN-BATOR	19.14	286.9	4	38	11							
LANCHOW	25.09	258.6	5	25	-2							
LHASA	37.58	260.2	7	16	-1							
SHILLONG	39.59	254.5	7	25	-9							
CHITTAGONG	41.80	250.9	7	45K	-7	14	6	-5				

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FRUNSE	42.27	288.6	7	59	3						
COLLEGE	44.84	36.2	8	19	2						
NAMANGAN	45.06	287.6	8	21	2						
SVERDLOVSK	45.50	312.2	8	28	6						
LAHORE	48.15	275.0	8	40	-3						
NORD	52.12	354.9	9	18	4						
QUETTA	54.10	278.3	9	25K	-3						
RESOLUTE	55.55	14.2	9	39A	7						
KIRUNA	56.66	335.5	9	50	3						
UPPSALA	63.02	329.7	10	30	-1						
HUNGRY HORSE	68.85	41.8	11	3	-5						
MINERAL	70.59	51.9	11	19A	0						
BUTTE	71.22	42.8	11	16	-6						
PRUHONICE	71.55	323.9	11	24	0						
RENO	72.14	51.5	11	20A	-8						
EUREKA	74.26	49.4	11	33	-7						
STUTTGART	74.66	326.0	11	41	-2						
RAPID CITY	77.00	38.8	11	50	-6						
BOULDER	79.23	42.6	12	2	-6						
TUCSON	82.42	51.1	12	17	-8					15	34 PP
TAMANRASSET	97.76	313.8								17	35 PP
SOUTH POLE	135.43	180.0								21	56 PP

FEBRUARY 13 10.H 23.M 34.S EPICENTRE 14.35 42.01 DEPTH= 0.KM

A= 0.72018 B= 0.64860 C= 0.24628 D= 0.6692 E=-0.7431
G= 0.1830 H= 0.1648 K=-0.9692 HT= 5.9

SE= 2.23

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
HELWAN	18.32	329.2	4	18	1							
JERUSALEM	18.43	341.4	4	21	3						9	56
KSARA	20.16	345.1	4	39	0	8	34	14			5	1 PP
ASTRIDA	20.78	216.8	4	50	5							
LWIRO	21.05	219.5	4	44	-4						9	6
GORIS	25.34	7.8	5	30	0						10	17
QUETTA	27.85	51.4	5	54	1							
ISTANBUL KA.	28.91	339.5	6	0	-3							
WARSAK DAM	33.11	48.6	6	38	-2							
TAMANRASSET	35.51	289.1	7	0K	0	12	46	10			8	24 PP
NAMANGAN	37.01	38.5	7	13	0							
TRIESTE	39.25	328.3	7	32	0							
FRUNSE	39.88	38.1	7	37	0							
ALGIERS UNI.	41.24	310.0	7	48	0	14	19	16			9	25 PP
MOSCOW	41.43	356.3	7	55	5							
PRUHONICE	41.99	333.6	7	52	-2							
RELIZANE	42.77	307.5	8	2	1							
NEUCHATEL	43.73	325.3	8	7	-2							
SVERDLOVSK	44.72	14.4									15	3
UPPSALA	48.83	343.9	8	47	-2							

FEBRUARY 15 1.H 46.M 45.S EPICENTRE 43.78 147.46 DEPTH= 38.KM

DEPTH OF FOCUS= 0.001R

A=-0.61061 B= 0.38963 C= 0.68946 D= 0.5379 E= 0.8430
G=-0.5812 H= 0.3709 K=-0.7243 HT= -3.1

SE= 2.54

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
NEMURO	1.44	252.4	0	24K	0	0	41	-1			0	32
ABASHIRI	2.31	277.1	0	39	2	1	9	5				
KUSIRO	2.37	251.3	0	38A	0	1	7	1				
OBIHIRO	3.22	256.0	0	52	2	1	34	7				
ASAHIGAWA	3.68	271.8	0	59	3	1	32	-7				
URAKAWA	3.80	246.2	1	1	3	1	48	6				
WAKKANAI	4.44	293.7	1	9	2	2	13	15			1	46
TOMAKOMAI	4.48	255.7	1	12	4	2	11	12			1	26
SAPPORO	4.51	263.0	1	10K	2	2	1	1				
Y.-SAKHLINSK	4.60	315.2	1	4	-5	2	0	-2				

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MURORAN	4.97	255.3	1	21	7	2	15	4	1	16
MORI	5.33	254.0	1	22	3	2	23	3		
HAKODATE	5.35	250.4	1	19	-1	2	26	5		
SUTTSU	5.37	262.0	1	15	-5					
HATINOHE	5.47	235.6	1	21	0	2	20	-4		
AOMORI	5.77	241.4	1	26	0	2	30	-1		
MIYAKO	5.82	226.7	1	27	1	2	24	-9		
MORIOKA	6.22	231.2	1	30	-2	2	35	-8		
UGLEGORSK	6.48	326.8	1	38	2					
MIZUSAWA	6.65	227.8	1	37	-1	2	47	-6		
AKITA	6.83	236.1	1	42	1	2	50	-8		
ISINOMAKI	7.07	223.0	1	40	-4	2	54	-10		
SENDAI	7.41	224.2	1	49	0	3	5	-7	2	23
SAKATA	7.53	232.2	1	52	2	3	13	-2		
YAMAGATA	7.70	226.6	1	53	0	3	13	-7		
HUKUSIMA	8.02	223.7	1	55	-2	3	34	6		
ONAHAMA	8.46	218.5	1	59	-4	3	29	-9	3	2
SHIRAKAWA	8.64	222.1	2	4	-2	3	35	-8		
NIIGATA	8.65	230.3	3	38	92					
AIKAWA	9.04	233.6	2	11	0					
MITO	9.12	218.3	2	10	-2	3	45	-10	2	26
UTUNOMIYA	9.26	221.3	2	11	-3	3	46	-12	2	47
KAKIOKA	9.38	218.9	2	13	-3	3	51	-10	2	30
TUKUBASAN	9.42	219.2	2	11	-5	3	48	-14	8	5 PCP
TYOSI	9.52	214.5	2	13	-5					
TAKADA	9.68	229.5	2	29	9					
MAEBASI	9.77	223.9	2	19K	-2	4	5	-6		
KUMAGAYA	9.82	221.8	2	21	-1	3	4	-68		
TOKYO C.M.O.	10.03	218.8	2	27	2	4	7	-10		
OIWAKE	10.09	225.5	2	31	5					
MATUSIRO	10.10	227.5	2	22A	-4	4	12	-7	3	14
WAZIMA	10.26	235.0	2	31	3					
YOKOHAMA	10.28	218.4	2	28	0				3	17
TOYAMA	10.55	231.4	2	24	-8					
KOHU	10.63	223.0	2	33	0	4	26	-6		
MERA	10.63	216.2	2	47	14					
HUNATU	10.64	221.9	2	35	2	4	31	-1		
MISIMA	10.86	220.1	2	36	0	4	27	-10		
AJIRO	10.87	119.3	2	21	-15	4	27	-10		
OSIMA	10.95	217.5	2	56	19	4	28	-12		
SHIZUOKA	11.24	221.5				4	39	-8		
VLADIVOSTOK	11.33	272.0	2	43	0					
OMAESAKI	11.63	221.1	3	22	35					
GIHU	11.74	228.1	2	47	-1					
NAGOYA	11.81	226.8				5	5	5		
PETROPAVLOVK	11.93	34.5							3	7
TSURUGA	11.94	231.0	2	50	-1					
IBUKISAN	11.97	229.2	2	53	2					
HIKONE	12.12	229.3	2	54	1					
KAMEYAMA	12.32	227.3	3	1	5	4	33	-40		
KYOTO	12.59	229.9	2	59K	0	5	30	11		
TOYOOKA	12.74	234.0	3	1	-1					
KOBE	13.15	230.4							7	37
SUMOTO	13.56	230.2	3	10	-2				6	43
TOKUSIMA	13.93	230.2	3	16	-1					
HAMADA	14.83	238.5	3	36	7	6	32	19	7	55
KOTI	14.90	231.4	3	28	-2	6	33	19		
HIROSIMA	14.96	236.2	3	33	2	6	21	5	6	47
KLYUCHI	15.15	29.4	3	36	3					
SIMIDU	15.79	230.8	3	39	-2	6	49	14	4	41
MAGADAN	15.93	6.2	3	43	0				3	53 *SP
CHANGCHUN	15.99	277.9	3	44	0	6	39	-1		
OOITA	16.24	234.9	3	38	-9	6	27	-18		
HUKUOKA	16.72	238.2	3	57	4	7	27	30		
KUMAMOTO	17.08	235.8	3	50	-8					
MIYAZAKI	17.30	232.2	3	55	-5	7	23	13		
NAGASAKI	17.63	237.2	4	8	3					
KAGOSIMA	18.06	233.2	4	21	11				9	45
YAKUSIMA	18.92	231.0	4	21	1					
DAIREN	19.96	264.7	4	32	0					
YAKUTSK	21.04	336.4	4	37	-6	8	27	-3	4	55 *SP
PEKING	23.51	271.7	5	6A	-2	9	16	1	5	46 PP
KWANTING	23.86	272.5	5	15	4					
ZO-SE	24.29	247.4	5	15A	0	9	30	1	5	31
NANKING	25.33	252.1	5	25A	0	9	51	5	6	12 *SP
TAIYUAN	26.93	269.2	5	42	2					
PAOTOW	27.77	276.4	5	49	2					
ULAN-BATOR	28.32	292.8	5	53	1	10	39	4		

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TIKSI	29.36	348.1	5	57	-5				6	59 PP
IRKUTSK	29.69	302.0	6	3A	-2				7	3 PP
LANCHOW	34.02	272.1	6	43A	0	12	4	0	7	59 PP
CANTON	34.86	244.8	6	50A	0	12	19	2	8	11 PP
BAGUIO CITY	35.54	228.3	6	58	2	12	28	0		
TRUK	36.37	172.6	7	2	-1					
CHENGTU	36.59	263.9	7	5A	1	12	41	-3	8	33 PP
MANILA	36.85	226.0	7	5	-2	12	42	-6		
YUMEN	37.15	282.5	7	11	2					
KUNMING	40.83	257.7	7	39	-1	13	47	-1	8	11 *SP
PHU-LIEN	40.87	249.2	6	41	-59				7	24
COLLEGE	40.93	36.1	7	41	0	13	49	-1	8	30
SEMIPALATNSK	44.82	303.2	8	13	1					
NHATRANG	45.48	238.1	8	20A	2				16	15
LHASA	46.53	271.9	8	28A	2	15	12	1	10	18 PP
RABAUL	47.95	173.7	8	39	2					
SHILLONG	48.27	256.9	8	38A	-1				10	47
SITKA	48.32	45.5	8	42	2					
CHITTAGONG	50.27	263.6	8	55A	0	16	7	4	10	51 PP
CHATRA	50.93	271.5	9	2	2					
FRUNSE	51.38	296.0	9	3A	0	16	21	2	16	35 PS
PORT MORESBY	52.93	180.4	9	32	17	16	42	2	19	3 SCS
SVERDLOVSK	53.28	316.8	9	17	0	16	42	-2		
RESOLUTE	54.88	16.7	9	26	-3	17	2	-4		
DEHRA DUN	55.49	280.8	9	35	1	17	14	0		
TASHKENT	55.58	296.7	9	34	0	17	17	1	19	8 SCS
AGRA	57.35	277.7	9	47A	0	17	41	2		
STALINABAD	57.36	294.1	9	45	-2	17	39	0		
LAHORE	57.42	284.2	9	47A	0					
WARSAK DAM	57.98	288.1	9	50A	-1					
HORSESHOE B.	58.13	50.3	9	52	0					
APATITY	58.45	335.7	9	52	-3					
VICTORIA	58.51	51.2	9	55	0					
MEDAN	58.72	241.4	9	58K	1					
SODANKYLA	60.52	337.6	10	7	-2					
KIRUNA	61.82	339.9	10	15	-3					
QUETTA	63.37	287.2	10	27A	-1	18	57	1		
HUNGRY HORSE	63.76	47.4	10	30	-1				12	54 PP
MINERAL	64.18	58.1	10	43	10					
ASHKABAD	64.46	298.8	10	34A	-1				18	24
MOSCOW	64.56	323.9	10	34	-2					
BERKELEY	65.25	60.6	10	41K	1	19	20	1	27	15
POONA	65.69	272.8	10	42	-1					
RENO	65.77	57.9	10	36	-7					
KARACHI	65.96	283.3	10	52	7					
BUTTE	65.98	48.7	10	45	0				11	20
BOMBAY	66.19	273.8	10	46	0	19	47	16	13	20 PP
BOZEMAN	67.02	48.3	10	52	1					
SKALSTUGAN	67.25	340.0	10	51	-2					
FRESNO	67.47	60.3	10	55	1					
SUVA	67.85	148.1				19	57	6	20	36 PPS
EUREKA	68.13	55.9	10	58	0				38	51 PKPPKP
UPPSALA	68.84	335.4	11	1A	-2					
SALT LAKE C.	69.73	52.7	11	9	1					
PASADENA	70.16	61.5	11	11	0	20	20	2	24	57 SS
TIFLIS	70.23	309.1	11	12	1	20	22	3	11 22	20 36 PS
GORIS	70.81	306.5	11	15	0	20	29	3	21	7 SCS
BOULDER CITY	71.07	58.2	11	17	1				11	42
BRISBANE	71.09	174.8	11	18	2	20	33	4		
RAPID CITY	72.24	45.6	11	23	0	20	45	3		
SIMFEROPOL	73.64	317.2	11	31A	-1	20	57	-1	21	17 *SS
WARSAW	73.80	329.0	11	31A	-1					
COPENHAGEN	73.86	335.4	11	32A	-1					
LWOW	74.52	325.9	11	37	0				11	49 PCP
IASI	75.04	322.3	11	40A	0					
KRAKOW	75.96	328.2	11	45	0	21	26	2	11	53 PCP
TUCSON	76.02	58.8	11	45	0	21	27	3	39	56 PKPPKP
RACIBORZ	76.59	329.1	11	44	-4					
RIVERVIEW	77.31	176.9	11	55A	2	21	40	2		
HALLE	77.57	333.3	11	53	-1	21	41	0	14	41 PP
CAMPULUNG	77.65	322.4	11	58	4					
BUCHAREST	77.83	321.2	11	56A	1	21	10	-34	12	17
PRAGUE	77.95	331.2	11	47	-9				12	26
PRAGUE	77.95	331.2	11	56	0	21	47	2	12	9 PCP
PRIHONICE	77.99	331.1	11	56	0	21	46	0		
WITTEVEEN	78.03	336.9	11	57	0					
JENA	78.18	333.2	11	57	0	22	9	21	15	7 PP
DURHAM	78.35	342.3	11	57A	-1					

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PLAUEN	78.36	332.7	11	57	-1						
BUDAPEST	78.38	327.1				21	54	4		11	59 PCP
MUNSTER	78.51	336.0	11	59	0					12	14
BRATISLAVA	78.57	328.6	12	0	1	21	45	-7			
CHEB	78.65	332.4	12	1	1					13	28
TIMISOARA	78.91	324.9	12	4	3	22	1	6			
ISTANBUL KA.	79.00	317.3	12	1	-1	22	1	5			
BELGRADE	79.98	324.8	12	8A	1	22	4	-3		22	31
SOFIA	80.43	321.8	12	10	1	22	16	5		22	42
LUBBOCK	80.45	52.4	12	11	1						
RATHFARNHAM	80.70	344.4	12	11A	0					12	23
KSARA	80.78	308.3	12	13A	2	22	28	13	12 32	15	24 PP
STUTTGART	80.83	333.5	12	12A	0	22	9	-7		12	27 PCP
KARLSRUHE	80.87	334.1	12	15	3					12	37
TUBINGEN	81.08	333.5	12	13	0					12	29
KEW	81.10	340.3	12	13A	0					12	23
MELBOURNE	81.26	182.0	12	36	22						
EBINGEN	81.42	333.3	12	13	-2					12	23
STRASBOURG	81.45	334.2	12	16A	1					32	27
RAVENSBURG	81.55	332.8	12	15	0						
TRIESTE	81.93	329.2	12	15	-2	22	25	-2			
CHUR	82.39	332.4	12	20	0						
BASLE	82.44	333.9	12	20A	0						
JERUSALEM	82.65	307.4	12	22	1						
FAYETTEVILLE	82.78	45.9	12	22	0						
PARIS	82.81	337.5	12	23A	1	22	41	5			
NEUCHATEL	83.10	334.0	12	23	0						
SHAWINIGAN	83.27	26.7	12	23A	-1						
OTTAWA	83.27	29.0	12	23A	-1						
SEVEN FALLS	83.37	25.2	12	24A	-1						
BREBEUF	83.91	27.7	12	27	0						
ATHENS	84.00	318.6	12	27K	-1						
FLORENCE X.	84.46	329.8	12	30	0	23	2	10		15	48 PP
CLERMONT-FD.	85.38	335.8	12	38	3						
ROME	85.61	328.0	12	39	3	23	10	6		32	50 SSS
MONACO	85.84	332.2	12	36	-1						
HELWAN	86.30	308.6	12	40	1	23	15	5			
MORGANTOWN	86.59	34.7	12	42A	1	22	47	-26			
PALISADES	87.75	30.0	12	47	1	23	19	-5		29	23 SS
CHAPEL HILL	90.11	36.1	13	7	9						
COLUMBIA	90.86	38.5	13	2	1						
TOLEDO	92.84	338.4	13	35K	25						
ALICANTE	93.25	335.3	13	11	-1	24	15	2		18	59 PPP
ALGIERS UNI.	93.56	332.1	13	13	0					13	24
GRANADA	95.24	337.2	13	36K	15						
RELIZANE	95.31	333.5	13	20	-1						
MALAGA	95.90	337.6	13	25	1					17	11 PP
TAMANRASSET	105.12	323.9	14	7	777	25	5	-37		18	7 PP
ASTRIDA	111.58	288.0								19	3 PP
LWIRO	111.96	289.0	19	19	48					29	18
HUANCAYO	131.53	62.6	19	13	4						
BYRD STATION	133.28	166.2	19	5	-7					21	39 PP
SOUTH POLE	133.59	180.0	19	12	-1					21	45 PP
LA PAZ	139.44	59.2	19	26	2					40	15 SS
HALLEY BAY	148.05	182.8	19	43	4	26	33	-8			

FEBRUARY 16 6.H 4.M 12.S EPICENTRE 38.61 142.03 DEPTH= 59.KM

DEPTH OF FOCUS= 0.004R

A=-0.61768 B= 0.48203 C= 0.62138 D= 0.6152 E= 0.7884
G=-0.4899 H= 0.3823 K=-0.7835 HT= -1.2

SE= 2.67

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
ISINOMAKI	0.59	252.8	0	12K	-2	0	21	-4				
MIZUSAWA	0.88	306.9	0	16	-1	0	28	-2				
SENDAI	0.95	249.7	0	15K	-3	0	28	-4				
MIYAKO	1.04	357.4	0	17K	-2	0	30	-3				
MORIOKA	1.28	328.8	0	22K	0	0	39	0				
YAMAGATA	1.37	255.5	0	22	-1	0	40	-1				
HUKUSIMA	1.50	235.7	0	24A	-1	0	48	4				
SAKATA	1.75	280.4	0	29	1	0	51	1				
AKITA	1.87	307.1	0	31	1	0	55	2				
ONAHAMA	1.88	208.8	0	27K	-3	0	48	-5			0	39

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HATINOHE	1.96	348.8	0	30	-1	0	57	2		
SHIRAKAWA	2.06	224.6	0	30	-3	0	56	-2		
AOMORI	2.41	336.8	0	40	2	1	14	8		
NIIGATA	2.44	254.7	0	44	6	1	13	6		
MITO	2.55	209.7	0	37	-3	1	5	-5		
UTUNOMIYA	2.68	220.6	0	39	-2	1	11	-2	0	52
KAKIOKA	2.79	212.4	0	39	-4	1	10	-6		
TUKUBASAN	2.83	213.4	0	39K	-5	1	10	-7	8	9 PCP
TYOSI	3.03	198.5	0	44	-2	1	16	-6		
AIKAWA	3.03	260.1	0	45	-1	1	29	7		
MAEBASI	3.22	227.8	0	48A	-1	1	23	-4		
KUMAGAYA	3.24	221.6	0	46	-3	1	34	7		
HAKODATE	3.33	342.8	0	50K	-1	1	29	0		
TAKADA	3.35	244.5	0	52	1	1	30	0		
HONGO	3.41	212.7	0	52	0	7	26	355	8	2 PCP
TOKYO C.M.O.	3.44	212.7	0	50	-2	1	29	-3		
TITIBU	3.52	222.8	0	49	-4	1	33	-1		
OIWAKE	3.58	231.7	0	56	2	1	47	11		
URAKAWA	3.59	8.9	0	57	3	1	40	4		
NAGANO	3.60	238.8	0	57A	3	1	42	6		
MATUSIRO	3.66	237.0	0	54K	-1	1	40	2		
MORI	3.66	342.7	0	58	3	1	47	9		
YOKOHAMA	3.70	211.7	0	54	-2	1	35	-4	1	5
MURORAN	3.81	348.1	0	58	1	1	45	4		
TOMAKOMAI	3.93	355.1	1	7	8	1	47	3		
MATUMOTO	4.00	235.2	1	3	3	1	59	13		
HUNATU	4.05	221.1	1	3	2	1	55	7		
KOHU	4.06	224.0	1	0	-1	2	0	12		
MERA	4.08	206.3	0	58K	-3	1	47	-1		
WAZIMA	4.23	254.8	1	2	-1					
AJIRO	4.26	214.4	1	2	-2	1	48	-5		
MISIMA	4.27	216.3	1	2	-2	1	54	1		
TOYAMA	4.28	245.1	1	8	4	2	5	12		
OSIMA	4.38	209.9	1	2	-3	1	49	-7		
OBIHIRO	4.40	11.3	1	3A	-3	1	54	-2		
SUTTSU	4.41	342.5	1	14	8	2	7	11		
SAPPORO	4.49	353.6	1	9	2	2	6	8		
TAKAYAMA	4.53	238.7	1	7	0	2	4	5		
IIDA	4.56	228.8	1	8	0	2	4	4		
SHIZUOKA	4.65	219.9	1	8	-1	2	1	-2		
KUSIRO	4.72	21.6	1	7	-3	1	58	-6		
KANAZAWA	4.75	245.8	1	17	6					
OMAESAKI	5.04	218.6	1	14	-1	2	16	4	1	56
ASAHIGAWA	5.18	2.7	1	14	-2	2	14	-2		
HAMAMATU	5.20	223.1	1	28	11	2	22	6		
HUKUI	5.25	242.7	1	21	4	2	25	7		
GIHU	5.29	234.4	1	20	2	2	21	3		
NAGOYA	5.31	231.3	1	19	1	2	21	2		
NEMURO	5.43	28.5	1	18	-2	2	14	-8		
IBUKISAN	5.55	236.3	1	22K	0	2	37	12		
TSURUGA	5.60	240.1	1	23	1	2	32	6		
ABASHIRI	5.67	16.7	1	22	-1	2	45	17	1	44 PP
HIKONE	5.70	236.1	1	24	0	2	34	5		
HATIDYOZIMA	5.78	198.7	1	25	0	2	18	-13		
KAMEYAMA	5.83	231.7	1	36	11	2	36	4		
TU	5.88	230.6	1	28	2	2	49	16		
MAIZURU	6.11	241.7	1	34	5	2	42	3		
KYOTO	6.19	236.6	1	31A	0	2	40	-1		
NARA	6.34	233.7	1	34	1	2	58	12		
OWASE	6.53	227.9	1	34	-1	2	57	8		
TOYOOKA	6.53	244.2	1	36	1	2	52	3		
OSAKA	6.55	234.9	1	36	0	3	1	11		
KOBE	6.76	236.7	1	34	-4	3	4	9		
WAKKANAI	6.81	357.9							2	42
TOTTORI	6.97	246.0	1	40	-1	3	4	4		
WAKAYAMA	7.05	233.8	1	44	2	2	45	-17		
SUMOTO	7.16	235.8	1	42	-2	3	34	29	2	8
SIOMISAKI	7.22	226.5	1	48	3	3	16	10		
SAIGO	7.33	253.6	1	54	8	4	8	59		
HIMEJI	7.38	238.6	1	43	-4	2	58	-12		
TOKUSIMA	7.52	235.3	1	47	-2	3	12	-2		
OKAYAMA	7.61	241.5	1	53K	3	3	29	13		
YONAGO	7.63	248.1	1	52	1	3	25	8		
TAKAMATU	7.72	238.8	1	51	-1	3	33	14		
MATSUE	7.83	249.0	1	57	4	4	14	53		
TORISIMA	8.23	190.5	2	8	9				3	31
MUROTO	8.31	232.4	2	2	2	4	1	28		
Y.-SAKHLINSK	8.36	3.2	1	57	-3				2	13

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KOTI	8.53	236.3	2	3	0	4	6	27	3	20
HAMADA	8.81	248.2	2	10	3	3	46	0		
HIROSIMA	8.81	244.3	2	9	2	3	56	10	2	48
MATUYAMA	8.88	240.4	2	7	-1	3	54	7		
VLADIVOSTOK	8.90	303.6	2	8	0				2	20
UWAZIMA	9.37	238.0	2	14	0	4	27	28		
SIMIDU	9.38	234.5	2	12	-3	4	11	11		
OOITA	10.00	240.7	2	18	-5	4	22	7		
HUKUOKA	10.65	245.4	2	38	6	4	46	16		
KUMAMOTO	10.87	241.4	2	36	1	4	59	23		
SAGA	10.91	244.2	2	37	2	6	22	105		
MIYAZAKI	10.94	235.6	2	35	-1	5	21	44		
ITUHARA	11.17	250.7	2	38	-1					
NAGASAKI	11.49	243.0	2	44	1					
KAGOSIMA	11.73	236.7	2	50	4				6	8
TOMIE	12.33	245.1	2	54	0	5	40	29		
YAKUSIMA	12.50	232.9	2	57	0					
CHANGCHUN	13.62	297.8	3	11	0					
PETROPAVLOVK	18.50	32.9							4	35 PP
ZO-SE	18.66	252.6	4	11	-4	7	34	-3		
NANKING	20.03	258.0	4	25A	-5					
PEKING	20.04	282.2	4	26	-4	8	8	1	4	44 PP
KLYUCHI	21.66	29.0	4	47	0				8	47 PCP
MAGADAN	21.70	12.1	4	47	0				8	48 PCP
HSINKONG	23.45	234.7	5	4	0	9	20	10		
TAITUNG	23.84	234.5	5	9	1					
HENGCHUN	24.64	233.9	5	19	3					
YAKUTSK	24.64	346.0	5	13	-3				6	1 PPP
GUAM	25.15	173.8	5	31	10					
ULAN-BATOR	27.02	301.6	5	37	-1	10	13	3		
HONG KONG	28.85	243.8	5	38	-16	10	47	8	6	51 PP
CANTON	28.98	246.1	5	54	-2	10	43	2	6	53 PP
BAGUIO CITY	29.02	226.3	5	53	-3	10	42	0		
IRKUTSK	29.41	310.1	5	58A	-1				7	3 PPP
MANILA	30.30	223.6	6	5	-2	12	16	74		
LANCHOW	30.34	277.3	6	7	-1	11	7	5	7	13 PP
KOROR	31.88	194.3	6	10	-11					
CHENGTU	32.10	267.4	6	21	-2	11	32	2	13	28 SS
TIKSI	33.78	352.5	6	34	-4				8	6 PPP
PHU-LIEN	35.23	250.0	6	53	3				18	29
KUNMING	35.79	259.6	6	53A	-2	12	33	6	8	16 PP
LHASA	42.69	273.8	7	53A	1	14	19	8		
RABAUL	43.61	165.3	8	24	24					
SHILLONG	43.94	268.1	8	0A	-2	14	27	-2	17	59 SSS
SEMIPALATNSK	44.39	306.3	8	3	-3	14	33	-3	17	57 SCS
CHITTAGONG	45.64	264.2	8	15A	-1	14	55	2	10	42 PPP
CHATRA	47.01	272.5	8	27	0	15	18	5		
COLLEGE	47.51	33.0	8	29	-2	15	22	2		
PORT MORESBY	47.99	173.2	9	26	52	15	26	-1	10 25	11 58 PPP
FRUNSE	50.05	297.7	8	50A	0					10 46 PP
PORT BLAIR	51.30	252.1	9	2	2	16	16	3		
DEHRA DUN	52.46	281.5	9	19	11	16	28	-1		
MEDAN	52.61	239.6	9	8	-2					10 51
HONOLULU	53.76	90.6				16	44	-2		
TASHKENT	54.29	297.6	9	21	-1	16	58	5		20 48 SS
SVERDLOVSK	54.31	318.0	9	22	0	16	58	4		11 31 PP
LAHORE	54.74	284.7	9	24A	-1					
STALINABAD	55.77	294.7	9	30	-3					
HYDERABAD	58.82	267.9	9	57	3	18	8	15		11 55 PP
NORD	59.52	356.4	9	58	-1					
MADRAS	60.06	262.7	10	1	-2	18	16	7		12 17 PP
QUETTA	60.96	286.8	10	7A	-2	18	19	-2		19 51 SCS
RESOLUTE	60.96	14.8	10	7A	-2	18	24	3		14 0 PPP
APATITY	61.46	335.5	10	10	-2					
POONA	61.80	271.8	10	13	-1	18	49	18		
BOMBAY	62.40	272.8	10	19	1	18	41	2		12 26 PP
KARACHI	63.12	282.6	10	27A	4					
ASHKABAD	63.34	298.5	10	23	-2					
SODANKYLA	63.71	337.1	10	26	-1					
HORSESHOE B.	64.63	46.1	10	35	2					
NOUMEA	64.77	155.0	10	45	11					10 56
VICTORIA	64.99	47.0	10	33	-2					
KIRUNA	65.22	339.1	10	36A	-1					
SUVA	65.97	141.8	10	41	-1	19	26	3		10 52 PCP
MOSCOW	66.29	323.2	10	43	-1					13 3 PP
BRISBANE	66.54	169.4	10	56	11	19	31	1		
PULKOVO	67.09	329.3	10	45	-4					13 18 PP
BANFF	67.88	41.6	10	54A	0					

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SHASTA	69.77	53.7	11	3	-2						
TIFLIS	70.24	307.9	11	8	0				13	36	PP
HUNGRY HORSE	70.30	43.4	11	8	-1				38	53	PKPPKP
MINERAL	70.47	53.7	11	9K	-1						
GORIS	70.52	305.3	11	9	-1	20	36	19	21	4	SKS
SKALSTUGAN	70.63	338.6	11	9	-2				13	59	PP
BERKELEY	71.45	56.2	11	14	-1						
UPPSALA	71.76	334.0	11	16A	-1						
RENO	72.06	53.6	11	21	2						
LICK	72.15	56.3	11	19K	-1						
BUTTE	72.50	44.8	11	21	-1						
RIVERVIEW	72.56	172.1	11	24	2	20	44	3			
BOZEMAN	73.55	44.4	11	28	0						
FRESNO	73.68	55.9	11	28	-1						
EUREKA	74.49	51.8	11	33	0						
SIMFEROPOL	74.55	315.5	11	33A	-1				21	33	SKS
SALT LAKE C.	76.17	48.7	11	43	0						
PASADENA	76.31	57.3	11	45	1	21	25	3	26	12	SS
LWOW	76.40	324.0	11	44	0	21	47	24	12	0	PCP
COPENHAGEN	76.74	333.4	11	46A	0	21	42	15			
BOULDER CITY	77.35	54.0	11	50	0						
KRAKOW	78.08	326.1	11	53	-1				12	1	PCP
RACIBORZ	78.80	326.9	11	58	0				12	3	PCP
RAPID CITY	78.80	41.8	11	57	-1	21	53	4			
POTSDAM	79.11	331.0	12	9	10						
BUCHAREST	79.17	319.0	12	0	0				23	59	
ISTANBUL KA.	79.89	315.0	12	2	-1	22	0	-1			
ABERDEEN	79.91	341.1							28	48	
HALLE	80.23	331.0	12	5	0	22	14	10	14	5	
BUDAPEST	80.36	324.7							41	31	
PRAGUE	80.38	328.8	12	8	2				13	31	
PRUHONICE	80.40	328.7	12	7	1				12	36	
KSARA	80.63	305.9	12	13A	6				15	17	PP
BRATISLAVA	80.72	326.2	12	6	-2				12	21	
JENA	80.83	330.8	12	8	0				15	13	PP
PLAUEN	80.95	330.2	12	6	-3						
WITTEVEEN	81.05	334.4	12	10	0						
CHEB	81.19	329.9	12	10	0						
MUNSTER	81.43	333.5	12	11	-1						
BELGRADE	81.69	322.2	12	13K	0				22	52	SKKS
SOFIA	81.81	319.2	12	14	0	22	30	9			
DURHAM	81.90	339.7	12	0A	-14						
TUCSON	82.28	54.8	12	17	1						
JERUSALEM	82.38	304.7	12	18K	2						
STUTTGART	83.48	330.8	12	22A	0	22	48	11	12	40	PCP
KARLSRUHE	83.58	331.3	12	23	0				12	43	
TUBINGEN	83.73	330.7	12	24	1						
EBINGEN	84.05	330.6	12	25A	0						
TRIESTE	84.12	326.4	12	27	2	22	43	-1	33	44	
RAVENSBURG	84.12	330.0	12	27	2						
STRASBOURG	84.18	331.4	12	26A	0	22	48	4	23	40	SP
RATHFARNHAM	84.44	341.5	12	27K	0				12	40	
KEW	84.45	337.4	12	26	-1				23	8	PS
BASLE	85.12	331.0	12	30A	0				12	43	
NEUCHATEL	85.80	331.0	12	33	-1						
PARIS	85.86	334.5	12	35	1	23	6	5			
HELWAN	86.14	305.5	12	38	3				16	0	PP
FLORENCE X.	86.69	326.7	12	37	-1	23	23	14	16	1	PP
LUBBOCK	86.90	48.6	12	38	-1						
ROME	87.65	324.8	12	45	2	23	31	13	16	15	PP
CLERMONT-FD.	88.26	332.6	12	46	0						
MONACO	88.33	328.9	12	45	-1						
FAYETTEVILLE	89.34	42.3	12	50	-1			13	3		
SHAWINIGAN	89.68	23.2	12	51	-1						
OTTAWA	89.74	25.6	12	52	-1						
SEVEN FALLS	89.74	21.8	12	53K	0						
BREBEUF	90.35	24.2	12	56A	1						
PALISADES	94.24	26.5				24	20	3	23	34	
TOLEDO	95.94	334.4	13	28	7						
ALGIERS UNI.	95.99	328.0				23	56	-36	17	1	PP
GRANADA	98.20	332.9							32	6	SS
BERMUDA	105.13	23.2				26	4	47			
MBOUR	123.75	335.3	19	42	51				20	36	PP
SOUTH POLE	128.42	180.0	18	58	-2				19	14	
BYRD STATION	129.19	167.1	19	1	0				19	17	
HUANCAYO	137.57	61.6	19	2	-15				22	3	PP
HALLEY BAY	142.62	184.7	19	32	6				21	54	PP
LA PAZ	145.62	58.6	19	34	3				21	18	

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FEBRUARY 17 5.H 18.M 42.S EPICENTRE 36.50 70.68 DEPTH= 210.KM

DEPTH OF FOCUS= 0.028R

A= 0.26659 B= 0.76040 C= 0.59222 D= 0.9437 E=-0.3309
G= 0.1959 H= 0.5589 K=-0.8058 HT= -0.4

SE= 1.96

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KHOROG	1.23	36.7	0 33	0	0 57	-1		
KULYAB	1.57	333.1	0 36	0	1 1	-3		
OBI-GARM	2.33	340.8	0 42	-1				
KARA-SU	2.39	326.1	0 44	0	1 15	-3		
GARM	2.51	353.2	0 45	0	1 17	-3		
STALINABAD	2.55	324.0	0 46	0	1 23	2		
WARSAK DAM	2.59	163.8	0 43	-3				
ZIMCHURUD	2.71	327.2	0 47	0	1 21	-3		
DZHERGETAL	2.75	8.8	0 48	0	1 25	0		
MURGAB	3.19	53.2	0 55	2	1 35	1		
FERGANA	3.97	12.2	1 2	0				
SAMARKAND	4.31	318.4	1 6	-1				
ANDIJAN	4.45	16.8	1 8	0	2 0	-1		
NAMANGAN	4.54	9.5	1 10	1				
TASHKENT	4.94	347.7	1 15	1	2 11	-1		
LUNACHARSKOE	4.94	348.1	1 16	2	2 9	-3		
TCHIMKENT	5.85	352.1	1 26	0	2 27	-6		
NARYN	6.43	38.5	1 32	-2				
BAIRAM-ALI	6.93	281.7	1 38	-2				
QUETTA	7.03	207.4	1 40K	-1	2 58	-3		
FRUNSE	7.05	24.1	1 41	-1	2 56	-5		
RYBACHE	7.26	33.4	1 50	6				
FABRICHNAYA	7.99	31.6	1 53	-1				
ALMATA	8.30	33.5	1 58	0				2 48
PRZHEVALSK	8.44	42.6	2 0	0	3 34	1		
DEHRA DUN	8.71	132.9	2 2	-1	3 33	-7		2 6 PP
ILI	8.90	31.3	2 6	0	3 59	15		
CHILIK	9.22	37.7	2 8	-2				
ASHKABAD	9.94	282.1	2 17	-2				
KARACHI	11.08	197.3	2 45K	11	4 50	15		
AGRA	11.23	144.2	2 31	-5	4 13	-25		2 46 PPP
KIZYL-ARVAT	11.68	286.8	2 39	-2				
SEMIPALATNSK	15.52	23.4	3 28	-1				4 20 *SP
CHATRA	17.01	119.9	3 45	-2	6 52	3		
BOMBAY	17.63	173.3	3 52	-1	7 5	4		4 48 *SP
POONA	18.12	170.3	3 59K	0	7 19	9		4 13 PP
BOKARO	18.15	129.9	3 56A	-3	7 11	0		
LHASA	18.37	106.0	4 3A	2	7 20	5		4 59 *SP
MAKHACH-KALA	18.93	297.1	4 7	0	7 31	5		5 3 *SP
GORIS	19.41	286.3	4 5	-7	7 35	0		
KIROVOBAD	19.44	290.0	4 12	0	7 41	5		
HYDERABAD	20.20	158.1	4 20K	0	7 52	2		
TIFLIS	20.71	292.5	4 27	2	8 8	9	4 57	5 27
SHILLONG	21.13	115.1	4 27A	-2	8 9	3		5 29 *SP
SVERDLOVSK	21.43	344.8	4 32	0	8 13	1		5 31
TOCKLAI	22.65	108.6	4 43	-1				
CHITTAGONG	23.12	121.7	4 49A	1	8 47	6	5 21	5 28 PP
SOTCHI	24.64	296.3	5 3A	0	9 10	4	5 43	10 24 SS
MADRAS	24.91	157.5	5 8K	3	9 23	12		5 44 PP
SINING	24.93	80.4	5 8	3				
WUWEI	25.43	77.1	5 12	2				
LANCHOW	26.65	80.9	5 21A	0	9 42	3	6 7	6 27 *SP
KODAIKANAL	26.87	165.1	6 10	47	10 55	73		10 1
CHENGTU	28.28	92.1	5 36A	0	10 8	3	6 19	6 45 *SP
IRKUTSK	28.42	45.7	5 37A	0	10 10	3		6 24
KSARA	28.49	275.0	5 43	5	10 6	-2	6 22	6 38 PP
TIENSHUI	28.51	83.3	5 39	1				
YALTA	28.71	297.5	5 40A	0	10 14	2	6 24	8 38
SIMFEROPOL	28.77	298.5	5 40A	0	10 15	2	6 20	11 29 *SS
ULAN-BATOR	28.90	55.3	5 40	-1	10 14	-1		
KYAKHTA	29.13	50.3	5 42A	-1	10 19	0	6 25	6 46 *SP
MOSCOW	29.49	321.2	5 46	-1	10 24	0	6 19	11 20 *SS
JERUSALEM	29.62	271.3	5 49	1			6 31	
KUNMING	29.64	103.6	5 48	0	10 28	1		6 53 *SP
KABANSK	29.71	47.0	5 48A	-1	10 30	2		6 51 PP

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PAOTOW	30.87	70.3	6	0	1						
SIAN	31.13	82.7	5	55	-6						
PORT BLAIR	31.72	135.6	6	9	3	11	2	3		7	17 PPP
ISTANBUL KA.	32.53	291.0	6	13	0	11	13	1			
LINFEN	32.74	78.3	6	13	-2						
TATUNG	33.39	70.6	6	23	3						
HELWAN	33.42	270.2	6	24	3	11	22	-3			
IASI	33.46	302.3	6	22	1	11	26	0		7	45 PP
FOCSANI	33.67	299.6				11	25	-4		7	57 PP
BUCHAREST	34.48	297.3	6	30A	0	11	42	0	7 15	7	42 PP
PULKOVO	34.77	324.9	6	29	-3	11	43	-3	6 58	8	48 PCP
PHU-LIEN	34.98	106.6	6	34	0	11	49	0			
CAMPULUNG	35.21	298.9	6	39	3					8	41
PEKING	35.60	70.2	6	39A	0	12	3	4		8	6 PP
LWOW	35.96	306.7	6	44	2	11	52	-12		9	2 PCP
SOFIA	36.62	294.6	6	48	0	12	20	6		9	7 PCP
ATHENS	37.11	286.8	6	52A	0				7 36	8	29
HELSINKI	37.42	323.9	6	48	-6						
APATITY	37.52	337.6	6	56	1						
TIMISOARA	37.86	299.9	7	0	2	12	37	4		13	53 *SS
WARSAW	38.02	310.4	6	58A	-1	12	35	-1	8 0	9	9 PCP
SKOPJE	38.13	293.8	7	15K	15				7 56	8	52 PPP
SKALNATE PL.	38.40	305.5	7	4	2	12	43	2		8	10 *SP
BELGRADE	38.47	298.5	7	5A	2	12	44	2		8	12 PP
SZEGED	38.58	300.8	6	47	-17					9	40 PCP
KRAKOW	38.61	306.9	7	5	1	12	42	-2	7 41	8	40 PP
CANTON	39.01	98.0	7	8A	0	12	52	2		8	43 PP
BUDAPEST	39.23	302.8	7	1	-8	13	0	6		14	8 *SS
BYTOM	39.26	307.3	7	11	1						
ZABRZE	39.34	307.3	7	13	3						
KALOCSA	39.36	301.3	7	13	3					9	53 PCP
SODANKYLA	39.63	335.0	7	12	-1	13	1	1			
NANKING	39.69	81.9	7	13A	0	13	3	2	8 3	8	50 PP
RACIBORZ	39.73	306.9	7	14	1	13	9	8	7 48	8	53 PP
HURBANOVO	39.80	303.5	7	21	7	13	10	8	8 25		
HONG KONG	40.11	98.4	7	18A	1	12	40	-27		8	22 PP
BRATISLAVA	40.52	304.0	7	20	0				8 21	8	59 PP
UPPSALA	40.91	322.0	7	22A	-1	13	17	-2		8	59 PP
VIENNA-H.	41.00	304.2	7	25	1	13	16	-4	8 11	8	53 PP
ZAGREB	41.50	300.5	7	28A	0					8	33 PP
MEDAN	41.68	135.2	7	27	-2	13	26	-4			
CHANGCHUN	41.73	62.4	7	30	0						
ZO-SE	41.92	82.2	7	31A	0	13	36	3	8 14	9	16 PP
KIRUNA	41.97	334.1	7	32A	0	13	36	2	8 20	8	38 *SP
PRUHONICE	42.08	306.9	7	33	0	13	36	0	8 19	9	15 PP
PRAGUE	42.15	307.0	7	34A	1	13	38	1	8 20	9	13 PP
NHATRANG	42.20	115.0	7	34	0	13	44	7			
POTSDAM	42.90	310.5	7	40	1	13	49	1	8 28	15	1 *SS
COLLMBERG	42.99	308.9	7	40	0					10	28 PP
TRIESTE	43.07	300.6	7	40	-1	13	53	3	8 26	9	28 PCP
COPENHAGEN	43.25	315.3	7	43K	1	13	56	3	8 31	9	31 PP
REGGIO CALA.	43.26	289.4	7	43	1	13	59	6	8 28		
CHEB	43.47	307.2	7	45	1	14	0	4		9	20 PP
PLAUEN	43.58	307.8	7	40	-5	13	57	0		9	28 PP
HALLE	43.64	309.3	7	45	0	14	0	2	8 29	9	30 PP
JENA	43.91	308.5	7	48	1	14	6	4	8 31	9	29 PP
SKALSTUGAN	44.07	326.8	7	48	-1						
YAKUTSK	44.13	35.5	7	48	-1	14	3	-2		8	54 *SP
ROME	44.68	295.5	7	54A	0	14	16	3	8 48	9	46 PP
BOLOGNA	44.96	299.4	7	54	-2	14	10	-7	8 40	8	19
FLORENCE X.	45.16	298.4	7	57	0	14	20	0	8 43	17	52 SS
PRATO	45.24	298.6	7	59	1	14	22	1			
STUTTGART	45.68	305.7	8	2A	1	14	32	5	8 48	9	51 PP
CHUR	45.77	303.0	8	1A	-1					17	31
TIKSI	45.87	22.1	8	2	-1	14	30	0	8 51	15	45 *SS
EBINGEN	45.92	304.9	8	2A	-1				8 47		
KARLSRUHE	46.16	306.1	8	6A	1	14	37	3		10	0 PP
MUNSTER	46.28	310.3	7	58	-8					9	49
ZURICH	46.32	303.8	8	10	4					9	12
PAVIA	46.33	300.8	8	8A	2	14	40	3	8 55	9	59 PP
VLADIVOSTOK	46.58	62.1	8	9	1	14	50	10		16	5 *SS
STRASBOURG	46.65	305.6	8	10A	1	14	49	8	8 55	10	2 PP
WITTEVEEN	46.77	311.5	8	11	1						
BASLE	46.96	304.2	8	12K	1	14	45	0			
OROPA	47.07	301.6	8	24	12					9	41
NEUCHATEL	47.48	303.6	8	16	1	14	54	1			
DE BILT	47.76	310.7	8	18	0	15	2	5		16	18 *SS
MONACO	47.87	299.2	8	18	0					9	52 PP
BAGUIO CITY	48.36	100.9	8	23	1	15	7	2			

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MANILA	49.72	102.5	8	32	-1	15	17	-7				
PARIS	50.04	306.8	8	35A	0	15	29	1				
CLERMONT-FD.	50.34	302.8	8	37	0	15	36	4				
ABERDEEN	51.20	318.1				15	46	1				
KEW	51.23	310.7	8	43A	-1	15	45	0	9	27	17 1	*SS
DURHAM	51.32	315.0	8	45	0	15	47	1			10 45	PP
KYOTO	51.88	71.1	8	47A	-2	15	56	2				
UGLEGORSK	52.03	52.2	8	50A	0						9 18	*SP
BARCELONA	52.27	297.7				15	57	-3				
Y.-SAKHLINSK	53.01	54.7	8	57A	0				9	45	10 3	PCP
ALGIERS UNI.	53.19	292.0	8	57	-1	16	10	-1	9	42	12 10	PPP
MATUSIRO	53.20	68.3	8	57A	-1	16	13	2	9	47	10 58	PP
NORD	53.75	349.5	9	2A	-1	16	19	0			10 21	PCP
DJAKARTA	54.30	133.8				17	41	75			14 2	PCS
RATHFARNHAM	54.35	314.0	9	7A	0	16	38	11	9	52	9 29	
MIZUSAWA	54.41	64.3	9	9	2	16	31	3				
ASTRIDA	54.46	233.6	9	8K	0	16	32	4				
MAGADAN	54.54	38.0	9	7	-1						10 17	*SP
TUKUBASAN	54.73	68.0	9	7A	-3	16	30	-2	9	46	10 16	PCP
LWIRO	54.80	234.7	9	10K	0	16	34	1				
ALICANTE	55.21	295.0	9	12	-1	16	40	2				
RELIZANE	55.44	291.7	9	14	-1	16	40	-1	10	0	18 56	SCS
SCORESBY SD.	56.95	336.4	9	26A	1	17	12	11	10	33	18 29	*SS
KURILSK	56.96	55.3	9	22	-3	17	4	3	10	8	10 38	
TOLEDO	57.21	298.0	9	26A	-1	17	6	1	10	2	11 39	PP
ALMERIA	57.25	294.1	9	27K	0	17	4	-1	10	14	13 59	PCS
TAMANRASSET	57.29	275.5	9	27A	-1	17	1	-5	10	15	11 41	PP
GRANADA	57.95	294.9	9	34K	2	17	16	2			11 32	PP
MALAGA	58.72	294.7	9	36A	-2	17	23	-1			11 45	PP
REYKJAVIK	58.92	329.2	9	41	2						11 52	
TANANARIVE	59.30	205.6	9	42A	0	17	41	9	10	30	11 11	
SERRA PILAR	59.92	300.9	9	45A	-1	17	32	-8	10	34	10 55	PP
KLYUCHI	60.59	39.8	9	50A	0				10	33	18 52	
PETROPAVLOVK	60.67	43.7	9	48A	-3						12 32	
LISBON	61.30	298.6	9	55A	0	17	59	2	10	40		
RESOLUTE	68.69	355.9	10	41A	-1	19	28	1			13 48	PP
PRETORIA	73.75	219.4	11	36	23							
COLLEGE	74.56	16.0	11	17	0	20	38	4	12	9	14 24	PP
TRUK	78.51	89.2	11	38	-1				12	34	14 43	PP
SITKA	84.25	13.9	12	10	1				13	0	15 28	PP
HERMANUS	85.30	220.4				22	23	-2			22 31	SCS
RABAUL	85.65	98.4	12	14	-2							
HALIFAX	89.27	329.2				23	12	10			22 46	SKS
SEVEN FALLS	89.89	334.8	12	37	1						16 5	PP
CHARTERS TS.	90.73	114.4	12	40	0						15 55	
SHAWINIGAN	91.04	335.7	12	41K	0				13	22	16 10	PP
BANFF	92.53	3.9	12	50A	2							
OTTAWA	93.01	337.0	12	51K	0						16 35	PP
HORSESHOE B.	93.60	9.1	12	53A	0							
VICTORIA	94.43	9.3	12	57A	0							
HUNGRY HORSE	95.42	3.2	13	2	0	23	12	-44	14	0	16 52	PP
SEATTLE	95.43	8.8	13	3	1							
PALISADES	96.31	333.8	13	6	0	23	14	-49			17 2	PP
BUTTE	97.81	2.3	13	11	-1				14	3		
BOZEMAN	98.19	1.2	13	15	1				14	7		
MORGANTOWN	99.56	337.4	17	25	245							
RAPID CITY	99.61	355.5	13	21	0				14	13	17 10	PP
BRISBANE	100.17	116.5	17	37	254	23	43	-53				
MINERAL	102.70	9.6	13	34	0						17 41	PP
RENO	103.72	8.3	13	41	2						17 15	
EUREKA	104.15	5.3	13	43A	2	23	36	-93	14	38	17 57	PP
MIRNY	104.15	171.0									18 8	PP
BERKELY	105.04	10.6				24	7	3			18 1	PP
LICK	105.65	10.2									18 8	PP
FAYETTEVILLE	106.42	347.3	17	41	777						18 4	
FRESNO	106.45	8.8									17 18	
BOULDER CITY	107.71	4.7	14	0	777						17 9	PKP
PASADENA	109.23	7.8	17	50	777						18 37	
LUBBOCK	109.93	353.4	18	14	777							
TUCSON	111.59	1.4	18	12	3						13 58	P
SAN JUAN	111.85	315.5	18	57	47							
SUVA	114.64	94.9									19 18	PP
VERA CRUZ	123.22	345.1									20 24	PP
TACUBAYA	123.59	348.5	19	3	31	25	18	5			20 20	PP
SOUTH POLE	126.31	180.0	18	27	-11	25	24	3	19	33	20 27	PP
BOGOTA	127.48	313.5	18	42	2						21 11	PP
BYRD STATION	136.18	177.4	18	50	-6				20	1	22 17	PP
LA PAZ	138.49	287.6	19	4A	3						21 52	PP

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HUANCAYO 140.93 299.8 19 2 -3 20 0 22 12 PP

FEBRUARY 18 7.H 34.M 9.S EPICENTRE -20.80-173.85 DEPTH= 0.KM

A=-0.93024 B=-0.10026 C=-0.35300 D=-0.1072 E= 0.9942
G= 0.3510 H= 0.0378 K=-0.9356 HT= 4.5

SE= 2.05

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
APIA	7.23	16.2	1	44	-6	3	2	-12					
SUVA	7.75	288.6	2	2A	5	3	54	28					
NOUMEA	18.39	261.8	4	17K	-1	7	49	8					
BRISBANE	30.88	251.0	6	19	-1	11	11	-13					
RABAUL	36.92	291.9	7	7	-6								
PORT MORESBY	39.22	280.8	7	28	-4	13	9	-24			16	33	SSS
MELBOURNE	39.36	235.3	7	31	-2								
CAPE HALLETT	52.31	186.1				16	53	12			19	15	
BYRD STATION	63.72	170.9	10	36	0	19	13	3					
SOUTH POLE	69.33	180.0	11	10	-1								
MATUSIRO	72.81	321.3	11	31	-1	20	57	-1			12	15	
LICK	75.89	40.5	11	51A	1								
PASADENA	76.10	44.9	11	51	0						12	23	
FRESNO	76.66	41.9	11	55	0								
MINERAL	77.87	38.2	12	1A	0								
RENO	78.40	39.7	12	5	1								
BOULDER CITY	79.39	45.0	12	10	0								
UGLEGORSK	79.87	332.3				22	24	9					
TUCSON	80.08	50.0	12	14	1						13	4	
EUREKA	80.71	41.6	12	18	1								
VLADIVOSTOK	80.80	323.0				22	32	7					
HONG KONG	82.25	297.3	12	26	1	22	45	5			16	27	PP
NANKING	83.13	307.9	12	30	1								
SALT LAKE C.	84.03	42.4	12	34	0						13	11	
CHANGCHUN	85.05	320.6	12	40	1								
MAGADAN	85.13	342.8									15	5	
BUTTE	86.55	37.7	12	47	1								
HUNGRY HORSE	87.09	35.3	12	48	-1						16	26	PP
COLLEGE	87.72	10.8	12	52	0								
PEKING	88.87	313.8	12	58	0	23	53	9			23	26	SKS
RAPID CITY	91.22	42.9	13	12	4						16	53	PP
KUNMING	92.99	295.5	13	18	1	24	31	10			23	53	SKS
CHENGTU	93.95	301.2				24	37	8			23	55	SKS
LANCHOW	96.08	306.2	13	31	0	24	54	6			24	10	SKS
LA PAZ	98.25	111.1				24	26	-40					
RESOLUTE	107.01	15.8									37	51	SS
QUETTA	124.88	292.9	19	4	2								
TIFLIS	141.36	311.5									22	43	PP
ASTRIDA	147.22	227.6	19	48	5								
LWIRO	148.11	226.7	19	49	4						21	13	PP
KRAKOW	148.83	342.7	19	52	6						20	35	
HALLE	149.02	353.0	19	51	5						20	54	
COLLMBERG	149.09	351.6	19	51	5								
RACIBORZ	149.26	344.7	19	53	7						19	58	PKP2
PRUHONICE	150.13	349.1	19	54	6						21	19	
KSARA	150.69	302.5	19	57	8						23	43	PP
JERUSALEM	151.82	298.8	19	58	8						20	38	
STUTTGART	151.99	355.7	20	1	10						20	23	PKP2
EBINGEN	152.59	355.9	20	2	11								
TAMANRASSET	177.94	16.5	20	17	5						22	7	PKP2

FEBRUARY 18 13.H 21.M 22.S EPICENTRE -30.57-178.65 DEPTH= 0.KM

A=-0.86226 B=-0.02036 C=-0.50606 D=-0.02 E= 0.9997
G= 0.5059 H= 0.0119 K=-0.8625 HT= 1.6

SE= 2.58

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
ONERAHI	7.82	226.6	1	58	1	3	24	-4					
KARAPIRO	8.77	211.7	1	59	-12	3	58	7					
TONGARIRO	9.85	207.5	2	31	5								
WELLINGTON	11.94	204.7	2	56	2	5	23	14					

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COBB RIVER	12.60	211.3	2	56	-7						
SUVA	12.65	347.2	3	7K	3	5	40	14			
NOUMEA	15.67	298.2	3	45K	2	5	54	16			
ROXBURGH	17.67	208.8							4	9	
BRISBANE	24.93	270.0	5	25	-1	9	54	7			
RIVERVIEW	25.72	254.8	5	36	3	10	8	7			
MELBOURNE	30.81	246.5	6	19A	0				9	28	
CHARTERS TS.	33.30	280.1	6	41	0						
RABAUL	38.02	307.9	7	16	-5						
PORT MORESBY	38.19	296.2	7	25	2	13	5	-12	9	44	PCP
CAPE HALLETT	42.21	185.0	7	57	1	14	24	7	9	43	PP
BYRD STATION	54.87	169.5	9	37	3	17	14	-1	19	30	SCS
PERTH	55.23	250.4	9	38	1	17	33	13	13	1	
SOUTH POLE	59.60	180.0	10	4	-4						
DJAKARTA	73.56	272.5	12	18	42						
BAGUIO CITY	74.81	299.8	11	45	1						
MATUSIRO	78.07	325.8	11	58A	-4	21	51	-5	22	46	SCS
HONG KONG	83.18	300.7	12	26A	-3	22	59	10	15	38	PP
ZO-SE	83.81	311.5	12	32	0	23	3	8	22	53	SKS
PETROPAVLOVK	85.66	346.5	12	40	-1						
NANKING	85.97	310.9	12	42	-1	23	23	7	16	8	PP
PASADENA	86.00	46.3	12	43	0	23	11	-6			
BERKELEY	86.07	41.3	12	46	2	23	16	-1			
VLADIVOSTOK	86.22	326.1	12	43	-1						
UGLEGORSK	86.69	335.4	12	48	1						
PHU-LIEN	88.05	295.4	13	49	56				15	52	
TUCSON	89.59	51.7	13	1	1						
CHANGCHUN	90.03	323.1	13	4	1						
EUREKA	90.81	43.4	13	4	-2						
PEKING	92.65	315.8	13	12	-3	24	23	5	23	46	SKS
MAGADAN	93.28	345.0							17	1	
KUNMING	93.41	297.0	13	19	1	24	31	7			
CHENGTU	95.39	302.4	13	27	0	24	49	8	14	18	PP
COLLEGE	98.12	12.8	13	40	0	24	44	-20	27	44	PPS
LA PAZ	98.46	114.7	13	42A	1	24	28	-39	17	42	PP
COLOMBO	103.35	270.2							18	14	PP
MADRAS	106.02	275.8	18	31	777				27	58	
BOMBAY	114.99	278.0	18	43	0				29	22	
DEHRA DUN	115.20	291.6	19	49	66				29	30	
RESOLUTE	117.57	17.3	18	43	-5				29	47	PS
PALISADES	119.79	57.5							20	18	PP
NAMANGAN	123.40	301.4							20	22	
LWIRO	138.17	223.7	19	21A	-6				27	28	
MAKHACH-KALA	141.47	301.8	19	30	-3						
TIFLIS	143.54	300.0	19	33	-3						
SKALSTUGAN	146.25	351.2	19	38	-3						
SOTCHI	147.04	304.0	19	45	3						
UPPSALA	148.74	344.2	19	46	1						
KSARA	150.68	285.5	19	50	2				23	35	PP
HELWAN	154.12	276.1	19	51	-2				23	50	PP
MBOUR	156.68	129.7	19	58	2				24	16	PP
ROME	165.58	324.7	20	7	1				24	56	PP
MESSINA	166.03	306.8	20	6	0				24	55	PP
TAMANRASSET	171.39	206.6	20	10	0				25	19	PP
MALAGA	172.22	36.5	18	16A	-114	25	28	-104	21	40	PKS
ALGIERS UNI.	173.66	347.6	20	10	-1				21	38	PKP2

FEBRUARY 18 19.H 8.M 6.S EPICENTRE 20.97 120.39 DEPTH= 0.KM

A=-0.47282 B= 0.80617 C= 0.35572 D= 0.8626 E= 0.5059
G=-0.1800 H= 0.3068 K=-0.9346 HT= 4.4

SE= 3.52

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
BAGUIO CITY	4.53	177.7	1	7	-4							
MANILA	6.38	174.9	1	38	0	2	55	3				
CANTON	6.92	289.0	1	39	-6	2	58	-8				
KUNMING	16.80	287.3	4	1	3	7	15	10				
KOROR	19.22	132.8	4	18	-10							
PEKING	19.34	350.2	4	29	-1	8	7	4				
LANCHOW	20.90	319.6	4	49	3	8	44	9			5	33
MATUSIRO	21.97	41.2	4	56A	-1	8	54	-2				
TSUKUBASAN	22.96	44.3	5	3	-4							
VLADIVOSTOK	24.10	21.0	5	19	1							

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CHITTAGONG	26.58	278.3	5	43	1	10	16	1			
LHASA	27.85	294.0	5	55	2	10	40	4		8	7
DEHRA DUN	39.10	292.6	8	10	39						
RABAUL	39.96	125.1	7	37	-1						
PORT MORESBY	40.03	136.3	7	42	4						
LAHORE	42.36	294.2	7	54	-4						
POONA	43.76	275.2	8	6	-3						
MAGADAN	44.22	21.7	8	13	0						
BOMBAY	44.64	276.0	8	22	6					16	54
WARSAK DAM	44.85	297.5	8	15	-3						
NAMANGAN	45.64	307.3	8	23	-1						
CHARTERS TS.	47.95	146.5	8	40K	-2						
QUETTA	48.70	292.2	8	43	-5						
BRISBANE	57.59	145.4	9	56	2					10	50
MELBOURNE	62.89	158.3	10	34K	4						
FORT NELSON	68.26	159.0	11	11K	6						
MOSCOW	68.90	323.0	11	9	0						
COLLEGE	71.99	26.7	11	27	-1						
SODANKYLA	72.29	336.1	11	35	6						
KIRUNA	74.47	337.2	11	49	7						
NORD	75.45	354.1	11	44	-4						
UPPSALA	78.30	329.8	12	9	6						
TANANARIVE	81.58	246.1	12	18	-3						
RESOLUTE	81.95	8.9	12	21K	-2						
PRUHONICE	83.86	321.3	12	30	-3						
HALLE	84.67	323.4	12	32	-5						
JENA	85.14	323.0	12	43	4					12	58
PARIS	91.27	324.2	13	8	-1					13	12 PCP
HUNGRY HORSE	95.61	33.0	13	27	-2						
TAMANRASSET	103.05	300.7								18	0 PP
SOUTH POLE	110.84	180.0	18	31	-4					19	24

FEBRUARY 18 19.H 48.M 43.S EPICENTRE 20.58 120.18 DEPTH= 0.KM

A=-0.47105 B= 0.80995 C= 0.34941 D= 0.8644 E= 0.5027
G=-0.1757 H= 0.3020 K=-0.9370 HT= 4.5

SE= 2.93

	DELTA	AZ.	P	O-C	S	O-C	*PP		SUPP.	
	DEG.	DEG.	M	S	S	M	S	S	M	S	M	S
HENGCHUN	1.51	20.4	0	28	0	0	46	-3				
KAOHSIUNG	2.03	2.3	0	50	14	1	2	0				
TAITUNG	2.34	22.5	0	38	-2	1	4	-6				
TAINAN	2.41	0.8	0	36	-5	1	21	9				
HSINKONG	2.74	23.5	0	45	-1	1	14	-6				
ALISHAN	2.98	11.0	0	48	-1	1	22	-4				
TAICHUNG	3.58	7.3	0	53	-5							
HWALIEN	3.63	21.3	0	56	-3	1	24	-19				
BAGUIO CITY	4.15	174.7	1	7	1							
HSINCHU	4.26	9.7	1	6	-2							
ILAN	4.42	18.9	1	16	6	1	46	-17				
TAIPEI	4.60	15.3	1	18	6	2	8	0				
HONG KONG	5.86	288.1	1	31	1							
MANILA	6.01	172.6	1	35	3	2	55	12				
CANTON	6.88	292.5	1	41	-4							
ZO-SE	10.52	4.7	2	34	-1							
NANKING	11.49	354.1	2	46	-2							
KAGOSIMA	14.36	38.3	3	41	14						6	15
KUMAMOTO	15.38	35.4	3	35	-5	6	49	17				
SAGA	15.50	33.4	4	26	45							
HUKUOKA	15.82	33.0	3	44	-2							
OOITA	16.20	36.6	3	56	6							
SIMONOSEKI	16.38	33.4	3	52	-1							
KUNMING	16.74	288.7	3	59	2	7	9	6				
SIAN	16.88	326.1	4	11	12							
LINFEN	17.23	335.7	4	5	2							
KOTI	17.53	39.8	4	12	5	7	19	-3				
CHENGTU	17.68	307.8	4	9	0	7	27	2			4	28 PP
HAMADA	17.70	33.8	4	15	6						8	22
DAIREN	18.30	3.6	4	18	1							
TAIYUAN	18.37	340.6	4	20	2							
TAKAMATU	18.38	39.0	4	17	-1	7	56	15				
SIOMISAKI	18.87	44.0	4	26	2							
TIENSHUI	18.89	320.6	4	25	1							
SUMOTO	18.90	40.4	4	24K	0	7	59	6			4	44

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KOROR	19.11	131.5	4 26	-1	8 5	8	
KOBE	19.30	40.2	4 30	1			
OSAKA	19.50	40.8	4 32	1	7 50	-16	
PEKING	19.69	350.8	4 32A	-1	8 12	2	
KYOTO	19.87	40.4	4 31A	-4	8 14	0	
KAMEYAMA	20.21	41.9	4 41	2	8 29	8	
TATUNG	20.33	344.6	4 42	2			
HIKONE	20.35	40.6	4 42	1	8 30	6	
IBUKISAN	20.50	40.6	4 43	1			
NAGOYA	20.73	42.0	4 45	0			
GIHU	20.75	41.2	4 43	-2			
HUKUI	20.89	39.0	4 45	-1			
LANCHOW	21.07	320.6	4 49K	1	8 41	2	5 13 PP
OMAESAKI	21.18	45.0	4 47A	-2			
IIDA	21.49	42.5	4 51	-1			
SHIZUOKA	21.52	44.4	4 53	0	8 54	7	
PAOTOW	21.74	338.7	4 56	1			
TOYAMA	21.88	39.1	4 57	1			
MISIMA	21.97	44.8	4 50	-7	9 1	5	
KOHU	22.03	43.2	5 1	3	9 3	6	
MATUMOTO	22.05	41.1	4 59	1			
HUNATU	22.08	43.8	4 59	1	9 8	10	
MATUSIRO	22.39	40.9	4 57A	-4	9 1	-2	
MERA	22.45	46.4	5 10	8	9 22	18	
OIWAKE	22.46	41.8	5 11	9			
NAGANO	22.46	40.6	5 7	5	9 11	6	
TITIBU	22.57	43.2	4 59	-4			
YOKOHAMA	22.62	45.1	5 11	7	9 37	30	7 11
MAEBASI	22.83	42.3	5 9	3			7 33
TOKYO C.M.O.	22.83	44.7	5 6	0			9 28
KUMAGAYA	22.87	43.2	5 8	2	9 27	15	
WUWEI	23.02	322.5	5 1?	3			
IUKUBASAN	23.38	44.0	5 5	-6	9 10	-11	5 24 PP
UTUNOMIYA	23.43	43.0	5 7	-5	9 21	-1	7 17
CHANGCHUN	23.58	9.3	5 12	-1	9 24	0	
MITO	23.71	44.1	5 19	5			
SHIRAKAWA	24.00	42.3	5 12	-5			
IOCKLAI	24.05	289.7	5 29	11			
VLADIVOSTOK	24.53	21.0	5 21	-1			
MIZUSAWA	25.81	39.7	5 32	-2	9 49	-13	
MORIOKA	26.20	38.7	5 35	-3			
CHITTAGONG	26.44	279.0	5 41	1	10 14	1	
SHILLONG	26.49	286.2	5 41K	0	10 17	3	6 22 PP
MEDAN	26.91	233.9	5 47A	3	10 27	7	
PORT BLAIR	27.79	255.7	5 48	-5	10 43	8	6 42 PP
LHASA	27.83	294.7	5 56K	3	10 39	4	
ULAN-BATOR	29.31	341.6	6 8	2	10 54	-5	
CALCUTTA	29.65	279.6	6 7	-2	11 7	2	
DJAKARTA	29.65	207.7	6 6A	-3	11 36	31	
CHATRA	30.80	288.1	6 17	-3	11 24	1	
BOKARO	31.95	282.3	6 44	14	11 49	8	
UGLEGORSK	33.39	26.4	6 44	2			
IRKUTSK	33.95	342.5	6 47	0	12 5	-7	
MADRAS	38.95	265.3	7 30	1	13 32	3	9 9 PP
AGRA	38.97	288.0	7 24	-6	13 36	7	8 56 PP
DEHRA DUN	39.07	293.0	7 39	9	13 29	-1	
HYDERABAD	39.51	272.7	7 34K	0	13 37	0	9 13 PP
PORT MORESBY	39.89	135.7	6 38	-59	13 40	-3	12 55
RABAUL	39.90	124.5	7 35	-2			
COLOMBO	41.32	256.6	7 48	-1	14 20	16	
KODAIKANAL	42.33	262.5	8 1	4			
LAHORE	42.34	294.6	7 56	-1			
SEMIPALATNSK	43.26	323.2	8 4	-1	14 23	-10	
POONA	43.60	275.6	8 6	-1	14 41	3	9 50 PP
PETROPAVLOVK	43.87	32.7	8 7	-3			
FRUNSE	44.05	310.9	8 12	1			
BOMBAY	44.49	276.4	8 14	-1	14 50	0	10 2 PP
MAGADAN	44.65	21.7	8 13	-3			
WARSAK DAM	44.85	297.9	8 18	0			
NAMANGAN	45.72	307.6	8 26	1	15 8	0	
CHARTERS TS.	47.74	146.0	8 42K	2			
QUETTA	48.67	292.5	8 48	0	15 51	1	
TIKSI	51.31	3.5	9 5	-3			
SVERDLOVSK	56.43	325.3	9 44	-2			
BRISBANE	57.39	145.1	9 52	0	17 47	-1	
RIVERVIEW	61.63	150.9	10 22A	0	18 43	0	
MELBOURNE	62.60	158.0	10 27K	-1			
MAKHACH-KALA	63.77	308.6	10 37	1			

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TIFLIS	65.88	307.5	10	49	-1					
FORT NELSON	67.97	158.8	11	4A	1				11	33
MOSCOW	69.09	323.1	11	9	-1					
SOTCHI	69.34	310.0	11	10	-1	20	13	-5		
COLLEGE	72.42	26.6	11	29	-1				14	2 PP
SODANKYLA	72.56	336.1	11	29	-2					
KSARA	74.27	300.6	11	41	0	21	22	8	14	30 PP
KIRUNA	74.75	337.2	11	43	-1					
HELSINKI	74.93	329.0	11	43	-2					
JERUSALEM	75.33	298.7	11	48	1					
NORD	75.81	354.0	11	47	-3					
ISTANBUL KA.	77.59	309.3	11	57	-2					
LWOW	78.40	318.9	12	6	2					
UPPSALA	78.53	329.8	12	3K	-2	22	4	3	12	14 PCP
HELWAN	79.08	297.8	12	8K	0	22	8	1		
KRAKOW	80.82	320.0	12	30	13				12	37 PCP
TANANARIVE	81.25	246.1	12	20	1				13	32
RACIBORZ	81.84	320.5	12	21	-1					
RESOLUTE	82.36	8.9	12	24A	-1	22	34	-7	27	53 SS
BRATISLAVA	83.25	319.0	12	28	-2					
PRUHONICE	84.04	321.3	12	35	1	22	57	-1	15	56 PP
PRAGUE	84.07	321.4	12	40	6					
COLLMBERG	84.36	322.9	12	35	0					
HALLE	84.87	323.4	12	37	-1				13	1
JENA	85.33	323.0	12	41	1				15	43
STUTTGART	87.70	321.8	12	51	-1	23	41	8		
MESSINA	88.36	310.3	12	56	1	23	37	-2	16	22 PP
RATHFARNHAM	93.14	331.1	13	54	37					
HUNGRY HORSE	96.04	33.0	13	30	0					
TAMANRASSET	103.08	300.6	13	55	-7	25	48	2	18	21 PP
SOUTH POLE	110.45	180.0	18	33	-1					
BYRD STATION	115.25	170.4	18	43	0					
FUQUENE	150.73	29.3	20	0	12					
BOGOTA	151.31	30.7	20	2	13				20	24
LA PAZ	171.13	64.1	20	13K	3				25	21 PP

FEBRUARY 19 10.H 33.M 3.S EPICENTRE 39.07 74.86 DEPTH= 0.KM

A= 0.20329 B= 0.75145 C= 0.62769 D= 0.9653 E=-0.2611
G= 0.1639 H= 0.6059 K=-0.7785 HT= -1.3
SE= 3.09

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
MUNGAB	1.01	226.5									0	20	PG
NARYN	2.51	19.9	0	45	2						1	18	S*
ANDIJAN	2.55	312.0	0	46	3						1	23	S*
FERGANA	2.71	299.8	0	49	3	1	21	1					
DZHERGETAL	2.84	274.2	0	51	3						1	30	S*
KHOROG	3.02	239.3	0	57	7						1	40	S*
NAMANGAN	3.11	308.9	0	53	2						1	41	S*
RYBACHE	3.50	14.9	0	59	2						1	48	S*
GARM	3.55	270.3	1	0	2						1	55	S*
FRUNSE	3.81	356.9	1	3	2						1	59	S*
OBI-GARM	4.05	266.4	1	7	2						2	16	SG
KULYAB	4.15	255.3	1	9	3						2	18	S*
FABRICHNAYA	4.27	15.3	1	10	2						2	16	S*
PRZHEVALSK	4.34	37.1	1	12	3						2	17	S*
ALMATA	4.48	19.9	1	13	2						2	21	S*
ALMATA-2	4.60	23.5	1	15	2						2	35	SG
KURMENTY	4.74	31.9	1	15	0								
STALINABAD	4.79	265.7	1	19	4						1	32	
LUNACHARSKOE	4.80	299.8	1	14	-1						2	41	SG
TASHKENT	4.83	299.5	1	15	-1						2	33	SG
TCHIMKENT	5.14	310.6	1	20	0						1	39	
ILI	5.15	18.1	1	22	2						2	39	S*
CHILIK	5.23	29.6	1	23	1						1	35	
LAHORE	7.51	183.5	1	54	0	3	24	3			3	58	
DEHRA DUN	9.11	162.3	2	21	5	4	1	1					
BAIRAM-ALI	10.12	265.7	2	27	-3						3	23	
QUETTA	11.00	218.7	2	40	-2	4	44	-3					
SEMIPALATNSK	11.95	16.9	2	56	1								
AGRA	12.20	166.6	2	54	-4						6	34	
ASHKABAD	12.98	270.2	3	5	-4	5	26	-9					
KIZYL-ARVAT	14.45	275.7	3	23	-5	5	48	-22					

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KARACHI	14.75	208.8	3 42	10						
CHATRA	15.97	136.2	3 41	-7					6 57	
LHASA	16.32	120.3	3 55	3	7 7	13				
BAKU	19.23	281.8	4 34	6						
SHILLONG	19.65	128.2	4 28	-5						
SVERDLOVSK	20.09	336.8	4 33	-5					10 27	
CALCUTTA	20.11	141.2			8 20	0				
BOMBAY	20.18	185.6	4 44	5	8 27	6				
POONA	20.49	182.7	4 42	0	8 37	10				
MAKHACH-KALA	20.97	289.5	4 45	-2					8 38	
HYDERABAD	21.79	170.7	4 51	-5					9 11	
KIROVOBAD	21.89	283.5	4 55	-2					8 56	PCP
GORIS	22.06	280.2	4 56	-2					8 57	PCP
CHITTAGONG	22.07	134.1	4 58	0	8 55	-3				
TIFLIS	22.99	286.3	5 8	0					5 49	PPP
LANCHOW	23.10	88.3	5 10	1	9 17	1				
IRKUTSK	24.26	47.4	5 17	-3					9 47	
ULAN-BATOR	24.72	58.6	5 32	8	9 50	6				
KYAKHTA	24.94	52.7	5 29	3						
CHENGTU	25.26	100.4	5 30	1	10 0	6				
KABANSK	25.53	49.0	5 34	2					10 5	
MADRAS	26.39	168.3			10 29	17				
SOTCHI	26.65	291.1			10 4	-12			8 45	
KUNMING	27.28	112.5	5 52	4						
KODAIKANAL	28.81	174.7			11 1	10				
YALTA	30.61	293.5			10 52	-28				
KSARA	31.62	272.7	6 28	1					7 30	PP
APATITY	36.51	334.7	7 6	-3						
HELWAN	36.75	269.1	7 10	-1						
SODANKYLA	38.79	332.6	7 26	-2						
YAKUTSK	40.11	36.8			13 42	-4				
UPPSALA	41.02	319.7	7 45	-2						
KIRUNA	41.19	332.0	7 46	-2						
TIKSI	42.24	22.4	7 54	-3	14 12	-6			9 40	PCP
PRUHONICE	43.26	305.1	8 3	-2					9 39	PP
SKALSTUGAN	43.80	325.0	8 7A	-2					9 49	PP
COPENHAGEN	43.82	313.5	8 9	-1						
COLLMBERG	44.02	307.2	8 19	8						
HALLE	44.64	307.6	8 14	-2					9 57	
JENA	44.97	306.9	8 16	-3					10 3	PP
STUTTGART	46.93	304.4	8 33	-1						
STRASBOURG	47.89	304.5	8 41	-1						
MATUSIRO	49.21	71.9	8 50A	-2						
MAGADAN	50.47	39.8	9 1	-1						
NORD	51.84	349.2	9 9A	-3						
TAMANRASSET	60.32	276.3	10 10	-3						
RESOLUTE	66.33	357.0	10 49	-4						37 21
COLLEGE	71.14	17.8	11 20	-3						
CHARTERS TS.	88.85	116.9	12 58	0						
SEVEN FALLS	88.89	337.4	12 56	-2						
SHAWINIGAN	89.97	338.3	13 1	-2						
HUNGRY HORSE	92.60	5.9	13 14	-1						
RAPID CITY	97.21	358.6	13 35	-1						
SOUTH POLE	128.88	180.0	19 8	-2						
BYRD STATION	138.56	176.2	19 27	-1						

FEBRUARY 19 19.H 25.M 32.S EPICENTRE -7.77 107.55 DEPTH= 86.KM

DEPTH OF FOCUS= 0.008R

A=-0.29873 B= 0.94484 C=-0.13430 D= 0.9535 E= 0.3015
G= 0.0405 H=-0.1281 K=-0.9909 HT= 6.8

SE= 2.27

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
BANDUNG	0.88	353.5	0 11	-8				
LEMBANG	0.94	4.5	0 19	-1				
DJAKARTA	1.73	335.7	0 31K	2				
MEDAN	14.33	321.6	3 16K	-4	5 56	-1		
NHATRANG	19.93	4.8	4 29	2	8 16	14		
PERTH	25.27	163.3	5 18	-2				6 14
MANILA	25.90	31.0	5 34	8	9 17	-30		
BAGUIO CITY	27.28	28.2	5 39	1				
PHU-LIEN	28.40	358.2	5 49	0	10 18	-10		
HONG KONG	30.58	12.1	6 7A	-1	11 36	34		7 16 PP

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KOROR	30.76	61.5	6	8	-2	11	10	5				
CANTON	31.17	10.2	6	15	2	11	16	5			7	19 PP
COLOMBO	31.21	297.1	6	17	4	11	12	0				
KUNMING	32.96	351.9	6	30A	1	11	48	9			7	44 PP
CHITTAGONG	33.68	333.1	6	31	-4	11	52	1				
MADRAS	34.13	307.0	6	39	0	12	1	3			7	53 PP
KODAIKANAL	34.88	300.4	6	51A	6	12	12	3			8	6 PP
VIZIANAGRAM	35.04	317.4	6	50	4	12	20	8				
CALCUTTA	35.51	328.4	6	36	-14	12	15	-4				
SHILLONG	36.48	335.8	6	55A	-4	12	33	-1			14	49 SS
TOCKLAI	36.48	340.6	7	21	22							
BOKARO	37.92	326.5	7	9A	-2	12	55	-1				
HYDERABAD	38.13	311.2	7	13A	1	13	2	3			8	29 PP
CHENGTU	38.36	355.1	7	14A	0	13	5	3			8	50 PP
PORT MORESBY	39.18	95.3	7	22	1	13	19	4	7	34	9	34 PCP
CHARTERS TS.	39.40	112.1	7	24K	1						9	32
CHATRA	39.67	330.8	7	18	-7	13	17	-5				
LHASA	40.44	337.6	7	31A	-1	13	38	5			9	7 PP
ZO-SE	40.80	18.0	7	37A	3	13	45	6			9	15 PP
NANKING	41.03	14.6	7	39A	3	13	50	8			9	18 PP
POONA	42.28	308.5	7	47	0	14	3	2			9	22 PP
BOMBAY	43.29	308.1	7	56	1	14	22	7			9	44 PP
LANCHOW	43.76	355.6	8	0A	1	14	27	5			9	47 PP
RABAUL	44.51	88.1	8	3	-2						8	45
AGRA	44.97	321.6	8	6A	-2						8	46
MELBOURNE	45.16	137.3	8	10A	0	14	50	8			9	38
NAGASAKI	45.55	26.7	8	14	1	14	52	4				
TAIYUAN	45.57	5.6	8	15	2							
TRUK	46.70	72.1	8	23	1						10	6 PP
BRISBANE	47.24	120.4	8	27A	1	15	17	5				
DEHRA DUN	47.29	324.6	8	26	-1	15	11	-2			9	57 PP
RIVERVIEW	47.80	129.2	8	30A	-1	15	24	4				
PEKING	48.22	8.9	8	35A	1	15	32	6			10	32 PP
FORT NELSON	49.44	141.8	8	42K	-1						9	7
KYOTO	50.20	30.3	8	47A	-2							
LAHORE	50.37	322.6	8	47A	-3	15	55	-1			10	9 PCP
KARACHI	51.62	311.7	8	58A	-2							
MATUSIRO	52.65	31.1	9	6A	-2	16	55	28			11	21 PP
TUKUBASAN	53.39	32.8	9	10K	-3				9	18	10	20 PCP
CHANGCHUN	53.82	15.9	9	16	0	16	46	3			19	3 SCS
QUETTA	54.24	316.0	9	18A	-1	16	50	2			11	26 PP
SENDAI	55.34	31.7	9	27	0						9	50
ULAN-BATOR	55.45	359.5	9	28	0	17	11	7				
NOUMEA	58.36	111.3	9	48	-1						10	43
NAMANGAN	58.65	328.7	9	49	-2	17	49	2				
FRUNSE	58.66	332.1	9	49	-2	17	44	-3				
TANANARIVE	59.18	252.7	9	54K	0						10	43
MIRNY	59.54	186.7	9	55A	-2	17	59	1				
IRKUTSK	59.87	357.7	9	59	0	18	8	6				
SEMIPALATNSK	62.59	340.7	10	16	-1	18	34	-3				
UGLEGORSK	64.17	24.5	10	28	0	19	0	3				
MAKHACH-KALA	74.22	318.6	11	30	1	20	56	1				
PETROPAVLOVK	74.47	29.1	11	31	0	21	3	6				
CAPE HALLET	74.54	163.6	11	40	10							
SVERDLOVSK	74.94	335.4	11	35	1	21	3	0				
PIETERMZBURG	75.05	241.5	11	34	0							
MAGADAN	75.40	21.1	11	37	1	21	11	3				
IIFLIS	75.48	316.6	11	38	1	21	13	4				
SCOTT BASE	76.19	169.2	11	42A	1							
PRETORIA	77.12	245.4	11	55	9							
ASTRIDA	77.59	269.0	11	49A	1							
LWIRO	78.55	269.3	11	55A	1	21	51	9				
JERUSALEM	79.29	304.3	11	59K	1						12	11
KSARA	79.33	306.5	12	1A	3	21	57	7	12	15	15	5 PP
SOTCHI	79.66	316.8	12	0	0	21	54	1				
KIMBERLEY	79.99	242.2	12	1	-1							
TIKSI	80.48	6.7	12	4	0	22	0	-2				
HELWAN	82.04	301.6	12	13A	1	22	20	2				
SOUTH POLE	82.28	180.0	12	12	-2	22	17	-4			15	32 PP
MOSCOW	85.31	327.8	12	30	1	22	57	6				
ISTANBUL KA.	86.46	312.1	12	34	0	23	31	29				
WINDHOEK	87.47	247.7	12	41A	2							
KISHINEV	88.01	317.8	12	42	0	23	20	4				
IASI	88.89	317.8	12	45	-1	23	46	22			13	7
BYRD STATION	89.17	172.7	12	48	1	23	16	-11			13	6
BUCHAREST	89.32	314.9	12	49	1	23	38	10				
ATHENS	89.89	308.2	12	51A	0						13	3
PULKOVO	90.28	330.4	12	50	-3	23	42	5				

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«PATITY	91.14	338.3	12	56	-1						
LWOW	91.72	319.9	13	1	2	23	47	-3			
SODANKYLA	93.63	337.5	13	8	0						
RACIBORZ	95.48	319.7	13	10	-6				16	54	
BRATISLAVA	96.02	317.7	13	21	2				16	36	
KIRUNA	96.05	337.6	13	19A	0				13	31	
UPPSALA	96.62	329.5	13	21A	-1				17	19	PP
PRUHONICE	97.82	319.4	13	28	1				17	27	PP
PRAGUE	97.90	319.5	13	38	11	25	9	26	17	0	PP
SKALSTUGAN	99.25	333.2	13	34A	0				16	41	
HALLE	99.51	320.9	13	35	0	24	23	-33	17	38	PP
JENA	99.74	320.3	13	29	-7				17	35	PP
STUTTGART	101.30	318.1	13	43	0				17	52	PP
TUBINGEN	101.39	317.9							17	52	PP
MUNSTER	102.19	321.4							15	29	
STRASBOURG	102.25	318.0	17	24	217				17	58	PP
NORD	102.40	352.8	13	47A	-1						
NEUCHATEL	102.86	316.4							17	51	PP
COLLEGE	103.20	25.1	13	52	1				17	52	PP
TAMANRASSET	104.02	291.5	13	56	1				18	13	PP
RATHFARNHAM	110.35	324.2							29	50	
RESOLUTE	111.90	6.3	18	23	-2	25	3	4	19	12	PP
MINERAL	125.59	45.3	18	54A	2						
HUNGRY HORSE	126.48	33.4	18	41	-12				15	58	P
LICK	126.68	48.8	18	57	3						
RENO	127.18	45.6	18	58	3						
FRESNO	128.26	48.8	19	1	4						
BUTTE	128.64	35.1	19	0	2				22	12	PKS
BOZEMAN	129.70	34.6	19	3	3				22	21	PKS
EUREKA	129.88	44.0	18	51	-9				22	22	PKS
SALT LAKE C.	131.99	40.4	19	7	3				22	28	PKS
BOULDER CITY	132.25	47.6	19	8	4				22	31	PKS
RAPID CITY	134.98	31.4	19	11	2				22	39	PKS
TUCSON	136.85	50.3	19	18	5				21	55	PP
SEVEN FALLS	140.77	358.2	19	14	-6				22	21	PP
SHAWINIGAN	141.36	0.3	19	17K	-4				22	21	PP
BREBEUF	142.40	1.3	19	20K	-3	26	26	4			
OTTAWA	142.41	3.8	19	20K	-3						
HALIFAX	142.49	349.6	19	23K	0						
LUBBOCK	142.63	42.5	19	23	0						
HARVARD	145.39	358.8	19	31	3						
CLEVELAND	145.48	12.1	19	31	3						
WESTON	145.52	358.5	19	7K	-21						
WESTON	145.52	358.5	19	7K	-21						
FAYETTEVILLE	145.52	32.0	19	34A	6				19	47	
PITTSBURGH	146.79	10.5	19	36A	5						
PALISADES	146.87	2.0	19	36	5				35	53	PPS
GUADALAJARA	147.52	63.5	19	40	8				20	0	
MORGANTOWN	147.57	10.8	19	42A	10						
WASHINGTON	148.73	6.9	19	39	5						
IACUBAYA	151.60	63.3	19	45	7	26	55	20	23	8	PP
COLUMBIA	152.72	15.7	19	43	3						
VERA CRUZ	154.37	61.3	19	52	10				20	28	
LA PAZ	155.51	190.1	19	48A	5	26	58	19	24	0	PP
MERIDA	158.86	49.9	20	28	40				21	28	
HUANCAYO	160.10	171.7	19	54	5				24	42	PP
SAN JUAN	167.79	330.3	19	56	0				24	51	PP
BOGOTA	176.48	152.7	20	5	5	26	32	-20	32	21	SKKS
FUQUENE	177.39	150.9	20	2	2	26	21	-31	25	52	PP

FEBRUARY 20 3.H 57.M 43.S EPICENTRE 20.98 120.08 DEPTH= 0.KM
A=-0.46840 B= 0.80864 C= 0.35595 D= 0.8653 E= 0.5012
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SE= 2.15

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
BAGUIO CITY	4.56	174.0									1	8	P*
MANILA	6.42	172.2	2	14	36	3	11	18					
CANTON	6.65	289.6	1	38	-4								
ZO-SE	10.13	5.4	2	46	16								
NANKING	11.08	354.3	2	56	13								
NHATRANG	13.57	231.8	3	17	0								
SIAN	16.49	325.6	3	57	3								

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KUNMING	16.52	287.5	4	0	5					
CHENGTU	17.37	306.9	4	5	-1					
TAIYUAN	17.96	340.4	4	17	4					
TIENSHUI	18.53	320.0	4	21	1					
PEKING	19.28	350.9	4	30K	1					
LANCHOW	20.70	320.1	4	45K	0					
MATUSIRO	22.15	41.7	5	0A	1	8	47	-12	5	29
WUWEI	22.65	322.0	5	7	3					
TUKUBASAN	23.16	44.7	5	5	-4				5	28
CHANGCHUN	23.20	9.6	5	11	1					
VLADIVOSTOK	24.19	21.5	5	21	2				9	31
CHITTAGONG	26.29	278.2	5	39	0	10	16	5		
SHILLONG	26.29	285.4	5	38K	-1				10	26
MEDAN	27.07	233.2	5	46K	0	11	19	56		
LHASA	27.57	294.1	5	52K	1	10	34	2		
ULAN-BATOR	28.90	341.5	6	3	0	11	21	28		
CHATRA	30.59	287.4	6	13	-5	11	24	4		
BOKARO	31.78	281.6							11	15
MADRAS	38.89	264.8	7	30	1	13	34	6		
PORT MORESBY	40.24	136.0	7	47	7					
LAHORE	42.09	294.2	7	54	-2					
POONA	43.47	275.1	8	7	0					
PETROPAVLOVK	43.59	33.0	8	7	-1				17	33
FRUNSE	43.71	310.7	8	10	1					
MAGADAN	44.32	21.9	8	13	-1					
BOMBAY	44.35	275.9	8	15	1	14	54	5	18	14
NAMANGAN	45.40	307.3	8	24	2	15	10	6		
CHARTERS TS.	48.12	146.1	8	41K	-3					
QUETTA	48.43	292.2	8	45	-1	15	51	4	10	35 PP
TIKSI	50.92	3.6	9	3	-2	16	18	-4		
SVERDLOVSK	56.05	325.2	9	42	-1				17	8
BRISBANE	57.77	145.2	9	52A	-3				14	41 SCP
MAKHACH-KALA	63.44	308.5	10	29	-5				20	3
MOSCOW	68.72	323.0	11	6	-2					
APATITY	69.54	335.8	11	11	-2					
COLLEGE	72.11	26.6	11	27	-1					
SODANKYLA	72.15	336.1	11	27	-2					
KSARA	73.99	300.5	11	41	2					
KIRUNA	74.34	337.1	11	41A	0					
JERUSALEM	75.06	298.6	11	46	0					
UPPSALA	78.14	329.8	12	2	-1					
HELWAN	78.81	297.7	12	7	1				12	37
TANANARIVE	81.32	246.0	12	20	0					
RESOLUTE	81.98	8.9	12	22K	-1	22	37	0		
PRUHONICE	83.67	321.3	12	32	0					
HALLE	84.49	323.4	12	36	0					
JENA	84.95	323.0	12	37	-2				13	19
STUTTGART	87.33	321.8	12	49	-1					
VICTORIA	90.65	36.5	13	5	-1					
HUNGRY HORSE	95.75	32.9	13	30	1					
BYRD STATION	115.66	170.4	18	55	10					
LA PAZ	171.04	61.6	20	13	3					

FEBRUARY 20 4.H 38.M 34.S EPICENTRE 20.70 120.34 DEPTH= 0.KM

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SE= 2.73

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
BAGUIO CITY	4.26	176.9									1	9	P*
MANILA	6.12	174.2	1	33	-1	2	40	-5					
CANTON	6.97	291.2	1	40	-6						2	50	
ZO-SE	10.39	4.0	2	32	-1								
NANKING	11.39	353.4	2	56	9								
PHU-LIEN	12.83	272.9									5	52	SS
NHATRANG	13.60	233.4	3	16	0								
KUNMING	16.84	288.2	3	59	0	7	19	13					
SIAN	16.86	325.6	3	59	0								
LINFEN	17.18	335.1	4	15	12								
CHENGTU	17.73	307.3	4	8	-2	7	31	5					
TAIYUAN	18.31	340.1	4	20	3								
TIENSHUI	18.90	320.1	4	24	0								
KOROR	19.08	132.1	4	25	-1								
PEKING	19.60	350.4	4	31	-1	8	9	1			8	21	

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	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
KWANTING	19.89	349.3	4	33	-3								
TATUNG	20.26	344.2	4	45	5								
LANCHOW	21.07	320.2	4	47	-1	8	41	2					
YINCHUAN	21.48	328.6	4	53	1								
PAOTOW	21.68	338.3	4	54	0								
MATUSIRO	22.20	40.9	5	OK	0	9	1	1					
WUWEI	23.02	322.1	5	11	4								
TUKUBASAN	23.19	44.0	5	5	-4								
CHANGCHUN	23.44	9.1	5	11	0								
VLADIVOSTOK	24.37	20.8	5	21	1								
CHITTAGONG	26.57	278.8	5	44	3	10	17	2					
SHILLONG	26.60	285.9	5	39K	-3								9 5 PCP
MEDAN	27.10	234.0	5	49	3	9	30	-54					
LHASA	27.91	294.5	5	54	0	10	38	1					
ULAN-BATOR	29.25	341.3	6	6	0	11	26	28					
CHATRA	30.91	287.9	6	15	-5								
PORT MORESBY	39.87	136.0	7	38	1								
POONA	43.73	275.5	8	8	0								
MAGADAN	44.49	21.6	8	15	0								
BOMBAY	44.62	276.3				14	52	-20					
WARSAK DAM	44.93	297.7	8	17	-1								
NAMANGAN	45.76	307.5	8	24	-1	15	11	2					
CHARTERS TS.	47.75	146.3	8	41K	0								
QUETTA	48.76	292.4				15	49	-2					
TIKSI	51.18	3.5	9	5	-2	16	19	-6					
SVERDLOVSK	56.42	325.3	9	45	0								
MOSCOW	69.09	323.1	11	8	-2								
APATITY	69.89	335.9	11	12	-3								
COLLEGE	72.25	26.6	11	28	-1						14	0	PP
SODANKYLA	72.51	336.1	11	29	-1								
KSARA	74.34	300.6	11	50	9								
KIRUNA	74.70	337.2	11	42	-1								
JERUSALEM	75.41	298.7	11	48	1						11	56	
UPPSALA	78.50	329.8	12	3	-1						12	11	
HELWAN	79.15	297.8	12	8	0						12	36	
SKALSTUGAN	79.37	334.4	12	6	-3								
TANANARIVE	81.43	246.1	12	30A	10								
RESOLUTE	82.22	8.9	12	23A	-1								
PRUHONICE	84.04	321.3	12	34	0								
HALLE	84.86	323.4	12	37	-1						12	59	
JENA	85.32	323.0	12	38	-2						13	2	
VICTORIA	90.73	36.6	13	6	0								
HUNGRY HORSE	95.86	33.0	13	30	1						16	50	PP
EUREKA	100.34	40.9	13	51	1						17	16	PP
TAMANRASSET	103.15	300.7									18	20	PP
SOUTH POLE	110.57	180.0	18	34	0								
BYRD STATION	115.34	170.4	18	48	4								
HUANCAYO	162.69	62.6	20	8	5								
LA PAZ	170.95	63.9	20	13	3						20	46	

FEBRUARY 22 10.H 50.M 26.S EPICENTRE 50.32-175.49 DEPTH= 0.KM

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	DELTA DFG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
PETROPAVLOVK	16.24	290.0	3	48	-1						3	54	PP
COLLEGE	20.54	34.4	4	37A	-3	8	32	7			38	47	PKPPKP
MAGADAN	21.24	308.7	4	46	-1						8	44	
SITKA	24.44	58.5	5	20A	1								
UGLEGORSK	27.21	284.0	5	46	1						6	13	
NEMURO	27.29	270.3	5	47	1	10	51	28					
KUSIRO	28.22	270.6	5	53	-1	10	41	3					
WAKKANAI	28.84	277.0	6	47	47								
OBIHIRO	29.01	271.4	6	3	2								
SAPPORO	30.13	273.0	6	13	2	11	40	32			12	57	
MURORAN	30.74	272.0	6	16	-1								
AOMORI	31.64	269.6	6	36	11								
KIPAPA	31.96	148.1	6	28	1						7	28	PP
MORIOKA	32.00	267.5	6	28	0								
HONOLULU	32.04	148.3	6	29A	1	11	38	0			7	30	PP
ALBERNI	32.22	71.9	6	30	0								
MIZUSAWA	32.35	266.7	6	34	3	12	49	66					

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TIKSI	32.58	330.9	6 30	-3	11 38	-9		7 42 PP
HORSESHOE B.	33.11	71.0	6 39	2				
VICTORIA	33.36	72.5	6 39K	-1	12 0	1		
HIKUSIMA	33.57	265.2	6 39	-2				
NIIGATA	34.38	266.6	8 11	83				
SEATTLE	34.40	73.4	6 50	2	11 27	-48		7 50 PP
UTUNOMIYA	34.67	264.0	6 50	-1				12 42
TIKUBASAN	34.73	263.3	6 44K	-7	12 18	-2	6 50	8 11 PP
CORVALLIS	35.15	78.8	6 57K	2				
KUMAGAYA	35.23	263.9	6 52	-4				10 14
HONGO	35.26	262.9	6 51	-5	12 37	9		
MAEBASI	35.28	264.5	6 59	3				
TOKYO C.M.O.	35.29	262.9	6 53	-3	12 15	-14		
YOKOHAMA	35.51	262.6	7 3	5				8 45
TITIBU	35.53	263.9	6 49	-9				
OIWAKE	35.65	264.8	6 59	0				
NAGANO	35.67	265.6	7 0	1				
MERA	35.71	261.8	7 6	6				
MATUSIRO	35.73	265.4	6 59K	-1	12 37	2		8 20 PP
HUNATU	36.02	263.5	7 1	-1				
KOHU	36.07	263.9	7 3	0				
MATUMOTO	36.07	265.2	7 2	-1				
WAZIMA	36.07	267.6	7 0	-3				
OSIMA	36.09	262.0	7 3	0				
VLADIVOSTOK	36.12	279.3	7 7	4	12 44	2		
MISIMA	36.15	262.9	7 5	2				
TOYAMA	36.29	266.4	7 6	1				
SHIZUOKA	36.59	263.1	7 12	5				
IIDA	36.61	264.3	7 10	3				
OMAESAKI	36.94	262.8	7 23	13	13 12	18		
BANFF	37.03	64.8	7 11K	0				
HUKUI	37.28	266.3	7 15	2				
GIHU	37.36	265.1	7 12	-2				8 41
NAGOYA	37.38	264.6	7 17	3				
IBUKISAN	37.62	265.4	7 15	-1				
HIKONE	37.77	265.4	7 19	2				
UKIAH	38.05	86.5	7 18K	-1	14 24	73		7 50 PP
KYOTO	38.26	265.5	7 22A	1	13 17	3		
MINERAL	38.40	83.7	7 23K	1	13 44	28		
OWASE	38.56	263.9	7 8	-16				
OSAKA	38.62	265.2	7 18	-6				9 13
KOBE	38.83	265.5	7 25	-1				17 16
HUNGRY HORSE	39.10	68.3	7 28K	0				38 57 PKPPKP
SUMOTO	39.23	265.4	7 27	-2				9 32
SIOMISAKI	39.24	263.5	7 30	1	13 31	2		
BERKELEY	39.39	87.4	7 31K	0	13 37	6		
BRANNER	39.71	88.0	7 34K	1				
RESOLUTE	39.85	24.2	7 34K	0	13 38	0		9 11 PP
CHANGCHUN	39.90	284.3	7 33	-2	13 41	2		9 9 PP
SANTA CLARA	39.90	87.9	7 40A	5	13 45	6		
RENO	39.99	83.6	7 37K	1				
LICK	40.10	87.7	7 37K	1	13 46	4		
KOTI	40.60	265.5	7 42	1	13 42	-7		9 22 PP
BUTTE	41.08	70.8	7 44K	-1				
FRESNO	41.62	87.0	7 50K	1				
SASKATOON	41.69	59.8	8 50	61	14 6	0		17 10 SS
SIMONOSEKI	42.01	268.1	7 52	0				
BOZEMAN	42.17	70.4	7 52K	-1				9 10
EUREKA	42.47	81.1	7 56K	0	13 57	-20		39 43 PKPPKP
SAGA	42.86	267.8	8 4	5				
KUMAMOTO	42.88	267.0	8 0	1				
MIYAZAKI	43.01	265.4	8 0	0	14 38	9		
KAGOSIMA	43.80	265.7	7 45	-22				10 16
PASADENA	44.28	88.8	8 11	0	14 43	0		9 53 PCP
SALT LAKE C.	44.32	76.9	8 11K	0				8 58
BOULDER CITY	45.28	84.3	8 19K	0				8 53
PEKING	47.67	285.1	8 36K	-2	15 34	2		10 29 PP
IRKUTSK	47.73	305.1	8 37	-1	15 30	-3		10 31 PP
RAPID CITY	47.73	68.1	8 37K	-1	15 50	17		10 30 PP
NORD	47.84	4.1	8 39	0	15 38	4		10 23 PCP
ULAN-BATOR	48.67	299.0	8 50	5	15 53	7		
BOULDER	48.82	73.7	8 47	1				
GUAM	48.92	235.6	8 43	-4				
TATUNG	49.41	287.0	8 49	-2				
ZO-SE	50.11	272.5	8 55K	-1	16 12	6		10 56 PP
TUCSON	50.21	85.4	8 57K	0	16 8	1		10 54 PP
TRUK	50.63	223.8	9 0A	0				10 15 PCP
NANKING	51.00	275.2	9 1K	-2	16 16	-2		

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PAOTOW	51.10	289.4	9	3	-1						
YINCHUAN	54.69	289.6	9	23	-8						
LUBBOCK	55.02	77.8	9	31	-2	17	4	-9		10	36 PCP
CHIHUAHUA	55.67	85.3	9	34	-4	17	20	-2		25	54
SIAN	55.80	284.1	9	43	4						
LANCHOW	57.72	289.0	9	52K	0	17	54	5		12	8 PP
SCORESBY SD.	58.00	10.2	9	54K	0						
FAYETTEVILLE	58.09	70.6	9	52	-3				10 2	10	38 PCP
FLORISSANT	58.57	65.9	9	57K	-1	18	2	2		18	10 SP
YUMEN	58.94	296.9	9	54	-7						
KOROR	59.62	241.8	10	4K	-2	18	8	-5		10	47 PCP
LITTLE ROCK	60.08	70.6	10	7	-2						
APATITY	60.46	347.7	10	13	2						
HONG KONG	60.70	270.2	10	10K	-3	18	26	-1		13	8 PP
CANTON	60.72	271.5	10	12	-1	18	31	3			
SEMIPALATNSK	60.75	314.7	10	10	-3	18	25	-3			
BAGUIO CITY	60.92	260.5	10	14	0	18	30	0			
RABAUL	61.03	217.6	10	14	-1						
CHENGTU	61.27	284.3	10	15K	-2					12	33 PP
KIRUNA	61.57	353.2	10	17K	-2	18	37	-1		12	36 PP
CLEVELAND	61.76	58.3	10	21K	1	18	44	3			
MANILA	62.05	258.8	10	26	4					18	50
OTTAWA	62.10	51.8	10	21K	-1	18	49	4		12	43 PP
SHAWINIGAN	62.75	49.2	10	25K	-2	18	45	-8		12	49 PP
BREBEUF	63.08	50.5	10	26K	-3	18	59	2			
SEVEN FALLS	63.27	47.7	10	29K	-1	19	4	4		12	50 PP
PITTSBURGH	63.35	58.2	10	34K	3						
SVERDLOVSK	63.60	329.4	10	32	0					12	57 PP
MORGANTOWN	63.91	58.9	10	34K	0	19	7	-1			
APIA	63.92	176.0	10	44	10						
REYKJAVIK	64.04	12.5	10	34	-1						
GEORGETOWN	66.00	57.7	10	50	2	19	33	-1		24	7 SS
WASHINGTON	66.00	57.7	10	46A	-2	19	35	1		13	18 PP
KUNMING	66.06	280.8	10	46K	-2	19	38	4		13	18 PP
PALISADES	66.16	54.2	10	49	0	19	37	2		11	17 PCP
HARVARD	66.26	51.6	10	49	0						
SKALSTUGAN	66.28	356.2	10	48K	-2	19	40	3		39	20 PKPPKP
FORDHAM	66.29	54.3	10	49K	-1	19	43	6			
WESTON	66.48	51.6	10	51K	0	19	42	3		23	54 SS
PHU-LIEN	66.62	274.7	10	49	-3	19	46	5			
TACUBAYA	66.62	87.5	10	50K	-2	19	22	-19		13	11 PP
CHAPEL HILL	67.05	61.2	10	53	-2						
COLUMBIA	67.31	63.9	10	55K	-1					39	17 PKPPKP
PORT MORESBY	67.77	220.3	10	58	-1	19	56	1		11	51
PULKOVO	68.29	346.3	10	58	-4	19	55	-6		13	29 PP
SUVA	68.37	186.2	11	2A	-1	20	6	4		13	43 PP
HALIFAX	68.50	45.4	11	2K	-2	20	7	3		13	37 PP
VERA CRUZ	68.73	85.3	10	58	-7					25	36
FRUNSE	68.92	312.2	11	6K	0	20	12	3		13	35 PP
BERGEN	69.64	359.6	11	6	-5	20	19	2		13	38 PP
UPPSALA	69.67	353.0	11	9K	-2	20	17	-1		39	8 PKPPKP
TOCKLAI	69.74	287.6	11	52	41						
LHASA	69.89	292.3	11	12	0	20	27	7		12	46 PP
MOSCOW	70.78	340.9	11	17	-1	20	34	4		13	35 PP
NHATRANG	71.31	266.6	11	19	-2					18	31
MERIDA	71.58	79.3	11	26	4	20	46	6			
SHILLONG	72.37	288.8	11	24K	-3	20	52	3		15	52 PPP
TASHKENT	72.60	314.4	11	28	0	20	53	2		14	6 PP
ABERDEEN	72.74	3.8	11	34A	5	21	1	8		11	54
COMITAN	73.46	84.4	11	34	1	20	58	-3			
NOUMEA	74.04	197.4	11	38	1					12	23
COPENHAGEN	74.17	355.3	11	38	0	21	12	3			
CHATRA	74.25	293.0	11	28	-10						
CHITTAGONG	74.78	286.6	11	40K	-1	21	16	0		14	19 PP
STALINABAD	75.05	313.0	11	42	-1	21	12	-7			
DURHAM	75.16	3.6	11	41A	-2	21	21	1		12	1 PCP
RATHFARNHAM	76.36	6.6	11	49K	-1	21	41	8		12	3
CALCUTTA	76.78	289.2	11	53	1	21	38	0			
DEHRA DUN	76.79	301.6	11	55	2	21	42	4		14	49 PP
WARSAW	76.87	349.7	11	51K	-2	21	42	3		14	52 PP
WITTEVEEN	77.22	358.7	11	56	1						
BOKARO	77.32	291.9	12	11	15	22	11	27			
POTSDAM	77.42	354.6	11	56	0	21	50	5		16	44 PPP
BERMUDA	77.51	54.1	12	3K	6	21	52	6		14	55 PP
CHARTERS TS.	77.74	216.6	11	58	0						
LAHORE	77.83	304.9	11	57	-1						
MUNSTER	78.06	358.0	12	0	0					21	55
HALLE	78.36	355.3	12	0	-1	21	56	1		15	0 PP
COLLMBERG	78.50	354.6	12	3	1	22	2	6		15	7 PP

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KEW	78.51	3.1	12	1K	-1	21	59	3		22	48	PS
LWOW	78.84	347.3	12	4	0	22	3	3		15	5	PP
DABROWA	78.95	350.5	12	6	2							
JENA	78.95	355.4	12	4	0	22	6	5		14	59	PP
KRAKOW	79.15	349.9	12	5	-1	22	7	4		15	10	PP
AGRA	79.28	299.6	12	6K	0	22	1	-4		15	26	PP
RACIBORZ	79.30	351.1	12	6	0					12	16	PCP
PLAUEN	79.35	355.0	12	5	-2	22	9	4		15	11	PP
SONNEBERG	79.52	355.6	12	8	0	22	11	4		12	30	
PRAGUE	79.63	353.5	12	8	0	22	12	4		12	29	PCP
PRUHONICE	79.71	353.4	12	8	-1					15	12	PP
CHEB	79.76	354.9	12	9	0	22	12	2		15	13	PP
SKALNATE PL.	79.97	349.6	12	6	-4	22	18	6				
ASHKABAD	80.16	319.6	12	11K	0	22	21	7		15	15	PP
IASI	80.84	344.3	12	15	0					12	34	
KARLSRUHE	81.00	357.4	12	17K	2	22	30	7		15	26	PP
STUTTGART	81.21	356.9	12	17K	0	22	31	6		15	26	PP
PARIS	81.24	1.3	12	18A	1	22	28	3				
VIENNA-H.	81.28	352.0	12	17	0	22	28	2		15	17	PP
BRATISLAVA	81.30	351.5	12	16	-1	22	28	2		13	1	
STRASBOURG	81.44	357.8	12	18K	0	22	34	7		15	26	PP
TUBINGEN	81.46	356.9	12	18A	0	22	33	6		15	26	PP
HURBANOVO	81.48	350.7	12	24	6	22	34	6		13	53	
BUDAPEST	81.78	350.1	12	21	2	22	30	-1		15	19	PP
TIFLIS	81.79	330.7	12	20	0					22	37	SCS
EBINGEN	81.81	357.0	12	20K	0	22	35	4				
RAVENSBURG	82.17	365.5	12	22	0	22	37	2				
PORT BLAIR	82.26	278.8	12	24	2	22	37	1		15	39	PP
BRISBANE	82.33	207.9	12	21K	-1	22	38	2				
FOCSANI	82.36	344.2	12	31	9							
BASLE	82.50	357.9	12	24K	1	22	41	3				
ZURICH	82.63	357.2	12	28	4	22	47	8				
QUETTA	82.70	309.3	12	23K	-1	22	43	3		15	36	PP
KALOCSA	82.72	350.0	12	27	3					23	4	PS
NEUCHATEL	83.04	358.3	12	26	0	22	49	6				
CHUR	83.12	356.5	12	26	0	22	50	6				
CAMPULUNG	83.14	345.6	12	25	-1	22	42	-2		23	4	
TIMISOARA	83.22	348.3	12	31	4	22	56	11		15	36	PP
GORIS	83.31	328.7	12	26	-1					22	50	SCS
BUCHAREST	83.79	344.6	12	30K	0	22	54	3		23	51	
TRIESTE	84.08	353.5	12	31K	0	22	56	2		15	54	PP
BELGRADE	84.24	348.7	12	32A	0	23	2	7		16	8	PP
CLERMONT-FD.	84.29	1.0	12	33K	1	23	8	12				
OROPA	84.40	357.6	12	38	5	23	8	11		15	55	PP
MEDAN	84.60	269.1	12	34A	0	23	2	3				
PAVIA	84.80	356.7	12	36	1	23	10	9		23	55	PS
SOFIA	85.91	346.2	12	47	7	23	15	3		24	6	PS
PRATO	86.01	355.2	12	47	6	23	34	21				
FLORENCE X.	86.10	355.1	12	42K	1	23	22	8	13 1	16	7	PP
KARACHI	86.21	306.7	12	45K	3							
MONACO	86.30	357.9	12	43A	1					13	16	
ISTANBUL KA.	86.48	341.6	12	40	-3	23	22	5				
HYDERABAD	86.61	293.2	12	48	4	23	30	12		16	15	PP
SKOPJE	86.90	347.5	12	46A	1	23	22	1		16	15	PP
DJAKARTA	86.91	256.6	12	9	-36					23	2	
SAN JUAN	87.79	63.7	12	50	0					16	9	PP
ROME	87.90	354.1	12	53	3	23	18	-13				
SERRA PILAR	88.21	9.9	12	51K	-1					16	19	PP
POONA	88.40	297.4	12	51K	-1	23	40	5		16	14	PP
BOMBAY	88.69	298.4	12	58	4	23	44	6		16	21	PP
RIVERVIEW	88.83	207.2	12	54A	-1					16	11	PP
MADRAS	89.03	289.2	12	54	-1	23	26	-15		16	23	PP
COIMBRA	89.15	9.9	12	56	0	23	40	-2				
TORTOSA	89.18	3.0	13	3	7	23	34	-9				
TOLEDO	89.87	6.6	12	58K	-1	23	41	-8		16	31	PP
ATHENS	90.47	344.9	12	59	-3							
LISBON	90.53	10.6	13	4K	2							
MESSINA	91.32	351.3	13	2	-4	23	59	-3		16	41	PP
ALICANTE	91.60	3.9	13	7	0	24	7	3		16	49	PP
WELLINGTON	91.62	187.3				24	5	1		23	38	SKS
ANTIGUA	91.71	60.7	12	58A	-10							
KSARA	91.75	334.3	13	12A	4	24	13	7		16	47	PP
ST. CLAUDE	92.18	61.7	13	15	5							
GRANADA	92.58	6.5	13	11K	-1	24	35	22	13 46	15	41	PP
KODAIKANAL	92.84	289.6	13	16	3							
MALAGA	92.98	7.2	13	12K	-2	24	34	18		17	4	PP
ALMERIA	92.99	5.6	13	9	-5					16	52	PP
ALGIERS UNI.	93.28	1.2	13	14K	-1	24	26	7		17	2	PP

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FUQUENE	93.29	77.5	13	15	0				17	3	PP
BOGOTA	93.74	78.3	13	19	2				17	0	PP
JERUSALEM	93.85	334.2	13	17	-1				16	32	
COLOMBO	93.97	285.6	13	25	7	24	25	0			
RELIZANE	94.23	3.2	13	19	-1	24	28	1	17	7	PP
HELWAN	96.70	336.8	13	30K	-1	24	10	-38			
HUANCAYO	105.66	90.0							18	19	PP
TAMANRASSET	107.22	359.0	14	18	777	25	7	0	18	44	PP
MBOUR	112.87	22.6				26	38	79	19	27	PP
LA PAZ	113.59	87.6	18	39	1				19	34	PP
ASTRIDA	127.88	327.4	19	6	1				21	8	PP
UVIRA	128.91	327.7	19	8	1						
BYRD STATION	133.88	168.4	19	5	-12	26	28	4	21	54	PP
SOUTH POLE	140.13	180.0	19	18	-10				21	54	PP
PRETORIA	149.44	314.6	20	16	32						
WINDHOEK	150.60	335.8	19	47	1						
PIETERMZBURG	151.59	306.9	19	53	6						
KIMBERLEY	153.55	316.9	19	50K	0						
GRAHAMSTOWN	156.50	307.9	20	24	30						

FEBRUARY 22 13.H 21.M 50.S EPICENTRE 50.39-175.40 DEPTH= 0.KM

A=-0.63808 B=-0.05136 C= 0.76826 D=-0.0802 E= 0.9968
G=-0.7658 H=-0.0616 K=-0.6401 HT= -5.6

SE= 1.37

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
COLLEGE	20.45	34.5	4	36	-3	8	27	4					
MAGADAN	21.24	308.5	4	47	0								
VICTORIA	33.28	72.7	6	38K	-1								
MATUSIRO	35.79	265.4	7	0	0	12	31	-5			9	27	PCP
BANFF	36.94	64.9	7	10K	0								
MINERAL	38.33	83.9	7	23K	1								
HUNGRY HORSE	39.02	68.4	7	28	1						9	37	PCP
BERKELEY	39.33	87.6	7	31K	1								
RESOLUTE	39.76	24.2	7	33A	-1						9	39	PPP
RENO	39.93	83.7	7	36K	1								
LICK	40.04	87.8	7	37K	1						9	40	
FRESNO	41.56	87.1	7	49	1								
BOZEMAN	42.09	70.6	7	48	-5								
EUREKA	42.40	81.2	7	56	1								
PASADENA	44.22	88.9	8	11	1						9	53	
SALT LAKE C.	44.25	77.0	8	11	1								
BOULDER CITY	45.21	84.5	8	19	1								
RAPID CITY	47.65	68.2	8	37	0						10	6	PCP
BOULDER	48.74	73.8	8	47	1								
TUCSON	50.14	85.5	8	56	0						10	16	PCP
RABAUL	61.12	217.7	10	12	-4								
KIRUNA	61.51	353.2	10	17	-1								
OTTAWA	62.01	51.9	10	21K	-1								
SHAWINIGAN	62.65	49.3	10	25K	-1								
BREBEUF	62.98	50.6	10	26K	-2	18	51	-5					
SEVEN FALLS	63.18	47.8	10	29	0								
SVERDLOVSK	63.57	329.4	10	32	0								
MORGANTOWN	63.82	58.9	10	34K	0								
PALISADES	66.06	54.2	10	48	0								
WESTON	66.39	51.7	10	51K	1								
COLUMBIA	67.23	64.0	10	55	-1								
FRUNSE	68.91	312.3	11	7	1								
UPPSALA	69.61	353.0	11	10K	0				11	20	39	9	PKPPKP
NAMANGAN	71.76	312.8	11	23	0								
CHITTAGONG	74.82	286.7	11	41A	0	21	17	1			11	56	PCP
LAHORE	77.84	305.0	11	58K	0								
HALLE	78.30	355.3	12	1	0								
LWOW	78.79	347.3	12	4	1								
JENA	78.89	355.5	12	4	0						12	34	
SONNEBERG	79.45	355.7	12	10	3								
PRUHONICE	79.65	353.5	12	7	-1						12	53	
STUTTGART	81.15	356.9	12	17	1								
PARIS	81.17	1.4	12	17K	1	22	28	4					
FRINGEN	81.74	357.0	12	20	1								
TIFLIS	81.76	330.8	12	20	1						24	3	
QUETTA	82.70	309.4	12	25K	1	22	45	5					
BELGRADE	84.18	348.7	12	34	2						13	8	

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SAN JUAN	87.70	63.8	12	50	1					
TAMANRASSET	107.16	359.1	13	44	777				18	10 PP
MBOUR	112.79	22.7	18	15	-21				19	8 PP
BYRD STATION	133.93	168.4	19	9	-8					
SOUTH POLE	140.20	180.0	19	26	-2					
KIMBERLEY	153.54	317.2	19	58	8					

FEBRUARY 22 17.H 5.M 3.S EPICENTRE 52.15-174.91 DEPTH= 0.KM

A=-0.61370 B=-0.05471 C= 0.78765 D=-0.0888 E= 0.9960
G=-0.7845 H=-0.0699 K=-0.6161 HT= -6.2

SE= 3.02

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
PETROPAVLOVK	16.05	284.0	3	53	5						7	15	
COLLEGE	18.83	37.0	4	25	2	8	5	14					
MAGADAN	20.43	304.7	4	43	2						8	58	
MATUSIRO	36.28	263.4	7	4A	-3	12	44	-4					
MINERAL	37.88	86.5	7	30K	10								
RESOLUTE	38.03	25.2	7	23A	2	13	33	19			9	35	
HUNGRY HORSE	38.11	70.8	7	21	-1	13	20	4			9	30	PCP
BERKELEY	38.98	90.1	7	32	3								
RENO	39.46	86.2	7	43	10								
LICK	39.70	90.3	7	42	7								
BUTTE	40.16	73.1	7	39	0						9	41	PCP
FRESNO	41.20	89.5	7	52K	4								
BOZEMAN	41.24	72.7	7	48	0								
EUREKA	41.86	83.5	7	52	-1	13	34	-38					
SALT LAKE C.	43.58	79.2	8	6	-1								
PASADENA	43.91	91.2	8	21	11	14	49	7					
BOULDER CITY	44.77	86.6	8	15	-2								
RAPID CITY	46.73	70.0	8	30	-2								
PEKING	47.57	283.9	8	38A	-1	15	36	2					
TUCSON	49.72	87.3	9	53	57								
ZO-SE	50.41	271.5	8	58A	-3	16	14	0					
NANKING	51.22	274.2	9	4A	-3								
FAYETTEVILLE	57.15	72.1	9	48	-3								
KIRUNA	59.79	353.3	10	9	0								
OTTAWA	60.68	52.9	10	14A	-1								
HONG KONG	61.08	269.6	10	14	-4	17	44	-52			12	33	PP
CHENGTU	61.19	283.7	10	16A	-2	18	36	-1					
SHAWINIGAN	61.28	50.3	10	18K	-1								
BREBEUF	61.63	51.6	10	19A	-2								
SEVEN FALLS	61.77	48.8	10	21A	-1								
SKALSTUGAN	64.47	356.4	10	41K	1								
PALISADES	64.79	55.2	10	42	0								
WESTON	65.06	52.6	10	45K	1								
CHAPEL HILL	65.86	62.2	10	49	0								
KUNMING	66.08	280.4	10	48	-3								
COLUMBIA	66.18	65.0	10	50	-1								
HELSINKI	66.89	349.4	10	56	0								
UPPSALA	67.89	353.2	11	2	0								
FRUNSE	67.96	312.0	11	2	-1								
LHASA	69.54	292.0	11	13A	1	20	22	.2					
NAMANGAN	70.79	312.6	11	35	15								
SHILLONG	72.13	288.7	11	25A	-3								
CHATRA	73.88	292.9	11	28	-10								
CHITTAGONG	74.61	286.6	11	42A	0	21	20	2			11	56	PCP
BERMUDA	76.14	54.9				21	37	2					
LAHORE	77.08	305.0	11	55A	-1								
JENA	77.15	355.8	11	57	0						12	57	
PRUHONICE	77.93	353.8	12	1	0						12	25	
PARIS	79.39	1.8	12	27	18								
TIFLIS	80.37	331.0	12	15	1								
QUETTA	81.82	309.5	12	22A	0	22	36	1					
KARACHI	85.40	307.1	12	45A	5								
SAN JUAN	86.65	64.2	12	46	0								
POONA	87.88	297.8	12	51	-1								
BYRD STATION	135.60	168.2	19	32	10								
SOUTH POLE	141.97	180.0	19	23	-11								
PRETORIA	148.37	317.4	20	11	27								
PIETERMZBURG	150.73	310.4	19	53	5								
KIMBERLEY	152.41	320.3	20	8	17								

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FEBRUARY 23 8.H 14.M 53.S EPICENTRE -27.34 -62.95 DEPTH= 593.KM

DEPTH OF FOCUS= 0.088R

A= 0.40459 B=-0.79226 C=-0.45676 D=-0.8906 E=-0.4548
G=-0.2077 H= 0.4068 K=-0.8896 HT= 2.7

SE= 2.19

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
ANTOFAGASTA	7.68	296.9	1	55	-1	3	22	-7					
LA PLATA	8.68	151.5	2	1A	-5	3	41	-6			13	7	SCS
SANTA LUCIA	9.02	225.8	2	2	-7	3	43	-10	2	25			
LA PAZ	11.80	334.9	2	37A	1	4	43	1			2	49	PP
CONCEPCION	12.21	216.9	2	49	9	4	54	5					
HUANCAYO	19.14	320.2	3	47A	0	6	48	-2			7	32	PEP
BOGOTA	33.54	339.6	5	51	-2	10	33	-3			10	41	SCP
FUQUENE	34.24	340.7	5	57	-2						10	39	PCS
TRINIDAD	37.80	2.3	6	28	0								
ST. VINCENT	40.30	2.5	6	47	-1	12	22	7					
BARBADOS	40.34	5.0	6	51	3								
FORT FRANCE	41.85	2.6	7	1	1	12	38	1					
ST. CLAUDE	43.12	1.8	7	9	-1	12	52	-3					
SAN JUAN	45.55	355.8	7	27	-2	13	23	-6	9	24			
MERIDA	54.50	329.0	8	35	0	15	25	-5					
BYRD STATION	57.64	189.9	8	54	-2	16	9	-1	10	42	17	45	SCS
TACUBAYA	58.24	319.0	9	2	2	16	23	5			11	17	PP
BERMUDA	59.41	358.3	9	13	5	16	39	7			18	7	SKKS
MBOUR	60.90	52.9	9	20K	2						11	44	PP
SOUTH POLE	62.82	180.0	9	25	-5	16	58	-16	11	18	9	55	PCP
COLUMBIA	63.36	343.2	9	33	-1				11	28			
CHAPEL HILL	64.72	345.6	9	42	0						11	37	
MORGANTOWN	68.48	346.0	10	6K	1	18	27	6					
PALISADES	68.75	351.1	10	7	0	18	27	3			12	27	*PPCP
FAYETTEVILLE	69.62	333.4	10	11	-1	18	37	3					
HARVARD	69.95	353.2	10	15	1								
LUBBOCK	70.94	326.3	10	18	-2	18	48	-1	12	21			
WINDHOEK	71.55	106.3	10	21K	-2								
HALIFAX	71.61	359.5	10	24K	1								
ARFREUF	73.13	352.2	10	32A	0						13	32	PP
OTTAWA	73.31	350.6	10	33K	0								
SHAWINIGAN	74.07	353.0	10	38K	1				12	35	13	31	PP
SEVEN FALLS	74.45	354.4	10	41K	1	19	33	6	12	39	13	38	PP
TUCSON	74.75	319.3	10	40	-1	19	33	2	12	40	14	30	*PPP
GRAHAMSTOWN	75.17	120.0	10	43K	-1								
KIMBERLEY	75.55	115.0	11	45A	59								
BOULDER	77.75	328.0	10	58	0								
PRETORIA	79.54	113.5	10	59	-8								
PIETERMZBURG	79.67	117.9	12	18	70								
BOULDER CITY	79.73	319.6	11	8	0	20	26	3	13	9			
RAPID CITY	80.06	331.8	11	8	-2	20	28	2	13	11	14	19	PP
PASADENA	80.47	316.3	11	11	-1	20	32	2			13	12	
SALT LAKE C.	81.55	324.6	11	18	1				13	19			
LISBON	82.73	39.5	11	27K	4				13	31	14	45	PP
TAMANRASSET	82.79	59.9	11	25K	1	20	54	1	13	29	14	42	PP
EUREKA	82.83	321.5	11	24	0	20	57	4	13	26	29	42	PKKP
FRESNO	83.20	317.4							13	26			
MALAGA	84.20	43.5	11	30K	0				13	33	14	57	PP
MIRNY	84.64	170.6									21	9	
LICK	84.69	316.9	11	33A	0				13	36			
SERRA PILAR	84.70	38.1	11	29K	-4				13	37	14	56	PP
BOZEMAN	84.78	328.4	11	31	-2				13	33			
GRANADA	84.99	43.6	11	34K	0	21	52	38					
RENO	85.04	319.5	11	35	0								
ALMERIA	85.48	44.4	11	37A	0				13	41	15	13	PP
RITTE	85.76	327.8	11	38	0				13	42			
TOLEDO	86.45	41.3	11	43K	2				13	55			
MINERAL	86.61	319.2	11	41K	-1				13	44			
RELIZANE	86.72	46.8	11	44K	1				13	26			
ALICANTE	87.64	44.3	11	41	-6	21	13	-26					
HUNGRY HORSE	88.14	328.7	11	49	0	21	42	-1	13	53	15	29	PP
ALGIERS UP	88.95	47.2	11	55K	2						13	59	PP
UVIRA	90.26	94.0	12	1	2								
LWIRO	90.53	92.8	12	3	3						15	46	PP
ASTRIDA	91.20	93.5	12	6K	3				14	11			
KATHFARNHAM	94.13	30.2	12	13A	-4						12	43	

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PARIS	95.64	37.2	12	24K	0	22	6	-42				
KEW	95.77	33.9	12	25	1							
BASLE	97.75	40.2	12	35K	2							
STRASBOURG	98.42	39.3	12	37	1				14	51	16	43 PP
STUTTGART	99.33	39.7	12	41K	1						16	52 PP
MUNSTER	100.12	36.3	12	42	-2							
SCORESBY SD.	101.80	13.0	12	49	-2							
HALLE	102.22	38.1	12	54	1							
PRUHONICE	102.97	40.3	12	56	0						17	15 PP
BRATISLAVA	103.67	42.7									17	22 PP
RESOLUTE	103.87	351.7	13	0A	0	24	0	4			17	22 PP
SKALSTUGAN	107.88	27.0	17	16	777							
UPPSALA	108.71	31.7	17	39	777							
NORD	111.19	6.5									18	15 PP
KSARA	111.51	62.2									18	51 PP
KIRUNA	112.56	24.1									18	27 PP
PULKOVO	114.81	33.8	17	48	14							
MOSCOW	117.97	39.0	17	42	2						18	48 PP
TIFLIS	120.39	55.7	17	45	1						19	14 PP
CHARTERS TS.	125.09	214.1	17	54	1							
SVERDLOVSK	130.69	37.2	18	7	3						20	27 PP
RABAUL	133.83	232.7	20	22	132						20	47
TIKSI	135.18	354.7	18	10	-3							
KARACHI	135.49	80.1	18	15	2							
BOMBAY	138.64	92.0	21	4	165							
POONA	139.42	93.1	18	23	3							
NAMANGAN	140.49	57.9	18	19	-4							
FRUNSE	142.37	54.4	18	24	-3						21	12 PP
LAHORE	142.73	73.0	18	23K	-4							
SEMIPALATNSK	143.79	40.5	18	27	-2							
ALMATA-2	144.30	53.1	18	32	3							
BANDUNG	144.77	163.7	18	23	-7							
LEMBANG	144.83	163.6	18	25	-5							
AGRA	145.39	81.2	18	30K	-1							
DEHRA DUN	145.81	75.6	18	35	3							
MEDAN	150.57	140.2	18	41	2						22	39 PP
GUAM	150.69	247.5	18	46	7						20	56
CHATRA	153.42	84.2	18	33	-10							
KOROR	154.13	222.9	19	8	24				20	54		
CHITTAGONG	156.59	96.7	19	25	38							
LHASA	157.04	78.1	18	52K	4				21	5	23	7 PP
SHILLONG	157.39	88.7	18	49K	1						24	6
ULAN-BATOR	157.97	18.4	18	50	1						23	7 PP
MATUSIRO	159.86	302.4	19	35K	44				21	41		
LANCHOW	165.77	49.0	18	59K	2				21	14	23	52 PP
KUNMING	166.90	96.8	18	59K	1				21	14	23	57 PP
PEKING	167.32	3.1	18	59K	1				21	14	23	58 PP
CHENGTU	168.11	70.7	18	59K	0				21	14	24	1 PP
HONG KONG	174.34	151.8	19	0	-1						24	25 PP
CANTON	174.56	140.3	19	4K	3				21	18		
NANKING	175.06	342.5	19	3	1						24	32 PP

FEBRUARY 23 9.H 12.M 27.S EPICENTRE 28.64 139.57 DEPTH= 450.KM

DEPTH OF FOCUS= 0.066R

A=-0.66909 B= 0.57010 C= 0.47676 D= 0.6486 E= 0.7612
G=-0.3629 H= 0.3092 K=-0.8790 HT= 2.3

SE= 1.98

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
TORISIMA	1.94	19.0	1	1	0	1	45	-4				
HATIDYOZIMA	4.45	2.8	1	21	1	2	20	-3				
SIOMISAKI	5.80	326.8	1	34	1	2	47	0				
OMAESAKI	6.06	349.4	1	35A	-1	2	51	0				
OSIMA	6.12	358.6	1	35	-1	2	49	-3				
OWASE	6.13	332.9	1	40A	3	2	54	1				
HAMAMATU	6.27	345.9	1	56	18	3	1	6				
MERA	6.27	2.0	1	36	-2	2	50	-5				
SHIZUOKA	6.39	351.4	1	38	-1	2	55	-3				
AJIRO	6.41	356.6	1	39	0	2	52	-6				
MISIMA	6.49	355.5	1	38A	-2	2	56	-4				
TU	6.61	337.6	1	43	1							
YOKOHAMA	6.77	0.6	1	42	-1	3	1	-4			1	53
NARA	6.81	333.1	1	47	3	3	11	5				

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HUNATU	6.88	354.6	1	44	0	3	4	-3			
NAGOYA	6.88	341.9	1	45	1	3	8	1			
TOKUSIMA	6.89	323.0	1	45	0	3	12	5	2	22	
OSAKA	6.91	331.2	1	47K	2	3	8	0	14	6	SCS
SUMOTO	6.96	326.1	1	45	0	3	8	-1	3	21	
IIDA	7.02	348.3	1	45	-1	3	10	0			
KOHU	7.02	353.3	1	44	-2	3	7	-3	4	16	
TOKYO C.M.O.	7.02	1.2	1	44	-2	3	6	-4			
HONGO	7.05	1.3	1	45	-1	3	6	-4			
KOBE	7.09	329.3	1	49	2	3	14	3			
KOTI	7.13	314.9	1	49	2	3	14	2			
TYOSI	7.15	8.4	1	47	0	3	10	-2			
GIHU	7.15	341.3	1	47A	0	3	12	0	2	2	
KYOTO	7.15	333.8	1	47	0	3	7	-5			
HIKONE	7.19	337.8	1	49	1	3	15	2			
IBUKISAN	7.25	338.9	1	48	0	3	15	1			
TITIBU	7.33	356.9	1	46	-3	3	14	-2			
TAKAMATU	7.37	321.6	1	51	1	3	17	0			
KUMAGAYA	7.49	358.8	1	49	-2	3	13	-6			
TUKUBASAN	7.58	3.3	1	48A	-4	3	9	-12	1	57	PP
KAKIOKA	7.59	3.8	1	51	-1	3	16	-5			
TSURUGA	7.59	337.9	1	53	1	3	21	0			
MAIZURU	7.65	334.0	1	55	2	3	24	2			
OKAYAMA	7.71	322.8	1	56	3	3	26	3			
MATUMOTO	7.71	350.3	1	53	0	3	22	-1			
OIWAKE	7.72	353.9	1	50	-4	3	21	-2	2	17	
TAKAYAMA	7.74	345.9	1	53	-1						
MAEBASI	7.75	357.0	1	52	-2	3	22	-2	2	28	
MITO	7.76	5.4	1	53	-1	3	20	-4			
MIYAZAKI	7.77	296.9	1	57	3	3	29	5			
MATUYAMA	7.80	313.3	1	51	-3	3	24	-1			
UTUNOMIYA	7.90	1.8	1	53	-2	3	19	-8	2	53	
HUKUI	7.90	340.2	1	57	1	3	27	0			
TOYOOKA	7.96	330.8	1	57A	1	3	30	2	3	15	
MATUSIRO	7.97	352.2	1	54A	-2	3	27	-1			
NAGANO	8.09	352.2	1	55	-3	3	29	-2			
YAKUSIMA	8.10	285.1	2	0	2	3	32	1			
TOTTORI	8.20	327.9	2	3	4	3	33	0			
OOITA	8.22	305.8	1	58	-1	3	35	2			
TOYAMA	8.28	346.7	2	0	0	3	34	-1			
KAGOSIMA	8.34	292.7	2	11	11	3	39	3	4	45	
HIROSIMA	8.35	315.0	2	1	1	3	38	2			
ONAHAMA	8.37	7.4	1	59	-2	3	30	-6	2	50	
SHIRAKAWA	8.48	3.5	2	0	-2	3	33	-5			
TAKADA	8.51	352.9	2	6	4						
YONAGO	8.58	323.7				4	38	57			
KUMAMOTO	8.70	300.8	2	6	2	3	46	3			
UNZENDAKE	9.00	299.3	2	8	0	3	52	3			
WAZIMA	9.00	346.3	2	14	6						
HUKUSIMA	9.12	4.5	2	8A	-1	3	50	-1			
SAGA	9.19	302.3	2	13A	3	3	56	3			
HUKUOKA	9.26	304.4	2	20	9	3	58	4			
NIIGATA	9.27	357.5	2	11	0	3	53	-1			
NAGASAKI	9.28	298.5	2	11	0	3	59	4			
AIKAWA	9.42	353.6	2	12	0	3	52	-5			
YAMAGATA	9.61	3.7	2	13	-1	3	57	-4			
SENDAI	9.67	6.3	2	14A	-1	3	58	-4			
ISINOMAKI	9.88	8.1	2	16	-1	4	4	-2			
SAKATA	10.24	1.2	2	21	0	4	21	7			
ITUHARA	10.39	304.8	2	22	-1	4	18	1			
MIZUSAWA	10.55	6.7	2	24	-1	4	20	0			
AKITA	11.06	2.1	2	30	0	4	32	2			
MORIOKA	11.12	6.4	2	30A	-1	4	28	-3			
MIYAKO	11.16	9.6	2	30K	-2	4	31	-1			
HATINOHE	11.97	7.2	2	40A	0	4	53	4			
AOMORI	12.20	4.4	2	43	0	4	58	5			
HAKODATE	13.15	3.8	2	52A	-1	5	12	0	5	42	
MORI	13.46	3.2	2	57	1	5	19	1			
MURORAN	13.71	4.4	2	59	0	5	27	4			
URAKAWA	13.73	10.1	3	0	1	5	23	0			
TOMAKOMAI	13.95	6.2	3	13	12						
SUTTSU	14.14	2.0	3	4	1	5	31	0			
SAPPORO	14.47	5.2	3	7A	0	5	38	1			
OBIHIRO	14.55	10.7	3	9	1	5	52	13			
KUSIRO	14.84	14.0	3	11	0	5	57	13			
ASAHIGAWA	15.28	7.7	3	17	2						
NEMURO	15.44	16.7	3	17A	0	6	0	4	6	18	
VLADIVOSTOK	15.72	338.9	3	21	1	6	3	2			

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EUREKA	82.41	49.1	11	36	1	21	12	0	13	11	15	28	PP
IASI	82.87	320.4	11	37	0								
LWOW	83.24	324.0	11	39	0						14	57	PP
PASADENA	83.59	54.6	11	42	1	21	5	-19			13	19	
SALT LAKE C.	84.41	46.3	11	47	2				13	24			
BOULDER CITY	85.00	51.6	11	50	2				13	27			
KRAKOW	85.17	325.8	11	48	0						15	8	PP
RACIBORZ	85.99	326.5	11	53	1								
RAPID CITY	87.67	39.9	12	1	1	22	5	3	13	39			
PRAGUE	87.79	328.2	11	58	-3								
PRUHONICE	87.80	328.1	12	0	-1				13	38	15	32	PP
JENA	88.47	330.1	12	3	-1				13	44			
BOULDER	88.92	44.0	12	9	3								
SONNEBERG	89.03	329.9	12	4	-3								
MUNSTER	89.37	332.6	12	7	-1								
TUCSON	89.81	53.0	12	12	2	22	2	-20	13	55	15	50	PP
STUTTGART	91.10	329.7	12	15K	-1				13	56			
STRASBOURG	91.87	330.3	12	20K	0								
BASLE	92.75	329.7	12	24	0								
KEW	92.78	336.2	12	24	0								
PARIS	93.89	333.2	12	29K	0						16	24	PP
PALISADES	104.08	25.5									23	7	
ASTRIDA	108.63	277.4	18	11	777						20	32	
UVIRA	109.59	276.9	18	19	777								
TAMANRASSET	112.36	314.2	17	46	3						18	38	
SOUTH POLE	118.47	180.0	17	56	1				19	21			
BYRD STATION	119.90	168.6	18	0	2								
GRAHAMSTOWN	123.24	247.2	18	8	3								
HUANCAYO	143.53	70.3	18	44	1						19	9	
LA PAZ	151.79	70.6	19	1	6				20	51			

FEBRUARY 23 10.H 6.M 22.S EPICENTRE 20.34 120.31 DEPTH= 0.KM

A=-0.47358 B= 0.81011 C= 0.34560 D= 0.8633 E= 0.5047
G=-0.1744 H= 0.2984 K=-0.9384 HT= 4.6

SE= 2.56

	DELTA DEG.	AZ. DEG.	P M	S	O-C S	S M	S	O-C S	*PP M	S	SUPP. M	S	
HENGCHUN	1.70	13.9	1	30	59	1	48	54					
TAWU	2.07	15.3	1	34A	58	1	56	53					
KAOHSIUNG	2.27	359.1	0	41	2	1	1	-7					
TAITUNG	2.52	17.9	1	40	57	2	10	55					
TAINAN	2.64	358.2	0	43	-2	1	32	14					
HSINKONG	2.91	19.6	0	46	-2	1	16	-9					
ALISHAN	3.19	8.1	0	50	-2	1	23	-9					
TAICHUNG	3.80	5.1	1	6	5								
HWALIEN	3.81	18.4	1	36	35	2	7	19					
BAGUIO CITY	3.91	176.2									0	6	P*
ILAN	4.60	16.5	1	17	5	1	59	-9					
TAIPEI	4.80	13.2	1	19	4	2	7	-5					
HONG KONG	6.05	289.9	1	29	-4	2	41	-3			1	54	PP
CANTON	7.08	293.9	1	46	-1								
PHU-LIEN	12.82	274.4	3	8	2						6	56	
KUNMING	16.93	289.3	4	2	2								
KOROR	18.86	131.3	4	22	-2								
PEKING	19.94	350.6	4	34A	-2	8	16	0					
LANCHOW	21.33	320.8	4	50A	-1	8	41	-2			5	13	PP
MATUSIRO	22.49	40.3	5	0K	-2	9	11	6					
TUKUBASAN	23.46	43.4	5	7K	-5								
CHANGCHUN	23.79	9.0	5	13	-2								
GUAM	24.34	102.5	5	21	1								
MIZUSAWA	25.92	39.2	5	32	-3								
CHITTAGONG	26.60	279.5	5	43	1	10	17	2					
SHILLONG	26.67	286.6	5	41	-1	10	20	3					
MEDAN	26.87	234.5	5	46K	2								
LHASA	28.03	295.1	5	56K	1								
ULAN-BATOR	29.57	341.6	6	10	1								
LEMBANG	29.75	206.1	6	4K	-6								
BANDUNG	29.79	205.9	6	16	6								
DEHRA DUN	39.27	293.3									13	30	
PORT MORESBY	39.64	135.7	7	36	1	13	40	1					
RABAUL	39.67	124.4	7	38	3								
LAHORE	42.55	294.8	7	57	-2								
POONA	43.74	275.9	8	10	1								

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BOMBAY	44.64	276.6	8	17	1	14	54	1				
WARSAK DAM	45.07	298.1	8	20	1							
CHARTERS TS.	47.48	146.1	8	42	4	15	41	8				
KARACHI	49.04	287.0	8	51	0							
BRISBANE	57.13	145.1	9	51K	0						17	54
MELBOURNE	62.34	158.1	10	28K	1							
COLLEGE	72.58	26.6	11	28	-3						14	7 PP
KSARA	74.50	300.7	11	45	3						13	39 PP
KIRUNA	75.01	337.2	11	45	0	21	24	1				
HELSINKI	75.19	329.0	11	44	-2							
UPPSALA	78.79	329.9	12	4	-2							
HELWAN	79.29	297.9	12	8	-1							
SKALSTUGAN	79.68	334.4	12	20	9							
SITKA	80.67	32.4	12	16	0							
KRAKOW	81.07	320.1	12	18	0						12	23 PCP
TANANARIVE	81.26	246.2	12	19A	0							
RACIBORZ	82.10	320.5	12	38	14							
RESOLUTE	82.57	8.9	12	24A	-2	22	38	-5				
PRUHONICE	84.30	321.4	12	33	-2						13	25
SCORESBY SD.	85.64	348.1	12	42	0							
KATHFARNHAM	93.40	331.1									25	35
HUNGRY HORSE	96.17	33.0	13	32	1						16	42 PP
EUREKA	100.62	40.9	13	53	2							
SOUTH POLE	110.22	180.0	18	14	-20							
BYRD STATION	115.00	170.4	18	45	2							

FEBRUARY 23 10.H 47.M 41.S EPICENTRE 23.94 142.54 DEPTH= 0.KM

A=-0.72630 B= 0.55652 C= 0.40344 D= 0.6082 E= 0.7938
G=-0.3202 H= 0.2454 K=-0.9150 HT= 3.7

SE= 2.92

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
IORISIMA	6.82	343.5	1	47	3	2	56	-7				
HATIDYOZIMA	9.43	346.0	2	23	3							
GUAM	10.62	168.3	2	46	10							
OSIMA	11.14	346.4	2	45	1	4	43	-7				
SIOMISAKI	11.18	329.5	2	47	3							
MERA	11.20	348.5	2	45A	1							
OMAESAKI	11.27	341.5	2	48	3							
AJIRO	11.47	345.7	2	49	1							
UWASE	11.52	332.7	2	53	4							
SHIZUOKA	11.57	342.8	2	51A	2							
MISIMA	11.57	345.2	2	57	7	4	53	-8				
YOKOHAMA	11.72	348.3	2	51	-1	4	58	-6				
TOKYO C.M.O.	11.95	349.0	2	53	-2	5	0	-10				
HUNATU	11.98	345.0	2	56A	1	5	4	-7			3	27
KOHU	12.15	344.5	2	57	0	5	12	-3				
SIMIDU	12.18	318.4	3	2	4							
NAGOYA	12.19	337.9	3	0	2							
IIDA	12.24	341.6	3	0	1							
TOKUSIMA	12.26	327.2	3	1	2							
OSAKA	12.30	331.8	3	0	1						4	22
SIMOTO	12.34	328.9	3	1K	1	5	14	-5			3	21
TITIBU	12.37	346.8	2	57	-3							
KOTI	12.41	322.5	3	4	3	5	23	2				
KAKIOKA	12.42	351.1	2	59	-2	5	13	-8				
TUKUBASAN	12.42	350.8	2	58K	-3	5	8	-13				
GIHU	12.47	337.6	3	2	0							
KUMAGAYA	12.47	348.1	3	1K	-1						6	33
KOBE	12.48	330.8	3	5	3							
YAKUSIMA	12.52	303.8	3	6	4							
MITO	12.53	352.3	3	3	1	5	14	-10				
KYOTO	12.53	333.4	3	2K	0							
HIKONE	12.54	335.6	3	4	1							
IBUKISAN	12.59	336.3	3	6	3							
MIYAZAKI	12.64	311.4	3	8K	4	5	29	2				
TAKAMATU	12.72	326.3	3	8	3							
MAEBASI	12.78	347.2	3	3K	-3	5	25	-5			3	19
UTUNOMIYA	12.78	350.2	3	3	-3	5	12	-18			3	36
OIWAKE	12.82	345.3	3	5	-1							
MATUMOTO	12.89	343.2	3	6	-1	5	25	-8				
ONAHAMA	13.05	354.2	3	9	0	5	24	-12			4	3
KAGOSIMA	13.05	308.3	3	16A	7	5	48	11			4	24

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MATUYAMA	13.06	321.2	3	13	4						
OKAYAMA	13.07	326.9	3	13	3						
MATUSIRO	13.11	344.5	3	9K	-1	5	31	-7		4	50
NAGANO	13.23	344.6	3	11	-1					5	10
HUKUI	13.23	337.3	3	14	2						
SHIRAKAWA	13.29	351.9	3	11	-2	5	30	-12			
OOITA	13.32	316.5	3	18	5	5	55	12			
TOYOOKA	13.35	331.7	3	15	2						
IOYAMA	13.53	341.4	3	17A	1						
TOTTORI	13.59	329.9	3	20	3						
IAKADA	13.63	345.3	3	17	0						
HIROSIMA	13.63	322.0	3	19	2	6	0	10		3	47
KUMAMOTO	13.66	313.0	3	21	4					5	4
HUKUSIMA	13.88	353.1	3	21	1	5	47	-9			
YONAGO	13.95	327.3	3	24	3						
NAGASAKI	14.17	311.0	3	25	1						
SAGA	14.19	313.6	3	29	5						
SIMONOSEKI	14.23	317.1	3	26	1						
WAZIMA	14.25	341.5	3	25	0						
NIIGATA	14.25	348.7	3	27	2					3	50
HUKUOKA	14.32	314.9	3	30	4	6	25	18			
SENDAI	14.36	354.8	3	24	-3	5	55	-13			
YAMAGATA	14.39	353.0	3	27	0						
ISINOMAKI	14.49	356.2	3	27	-1	6	0	-11			
AIKAWA	14.51	346.4	3	26	-3						
SAKATA	15.09	351.9	3	36	0						
MIZUSAWA	15.19	355.8	3	38	0	6	40	13			
ITIHARA	15.44	314.4	3	41	0						
MIYAKO	15.67	358.4	3	42	-2	6	27	-12			
MORIOKA	15.76	356.1	3	43	-2	6	27	-14			
AKITA	15.87	353.1	3	54	8	6	55	12			
HATINOHE	16.57	357.3	3	56	1	6	43	-17			
AOMORI	16.90	355.4	4	4	5						
HAKODATE	17.86	355.6	4	13A	2					7	35
URAKAWA	18.17	0.6	4	20	5	7	28	-8			
MORI	18.19	355.3	4	20	4					6	47
KOROR	18.23	206.4	4	22	6	7	48	10			
MURORAN	18.39	356.3	4	19	1					7	43
TOMAKOMAI	18.55	357.8	4	36	16						
TRUK	18.65	149.9	4	26	5	7	37	-10			
SUTTSU	18.91	354.7	4	25	1						
OBIHIRO	18.94	1.5	4	26K	1						
ILAN	18.96	276.8	4	28	3	7	52	-2			
KUSIRO	19.06	4.2	4	27	1	7	59	3		15	4 SCS
SAPPORO	19.11	357.3	4	26	-1	7	31	-26			
HWALIEN	19.12	274.4	4	23	-4	7	57	-1			
TAIPEI	19.16	277.6	4	35	8						
HSINKONG	19.43	271.8	4	32	2	7	55	-10			
NEMURO	19.51	6.7	4	22	-9					7	58
TAITUNG	19.68	270.9	4	36	3	8	11	1			
TAWU	19.96	269.8	4	41	4						
ABASHIRI	20.08	3.7	4	40	2	8	11	-8		6	19
HENGCHUN	20.15	268.9	4	47	8						
TO-SE	20.22	295.3	4	38	-1	8	18	-4	4 54		
TAINAN	20.50	271.9	4	43	1						
VLADIVOSTOK	21.05	337.9	4	46	-2	8	40	2			
BAGUIO CITY	21.91	254.1	5	2	5	8	54	0			
NANKING	22.43	296.4	5	1K	-1	8	58	-6	5 25		
CHANGCHUN	24.37	328.7	5	15	-6	9	30	-8			
UGLEGORSK	25.10	359.3	5	27	-1						
HONG KONG	26.13	272.1	5	37	0	9	50	-18		5	57 PP
CANTON	26.83	274.1	5	45	1	10	8	-11		11	1 *SS
PEKING	27.38	312.1	5	45K	-4	10	12	-16			
RABAUL	29.50	160.2	6	8	0					7	32
SIAN	31.00	297.1	6	22	1						
PETROPAVLOVK	31.60	18.6	6	25	-2						
PHU-LIEN	33.30	271.8	6	41	0						
PORT MORESBY	33.44	171.7	6	44	1	12	19	15		9	50
LANCHOW	35.43	299.1	6	57K	-3	12	21	-14			
MAGADAN	36.06	7.1	7	5	0						
KUNMING	36.20	280.2	7	6K	0	12	35	-12		13	16 *SS
ULAN-BATOR	36.99	319.4	7	6	-7						
IRKUTSK	40.53	324.2	7	40	-2						
TOCKLAI	43.07	284.2	7	58K	-5						
CHARTERS TS.	43.83	174.9	8	11	2					8	33
LEMBANG	45.79	232.5	8	17	-8	14	55	-14			
BANDUNG	45.82	232.4	8	41	16	14	47	-22			
SHILLONG	45.82	283.0	8	22A	-3					14	46
DJAKARTA	45.93	233.9	8	18	-8	14	59	-12			

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LHASA	46.02	288.8	8	27K	0	15	2	-11	15 45 *SS
CHITTAGONG	46.46	278.7	8	29K	-1	15	4	-15	10 15 PP
MEDAN	46.88	251.3	8	59	25				15 10
TIKSI	48.35	354.2	8	42	-3	15	35	-11	
PORT BLAIR	48.75	264.6							15 39
CHATRA	49.78	285.6	8	44	-12				10 44
NOUMEA	51.50	151.3	9	11	2				
BRISBANE	52.11	168.2	9	15	1	16	51	13	
SEMIPALATNSK	54.39	315.8	9	25	-6				
HONOLULU	54.51	80.2	9	35	3				
KIPAPA	54.55	80.0	9	33	1				
DEHRA DUN	57.08	291.6	9	48	-2	17	31	-14	
AGRA	57.74	287.9	9	49K	-6				15 38
FRUNSE	58.27	306.8	9	55	-4				
APIA	58.30	125.2	10	1	2				10 43
COLLEGE	59.95	27.5	10	9	-1	18	15	-7	12 52 PP
LAHORE	60.00	293.7	10	7K	-4	18	20	-3	
NAMANGAN	60.62	304.8	10	13	-2				
MELBOURNE	61.48	177.8	10	29	8				
WARSAK DAM	61.82	297.0	10	20K	-3				
POONA	63.71	279.6	10	34	-2				
BOMBAY	64.52	280.4	10	39	-2	19	10	-10	
SVERDLOVSK	65.93	323.4	10	47	-3				
SITKA	66.03	36.3	10	51	0				
OUFTTA	66.49	293.8	10	50K	-4	19	32	-12	13 12 PP
KARACHI	67.59	289.3	11	1K	0				
NORD	74.14	356.9	11	39	-1				
HORSESHOE B.	74.83	42.5	11	45K	1				
VICTORIA	75.02	43.4	11	45K	0				
RESOLUTE	75.05	13.4	11	43K	-2	21	9	-14	29 29 SSS
APATITY	75.08	337.9	11	42	-3				
SEATTLE	76.02	43.9	11	53K	2				
CORVALLIS	76.42	47.2	11	55K	2				
MAKHACH-KALA	77.58	311.5	11	57	-3				
SHASTA	78.43	50.6	12	5	1				
MOSCOW	78.49	326.1	12	2	-3				
BANFF	78.79	38.9	12	7K	1				
MINERAL	79.12	50.7	12	9K	1				
KIRUNA	79.13	340.9	12	4	-4	21	59	-8	
TIFLIS	79.91	311.1	12	10	-2				
PULKOVO	80.04	331.6	12	9	-4				
LICK	80.23	53.6	12	15K	1				
RENO	80.70	51.0	12	18K	2				
HUNGRY HORSE	80.86	41.1	12	18	1	22	21	-4	30 54 PKKP
FRESNO	81.81	53.5	12	23K	1				
HELSINKI	82.09	333.4	12	20	-4				
SOTCHI	82.55	314.4	12	24	-2	21	28	-75	
BUTTE	82.79	42.7	12	29	2				12 54
EUREKA	83.43	49.8	12	31	0				
BOZEMAN	83.89	42.6	8	41	-232	14	47	-489	
BOZEMAN	83.89	42.6	12	30	-3				
PASADENA	84.09	55.4	12	35	1	22	50	-8	12 57
SKALSTUGAN	84.47	339.9	12	33	-3				15 47 PP
UPPSALA	85.19	335.5	12	35	-4	22	51	-18	15 53 PP
SCORESBY SD.	85.20	354.8	12	37K	-3				
SIMFEROPOL	85.48	317.5	12	38	-3				
SALT LAKE C.	85.67	47.2	12	43	1				13 39
BOULDER CITY	85.77	52.5	12	44	2				13 5
LWOW	88.60	325.3	12	53	-3				
RAPID CITY	89.50	41.1	13	0	0	23	45	-5	
KSARA	89.71	307.1	12	59	-2	23	42	-10	16 29 PP
COPENHAGEN	90.07	334.3	13	0	-3				
TUCSON	90.44	54.3	13	6	1	23	43	-15	16 40 PP
KRAKOW	90.54	327.1	13	2	-3				13 7 PCP
JERUSALEM	91.18	305.6	13	7	-1	23	39	-26	
POTSDAM	92.17	331.7	13	12	-1				
PRAGUE	93.17	329.5	13	16	-1				17 0 PP
BRATISLAVA	93.18	326.9	13	17	0				13 32
PRUHONICE	93.18	329.4	13	14	-3				16 54 PP
HALLE	93.28	331.6	13	15	-3				16 56
JENA	93.85	331.4	13	17	-3				16 58 PP
CHEB	94.11	330.4	13	21	-1				13 41
MUNSTER	94.75	333.9	13	20	-5				
HELWAN	95.03	305.6	13	25K	-1				
STUTTGART	96.49	331.0	13	30K	-3				17 19 PP
TUBINGEN	96.72	330.9	13	30	-4				
STRASBOURG	97.26	331.6	13	34A	-2				
BASLE	98.13	331.0	13	37A	-3				

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PARIS	99.26	334.5	13 43	-2	24 18	-56					
SHAWINIGAN	102.91	24.2	18 15	254							
SEVEN FALLS	103.13	22.7	18 17	255							
BREBEUF	103.46	25.3							17	55	PP
GRANADA	111.35	331.5							18	51	PP
ASTRIDA	111.87	277.1	18 19	-18							
LWIRO	112.57	277.9	18 40A	2							
UVIRA	112.79	276.5	18 40	1							
SOUTH POLE	113.79	180.0	18 28	-13							
BYRD STATION	114.79	169.0	18 44	1							
TAMANRASSET	117.55	314.8	18 48	0					19	56	PP
KIMBERLEY	124.56	250.7	19 2K	0							
SAN JUAN	129.50	36.2							22	23	PKS
MBOUR	136.97	330.2							19	28	PP
HUANCAYO	142.21	78.5	19 33	-1							
LA PAZ	150.33	81.3	19 51	3							

FEBRUARY 24 12.H 27.M 9.S EPICENTRE 45.13 99.58 DEPTH= 11.KM
A=-0.11782 B= 0.69803 C= 0.70631 D= 0.9861 E= 0.1664
G=-0.1176 H= 0.6965 K=-0.7079 HT= -3.6

SE= 2.27

	DELTA DEG.	AZ. DEG.	P M	S	O-C S	S M	S	O-C S	*PP M	S	SUPP. M	S	
YUMEN	5.18	202.2	1	21	2								
KYAKHTA	6.99	39.0	1	47	3						3	32	SG
WUWEI	7.55	161.3	1	51	-1								
IRKUTSK	7.80	22.0	1	58	2						4	1	SG
YINCHUAN	8.32	140.8	2	3	0								
KABANSK	8.36	31.5	2	7	4						2	31	PG
BAYANDAI	8.85	24.0	2	21	11						4	40	SG
PAOTOW	8.92	117.0	2	9	-2								
LANCHOW	9.59	158.9	2	19	-1	4	9	0					
TATUNG	11.27	111.7	2	44	1								
TIENSHUI	11.55	153.7	2	45	-2								
TAIYUAN	12.20	122.4	2	53	-3								
KWANTING	12.76	106.9	2	59	-4								
SIAN	13.02	143.4	3	7	0								
PEKING	13.24	106.8	3	7A	-3	5	38	0					
SEMIPALATNSK	14.02	299.0	3	18	-2								
KURMENTY	15.44	269.8	3	37	-2								
PRZHEVALSK	15.52	267.7	3	38	-2								
ALMATA-2	16.03	271.2	3	46	0						6	54	
ALMATA	16.33	271.5	3	50	0						6	59	
LHASA	16.87	206.5	4	0K	3	7	14	11					
BYRACHE	17.17	269.3	3	58	-3						4	4	PP
DAIREN	17.50	103.1	4	3	-2								
NARYN	17.55	266.2	4	8	3						7	33	SS
FRUNSE	18.11	271.7	4	13	1	7	39	8			9	37	
CHANGCHUN	18.39	84.9	4	15	-1	7	37	0					
TOCKLAI	18.74	193.5	4	34	14								
NANKING	19.84	124.6	4	31A	-2	8	13	3			4	53	PP
KUNMING	20.19	171.8	4	35A	-1	8	19	2					
ANDIJAN	20.35	267.2	4	38	0						9	3	SS
SHILLONG	20.48	200.3	4	39A	0	8	26	3			4	58	PP
NAMANGAN	20.77	268.4	4	43	1						5	1	PP
CHATRA	20.79	212.7	4	30	-13	8	25	-4					
TCHIMKENT	21.80	273.2	4	53	0						5	24	PP
ZO-SE	21.93	122.3	4	53A	-1	8	56	6			5	16	PP
KHOROG	22.29	259.8	4	59	1								
TASHKENT	22.34	270.9	4	58	0						9	45	SS
DEHRA DUN	22.45	236.2	5	2	3	9	10	10			5	48	PPP
KULYAB	23.36	262.5	5	9	1						9	24	
CHITTAGONG	23.59	198.2	5	12A	2	9	27	7			5	46	PP
STALINABAD	23.78	264.8	5	12	0						9	29	
LAHORE	23.88	244.1	5	14	1								
BOKARO	24.03	212.4	5	15A	0	9	34	6			5	43	PP
WARSAK DAM	24.18	252.4	5	17A	1								
YAKUTSK	24.28	35.2	5	17	0						9	36	
CALCUTTA	24.35	205.9	5	26K	8	9	58	25					
SAMARKAND	24.58	268.7	5	19	-1								
CANTON	24.68	148.5	5	22A	1	9	44	5					
AGRA	24.89	231.1	5	24A	1	9	48	6			6	0	PP
PHU-LIEN	24.95	164.2	5	24	0	9	58	15					

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HONG KONG	25.72	147.5	5	31A	0	10	11	15	6	36 PP
HUKUOKA	26.33	105.2	5	34	-3					
SAGA	26.44	106.0	5	53	15					
NAGASAKI	26.46	107.4	5	36	-2					
HAMADA	26.74	101.1				10	33	20		
SVERDLOVSK	26.79	309.9	5	42	1	10	16	2	6	36 PP
KUMAMOTO	26.96	106.3	5	43	1					
HIROSIMA	27.27	101.7	5	45	0				13	27
OOITA	27.35	104.6	5	46	0					
TAKAMATU	28.43	100.2	5	57	1					
SUMOTO	28.99	99.4				12	22	93	16	6
KOBE	29.02	98.6				10	43	-7		
KYOTO	29.23	97.5	6	1A	-2	11	19	26		
QUETTA	29.60	251.0	6	6A	0	11	4	5	9	2 PCP
MORI	29.61	81.1				11	22	23		
Y.-SAKHLINSK	29.73	70.9	6	7	0	11	1	0	6	59
GIHU	29.77	95.9							6	47
SAPPORO	29.83	78.9				11	1	-2		
TIKSI	30.05	18.0	6	8	-2				12	39 SS
MATUSIRO	30.23	92.8	6	9	-3	11	20	11	7	7 PP
HATINOHE	30 85	83 5				12	28	69		
URAKAWA	31.13	79.9	6	19	-1				11	2
ASHKABAD	31.41	271.5	6	23	1	11	36	8	13	33 SS
TUKUBASAN	31.71	91.9	6	22	-3				7	30 PP
HONGO	31.73	93.0							9	5 PCP
TOKYO C.M.O.	31.73	93.1							6	21
KARACHI	32.45	244.6	6	39	8					
HYDERABAD	32.79	219.5	6	35	1	11	57	8	9	13 PCP
MAGADAN	33.52	46.0	6	40A	-1				7	53 PP
BAGUIO CITY	33.62	141.6	6	43	2					
NHATRANG	33.81	162.9	6	43K	0	12	11	6		
PORT BLAIR	33.86	192.1	6	47	4	12	9	3	14	26 SS
POONA	34.09	227.3	6	46	1	12	12	3	8	3 PP
BOMBAY	34.33	229.1	6	49	1	12	23	10	8	13 PP
MADRAS	36.03	213.4	7	4	2	12	47	8	8	31 PP
BAKU	36.32	280.5				12	53	9		
PETROPAVLOVK	38.47	56.2	7	22	-1	13	19	3	8	57 PP
KIROVOBAD	38.62	282.8	7	25	1				13	25 PCS
KLYUCHI	39.05	50.8	7	27	0				9	3 PP
GORIS	39.18	281.1	7	30	2	13	34	7	16	27 SSS
TIFLIS	39.29	285.0	7	31	2				16	34
MOSCOW	39.58	308.4	7	32	0	13	34	1	9	6 PP
KODAIKANAL	39.63	215.5							9	10 PP
APATITY	40.35	327.1	7	38	0					
MEDAN	41.39	181.4	7	47	0	14	5	5		
COLOMBO	41.76	210.2				14	10	7	9	46 PP
PULKOVO	42.60	315.6	7	56	-1	14	18	0	9	39 PP
SODANKYLA	42.98	327.1	7	59	-1					
SIMFEROPOL	45.08	294.2	8	17A	0	14	57	3		
HELSINKI	45.12	317.1	8	17	0					
KIRUNA	45.25	328.3	8	18A	0	14	59	3		
YALTA	45.26	293.6	8	15	-3	14	54	-3		
IASI	48.26	299.6	8	44K	2				11	17
UPPSALA	48.72	318.3	8	43A	-2	15	46	0	10	39 PP
NORD	49.26	350.0	8	47	-2	15	58	5		
LWOW	49.27	304.1	8	50	0	15	58	5	10	47 PP
KSARA	49.28	280.0	8	53	3	16	0	7	10	49 PP
GUAM	49.53	114.9	8	48	-4					
SKALSTUGAN	49.71	324.1	8	52A	-1					
WARSAW	49.96	308.1							16	9 PS
ISTANBUL KA.	50.15	291.8	8	56	0				10	49 PP
BUCHAREST	50.44	297.0	9	12	14	16	16	6	23	22
JERUSALEM	50.87	278.2	9	3	1				16	31
KRAKOW	51.54	305.9	9	6	-1				10	59 PP
DABROWA	51.82	306.5							24	25
LEMBANG	52.22	169.9	9	8	-4				9	14
RACIBORZ	52.52	306.6	9	15	1					
TIMISOARA	52.82	300.6	9	23	7				27	49
COPENHAGEN	52.98	314.9	9	17	-1	16	53	9		
SOFIA	53.04	296.3	9	19	1				12	53
BUDAPEST	53.26	303.4							21	1
HURBANOVO	53.58	304.2							23	51
BRATISLAVA	54.08	305.0	9	25	-1				26	51
POTSDAM	54.24	311.1							27	32
PRIHONICE	54.62	307.9	9	28	-2	17	11	4	11	36 PP
PRAGUE	54.64	308.1	9	30	0	17	11	4	13	2
HELWAN	54.70	278.7	9	30A	0	17	12	4		
COLLMBERG	54.81	309.9	9	30	-1					
HALLE	55.28	310.5	9	34	0	17	25	10	11	39 PP

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ATHENS	55.29	291.2	9	34K	-1				10	36 PCP
PLAUEN	55.68	309.4	9	35	-2				11	41 PP
JENA	55.77	310.1	9	36	-2	17	28	6	11	45 PP
CHEB	55.77	308.9	9	45	7				13	23
SCORESBY SD.	57.26	340.1	9	48	-1	17	52	10	23	39 SS
MUNSTER	57.32	312.7	9	49	0				31	1
TRIESTE	57.35	303.8	9	45	-4	17	46	3	22	13 SS
STUTTGART	58.23	308.9	9	54	-1	17	57	3		
TUBINGEN	58.43	308.7	9	55	-2					
COLLEGE	58.50	27.5	9	57	0	18	7	9	21	53
KARLSRUHE	58.53	309.5	9	59	1					
TRUK	58.61	113.3	9	57	-1					
EBINGEN	58.68	308.4	9	56	-3					
CHUR	59.12	306.9	10	4	2					
STRASBOURG	59.12	309.3	10	5	3					
ZURICH	59.36	307.8	10	3	0					
BASLE	59.82	308.4	10	6A	-1	18	7	-8		
FLORENCE X.	59.87	303.2	10	5A	-2	18	21	5	12	23 PP
RESOLUTE	60.09	4.4	10	7A	-1	18	24	5	12	21 PP
ROME	60.22	300.8	10	10K	1	18	21	1	24	31 SSS
DURHAM	60.25	319.1	10	6A	-3	18	15	-6	13	55
MESSINA	60.46	295.8	10	9	-2	18	26	3	12	26 PP
NEUCHATEL	60.48	308.2	10	11	0					
KEW	61.64	315.6	10	18A	-1	18	42	4	22	44 SS
PARIS	61.82	311.9	10	19A	-1	18	41	0		
MONACO	62.14	305.0	10	24	2					
RATHFARNHAM	63.33	319.8	10	19K	-11	18	47	-13		
CLERMONT-FD.	63.34	308.9	10	30A	0	19	1	1		
RABAUL	67.82	121.2	11	0	1					
TORTOSA	67.97	306.1	11	3	3					
SITKA	68.34	28.8	11	3	1					
PORT MORESBY	69.10	128.8	11	6	-1	20	24	14	25	21 SS
ALGIERS UNI.	69.13	301.4	11	6	-1	20	9	-1	11	41 PP
ALICANTE	70.17	304.6	11	8	-5	20	14	-8		
TOLEDO	71.17	307.8	11	18A	-1					
RELIZANE	71.31	302.0	11	19	-1				12	11
ALMERIA	72.35	304.6	11	24	-2					
MALAGA	73.56	305.6	11	25	-9				11	36 PCP
TAMANRASSET	76.96	289.1	11	54A	1	21	42	3		
CHARTERS TS.	77.50	135.5	11	57A	1					
ASTRIDA	77.77	253.7	11	58A	0					
LWIRO	78.15	254.6	12	0	0				31	47
UVIRA	78.83	253.5	12	5	2					
TANANARIVE	79.36	229.4	12	8K	2				12	51
SEATTLE	80.56	27.2	12	16	3					
HUNGRY HORSE	82.36	21.9	12	22	0					
BUTTE	84.90	21.9	12	35	0					
BOZEMAN	85.62	21.0	12	39	1					
BRISBANE	87.11	134.4	12	47A	1	23	21	-1		
MINERAL	87.23	30.3	12	47A	1					
SEVEN FALLS	87.75	353.5	12	50	1					
SHAWINIGAN	88.46	354.7	12	53A	1				14	34
RENO	88.58	29.4	12	54	1					
BERKELEY	89.18	31.9	13	3	7					
HALIFAX	89.40	348.1	12	57A	0					
BREBEUF	89.56	355.2	12	57	0					
OTTAWA	89.76	356.7	12	58A	0					
LICK	89.87	31.7	13	0A	1					
EUREKA	89.91	26.7	13	0	1					
SALT LAKE C.	89.96	23.3	13	0	1					
LARAMIE	91.04	18.7	13	11	7					
FRESNO	91.05	30.6	13	7	3					
MELBOURNE	92.16	145.7	13	0	-10					
BOULDER	92.33	18.9	13	11	1					
BOULDER CITY	93.47	27.3	13	18	2					
PASADENA	93.99	30.6	13	19	1	24	39	15		
PALISADES	94.05	355.1	13	16	-2	23	50	-35	25	42 PS
MORGANTOWN	95.62	359.6	13	27K	2					
TUCSON	98.18	25.7	13	38	1					
FAYETTEVILLE	98.20	11.2	13	38	1				13	44
SOUTH POLE	134.94	180.0	19	12	-6				22	29 PP
BYRD STATION	142.31	169.6	19	26	-5					
HUANCAYO	146.75	350.9	19	45	6					
LA PAZ	149.65	336.2	19	46	2					

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FEBRUARY 25 1.H 56.M 39.S EPICENTRE 51.42 179.42 DEPTH= 0.KM

A=-0.62608 B= 0.00631 C= 0.77973 D= 0.0101 E= 0.9999
G=-0.7797 H= 0.0079 K=-0.6261 HT= -5.9

SE= 1.64

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
PETROPAVLOVK	12.83	285.8	3	8	1	5	44	13					
MAGADAN	18.02	307.9	4	15	1	7	54	21					
COLLEGE	21.58	38.9	4	56	2	9	21	32			5	44	PP
UGLEGORSK	23.83	279.1	5	19	3	9	42	13					
TIKSI	30.04	330.7	6	13	0								
MATUSIRO	32.68	259.2	6	36	0	12	0	7			9	20	PCP
VLADIVOSTOK	32.79	274.3	6	36	-1						11	25	
VICTORIA	36.08	71.5	7	6K	0								
BANFF	39.45	63.9	7	33	-1								
RESOLUTE	40.16	24.3	7	40A	0	13	49	2			9	43	PPP
HUNGRY HORSE	41.66	67.0	7	51	-1	13	37	-32					
BUTTE	43.73	69.2	8	8	-1								
PEKING	44.28	280.9	8	11	-2	14	50	2					
IRKUTSK	44.43	302.0	8	14	-1								
ULAN-BATOR	45.30	295.5	8	22	1	15	23	21					
EUREKA	45.45	78.9	8	23	0								
ZO-SE	46.89	267.6	8	33A	-1	15	26	1					
NORD	46.94	3.2	8	35	1								
SALT LAKE C.	47.18	74.8	8	36	0								
PASADENA	47.45	86.1	8	38	-1								
NANKING	47.73	270.5	8	38	-3	15	17	-20					
BOULDER CITY	48.34	81.8	8	26	-19								
RAPID CITY	50.27	66.1	8	59	-1								
LARAMIE	50.59	70.4	9	2	-1								
BOULDER	51.56	71.5	9	11	1								
TUCSON	53.29	82.6	9	22	-1								
SCORESBY SD.	57.43	8.4	9	52	-1								
HONG KONG	57.53	265.5	9	52A	-2	18	49	58			13	15	PP
APATITY	58.63	345.4	10	0	-1								
SODANKYLA	59.77	348.2	10	8	-1								
KIRUNA	60.03	351.0	10	10	-1	18	32	9					
SVERDLOVSK	60.95	326.6	10	21	4								
SHAWINIGAN	64.40	46.8	10	43	3								
BREBEUF	64.79	48.0	10	40	-3								
SEVEN FALLS	64.84	45.2	10	42	-1								
SKALSTUGAN	64.89	353.7	10	43K	-1								
FRUNSE	65.75	308.8	10	49	0								
MORGANTOWN	66.04	56.2	11	20K	29								
PULKOVO	66.38	343.5	10	56	3								
LHASA	66.48	288.4	10	55	1								
PORT MORESBY	66.68	215.0	11	0	5	19	39	-7			23	7	
HELSINKI	66.87	346.4	10	54	-2								
PALISADES	68.05	51.4	11	4	0	19	59	-4					
UPPSALA	68.11	350.2	11	3	-1								
WESTON	68.25	48.9	11	3	-2								
NAMANGAN	68.60	309.2	11	9	2								
SHILLONG	68.97	284.8	11	9A	0								
CHAPEL HILL	69.28	58.2	11	36	25								
COLUMBIA	69.65	60.9	11	13	-1								
CHITTAGONG	71.39	282.6	11	24	0	20	39	-3					
WARSAK DAM	74.08	304.7	11	39	-1								
LAHORE	74.53	301.2	11	43	0								
CHARTERS TS.	76.84	211.9	11	55	-1								
JENA	77.50	352.2	11	58	-1								
PRUHONICE	78.16	350.1	12	2	-1						12	27	
KISHINEV	78.73	340.0	12	7	1						22	34	
TIFLIS	79.18	327.1	12	9	0								
QUETTA	79.47	305.5	12	11A	1	22	14	3			12	20	PCP
BRATISLAVA	79.64	348.1	12	12	1								
PARIS	80.11	357.9	12	13	-1	22	6	-12					
KARACHI	82.93	302.9	12	33A	5								
KSARA	89.27	330.3	13	1	1								
SAN JUAN	90 10	59.8	13	4	1								
TAMANRASSET	105.93	354.1									18	35	PP
SOUTH POLE	141.24	180 0	19	26	-7								

FEBRUARY 26 11.H 35.M 32.S EPICENTRE 30.68 142.10 DEPTH= 55.KM

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DEPTH OF FOCUS= 0.003R

A=-0.67988 B= 0.52919 C= 0.50766 D= 0.6142 E= 0.7891
G=-0.4006 H= 0.3118 K=-0.8616 HT= 1.6

SE= 2.76

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
MERA	4.64	336.2	1	18	9							
OSIMA	4.68	331.4	1	7	-3							
AJIRO	5.04	330.7	1	13	-2						2	57
OMAEZAKI	5.10	321.1	2	15	60						5	12
MISIMA	5.16	329.9	1	18	2						2	36
YOKOHAMA	5.17	337.2	1	18	2	2	16	1			2	48
SHIZUOKA	5.30	324.9				2	21	2				
TOKYO C.M.O.	5.37	339.0	1	20	1	2	19	-1				
HONGO	5.39	339.3	1	56	37	3	38	77			5	33
HUNATU	5.56	330.7	1	21	-1	2	23	-2				
KOHU	5.76	330.0	1	24	-1	2	32	2			3	4
KAKIOKA	5.77	344.3	1	23	-2	2	27	-3				
TUKUBASAN	5.78	343.7	1	21A	-4							
MITO	5.85	346.9	1	26	0							
IITIBU	5.86	335.2	1	24	-2							
KUMAGAYA	5.91	338.1	1	26	-1	2	27	-7			3	30
IIDA	6.01	324.5				2	29	-8				
OWASE	6.03	305.6				3	8	31				
UTUNOMIYA	6.15	342.9	1	29	-1							
NAGOYA	6.22	317.4	1	40	9	3	4	22				
MAEBASI	6.24	336.9	1	29	-2						3	8
KAMEYAMA	6.31	312.7	1	59	27							
OIWAKE	6.37	333.2	1	24	-9							
GIHU	6.50	317.8	1	37	2	2	49	0			4	22
MATUMOTO	6.54	329.2	1	48	13	3	22	32				
SHIRAKAWA	6.61	346.8				2	43	-8				
MATUSIRO	6.69	332.1	1	35K	-3	2	49	-4			2	24
NAGANO	6.80	332.5	1	41	2							
OSAKA	6.81	307.3	2	4	25						5	9
SUMOTO	7.12	302.9	1	13	-30	2	15	-49			3	12
HUKUSIMA	7.18	349.6	1	42	-2	3	1	-4				
TOYAMA	7.26	327.1	1	53	7							
SENDAI	7.64	352.8	1	48	-3	3	7	-10				
ISINOMAKI	7.76	355.4	1	47	-5	3	12	-8				
MORIOKA	9.03	355.4	2	6	-4	3	44	-7				
OBIHIRO	12.25	3.8				4	58	-11				
VLADIVOSTOK	14.85	329.6	3	24	-4						6	26
GUAM	17.30	171.3	3	56	-3	7	0	-7				
CHANGCHUN	18.69	319.3	4	13	-3							
NANKING	19.94	280.0	4	30	0							
PEKING	23.05	301.0	5	0	-1	9	9	5				
BAGUIO CITY	24.24	239.0	5	13	1	9	30	6				
PETROPAVLOVK	25.47	23.5	5	11	-13						10	19
HONG KONG	26.30	258.2	5	21	-11	9	25	-34			5	56 PP
MAGADAN	29.47	9.0	6	1	1							
ULAN-BATOR	31.88	312.8	6	25	3	11	34	7				
IRKUTSK	35.02	319.0	6	50	1	12	25	9				
NHATRANG	35.51	246.1	7	17A	24						9	21
PORT MORESBY	40.14	172.3	7	30	-2	13	34	0				
TIKSI	41.64	353.7	7	43	-1	14	2	6				
LHASA	43.85	282.2	8	1	-1	14	32	3				
SHILLONG	44.30	276.3	8	4	-2							
CHITTAGONG	45.44	272.1	8	13	-2							
SEMIPALATNSK	49.45	312.0	9	24	38							
LEMBANG	49.82	227.4	8	47	-2							
CHARTERS TS.	50.55	174.9	8	53	-1							
COLLEGE	54.24	29.7	9	22	0							
NAMANGAN	56.63	301.3	9	40	1	17	30	5				
LAHORE	57.14	289.8	9	41	-2							
WARSAK DAM	58.61	293.4	9	53	0							
BRISBANE	58.76	168.6	10	3	9	17	59	6				
SVERDLOVSK	60.38	321.3	10	6	1							
QUETTA	63.57	290.8	10	25	-2	18	59	4				
RESOLUTE	68.61	13.9	10	58K	-1							
SODANKYLA	71.05	338.3	11	14	0							
KIRUNA	72.66	340.2	11	23	0	20	50	7				
MOSCOW	72.73	325.0	11	23	-1	19	46	-58				
TIFLIS	75.25	309.8	11	37	-1	21	18	6				
HUNGRY HORSE	76.09	41.9	11	43	0							
SOTCHI	77.62	313.4	11	45	-7	21	29	-8				

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SKALSTUGAN	78.04	339.4	11	52	-2							
BUTTE	78.14	43.4	11	55	1							
SCORESBY SD.	78.48	354.6	11	58A	2							
UPPSALA	78.93	334.9	11	58	-1							
BOZEMAN	79.23	43.1	12	1	1							
EUREKA	79.42	50.4	12	3	2							
SIMFEROPOL	80.30	316.7	12	12	6						22 8	
SALT LAKE C.	81.41	47.6	12	13	1							
LWOW	82.87	324.8	12	21	2							
RAPID CITY	84.69	41.1	12	30	1							
KRAKOW	84.70	326.8	12	28	-1						15 30	
LARAMIE	84.99	44.4	12	31	1							
KSARA	85.36	306.7	12	34	2	22 50	-7	13	15		23 52	PS
HALLE	87.19	331.4	12	41	0						13 17	
PRUHONICE	87.21	329.2	12	42	1						13 42	
PARIS	93.03	334.6	12	20	-48							
SHAWINIGAN	96.92	23.4	13	26	0							
TAMANRASSET	112.47	316.7									18 52	PP
SOUTH POLE	120.51	180.0	18	45	0							
BYRD STATION	121.45	168.3	18	47	0							
LA PAZ	149.02	69.8	19	46	9							

FEBRUARY 26 16.H 50.M 43.S EPICENTRE 49.58 155.80 DEPTH= 0.KM

A=-0.59371 B= 0.26678 C= 0.75917 D= 0.4099 E= 0.9121
G=-0.6925 H= 0.3112 K=-0.6509 HT= -5.3

SE= 2.30

	DELTA DEG.	AZ. DEG.	P M	S	O-C S	S M	S	O-C S	*PP M	S	SUPP. M	S	
PETROPAVLOVK	3.98	25.6	1	7A	3						1	21	*SP
KLYUCHI	7.38	22.0	1	56	4	3	24	7			2	23	
UGLEGORSK	8.99	272.0	2	23	9								
Y.-SAKHLINSK	9.12	258.2	2	23	7	4	16	15			2	47	
MAGADAN	10.40	345.8	2	37	3						4	42	
TIKUBASAN	17.58	226.4	4	8	0	7	11	-12					
VLADIVOSTOK	17.68	257.7	4	13	4								
MATUSIRO	18.32	231.0	4	18K	2	7	42	4					
TIKSI	25.31	340.4	5	29	-1								
ULAN-BATOR	31.84	286.1	7	39	70								
COLLEGE	32.82	41.0	6	38	1								
LANCHOW	39.66	270.3	7	37	2								
SITKA	40.18	52.2	7	45	5								
CANTON	42.47	247.2	8	1A	2								
HONG KONG	42.53	245.5	7	54	-5						17	13	SS
CHENGTU	42.94	263.7	8	4	2								
BAGUIO CITY	43.65	233.3	8	10	2								
KOROR	45.76	210.2	8	25	0								
RESOLUTE	47.57	19.9	8	39A	0	15	30	-5			10	9	PCP
KUNMING	47.63	259.1	8	41A	1								
NORD	49.00	358.5	8	50	-1						10	14	PCP
NHATRANG	53.35	242.3	9	26K	3						11	32	PP
RABAUL	53.66	184.5	9	27	1								
FRUNSE	54.01	296.1	9	34	6								
HUNGRY HORSE	55.65	53.9	9	39	-1						11	51	PP
CHITTAGONG	56.53	265.7	9	48	1	17	34	-3			10	49	PCP
SODANKYLA	57.26	339.1	9	50	-2								
BUTTE	57.88	55.3	9	55	-1								
KIRUNA	58.23	341.7	9	56	-3								
BOZEMAN	58.92	54.8	10	3	0								
PORT MORESBY	59.22	190.0	10	5	-1						10	40	
EUREKA	60.24	63.0	10	13	0								
LAHORE	61.47	286.0	10	20K	-1								
WARSAK DAM	61.53	289.9	10	21K	0								
SALT LAKE C.	61.73	59.5	10	23	0								
PASADENA	62.51	68.9	10	28	0								
BOULDER CITY	63.26	65.2	10	33	0								
SKALSTUGAN	63.59	342.7	10	33	-2						11	10	PCP
HELSINKI	63.60	335.0	10	33	-2								
RAPID CITY	64.10	51.9	10	38	0						15	14	
LARAMIE	64.80	55.4	10	40	-3								
UPPSALA	65.76	338.3	10	48	-1						11	19	PCP
ASHKABAD	66.54	301.3	10	56	2								
QUETTA	66.98	289.8	10	56	-1	19	47	-3			11	26	PCP
TUCSON	68.24	65.6	11	5	0								

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CHARTE [illegible]	69.79	189.6	11	15A	1		
LEMBANG	70.05	231.9	11	15A	-1		
TIFLIS	70.81	312.3	11	21	0		
HALLE	74.69	337.5	11	43	0		
JENA	75.31	337.5	11	47	0		
OTTAWA	75.32	34.8	11	46A	-1		
SHAWINIGAN	75.40	32.3	11	46A	-1		
PRUHONICE	75.40	335.3	11	47	-1	14 11	PP
SEVEN FALLS	75.56	30.8	11	48	0		
BRISBANE	76.75	182.5	11	57K	2		
STUTTGART	77.89	338.1	12	0	-1	23 5	PPS
ISTANBUL KA.	78.32	321.8	12	2	-2		
MORGANTOWN	78.50	40.7	11	59A	-6		
BASLE	79.44	338.7	12	9	-1		
WESTON	79.53	33.5	12	10A	0		
NEUCHATEL	80.09	338.9	12	14	1		
KSARA	81.36	313.1	12	21	1		
ATHENS	83.09	323.8	12	26K	-3		
JERUSALEM	83.35	312.4	12	28	-2		
HELWAN	86.78	314.2	12	48	0		
MELBOURNE	87.56	188.6	11	52A	-59		
TAMANRASSET	103.27	332.0	14	3	0		
HUANCAYO	123.85	66.5	19	3	3		
BYRD STATION	137.48	165.1	19	15	-11	22 53	PKS
KIMBERLEY	137.60	280.8	19	16A	-10		
SOUTH POLE	139.39	180.0	19	20	-10		

FEBRUARY 26 17.H 18.M 54.S EPICENTRE 40.84 143.83 DEPTH= 0.KM

A=-0.61249 B= 0.44772 C= 0.65146 D= 0.5901 E= 0.8073
G=-0.5259 H= 0.3844 K=-0.7587 HT= -2.0

SE= 3.42

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
URAKAWA	1.53	329.1	0	31A	2	0	51	1				
HATINOHE	1.78	260.6	0	35	3	0	56	0			1	8
MIYAKO	1.86	230.7	0	33	-1	0	53	-5			0	44
OBIHIRO	2.13	347.4	0	38	1	1	3	-2				
KUSIRO	2.18	11.0	0	40	2	1	6	0			1	34
AOMORI	2.32	270.4	0	42	2						1	26
MORIOKA	2.34	241.6	0	39A	-1	1	4	-6				
TOMAKOMAI	2.38	315.5	0	51	10							
HAKODATE	2.53	292.8	0	42	-1	1	7	-8			1	27
MURORAN	2.61	305.6	0	43	-1	1	24	7			1	1
MIZUSAWA	2.69	231.4	0	44	-2	1	25	6				
MORI	2.76	298.2	0	53	7	1	34	13				
NEMURO	2.80	27.0	0	48A	1	1	21	-1			1	9
SAPPORO	2.90	321.0	0	55	7	1	28	4			1	48
AKITA	3.07	249.8	0	49	-2	1	33	4			1	4
ISINOMAKI	3.09	219.7	0	49	-2	1	33	3				
ASAHIGAWA	3.13	340.2	0	54	2	1	45	14				
ABASHIRI	3.19	5.8	0	54	1	1	27	-5				
SUTTSU	3.33	307.2	0	52	-3	1	32	-4				
SENDAI	3.43	222.4	0	54	-2	1	41	3			2	10
SAKATA	3.64	239.1	1	6	7	1	57	13				
YAMAGATA	3.74	227.2	0	59	-1	1	47	1			2	10
HUKUSIMA	4.04	221.3	1	3	-2	2	3	9				
ONAHAMA	4.51	211.4	1	10	-1						1	29
SHIRAKAWA	4.66	218.3	1	14	0	2	13	4			1	47
NIIGATA	4.72	233.3	2	5	51						2	57
MITO	5.18	211.7	1	18	-3						2	37
UTUNOMIYA	5.29	217.1	1	19	-3						1	57
KAKIOKA	5.42	213.0	1	19	-5						1	39
TUKUBASAN	5.46	213.6	1	20A	-5							
TAKADA	5.73	231.1	1	37	8							
MAEBASI	5.79	221.6	1	25	-5	2	33	-5			1	59
KUMAGAYA	5.84	218.1	1	30	0						3	7
NAGANO	6.06	228.4	1	35	2						3	32
TOKYO C.M.O.	6.07	213.2	1	30	-3	2	34	-11				
OIWAKE	6.12	224.3	1	38	4						2	58
TITIBU	6.12	219.1	1	32	-2							
MATUSIRO	6.14	227.5	1	32K	-2	2	35	-11			3	7
Y.-SAKHLINSK	6.16	352.9	1	36	1	2	51	4			3	37
YOKOHAMA	6.33	212.7	1	34	-3	2	42	-9			1	49

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WAZIMA	6.40	239.6	1 41	3			
MATUMOTO	6.49	226.9	1 40	1			
TOYAMA	6.63	233.5	1 43	2	2 54	-5	
KOHU	6.65	220.2	1 40	-2			3 25
MERA	6.71	209.4	1 38	-4			
AJIRO	6.89	214.4	1 48	3			3 31
MISIMA	6.89	215.6	1 44	-1			2 29
OSIMA	7.01	211.6	1 43	-4			
IIDA	7.11	223.6	1 53	5			3 32
SHIZUOKA	7.27	217.9	1 35	-15			4 27
HUKUI	7.62	233.5	2 1	6			
OMAESAKI	7.65	217.3	2 8	12	3 53	29	
GIHU	7.78	227.9	2 2	5			2 35
NAGOYA	7.84	225.9	2 5	7	3 43	14	
IBUKISAN	8.01	229.5	2 3	2			
HIKONE	8.17	229.5	2 12	9			
KAMEYAMA	8.35	226.6	2 12	7			4 8
OWASE	9.08	224.3	2 30	14			
VLADIVOSTOK	9.18	288.3	2 16	-1			2 26
TOKUSIMA	9.99	230.3	2 35	7			
MAGADAN	19.23	10.8	4 26	-2			
ULAN-BATOR	27.13	297.6	5 54	7	10 48	24	
GUAM	27.28	178.1	6 18	30			
KYAKHTA	27.58	302.9	5 50	-1			
NHATRANG	41.64	236.7	7 59	7			12 18
SEMIPALATNSK	44.23	304.7	8 11	-2			
COLLEGE	44.88	34.2	8 19	1			
SHILLONG	45.42	267.0	8 27	5			
RABAUL	45.47	168.3	8 22	-1			
CHITTAGONG	47.26	263.4	8 36K	-1			10 9 PCP
CHATRA	48.32	271.6	8 27	-18			
PORT MORESBY	50.08	175.7	9 22	23			
SVERDLOVSK	53.59	317.3	9 23	-2			
LAHORE	55.53	284.1	9 36A	-3			
STALINABAD	56.11	294.1	9 42	-2			
WARSAK DAM	56.33	288.0	9 42A	-3			
NORD	57.37	356.7	9 51	-2			
LEMBANG	57.94	223.8	9 54	-3			
RESOLUTE	58.44	15.5	9 58A	-2	18 6	3	
CHARTERS TS.	60.58	177.4	10 20K	5			
QUETTA	61.65	286.6	10 19A	-3	18 39	-5	
SODANKYLA	62.19	337.1	10 24	-2			
POONA	63.12	271.8	10 29	-3			
KIRUNA	63.63	339.3	10 33	-2			
MOSCOW	65.33	323.3	10 44	-2			
HELSINKI	67.60	331.7	10 59	-2			
HUNGRY HORSE	67.73	44.8	11 1	-1			
MINERAL	68.04	55.2	11 4	0			
BRISBANE	68.51	171.2	11 14K	8			
SCORESBY SD.	68.51	354.9	11 1	-6			
SKALSTUGAN	69.05	339.0	11 9	-1			
RENO	69.63	55.1	11 12	-1			
BUTTE	69.94	46.1	11 32	17			
TIFLIS	69.96	308.1	11 14	-1			
UPPSALA	70.36	334.4	11 24	6			
BOZEMAN	70.99	45.7	11 22	0			
EUREKA	72.03	53.2	11 29	1			12 13
SALT LAKE C.	73.66	50.1	11 38	1			
BOULDER CITY	74.93	55.4	11 46	1			
KRAKOW	76.99	326.7	11 56	0			12 35
RACIBORZ	77.67	327.6	12 0	0			
MELBOURNE	78.30	179.1	12 11	7			
PRUHONICE	79.20	329.4	12 8	-1			15 42 PP
JENA	79.54	331.6	12 9	-1			
TUCSON	79.87	56.1	12 14	2			
STUTTGART	82.19	331.6	12 23	-1			
SHAWINIGAN	87.07	24.3	12 47	-2			
SEVEN FALLS	87.15	22.9	12 48	-1			
TAMANRASSET	105.79	320.4					18 13 PP
SOUTH POLE	130.65	180.0	19 10	-3			
BYRD STATION	131.06	166.7	19 13	-1			

FEBRUARY 27 23.H 27.M 59.S EPICENTRE 20.94 120.10 DEPTH= 53.KM

DEPTH OF FOCUS= 0.003R

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A=-0.46883 B= 0.80870 C= 0.35526 D= 0.8651 E= 0.5015
G=-0.1782 H= 0.3073 K=-0.9348 HT= 4.4

SE= 3.27

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
HENGCHUN	1.22	29.6	0 16	-5	0 35	-3		
TAWU	1.59	27.7	0 21K	-6	0 46	-1		
TAITUNG	2.05	28.2	0 34	1	1 8	10		
TAINAN	2.05	3.0	0 28	-5	1 4	6		
HSINKONG	2.45	28.4	0 32	-7	1 3	-5		
PENGHU	2.63	348.9	0 45	4	1 16	4		
ALISHAN	2.65	14.0	0 39	-2	1 11	-2		
TAICHUNG	3.24	9.4	0 46	-4	1 24	-4		
HWALIEN	3.33	24.7	0 49	-2	1 23	-7		
ILAN	4.11	21.4	1 2	0	1 41	-8		
TAIPEI	4.28	17.5	1 4	0	1 56	2		
BAGUIO CITY	4.52	174.2	0 59	-8				
HONG KONG	5.68	284.9	1 17A	-7				
MANILA	6.38	172.3	2 36	62				
CANTON	6.68	289.9	1 28	-10	2 48	-5		
ZO-SE	10.17	5.2	2 20A	-6	4 40	21		
NANKING	11.13	354.3	2 34	-5	4 44	1		
YAKUSIMA	13.32	42.6	3 14	6			5 39	
NHATRANG	13.56	232.0	3 4	-7	4 57	-44		
TOMIF	13.97	31.8	3 17	0			8 48	
KAGOSIMA	14.13	39.3	3 18	-1	6 14	19		
NAGASAKI	14.62	34.5	3 17	-8			6 31	
MIYAZAKI	14.90	40.5	3 37	8	6 51	38	4 23	
KUMAMOTO	15.13	36.4	3 32	0	6 35	17		
SAGA	15.25	34.3	3 41	8			6 18	
HUKUOKA	15.57	33.9	3 37	0	6 39	11		
UOITA	15.96	37.5					4 47	
SIMONOSEKI	16.12	34.2	3 45	1				
SIMIDU	16.44	41.5	3 45	-3				
UWAZIMA	16.50	39.5					7 54	
KUNMING	16.55	287.6	3 47K	-3			4 3	PP
LINFEN	16.87	335.4	3 46	-8				
MATUYAMA	17.04	38.5	3 48	-8			7 28	
HIROSIMA	17.25	36.6	3 51	-8			9 30	
KOTI	17.31	40.7	3 58	-1	7 25	17		
CHENGTU	17.41	307.0	3 58K	-3				
HAMADA	17.45	34.6	3 49	-12	7 7	-4		
MUROTO	17.51	42.6	4 1	-1			9 26	
DAIREN	17.95	3.9	4 6	-1				
TAIYUAN	18.01	340.4	4 10	2				
TAKAMATU	18.15	39.8	4 14	4	7 52	25	10 27	
TOKUSIMA	18.30	41.4	4 11	0				
TIENSHUI	18.57	320.0	4 11	-4				
SIOMISAKI	18.67	44.9	4 11	-5	7 55	16		
SIIMOTO	18.67	41.2	4 13	-3	7 38	-1	4 58	PP
KORE	19.08	41.0	4 9	-12			10 2	
OSAKA	19.27	41.6	4 24	1			6 34	
PEKING	19.32	350.8	4 21K	-2	7 59	6		
OWASE	19.33	44.1	4 19	-4	8 7	14		
KOROR	19.40	132.1	4 15	-9	7 48	-7		
TOYOOKA	19.44	38.5	4 27	2				
KWANTING	19.61	349.7	4 22	-4				
KYOTO	19.64	41.1	4 20	-7	7 49	-11		
TU	19.95	43.0	4 40	10				
TATUNG	19.97	344.5	4 35	5				
KAMEYAMA	19.99	42.7	4 30	-1	8 13	5	5 4	PP
HIKONE	20.13	41.4	4 32	0	8 15	5		
IBUKISAN	20.28	41.4	4 34	0				
IORISIMA	20.50	58.3	4 40	4	8 32	15		
NAGOYA	20.51	42.7	4 32	-4			9 54	
GIHU	20.53	41.9	4 35	-1	8 25	7		
HUKUI	20.66	39.8	4 38	0				
LANCHOW	20.75	320.1	4 36K	-2				
OMAESAKI	20.98	45.8	4 45	4			9 19	
YINCHUAN	21.16	328.7	4 46	3				
IIDA	21.28	43.2	4 43	-1	8 42	10		
SHIZUOKA	21.32	45.2	4 47A	3	8 43	10		
TOYAMA	21.65	39.8	4 48	0	8 51	12		
MISIMA	21.77	45.6	4 48	-1				
KOHU	21.82	44.0	4 53	4	8 53	11		
MATUMOTO	21.83	41.8	4 51	2	8 54	12		

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AJIRO	21.83	45.9	4	56	7	9	7	25		
OSIMA	21.86	46.9	4	36	-14					
HUNATU	21.88	44.5	4	49	-1	8	56	13		
WAZIMA	21.93	38.0	5	1	11					
MATUSIRO	22.17	41.6	4	48A	-5	8	47	-2	5	50 PP
NAGANO	22.24	41.3	4	56	3	9	1	11		
OIWAKE	22.24	42.5	4	55	2					
MERA	22.25	47.1	4	54	0					
TITIBU	22.37	43.9	4	56	1					
YOKOHAMA	22.42	45.8	4	52	-3				9	30
TAKADA	22.54	40.5	5	19	23					
MAEBASI	22.61	43.0	4	55	-2				9	35
TOKYO C.M.O.	22.63	45.4	5	5K	8	9	13	16		
HONGO	22.66	45.3	5	3A	5	9	20	23	10	30
KUMAGAYA	22.66	43.9	5	1	3				7	33
WUWEI	22.69	322.0	5	0	2					
TUKUBASAN	23.17	44.6	4	55	-8				5	35 PP
UTUNOMIYA	23.22	43.7	5	5	2	9	12	5	5	43
CHANGCHUN	23.24	9.6	5	1	-2	9	11	3		
MITO	23.51	44.8	5	6	0	9	29	17	5	38
NIIGATA	23.56	40.0	5	21	15					
SHIRAKAWA	23.78	43.0	5	8	0	9	20	3		
TOCKLAI	23.86	288.9	5	35	26					
ONAHAMA	24.12	44.1	5	31	19	9	24	1		
VLADIVOSTOK	24.22	21.4	5	10	-3				9	36
HIKUSIMA	24.32	42.1	5	12	-2					
GUAM	24.67	103.5	5	11	-6	10	1	29		
SENDAI	24.91	41.6	5	15	-4	9	28	-8		
AKITA	25.36	38.0	5	21	-3					
MIZUSAWA	25.59	40.3	5	26	0	9	49	2		
MORIOKA	25.97	39.3	5	26	-3					
SUIHWA	26.23	10.8	5	33	1					
CHITTAGONG	26.31	278.3	5	32	0	10	9	10	6	20 PP
SHILLONG	26.32	285.5	5	30K	-3	10	7	7	6	16 PP
MIYAKO	26.42	40.3	5	30	-3	10	4	3		
AOMORI	26.48	36.9	5	35	1					
HATINOHE	26.72	38.3	5	34	-2					
MEDAN	27.06	233.3	5	38K	-1	10	17	5		
MORI	27.25	34.6	5	21	-20					
SUTTSU	27.57	33.2	5	45	1	10	19	-1		
LHASA	27.61	294.1	5	44	0	10	28	8	6	36 PP
PORT BLAIR	27.81	254.9	5	54	8	10	32	8	7	20
SAPPORO	28.34	34.0	5	47	-4	10	39	7	13	36
URAKAWA	28.49	36.9	6	0	8	10	52	17	8	38
ULAN-BATOR	28.95	341.5	5	58	2	10	17	-25		
OBIHIRO	29.23	36.2	6	4	5					
CALCUTTA	29.52	279.0	5	57	-4	10	50	-1	12	20 SS
HOWRAH	29.54	279.0	6	3	1	9	37	-74		
DJAKARTA	29.94	207.2	6	3A	-2	11	2	4		
KUSIRO	29.94	37.2	6	6	1					
WAKKANAI	30.18	31.0							6	28
LEMBANG	30.20	205.3	6	6	-1	11	6	4		
BANDUNG	30.26	205.2	6	10	2	11	10	7		
CHATRA	30.62	287.5	5	52	-19				11	5
BOKARO	31.80	281.7	6	19K	-3	11	33	6	7	27 PP
TRUK	33.48	108.9	6	32	-4					
IRKUTSK	33.59	342.4	6	37K	0				8	13 PP
AGRA	38.79	287.6	7	21K	0	13	18	4	8	57 PP
DEHRA DUN	38.86	292.6	7	23	1	13	22	6	13	54 PPS
MADRAS	38.91	264.8	7	22	0	13	27	11	8	58 PP
HYDERABAD	39.42	272.2	7	26K	0	13	35	11	9	2 PP
RABAUL	40.16	124.8	7	32	0					
LAHORE	42.13	294.2	7	46K	-3					
KODAIKANAL	42.30	262.1	7	50K	0	14	8	1	10	5 PPP
SEMIPALATNSK	42.93	323.0	7	54	-1				13	34 PCS
POONA	43.49	275.2	8	1K	1	14	34	10	9	46 PP
FRUNSE	43.76	310.7	8	3K	1				18	2 SCS
BOMBAY	44.38	276.0	8	7	0	14	43	6	14	53 PS
WARSAK DAM	44.62	297.6	8	8	-1					
TASHKENT	47.28	307.4	8	31	1				18	13 SCS
STALINABAD	47.28	303.6	8	34	4	15	25	7		
CHARTERS TS.	48.07	146.1	8	37	1	15	39	9		
QUETTA	48.46	292.2	8	36	-3	15	44	9	10	32 PP
KARACHI	48.68	286.4	8	42	1					
TIKSI	50.96	3.6	8	53	-5				18	36 SCS
PERTH	52.75	184.6	9	10	-2	16	42	8	11	23
ASHKABAD	55.44	302.3	9	32	1				11	35 PP
SVERDLOVSK	56.10	325.2	9	37	1				19	24 SCS
BRISBANE	57.72	145.2	9	45	-3	17	41	C		

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KIVERVIEW	61.98	150.9	10	18K	1	18	41	6			
MELBOURNE	62.96	158.0	10	22K	-1	19	4	16	12	43	PP
GORIS	64.71	304.8	10	35	0				20	23	SCS
TIFLIS	65.60	307.3	10	41	1				13	6	PP
FORT NELSON	68.33	158.8	11	4A	6				11	31	
MOSCOW	68.76	323.0	10	59	-1	19	59	1	11	26	PCP
SUVA	69.10	120.0	11	4A	2	20	12	10	11	18	PCP
APATITY	69.58	335.8	11	2	-3						
PULKOVO	72.05	327.9	11	20	0	20	41	4	11	42	PCP
COLLEGE	72.14	26.6	11	18	-3	20	44	6	14	9	PP
SODANKYLA	72.20	336.1	11	18	-3						
SIMFEROPOL	72.74	312.1	11	24K	0	20	50	5	14	14	PP
KSARA	74.03	300.5	11	35K	3	21	3	4	14	23	PP
KIRUNA	74.39	337.1	11	31	-3	21	8	5	16	11	
HELSINKI	74.58	328.9	11	33	-2						
APIA	75.27	111.2	11	41	2						
HONOLULU	75.37	72.5	11	56	17	21	21	7	26	37	SS
NORD	75.45	354.0	11	39	-1	21	22	7	12	17	
IASI	76.60	315.5	11	48	1						
LWOW	78.08	318.8	11	56	1	21	47	4	12	24	
UPPSALA	78.18	329.8	11	52	-3	21	51	7			
BUCHAREST	78.40	313.1	11	59A	3	21	58	11	22	35	PS
HELWAN	78.85	297.7	11	59	0	21	59	8			
SKALSTUGAN	79.06	334.3	11	57	-3						
WARSAW	79.08	321.8	12	2A	2				15	3	PP
SITKA	80.27	32.5	12	9	2						
KRAKOW	80.49	320.0	12	6	-2	22	0	-9	15	24	
SKALNATE PL.	80.61	319.1	11	58	-10				15	13	
SOFIA	80.86	312.1	12	9	-1	22	23	10	15	43	PP
TIMISOARA	81.22	315.6	12	25	13	22	27	11	15	13	PP
TANANARIVE	81.33	246.0	12	13A	1				13	26	
RACIBORZ	81.52	320.4	12	15	2				18	1	
BUDAPEST	81.97	317.7				22	27	3	12	18	PCP
RESOLUTE	82.02	8.9	12	12K	-4	22	29	5	15	22	PP
BELGRADE	82.07	314.9	12	15A	-1	22	28	3			
ATHENS	82.21	307.6	12	13K	-4						
HURBANOVO	82.36	318.3							13	19	
COPENHAGEN	82.40	327.0	12	21	3	22	36	8	27	44	SS
SKOPJE	82.46	312.0	12	20K	2	22	41	12			
THULE	82.72	2.0	12	19	0				15	31	PP
BRATISLAVA	82.93	318.9	12	19	-1	22	34	0	15	35	PP
BERGEN	83.47	333.0				22	23	-16	23	23	PS
POTSDAM	83.52	323.9	12	20	-3						
PRUHONICE	83.71	321.3	12	22	-2	22	51	10	15	30	PP
PRAGUE	83.75	321.4	12	27K	2	22	48	6	24	26	PS
COLLMBERG	84.03	322.9	12	25	-1	22	51	6			
HALLE	84.53	323.4	12	27	-2	22	47	-3	15	45	PP
ZAGREB	84.58	317.1	12	20	-9						
PLAUEN	84.87	322.4	12	28	-2						
CHUR	84.93	322.0	12	33	3				16	24	
JENA	85.00	323.0	12	28	-3	23	5	11	15	55	PP
SCORESBY SD	85.02	348.0	12	34	3	23	2	8	28	29	SS
SONNEBERG	85.47	322.6	12	33	0						
TRIESTE	86.07	317.6	12	36	0	23	13	8	16	11	PP
MUNSTER	86.68	325.1	12	51	12						
WITTEVEEN	86.75	326.1	12	39	0						
STUTTGART	87.38	321.8	12	43	1	23	21	4	15	45	PP
TUBINGEN	87.57	321.6	12	43	0						
KARLSRUHE	87.71	322.2	12	46	2				16	20	
EBINGEN	87.80	321.3	12	43	-1						
DE BILT	87.90	326.0	12	49	4	23	51	29	23	18	SKS
REGGIO CALA.	88.04	310.1	12	42	-4	23	34	11			
MESSINA	88.07	310.3	12	49	3	23	29	6	16	29	PP
CHUR	88.11	320.0	12	46	0						
BOLOGNA	88.12	317.3	13	2	16				16	25	PP
STRASBOURG	88.30	322.1	12	50	3	23	33	7	23	21	SKS
ABERDEEN	88.48	332.5	12	47K	-1	23	32	5	23	18	SKS
FLORENCE X.	88.50	316.7	12	45	-3	23	35	7	24	34	PS
ROME	88.56	314.6	12	49	1	23	35	7	29	41	SS
BASLE	88.93	321.2	12	52	2				22	20	
PAVIA	89.14	318.6	12	57	6	23	54	21	25	43	
MIRNY	89.57	190.5	12	55A	2	23	12	-25	16	24	PP
NEUCHATEL	89.57	321.0	13	5	12	23	46	9			
DURHAM	89.71	330.5	13	9A	15	23	47	8	16	37	PP
HORSESHOF B.	90.28	35.8	12	55	-1						
VICTORIA	90.67	36.5	12	56	-2	23	25	-22			
KEW	91.08	327.4	13	12	12	23	59	8	23	36	SKS
PARIS	91.14	324.1	12	59A	-1	23	59	8			

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ASTRIDA	91.26	267.7	13	1	0				14	12		
LWIRO	92.01	268.4	13	6A	2						16	33 PP
UVIRA	92.14	267.1	13	6	1				14	16		
CLERMONT-FD.	92.47	321.4	13	13	7	24	25	22				
RATHFARNHAM	92.79	331.1	13	37	29	24	10	4			30	21 SS
CORVALLIS	92.90	39.8	13	11	3							
BANFF	93.22	31.4	13	7	-3							
HUNGRY HORSE	95.78	32.9	13	20	-1						30	8 PKKP
MINERAL	96.29	42.6	13	21A	-3							
BERKELEY	97.24	45.0	13	30	2							
RENO	97.88	42.5	13	36	5							
BUTTE	98.06	34.0	13	31	-1							
ALICANTE	98.88	316.8	13	29	-7	24	53	-5				
EUREKA	100.30	40.7	13	40	-2						30	23 PKKP
TAMANRASSET	102.83	300.6	13	57	4	25	34	3			18	14 PP
BOULDER CITY	103.17	43.0	14	4	9							
TUCSON	108.09	43.8	17	40	777						18	42 PP
HERMANUS	110.22	239.9									28	39 PS
SOUTH POLE	110.81	180.0	14	32	777						19	3 PP
HALIFAX	114.68	2.9									26	39 SKKS
BYRD STATION	115.61	170.4	14	50	777						19	26 PP
PALISADES	117.01	11.9									19	55 PP
BERMUDA	126.79	5.1	18	45	-13						21	1 PP
SAN JUAN	140.45	9.3	19	33	10						23	5 PP
FORT FRANCE	144.53	2.1	19	37	7							
ST. VINCENT	146.08	2.4	19	36	3							
BARBADOS	146.15	359.5	19	40	7							
BOGOTA	151.04	30.3	19	49	8						30	5 SKKS
HUANCAYO	162.78	61.5	20	1	5						24	35 PP
LA PAZ	171.04	61.9	20	5	3						25	19 PP

FEBRUARY 28 9.H 55.M 1.S EPICENTRE 27.09 -44.47 DEPTH= 53.KM

DEPTH OF FOCUS= 0.003R

A= 0.63614 B=-0.62458 C= 0.45302 D=-0.7006 E=-0.7136
G= 0.3233 H=-0.3174 K=-0.8915 HT= 2.7

SE= 2.50

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
BERMUDA	18.31	291.5	4	12A	1	7	35	4			5	2	PPP
ST. CLAUDE	19.41	238.9	4	25	1								
FORT FRANCE	19.82	235.0	4	27	-2						8	28	
ST VINCENT	20.95	231.9	4	38	-2								
SAN JUAN	21.74	251.0	4	46	-2	8	52	12			30	35	PKPPKP
HALIFAX	23.27	323.7	5	3	0	9	22	14					
PALISADES	27.91	307.4	5	49	2	10	33	8			6	37	PP
MBOUR	28.59	110.7	5	53	0	10	30	-6					
SEVEN FALLS	28.78	321.0	5	54	-1	10	51	12					
SHAWNIGAN	29.60	318.5	6	0	-3								
CHAPEL HILL	30.64	295.3	6	9	-2								
OTTAWA	30.85	314.6	6	14	1	11	21	9			7	21	PP
MORGANTOWN	31.95	302.1	6	24K	1								
COLUMBIA	32.10	291.4	6	23	-1	11	42	11			12	23	
MALAGA	35.13	64.0	6	51A	1	12	21	3			8	12	PP
FUQUENE	35.20	237.6	6	52	1	12	38	19			8	7	PP
GRANADA	35.81	63.3	7	9	13								
BOGOTA	36.01	236.9	7	5	8	13	13	41			8	19	PP
ALICANTE	38.35	61.7	7	12	-5	13	3	-5					
RATHFARNHAM	38.47	36.6	7	23	5								
KEW	41.10	41.5	7	40	0	13	56	7			17	30	SCS
MERIDA	41.52	271.6									17	59	SCS
DURHAM	41.61	36.4	7	OK	-44	13	5	-51			14	5	
CLERMONT-FD.	41.90	50.7	7	51	5	14	10	9					
PARIS	42.09	46.1	7	49	1	14	12	9					
ABERDEEN	42.38	33.0				14	15	7			17	12	SS
NEUCHATEL	44.70	49.5	8	10	1								
SCORESBY SD.	45.29	10.4	8	12	-2								
TAMANRASSET	45.30	84.0	8	14	0	15	6	16			10	8	PP
STRASBOURG	45.48	47.4	8	9	-6	15	4	12			3	23	SS
PAVIA	46.05	52.3	8	17	-3								
STUTTGART	46.44	47.4	8	22	-1	15	11	5			10	21	PP
FLORENCE V.	47.47	54.3	8	37	6	15	46	25			9	8	
SONNEBERG	47.94	45.4	8	34	-1						8	47	
JENA	48.26	44.7	8	31	-6						9	11	

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ROME	48.37	56.8						9 0		
HALLE	48.56	44.0	8 39	-1				10 34	PP	
LA PAZ	49.04	210.6	8 42	-1	15 46	3		10 41	PP	
HUANCAYO	49.10	221.6	8 42	-2	15 53	9		10 29	PP	
TRIESTE	49.29	51.9	8 45	0	15 57	11		9 21		
COPENHAGEN	49.54	38.6			16 5	15				
RAPID CITY	49.64	306.1	8 49	1				10 51	PP	
PRAGUE	49.98	46.1	8 52	2	15 55	3		10 53	PP	
PRUHONICE	50.05	46.2	8 51	0	16 3	6		10 54	PP	
TACUBAYA	50.54	273.5	9 14	19				14 57		
THULE	50.74	352.9	9 0	4						
SKALSTUGAN	51.41	28.6	9 2	1						
LARAMIE	51.51	302.6	9 3	1						
BRATISLAVA	51.64	48.7	9 2	-1				11 5		
SASKATOON	52.16	316.4			16 34	8				
UPPSALA	53.01	34.0	9 17	4	16 50	12				
RESOLUTE	54.00	345.3	9 17K	-4	17 5	14		20 35	SS	
BOZEMAN	55.15	308.4	9 29	0				10 11		
NORR	55.66	4.8	9 30	-3						
KIRUNA	55.76	24.6	9 32	-1						
BUTTE	56.17	308.9	9 35	-1						
SALT LAKE C.	56.28	302.6	9 36	-1						
HUNGRY HORSE	56.96	311.8	9 39	-3						
TUCSON	57.08	292.4	9 42	-1	17 48	16		13 23	PPP	
BANFF	57.72	315.2	9 45A	-2						
SODANKYLA	58.03	25.6	9 48	-2						
PULKOVO	59.40	34.6	10 5	6				18 10		
BOULDER CITY	59.46	297.5	9 59	0						
EUREKA	59.61	301.7	10 0	0				10 50	PCP	
KISHINEV	59.63	49.4	9 58	-3						
APATITY	60.66	25.5	9 27	-41						
ISTANBUL KA.	60.83	56.1	10 6	-3	18 30	9				
RENO	62.50	302.5	10 19	-1						
PASADENA	62.57	296.3	10 4	-16	18 53	10		10 19		
VICTORIA	63.13	313.0	10 22A	-2	19 3	14				
FRESNO	63.17	299.5	10 22	-2						
MINERAL	63.64	303.7	10 26K	-2						
MOSCOW	63.71	38.7	10 14	-14				10 43		
CORVALLIS	63.87	308.7	10 33	4						
LICK	64.44	300.5	10 33A	0						
BERKELEY	64.77	301.2	10 39	4	19 32	22				
HELWAN	65.52	67.7	10 40	0				11 41		
SOTCHI	67.87	51.3	10 55	1						
YSARA	67.96	62.3	10 56	1	20 5	17		13 33	PP	
JERUSALEM	68.08	64.6	10 57	1						
COLLEGE	71.23	334.0	11 14	-1	20 28	1		24 15	SS	
TIFLIS	72.01	51.9	11 21	1				20 44		
SVERDLOVSK	75.48	33.2	11 40	0						
LWIRO	76.19	99.8	11 45	1	21 38	15				
UVIRA	77.06	100.7	11 51A	2			11 57			
ASTRIDA	77.17	99.6	11 50A	1			11 56			
HERMANUS	85.89	132.0						24 4	PS	
NAMANGAN	90.08	42.8	12 56	1				23 7		
QUETTA	93.18	53.8	13 10	1	23 49	-20		30 39	SS	
MIRNY	132.70	158.4						22 33		
NHATRANG	133.31	36.6	19 13	3				21 48	PP	
LEMBANG	146.70	57.8	19 43	9						
CHARTERS TS.	167.90	303.4	20 4	4						

MARCH 1 9.H 5.M 49.S EPICENTRE -13.31 -76.45 DEPTH= 53.KM

DEPTH OF FOCUS= 0.003R

A= 0.22804 B=-0.94640 C=-0.22876 D=-0.9722 E=-0.2343
G=-0.0536 H= 0.2224 K=-0.9735 HT= 6.1

SE= 2.30

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
HUANCAYO	1.66	41.3	0 28A	1				
LA PAZ	8.65	112.5	2 3K	-2	3 36	-6		2 14 PP
BOGOTA	17.97	7.7	4 10	3	7 36	13		
FUQUENE	18.85	8.4	4 16	-2	7 47	4		
SANTA LUCIA	20.71	166.2	4 39	1				
BALBOA HTS.	22.34	351.9	4 56	2	9 1	10		

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ST. VINCENT	30.31	30.4	6 5	-3						
BARBADOS	31.12	33.1	6 16	1						
SAN JUAN	33.10	18.2	6 31	-2					7 2	
TACUBAYA	39.48	325.0	7 29	3	13 25	0			8 51	PP
COLUMBIA	47.25	354.8	8 28	-1						
FAYETTEVILLE	51.91	341.7	9 4A	-1					10 28	PP
PALISADES	54.09	2.4							16 44	
TUCSON	55.99	324.7	9 35	0					10 42	
OTTAWA	58.43	0.6	10 0	8						
SHAWINIGAN	59.67	2.9	9 59	-2			10 20		10 34	PCP
SEVEN FALLS	60.36	4.4	10 3	-3			10 26			
LARAMIE	60.65	335.1	10 7	-1						
PASADENA	61.65	321.2	10 14	0						
RAPID CITY	62.10	338.5	10 16	-1						
SALT LAKE C.	63.01	330.4	10 23	0					10 54	PCP
EUREKA	64.13	326.8	10 31	0					39 13	PKPPKP
FRESNO	64.40	322.3	10 32	0						
MBOUR	65.00	67.1	10 51	15						
LICK	65.88	321.7	10 43A	1						
RENO	66.28	324.6	10 45	0						
BOZEMAN	66.50	334.3	10 45	-1						
BERKELEY	66.60	321.8	10 46	-1						
BUTTE	67.42	333.6	10 51	-1					11 12	
MINERAL	67.84	324.2	10 55A	1					11 50	
BYRD STATION	69.55	187.3	11 5	0						
HUNGRY HORSE	69.86	334.3	11 5	-2					11 27	
CORVALLIS	71.59	326.7	11 18	1						
VICTORIA	74.29	329.7	11 33	0						
SOUTH POLE	76.78	180.0	11 47	0						
MALAGA	83.98	50.2	12 27A	1					15 47	PP
GRANADA	84.74	50.0	12 39K	10	23 5	14				
TAMANRASSET	87.86	66.1	12 44	-1					15 43	
RESOLUTE	88.57	355.2	12 45A	-3	23 30	2				
COLLEGE	94.25	336.1	13 13	-1					17 4	PP
FLORENCE X.	97.44	46.9	8 42	-287	19 25	-320				
KSARA	115.77	58.8							19 40	PP
CHARTERS TS.	126.50	232.5	18 59	2						
MATUSIRO	141.29	312.9	19 17	-8						
QUETTA	142.30	57.6	19 24	-2						
WARSAK DAM	144.41	49.1	19 28	-2						
ULAN-BATOR	145.38	356.0	19 22	-10						
LAHORE	147.62	51.1	19 38	3						
POONA	151.00	75.8	19 42	1						
LHASA	160.04	33.5	19 56	3						
CHENGTU	162.73	358.7	19 57	2						
SHILLONG	163.58	40.3	19 57	1						
KUNMING	168.29	3.9	20 2	2						

MARCH 1 9.H 26.M 48.S EPICENTRE 27.70 54.91 DEPTH= 0.KM

A= 0.50972 B= 0.72552 C= 0.46239 D= 0.8182 E=-0.5749
G= 0.2658 H= 0.3784 K=-0.8867 HT= 2.5

SE= 1.64

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S	
QUETTA	10.83	74.0	2 38	-1					
KARACHI	11.00	97.0	2 43	2					
WARSAK DAM	15.60	62.2	3 43	1					
TIFLIS	16.25	332.0	3 52	1				6 52	
MAKHACH-KALA	16.38	340.4	3 56	4				7 0	
LAHORE	17.31	72.5	4 2	-2					
KSARA	17.45	295.1	4 7	1	7 22	3		8 47	PCP
JERUSALEM	17.57	288.1	4 8	1					
BOMBAY	18.62	114.2	4 20	0	7 49	3		8 24	SS
NAMANGAN	19.11	41.8	4 26	0					
POONA	19.65	113.7	4 34	2					
SOTCHI	20.03	326.2	4 37	0				8 20	
DEHRA DUN	20.40	77.1	4 59	18	8 35	10			
AGRA	20.52	86.2	4 41A	-1	8 31	4		9 5	SS
HELWAN	20.77	281.6	4 42	-3	8 35	3			
FRUNSE	21.99	41.4	4 58	1					
SIMFEROPOL	23.91	321.5	5 17	1	9 35	5			
ISTANBUL KA.	25.04	308.9	5 26	-1				6 1	PP
CHATRA	28.65	84.2	6 0	0					
SEMIPALATNSK	29.76	33.5	6 11	1					

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HOWRAH	30.62	92.1							14	31	
MOSCOW	30.66	340.8	6	18	0	11	20	0			
LWOW	32.32	321.5							13	21	SS
SHILLONG	33.03	85.1	6	38A	-1						
KRAKOW	34.73	319.6	6	52	-1				9	36	PCP
PULKOVO	36.22	339.1	7	7	1	12	45	-2			
PRUHONICE	37.88	317.1	7	20	0				8	48	PP
PRAGUE	37.98	317.2	7	24	3				8	57	PP
HELSINKI	38.32	336.3	7	24	0						
ASTRIDA	38.67	222.9	7	28A	1						
LWIRO	38.96	224.4	7	30	1						
COLLMBERG	39.27	318.5	7	32	0						
UVIRA	39.73	222.8	7	36	1						
HALLE	39.96	318.4	7	38	1				9	21	PP
JENA	39.99	317.5	7	36	-2				8	58	PP
CHUR	40.20	310.8	7	38	-1						
STUTTGART	40.86	313.6	7	43	-2						
UPPSALA	40.95	332.2	7	44	-1						
COPENHAGEN	41.27	324.6	7	49	1						
BASLE	41.64	311.4	7	54	3						
APATITY	41.94	347.9	7	54	0						
NEUCHATEL	41.97	310.5	7	50	-4						
MUNSTER	42.66	317.9	8	0	0						
SODANKYLA	43.24	344.5	8	4	0						
WITTEVEEN	43.46	318.8	8	5	-1						
IAMANRASSET	44.71	275.2	8	16	0	14	49	-4	10	2	PP
SKALSTUGAN	45.14	334.7	8	19	-1						
KIRUNA	45.15	342.4	8	19	-1				18	30	SS
TANANARIVE	46.89	189.6	8	34	1						
KEW	47.39	315.7	8	37	0						
DURHAM	48.66	319.9	8	45K	-2						
MALAGA	50.29	296.1	9	2A	2	16	20	8			
RATHFARNHAM	51.22	317.6	8	12	-55						
TIKSI	58.92	20.8	10	0	-3						
NORD	60.09	350.7	10	10A	-1						
KIMBERLEY	63.12	209.6	10	30K	-1						
GRAHAMSTOWN	66.38	205.7	10	52	0						
MBOUR	67.58	274.9	11	0	0						
MATUSIRO	69.06	58.9	10	57	-12				11	8	
RESOLUTE	76.00	352.1	11	49K	-1						
COLLEGE	86.05	9.5	12	53	10				13	37	
SEVEN FALLS	90.91	326.3	13	6	0						
SHAWINIGAN	92.26	326.9	13	13	0						
HUNGRY HORSE	103.65	352.4	14	4	0				18	14	
LA PAZ	126.46	269.4	19	7	2						
HUANCAYO	131.01	278.3	19	17	4				22	47	PKS

MARCH 3 7.H 22.M 43.S EPICENTRE 23.21 121.87 DEPTH= 0.KM

A=-0.48577 B= 0.78132 C= 0.39188 D= 0.8492 E= 0.5280
G=-0.2069 H= 0.3328 K=-0.9200 HT= 3.9

SE= 2.25

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
HSINKONG	0.47	256.6	0	13A	0	0	19	-4				
HWALIEN	0.79	343.2	0	20	2	0	30	-1				
IAITUNG	0.81	235.5	0	19K	1	0	32	1				
ALISHAN	1.03	287.6	0	21K	0	0	33	-4				
TAWU	1.24	226.4	0	26	2	0	38	-4				
TAICHUNG	1.44	310.8	0	29K	2	0	47	0				
TAINAN	1.53	262.5	0	33	4	0	52	3				
ILAN	1.56	356.0	0	34	5	0	40	-10				
TAIPEI	1.84	350.1	0	39	6	0	57	0				
BAGUIO CITY	6.86	190.4				2	43	-21			1	47 P*
70-SE	7.88	355.7	1	56	-2	3	26	-3				
CANTON	7.91	270.7	1	57	-2	3	24	-6				
NANKING	9.22	343.5	2	17	0	4	5	2				
TAIYUAN	16.57	333.4	3	58	3							
PEKING	17.45	345.3	4	8	2							
CHENGTU	17.56	298.8	4	10	3	7	27	5				
KUNMING	17.61	279.8	4	12	4	7	35	12				
IIENSHUI	18.07	312.4	4	18	4							
TATUNG	18.34	338.6	4	22	5							
MATUSIRO	19.40	43.0	4	29K	-1	8	15	11				

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KOROR	19.91	140.5	4	38	2	8	26	11		
PAOTOW	19.99	332.8	4	38	1					
LANCHOW	20.22	313.4				8	24	3		
YINCHUAN	20.22	322.4	4	41	2					
TUKUBASAN	20.42	46.5	4	39	-2	8	21	-4		
SINING	21.89	312.2	4	58	2					
WUWEI	22.06	316.1	4	58	0					
GUAM	23.75	110.1	5	20	6					
SHILLONG	27.40	281.1	5	47A	-2	10	27	-1	6	39 PP
ULAN-BATOR	27.40	337.8	5	48	-1					
CHITTAGONG	27.70	274.2	5	52A	0	10	36	3	6	42 PP
LHASA	28.29	289.7	5	58	1	10	45	2		
PORT BLAIR	30.02	252.5							13	16
CHATRA	31.59	283.8	6	27	1	11	36	1		
LEMBANG	32.95	206.7	6	15	-23					
DEHRA DUN	39.57	290.0	7	38	4				13	36
RABAUL	40.21	128.8	7	43	3					
PORT MORESBY	40.77	139.8	7	45	1	13	47	-9	17	21
ALMATA-2	41.67	309.6	7	51	-1	14	9	0		
SEMIPALATNSK	42.16	320.7	7	54	-2					
NARYN	42.27	306.6	7	56	-1					
RYBACHE	42.41	308.1	7	57	-1				17	23 SS
LAHORE	42.75	291.9	7	59A	-2					
FRUNSE	43.58	308.4	8	7	0					
ANDIJAN	44.87	305.0	8	18	0				18	35 SS
WARSAK DAM	45.08	295.4	8	19A	0					
FERGANA	45.27	304.4	8	20	-1					
NAMANGAN	45.42	305.3	8	22	0					
TCHIMKENT	47.12	306.8	8	35	0					
TASHKENT	47.25	305.4	8	34	-3				10	29 PP
TIKSI	48.61	3.0	8	43	-4	15	44	-5	10	35 PP
SAMARKAND	48.88	303.1	8	47	-2	15	48	-5		
QUETTA	49.17	290.5	8	51A	0				10	44 PP
SVERDLOVSK	55.20	324.1	9	34	-3					
ASHKABAD	55.65	301.0	9	39	-1					
BRISBANE	58.70	147.5	10	2K	1	17	57	-9		
GORIS	64.79	304.1	10	41	-1					
TIFLIS	65.55	306.7	10	46	-1					
MOSCOW	67.95	322.6	10	52	-11					
APATITY	68.20	335.6	11	2	-2					
COLLEGE	69.38	27.1	11	10	-1					
SIMFEROPOL	72.45	311.9	11	28A	-2					
KIRUNA	72.94	337.1	11	31K	-2				11	40
HELSINKI	73.49	328.8	11	33	-3					
KSARA	74.30	300.4	11	36	-5				14	23 PP
UPPSALA	77.05	329.9	11	54	-2					
SITKA	77.48	33.1	11	59	0					
SKALSTUGAN	77.73	334.4	11	57	-3					
HELWAN	79.24	297.9	12	7	-1					
RESOLUTE	79.52	9.3	12	7A	-3					
KRAKOW	79.81	320.1	12	9	-3				12	15 PCP
THULE	80.40	2.4	12	13	-2					
COPENHAGEN	81.39	327.3	12	45	25				16	53 PPP
COLLMBERG	83.21	323.3	12	28	-1					
TANANARIVE	83.74	246.5	12	32	0					
JENA	84.17	323.4	12	33	-1					
TRIESTE	85.49	318.0	12	39	-2				21	41
WITTEVEEN	85.77	326.6	12	43	1					
STUTTGART	86.60	322.3	12	45	-1				12	57 PCP
HORSESHOE B.	87.48	36.4	12	52	1					
VICTORIA	87.88	37.2	12	54K	2					
FLORENCE K.	87.97	317.3	12	50K	-3	23	59	23		
DURHAM	88.54	331.1	12	55	-1					
BANFF	90.43	32.0	13	5K	0					
HUNGRY HORSE	92.99	33.6	13	17	1				17	5 PP
RENO	95.11	43.1	13	28	2					
LICK	95.19	45.7	13	27	1					
BUTTE	95.27	34.7	13	27	0					
EUREKA	97.52	41.4	13	38	1					
RAPID CITY	101.34	31.4							18	0 PP
TAMANRASSET	103.06	301.9	17	18	196				18	16 PP
HUANCAYO	160.23	58.8	20	3	2				20	45 PKP2
LA PAZ	168.47	56.4	20	26	18				21	34 PKP2

MARCH 3 16.H 18.M 23.S EPICENTRE 55.62 166.34 DEPTH= 45.KM

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DEPTH OF FOCUS= 0.002R

A=-0.55121 B= 0.13395 C= 0.82354 D= 0.2361 E= 0.9717
G=-0.8003 H= 0.1945 K=-0.5673 HT= -7.4

SE= 2.05

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KLYUCHI	3.21	284.9	0 49A	0	1 29	2		1 3 *SP
PETROPAVLOVK	5.14	244.1	1 15A	-2	2 15	0		1 29 *SP
MAGADAN	9.22	301.6	2 15	2	4 2	5		5 15
UGLEGORSK	16.16	256.2	3 43A	-2	6 39	-4		3 57 *SP
Y.-SAKHLINSK	17.06	249.3	3 55A	-2	6 59	-5		4 10 *SP
NEMURO	18.17	236.1	4 8	-2	7 34	6		
WAKKANAI	18.61	247.1	4 18	2				
OBIHIRO	19.62	239.3	4 27	0				
YAKUTSK	19.79	303.8	4 29	0				8 15
URAKAWA	20.40	238.5	4 35	-1				
SAPPORO	20.42	242.5	4 36	0	8 17	0		7 12
TOMAKOMAI	20.71	241.1	4 41	2				
MORI	21.53	241.9	4 48	1				
HAKODATE	21.69	241.1	4 46	-3				
AOMORI	22.39	239.3	4 58	2	9 15	21		
TIKSI	22.51	329.7	4 58	1				5 23 PP
MIYAKO	22.73	235.5	4 58	-1	9 6	6		
MORIOKA	23.07	236.9	5 1A	-1	9 16	10		
MIZUSAWA	23.54	236.1	5 8	1	9 29	15		
AKITA	23.57	238.5	5 8	1				
COLLEGE	24.02	48.8	5 12	1	9 29	7		10 5
SENDAI	24.33	235.1	5 15	0	9 41	13		
YAMAGATA	24.61	236.0	5 16	-1				
HUKUSIMA	24.95	235.1	5 21	0	9 51	13		
VLADIVOSTOK	25.39	255.0	5 23K	-2				5 58
ONAHAMA	25.41	233.3	5 25	0				6 10
SHIRAKAWA	25.58	234.6	5 29	3	10 14	25		5 57
AIKAWA	25.79	238.7	5 36	8				6 2
SUHWA	25.97	266.3	5 31	1				
MITO	26.07	233.2	5 30	-1	10 28	31		7 4
UTUNOMIYA	26.21	234.4	5 33	1	10 17	18		6 5
KAKIOKA	26.33	233.5	5 34	1				
TUKUBASAN	26.37	233.6	5 32A	-2	10 10	8	5 38	6 6 PP
MAEBASI	26.70	235.4	5 37	0	10 35	28		6 23
KUMAGAYA	26.76	234.6	5 41	4				
NAGANO	26.89	237.0	5 40	1				6 2
TOKYO C.M.O.	26.98	233.4	5 49	10	10 57	45		11 28
MATUSIRO	26.98	236.8	5 39A	0	10 26	14		6 44 PP
OIWAKE	27.00	236.0	5 49	9				
TITIBU	27.04	234.8	5 51	11				
YOKOHAMA	27.23	233.3	5 43	1				6 46
MATUMOTO	27.34	236.8	5 44	1	10 48	30		
TOYAMA	27.35	238.4	5 54	11				6 14
KOHU	27.56	235.1	5 45	0	10 49	28		
MERA	27.57	232.4	5 48	3	11 21	60		
HUNATU	27.58	234.7	5 45	0				6 16
MISIMA	27.81	233.9	5 47	0				
IIDA	28.00	236.0	5 49	0				
SHIZUOKA	28.18	234.6	5 51	1	11 1	30		
OMAESAKI	28.57	234.4	6 13	19				
CHANGCHUN	28.60	263.0	5 53	-1				
GIHU	28.60	237.4	6 2	8				
NAGOYA	28.69	236.8	6 4	9				
IBUKISAN	28.80	237.9	6 7	11				
KYOTO	29.41	238.3	6 1A	0	10 59	8		
OWASE	29.95	236.6	6 6	0				
SITKA	31.53	62.8	6 22	2				
IRKUTSK	35.59	291.2	6 55A	0	12 32	5		14 55 SS
PEKING	36.24	266.0	7 0A	-1	12 40	3		7 33
KWANTING	36.43	266.7	7 2	0				
ULAN-BATOR	36.55	283.4	7 4	1	12 32	-10		
TATUNG	37.83	268.5	7 17	3				
RESOLUTE	39.56	24.4	7 28A	0	13 29	1		9 3 PP
ZO-SE	39.97	251.2	7 31A	-1	13 37	3		9 7 PP
NANKING	40.53	254.6	7 36A	0	13 44	2		9 10 PP
ALBERNI	40.85	69.0	7 40A	1				7 48
LINFEN	41.60	265.6	7 48	3				
VICTORIA	42.04	69.1	7 47K	-2				
NORD	43.01	0.6	7 56	-1	14 19	0		9 45 PP
SEATTLE	43.17	69.5	8 0K	2				

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HONOLULU	43.30	127.8	7	58	-1					
SIAN	44.41	265.9	8	7	-1					
BANFF	44.49	61.5	8	9A	0					
CORVALLIS	44.58	73.5	8	10	1					
WUMEI	45.34	274.7	8	17	2					
TIENSHUI	45.96	268.9	8	22	2					
LANCHOW	45.98	272.0	8	21A	0	15	9	8	15	35
HUNGRY HORSE	47.03	63.7	8	28	-1				10	34 PP
SHASTA	47.67	76.9	8	33K	-1					
UKIAH	48.29	79.0	8	51	12					
MINERAL	48.34	76.7	8	37	-2				10	5 PCP
SEMIPALATNSK	48.89	302.1	8	44	1				10	6 PCP
BUTTE	49.31	65.2	8	45	-2				10	8
BERKELEY	49.71	79.5	8	49	-1				10	8 PCP
CHENGTU	49.85	266.9	8	50A	-1	15	59	3	16	31
RENO	49.89	76.2	8	51	0					
BOZEMAN	50.33	64.6	8	54	0					
LICK	50.44	79.5	8	55K	0					
CANTON	50.58	252.3	8	56A	0					
HONG KONG	50.74	250.9							19	17 SCS
FRESNO	51.87	78.7	9	6	0					
EUREKA	52.04	73.5	9	7	0				11	17 PP
APATITY	52.26	339.2	9	8	-1	16	30	1		
BAGUIO CITY	52.33	240.3	9	1	-8	16	51	21		
SVERDLOVSK	52.88	318.4	9	13	0				18	54 SCS
SALT LAKE C.	53.34	69.6	9	17	0				10	24
SODANKYLA	53.71	341.9	9	20	0					
KIRUNA	54.29	344.8	9	23	-1	17	0	3		
KOROR	54.39	220.1	9	24	-1				10	26 PCP
PASADENA	54.69	79.7	9	25	-2	17	6	4	9	43
KUNMING	54.90	263.5	9	27A	-1	17	7	2		
BOULDER CITY	55.19	75.7	9	31	1	17	17	8	12	11
RAPID CITY	55.41	61.1	9	32	0	17	20	8	19	20 SCS
PHU-LIEN	56.05	256.9	9	36	-1	17	32	12		
LARAMIE	56.23	64.9	9	37	-1					
LHASA	57.96	276.6	9	51A	1	17	51	6		
SKALSTUGAN	59.45	346.9	9	59	-2					
PULKOVO	59.75	336.0	10	2	-1				19	47 SCS
TUCSON	60.18	75.7	10	5	-1	18	25	11	12	23 PP
HELSINKI	60.55	339.0	10	6	-2					
SHILLONG	60.62	272.9	10	7A	-2	18	28	8	13	4
TASHKENT	60.71	301.0	10	9	0	18	25	4		
RABAUL	60.75	196.3	10	7	-2					
MOSCOW	61.42	329.8	10	14	0	18	34	4	12	36 PP
NHATRANG	61.69	248.9	10	10	-6					
UPPSALA	62.21	342.8	10	18A	-1	18	41	1	39	21 PKPPKP
CHATRA	62.29	277.6	10	20	0				20	52
STALINABAD	63.10	299.4	10	27	2	18	56	5		
LUBBOCK	64.00	68.2	10	30	-1					
DEHRA DUN	64.64	287.0	10	34	-1	19	12	2	12	58 PP
CALCUTTA	64.99	273.7	10	37	0				12	10
WARSAK DAM	65.23	294.2	10	37A	-2					
BOKARO	65.40	276.6	10	39	-1	19	22	2		
FLORISSANT	65.67	56.6	10	41	-1	19	28	5		
LAHORE	65.68	290.6	10	41A	-1				13	9 PP
ST. LOUIS 1	65.86	56.6	10	41	-2	19	29	4		
FAYETTEVILLE	65.96	61.0	10	43A	-1				10	50
OTTAWA	66.60	42.7	10	46A	-2	19	37	3	13	18 PP
PORT MORESBY	66.73	200.7	10	45A	-4				17	24
SHAWINIGAN	66.74	40.1	10	48A	-1				12	59 PP
SEVEN FALLS	66.95	38.6	10	48A	-2	19	32	-6	13	24 PP
COPENHAGEN	67.03	344.3	10	51A	1	19	46	7	20	49 SCS
AGRA	67.15	284.8	10	49A	-2	19	40	-1		
ASHKABAD	68.54	306.1	11	0A	0				20	48 SCS
WARSAW	68.75	337.9	11	0A	-1				13	37
PITTSBURGH	69.02	48.5	11	4K	1					
DURHAM	69.53	352.6	11	5A	-1	20	16	7		
MORGANTOWN	69.69	48.9	11	7K	0					
LWOW	70.32	335.1	11	10	-1	20	24	6	21	0 SCS
QUETTA	70.62	295.1	10	24A	-49				12	47 PP
WITTEVEEN	70.63	347.1	11	13	0					
WESTON	70.84	41.5	11	13A	-1					
PALISADES	71.02	44.0	11	13	-2	20	27	1	13	49 PP
KRAKOW	71.04	337.8	11	16	1	20	31	4	11	42 PCP
TIFLIS	71.10	317.6	11	16	0	20	33	6	13	55 PP
HALLE	71.15	343.4	11	15	-1				13	54 PP
FORDHAM	71.16	44.1	11	16A	0				25	6 SS
COLLMBERG	71.17	342.7	11	15	-1				13	52

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PORT BLAIR	71.20	263.1	11	18	2				21	17	
RATHFARNHAM	71.27	355.3	11	16K	-1	20	40	11	11	27	
MUNSTER	71.34	346.3	11	18	1				20	25	
RACIBORZ	71.37	339.0	11	19	2						
DE BILT	71.52	347.9	11	21	3	20	43	11			
WASHINGTON	71.52	47.4	11	17	-1				13	59	
HALIFAX	71.59	35.2	11	19K	1				28	43	SSS
JENA	71.76	343.5	11	20	1				14	4	PP
SIMFEROPOL	71.99	326.4	11	21A	0						
PLAUEN	72.09	343.0	11	20	-1				14	1	PP
PRAGUE	72.10	341.4	11	24	3	20	43	4	13	56	PP
PRUHONICE	72.17	341.3	11	21	-1	20	47	7	13	59	PP
SONNEBERG	72.36	343.6	11	23	0				11	41	
BENSBERG	72.38	346.4	11	24	1				14	1	PP
GORIS	72.41	315.3	11	23	0	21	23	41	14	6	PP
KEW	72.70	351.3	11	25	0	20	51	5	25	47	SS
CHAPEL HILL	73.19	50.4	11	29	1						
BRATISLAVA	73.41	339.1	11	30K	1	21	10	16	13	54	
COLUMBIA	73.92	52.9	11	31	-1						
KARACHI	74.08	292.4	11	36A	3						
SUVA	74.19	168.1				21	52	50	31	8	
STUTTGART	74.23	344.5	11	35	1				14	19	PP
TUBINGEN	74.49	344.5	11	36	1						
MEDAN	74.56	253.3	11	35	-1				14	23	
HYDERABAD	74.63	278.3	11	35	-1	21	19	12	14	24	PP
STRASBOURG	74.63	345.4	11	37A	1	21	19	12	14	26	PP
TIMISOARA	74.80	335.5	11	59	22	21	57	48			
ERINGEN	74.84	344.5	11	38	1						
PARIS	75.06	349.0	11	41A	2	21	16	4			
BASLE	75.68	345.3	11	43A	1	21	12	-7			
ZURICH	75.69	344.6	11	44	2						
BELGRADE	75.86	335.7	11	45K	2	21	30	9	22	26	
CHUR	76.05	343.8	11	45A	1						
NEUCHATEL	76.29	345.6	11	46	0						
POONA	76.31	282.7	11	47	1				14	37	
TRIESTE	76.48	340.6	11	48	1				23	5	SPP
GARCHY	76.51	348.4	11	47	0				14	37	PP
BOMBAY	76.58	283.7	11	42	-5				14	43	
TACUBAYA	76.69	75.3	11	51	3						
ISTANBUL KA.	77.06	328.2	11	49	-1				14	49	PP
SOFIA	77.15	332.9	11	51	0				14	44	PP
MADRAS	77.23	274.3	11	52	1				14	46	
CHARTERS TS.	77.24	199.3	11	49	-2				12	10	
NOUMEA	77.61	179.9	11	51	-2				12	4	
PAVIA	77.74	343.7							14	5	
CLERMONT-FD.	77.99	348.1	11	57K	2						
BOLOGNA	78.04	342.0	12	8	13				15	39	PP
PRATO	78.68	342.0	12	0	1				23	13	PS
LEMBANG	78.75	239.9	11	56	-3						
FLORENCE X.	78.75	341.9	11	58A	-1	21	57	5	23	2	PS
MONACO	79.42	344.6	12	3A	0				12	10	
ROME	80.34	340.5	12	10	2	22	58	49			
MERIDA	80.55	66.8	12	10	1						
KSARA	81.39	320.2	12	14	1	22	29	9	15	20	PP
ATHENS	81.47	331.0	12	14K	0				12	45	
BERMUDA	82.13	41.6	12	18	1	22	31	4	15	26	PP
MESSINA	83.28	337.2	12	22	-1	22	41	2	15	34	PP
REGGIO CALA.	83.35	337.1	12	16	-8	22	29	-11			
JERUSALEM	83.46	319.8	12	25	1						
SERRA PILAR	83.52	356.2	12	27A	3				15	40	PP
BRISBANE	83.54	191.9	12	24A	-1				12	31	
TOLEDO	84.52	352.6	12	31A	2	22	47	-4			
ALICANTE	85.72	349.6	12	31	-4	22	59	-4	15	52	PP
LISBON	85.95	356.5	12	38A	1						
HELWAN	86.58	322.0	12	40A	0				16	1	
ALGIERS UNI.	86.87	346.6	12	42A	1	23	22	8	16	6	PP
GRANADA	87.17	352.0	12	43K	1	23	21	4	16	22	PP
MALAGA	87.68	352.6	12	48K	3				16	10	PP
RIVERVIEW	90.04	192.6	12	55K	-1	23	41	-2			
SAN JUAN	94.02	49.0	13	15	1				17	10	PP
BALBOA HTS.	95.82	65.0	13	21	-2						
TAMANRASSET	100.22	342.1	13	43	0				17	44	PP
MBOUR	110.22	3.4	19	6	39				20	4	
HUANCAYO	115.73	72.9	18	40	2				19	44	PP
ASTRIDA	116.67	309.8	18	43	4				29	9	
LWIRO	116.76	310.9	18	42	2						
UVIRA	117.73	310.0							19	47	
TANANARIVE	121.60	283.1	18	54A	5				20	25	

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	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
LA PAZ	123.28	69.0	18	54	2				20	52	PP	
BYRD STATION	141.62	164.3	19	21	-6				23	2		
KIMBERLEY	141.65	298.4	19	22A	-5							
GRAHAMSTOWN	144.38	291.8	19	32A	1							
SOUTH POLE	145.44	180.0	19	30	-3							

MARCH 3 17.H 32.M 46.S EPICENTRE 55.53 166.40 DEPTH= 0.KM

A=-0.55259 B= 0.13365 C= 0.82267 D= 0.2351 E= 0.9720
G=-0.7996 H= 0.1934 K=-0.5685 HT= -7.4

SE= 1.55

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
KLYUCHI	3.27	286.3	0	56A	2	1	35	1				
PETROPAVLOVK	5.14	245.2	1	22	2	2	23	2				
MAGADAN	9.30	302.0	2	23	4							
UGLEGORSK	16.17	256.6	3	56	5	7	0	9				
Y.-SAKHLINSK	17.07	249.7	4	2	0	7	12	1				
YAKUTSK	19.87	304.0				8	12	-3				
TIKSI	22.61	329.8	5	6	2				5	35	PP	
COLLEGE	24.05	48.7	5	20	2	9	41	8	38	36	PKPPKP	
TUKURASAN	26.35	233.8	5	40K	0							
MATUSIRO	26.96	237.0	5	46A	1	10	16	-6	7	4		
CHANGCHUN	28.62	263.2	6	1	0	10	50	1				
IRKUTSK	35.65	291.3	7	2A	0	12	44	5				
PEKING	36.27	266.1	7	7	0	12	49	1				
ULAN-BATOR	36.60	283.6	7	13	3	12	22	-31				
RESOLUTE	39.63	24.3	7	36A	1	13	37	-2	9	14	PP	
ZO-SE	39.97	251.4	7	39	1	13	47	2				
NANKING	40.54	254.8	7	44	1	13	58	5				
ALBERNI	40.85	69.0	7	47	1							
HORSESHOE B.	41.60	68.0	7	53A	1							
VICTORIA	42.04	69.1	7	56A	1							
NORD	43.09	0.7	8	4	0							
HONOLULU	43.22	127.8	8	5	0							
BANFF	44.50	61.5	8	16	1							
CORVALLIS	44.57	73.5	8	15	-1							
LANCHOW	46.02	272.1	8	29A	2	15	18	5				
HAWAII V.OB.	46.14	125.7	8	29	1							
HUNGRY HORSE	47.03	63.7	8	35	0				10	7	PCP	
SHASTA	47.65	76.9	8	39	-1							
MINERAL	48.33	76.7	8	46A	0							
SEMIPALATNSK	48.96	302.2	8	48	-2							
BUTTE	49.32	65.2	8	52	-1							
CHENGTU	49.88	267.0	8	58	1	16	8	1				
RENO	49.88	76.2	8	58	0							
BOZEMAN	50.34	64.6	9	1	0							
FRESNO	51.85	78.7	9	12A	-1							
EUREKA	52.03	73.5	9	14	0				10	26		
SVERDLOVSK	52.97	318.5	9	21	0							
SALT LAKE C.	53.34	69.6	9	24	0							
KIRUNA	54.39	344.9	9	30A	-1							
PASADENA	54.67	79.7	9	33	0							
KUNMING	54.92	263.6	9	35	0	17	19	3				
BOULDER CITY	55.18	75.7	9	38	1							
RAPID CITY	55.43	61.1	9	39	0							
PHU-LIEN	56.07	257.0				17	49	18				
LARAMIE	56.23	64.9	9	44	-1							
FRUNSE	57.01	298.8	9	50	0							
LHASA	58.00	276.7	9	58A	1	17	59	2				
PULKOVO	59.84	336.1	10	10	0				12	28	PP	
TUCSON	60.16	75.7	10	12	0							
SHILLONG	60.66	273.0	10	15A	-1							
RABAUL	60.67	196.3	10	15	-1							
MOSCOW	61.51	329.9	10	19	-2							
NHATRANG	61.70	249.0	10	23	0							
UPPSALA	62.31	342.8	10	26	-1							
STALINABAD	63.17	299.4	10	31	-1							
CHITTAGONG	63.19	270.8	10	33A	0				11	10	PCP	
LUBBOCK	64.00	68.2	10	38	0							
LAHORE	65.75	290.6	10	48A	-1							
FAYETTEVILLE	65.97	61.0	10	49A	-2							
OTTAWA	66.64	42.7	10	53A	-2							
PORT MORESBY	66.66	200.8	10	53	-2	20	4	18				

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SHAWINIGAN	66.78	40.2	10	55A	-1				11	3
SEVEN FALLS	66.99	38.6	10	56	-1					
DURHAM	69.62	352.6	11	13K	-1					
MORGANTOWN	69.73	49.0	11	14K	0					
HARVARD	70.68	41.6	11	20	0					
QUETTA	70.69	295.2	11	19A	-1	20	25	-9	13	56 PP
WITTEVEEN	70.72	347.1	11	22	2					
WESTON	70.88	41.5	11	20A	-1					
PALISADES	71.05	44.0	11	20	-2					
KRAKOW	71.13	337.9	11	23	0				13	15
TIFLIS	71.19	317.7	11	24	1					
HALLE	71.25	343.5	11	21	-2				11	32 PCP
COLLMBERG	71.27	342.7	11	23	-1					
RATHFARNHAM	71.36	355.4	11	31	7					
MUNSTER	71.43	346.3	11	25	0					
RACIBORZ	71.47	339.0	11	26	1					
JENA	71.86	343.5	11	27	0				12	10
SIMFEROPOL	72.08	326.5	11	28	0					
PLAUEN	72.18	343.1	11	28	-1					
PRAGUE	72.20	341.5	11	30	1				12	44
PRUHONICE	72.26	341.4	11	30	0					
RENSBERG	72.48	346.4	11	31	0					
KFW	72.80	351.4	11	33	0				25	56 SS
CHAPEL HILL	73.22	50.5	11	37	2					
COLUMBIA	73.94	53.0	11	39	0					
SUVA	74.10	168.1				21	59	46		
STUTTGART	74.33	344.6	11	41	-1					
STRASBOURG	74.72	345.5	11	46K	2					
PARIS	75.16	349.1	11	47	1				12	0 PCP
NEUCHATEL	76.39	345.7	11	53	0					
TRIESTE	76.58	340.7	11	54	0	21	44	4	15	18 PP
GARCHY	76.60	348.4	11	54	-1					
ISTANBUL KA.	77.15	328.3	11	56	-2					
CHARTERS TS.	77.17	199.4	11	57A	-1					
FLORENCE X.	78.84	341.9	12	5A	-2				22	49 PS
KSARA	81.48	320.2	12	21	0					
BRISBANE	83.47	191.9	12	31K	0				12	46
ALICANTE	85.82	349.7	12	38	-5	23	6	-10		
HELWAN	86.67	322.1	12	48	1				12	58
GRANADA	87.26	352.0	12	46A	-4					
MALAGA	87.78	352.6	12	55	2				16	18 PP
SAN JUAN	94.05	49.1	13	22	0					
TAMANRASSET	100.32	342.1	13	50	0				17	53 PP
BYRD STATION	141.52	164.4	19	29	-5				23	9 PP
KIMBERLEY	141.72	298.4	19	26	-8					
GRAHAMSTOWN	144.44	291.8	19	38	-1					
SOUTH POLE	145.35	180.0	19	38	-2				23	6 PP

MARCH 7 6.H 55.M 32.S EPICENTRE 36.55 70.68 DEPTH= 202.KM

DEPTH OF FOCUS= 0.027R

A= 0.26641 B= 0.75995 C= 0.59287 D= 0.9437 E=-0.3308
G= 0.1961 H= 0.5595 K=-0.8053 HT= -0.4

SE= 1.86

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
KHOROG	1.19	38.0	0	33	1	0	56	-1				
KULYAB	1.53	332.3	0	36	1	1	2	0				
NUREK	2.14	330.3	0	41	0	1	10	-3				
OBI-GARM	2.29	340.4	0	43	0	1	14	-1				
KARA-SU	2.36	325.5	0	44	0	1	16	-1				
GARM	2.47	353.1	0	45	0	1	19	0				
STALINABAD	2.51	323.4	0	45	0	1	17	-3				
GISSAR	2.55	319.5	0	45	-1	1	18	-3				
ZIMCHURUD	2.68	326.7	0	47	0							
DZHERGETAL	2.70	8.9	0	48	1	1	23	-1				
MURGAB	3.16	53.9	0	54	1	1	34	1				
FERGANA	3.92	12.4	1	2	0	1	47	-3				
SAMARKAND	4.27	318.0	1	4	-2	1	52	-6				
ANDIJAN	4.40	17.0	1	8	0	2	0	-1				
NAMANGAN	4.49	9.6	1	10	1	2	3	0				
TASHKENT	4.89	347.5	1	14	0	2	9	-3				
LUNACHARSKOE	4.89	348.0	1	15	1	2	9	-3				
TCHIMKENT	5.81	352.0	1	26	0	2	31	-2				

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LAHORE	5.83	147.7	1	24K	-2					
NARYN	6.40	38.7							1	47
BAIRAM-ALI	6.93	281.3	1	38	-3	2	53	-6		
FRUNSE	7.00	24.2	1	42	0	3	0	0	2	29
QUETTA	7.07	207.2	1	40K	-2	2	59	-3		
RYBACHE	7.22	33.6	1	44	0	3	2	-4	1	55
FABRICHNAYA	7.95	31.8	1	54	0					
ALMATA	8.26	33.7	1	58	0				2	48
PRZHEVALSK	8.41	42.8	1	59	-1					
ALMATA-2	8.45	35.4	2	1	1	3	36	2		
KURMENTY	8.74	39.7	2	4	0					
DEHRA DUN	8.74	133.1	2	4	0	3	34	-7	2	13 PP
ILI	8.86	31.5	2	4	-2	4	0	16		
CHILIK	9.18	37.8	2	14	4					
ASHKABAD	9.93	281.8	2	19	-1				4	2
KARACHI	11.13	197.3	2	41K	6	4	48	12	3	23 *SP
AGRA	11.27	144.4	2	32K	-5	4	28	-12		
KIZYL-ARVAT	11.67	286.6	2	39	-3	4	37	-12	4	8
SEMIPALATNSK	15.47	23.5	3	28	-1	6	16	1	4	20
CHATRA	17.03	120.0	3	56	8	7	2	11		
BOMBAY	17.68	173.3	3	54	-1	7	2	-1	4	42
POONA	18.16	170.3	4	0	0	7	20	7	4	21 PPP
BOKARO	18.17	130.0	3	47	-13	7	1	-12		
LHASA	18.38	106.1	4	4	2	7	17	0		
MAKHACH-KALA	18.91	296.9	4	11	3	7	29	2	8	7
GORIS	19.40	286.1							4	12
KIROVOBAD	19.43	289.8	4	13	0				7	46
TIFLIS	20.70	292.4	4	28	2					
CALCUTTA	20.72	127.5				8	5	4	5	25
SHILLONG	21.15	115.2	4	29A	-1	8	12	4	5	33 *SP
SVERDLOVSK	21.39	344.7	4	33	0				9	16 SS
TOCKLAI	22.66	108.7	4	56	11					
CHITTAGONG	23.14	121.8	4	52K	2					
SOTCHI	24.62	296.2	5	5	1				5	45
MADRAS	24.95	157.6	5	6	-1	9	14	1	5	41 PP
CHENGTU	28.28	92.2	5	37	0	10	9	2		
IRKUTSK	28.39	45.7	5	38A	0				6	39 PP
SIMFEROPOL	28.75	298.4							6	27
ULAN-BATOR	28.87	55.4	5	42	0					
KYAKHTA	29.10	50.3	5	44A	0					
KABANSK	29.68	47.1	5	50A	1					
ISTANBUL KA.	32.51	290.9	6	13	-1				6	56 PP
PULKOVO	34.73	324.9	6	35	2					
LWOW	35.94	306.6	6	43	0					
ATHENS	37.10	286.7	6	53K	0					
HELSINKI	37.38	323.9	6	55	0					
APATITY	37.48	337.5	6	56	0					
KRAKOW	38.58	306.8	7	5	0				8	40
CANTON	39.01	98.0	7	10	1	12	54	2		
SODANKYLA	39.59	335.0	7	14	0					
UPPSALA	40.87	321.9	7	23A	-1					
KIRUNA	41.93	334.1	7	33A	0					
PRUHONICE	42.06	306.8	7	34	0				9	39 PP
PRAGUE	42.13	307.0	7	38	4				9	10 PP
HALLE	43.61	309.2	7	47	1				9	31 PP
JENA	43.88	308.4	7	39	-9				9	13 PP
SKALSTUGAN	44.03	326.8	7	49A	-1				9	31 PP
YAKUTSK	44.10	35.5	7	50	0					
STUTTGART	45.66	305.6	8	2	0					
VLADIVOSTOK	46.55	62.1	8	7	-2					
GARCHY	49.98	304.7	8	35	-1				9	21
PARIS	50.01	306.8	8	36	0				10	32 PP
UGLEGORSK	52.00	52.3	8	50	-1					
Y.-SAKHLINSK	52.99	54.7							8	57
MATUSIRO	53.18	68.4	8	58A	-2				9	51 11 1 PP
NORD	53.71	349.5	9	3A	0					
MAGADAN	54.51	38.0							9	8
LWIRO	54.83	234.7	9	16	4					
LEMBANG	55.31	133.5							13	31 PCS
TAMANRASSET	57.29	275.5	9	27	-2	10	15			
THULE	64.37	350.1	10	16	-1	11	22		12	38 PP
RESOLUTE	68.64	355.9	10	42A	-2					
COLLEGE	74.52	16.0	11	18	0	12	11		40	21 PKPPKP
CHARTERS TS.	90.75	114.4	12	40A	-1				13	32
SHAWINIGAN	91.00	335.7	12	43	0					
HUNGRY HORSE	95.38	3.2	13	3	0				16	54 PP
BUTTE	97.76	2.3	13	14	0	14	9		17	4 PP
EUREKA	104.10	5.3	13	42	0				17	52 PP

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SOUTH POLE	126.36	180.0	18	38	-1			19	33		
BYRD STATION	136.22	177.4	18	53	-5			19	58	22	15 PP
LA PAZ	138.48	287.6	19	2	0						
HUANCAYO	140.91	299.9	19	8	1						

MARCH 7 8.H 21.M 37.S EPICENTRE 9.57 126.18 DEPTH= 104.KM

DEPTH OF FOCUS= 0.011R

A=-0.58226 B= 0.79604 C= 0.16519 D= 0.8071 E= 0.5904
G=-0.0975 H= 0.1333 K=-0.9863 HT= 6.6

SE= 2.40

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
MANILA	7.12	314.9	1	52	9	3	10	7					
KOROR	8.50	104.5	1	58	-4	3	31	-6					
BAGUIO CITY	8.73	321.8	2	3	-2						3	55	S*
HONG KONG	17.12	319.1	3	54K	0	8	3	63			4	15	PP
CANTON	18.25	318.9	4	6	-2	7	29	5			4	25	PP
PHU-LIEN	21.90	302.9	4	44	-2								
ZO-SE	21.92	348.4	4	47K	1	8	45	9					
NANKING	23.39	344.0	5	1K	1								
LEMBANG	24.65	229.3	5	11	-1						9	32	
BAMDUNG	24.69	229.1	5	11	-1	9	36	12					
DJAKARTA	24.83	231.7	5	12K	-2	9	39	13					
KUNMING	27.14	307.5	5	35	0								
MEDAN	27.95	259.5	5	44	1								
PORT MORESBY	28.12	131.5				7	47	-153					
MATUSIRO	28.99	20.3	5	51K	-1	10	28	-6					
CHENGTU	29.44	318.6	5	57	1	10	51	10					
PEKING	31.62	345.2	6	14K	-1								
CHITTAGONG	35.30	295.3	6	45	-2								
CHARTERS TS.	35.42	146.2	6	48A	0	12	53	39					
SHILLONG	36.23	300.5	7	53K	58								
LHASA	38.43	306.3	7	14	1						8	47	PP
CHATRA	40.63	300.3	7	41	10								
ULAN-BATOR	41.55	340.4	7	39	0								
DEHRA DUN	49.30	301.9	8	43	1								
MELBOURNE	50.32	160.7	8	49A	1						9	18	
NOUMEA	50.61	129.2	8	50	0								
POONA	51.39	286.0	8	56	0								
BOMBAY	52.38	286.4									11	56	PP
LAHORE	52.69	302.4	9	4K	-2								
MAGADAN	53.21	15.4	9	11	1								
NAMANGAN	57.22	312.8	9	38	-1								
KARACHI	58.17	294.4	9	44K	-1								
QUETTA	58.70	299.5	9	48K	-1								
TIKSI	62.03	1.0	10	11	-1	18	27	1					
SVERDLOVSK	68.75	327.5	10	53	-2	19	47	-1					
TIFLIS	77.28	310.6	11	45	0	21	4	-20					
OASIS-BUNG.	77.83	190.3	11	48	0								
COLLEGE	79.70	25.7	11	59	1								
APATITY	82.28	337.2	12	11	0								
SIMFEROPOL	84.77	314.6	12	24	0								
SODANKYLA	84.90	337.5	12	25	1								
KSARA	85.00	303.3	12	27	2						15	41	PP
JERUSALEM	85.85	301.4	12	24A	-5						19	0	
NORD	87.26	354.9	12	36K	0								
HELSINKI	87.30	330.6	12	35	-1								
ISTANBUL KA.	89.10	311.4	12	43	-2								
LWOW	90.50	320.7	12	50	-1								
UPPSALA	90.91	331.4	12	52	-1								
SKALSTUGAN	91.78	335.8	12	56	-1								
RESOLUTE	92.20	10.1	13	0K	1	23	57	7					
THULE	93.74	3.4	13	7	1								
PRUHONICE	96.23	322.9	13	17	-1				13	40	17	16	PP
SOUTH POLE	99.51	180.0	13	33	1	24	0	-52			17	33	PP
STUTTGART	99.92	323.2	14	2	28								
HUNGRY HORSE	101.76	36.3	13	46	3						18	25	
BYRD STATION	103.50	170.6	14	0	10						17	46	PKP
EUREKA	104.59	45.0	14	27	32								
TAMANRASSET	113.62	300.0	18	30	4						19	21	
SEVEN FALLS	121.56	13.6	18	44A	2								
SHAWINIGAN	121.62	15.3	18	43	1								

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SAN JUAN	149.69	23.6	19	43	10							
ANTIGUA	152.61	15.4	19	36	-1							
HUANCAYO	158.73	98.6	19	52	7						20	29
LA PAZ	164.45	117.8	19	54	3							

MARCH 8 20.H 10.M 26.S EPICENTRE -33.87 -70.44 DEPTH= 96.KM

DEPTH OF FOCUS= 0.010R

A= 0.27862 B=-0.78401 C=-0.55471 D=-0.9423 E=-0.3349
G=-0.1858 H= 0.5227 K=-0.8320 HT= 0.5

SE= 1.70

	DELTA DEG.	AZ. DEG.	P M	S	O-C S	S M	S	O-C S	*PP M	S	SUPP. M	S	
SANTA LUCIA	0.48	335.0	0	14	-3	0	24	-6					
ANTOFAGASTA	10.18	0.1	2	29	4	4	40	22			6	40	
LA PLATA	10.39	99.2	2	29	1	4	14	-9					
LA PAZ	17.42	7.4	3	59K	1	7	13	6			4	19	PP
HUANCAYO	22.17	347.2	4	53K	4	8	57	15	5	11			
BOGOTA	38.43	354.2	7	15	1	12	54	-8			9	37	PCP
CHINCHINA	38.94	351.8	7	20	2						7	52	*SP
BALBOA HTS.	43.46	346.8	7	56	1								
TRINIDAD	45.10	12.4	8	9	0								
ST. VINCENT	47.58	12.1	8	27	-1								
FORT FRANCE	49.13	11.9	8	38	-2								
BYRD STATION	50.11	189.9	8	53	5				9	24	10	1	PCP
ANTIGUA	51.38	11.4	8	56	-1								
SAN JUAN	52.12	5.2	9	0	-3						10	58	PP
SOUTH POLE	56.31	180.0	9	32	-1				10	2	39	33	PKPPKP
IACUBAYA	59.65	328.2	10	12	15								
COLUMBIA	68.24	350.5	10	51	-2						11	14	
FAYETTEVILLE	73.05	340.1	11	21K	-1						11	46	*SP
LUBBOCK	73.30	333.0	11	21	-2				11	45			
MORGANTOWN	73.66	352.4	11	25	0								
PALISADES	74.58	357.3	11	30	-1								
WINDHOEK	75.83	107.7	11	38	0								
TUCSON	75.97	325.5	11	38	0						12	40	
GRAHAMSTOWN	77.39	121.6	11	46	0								
KIMBERLEY	78.52	116.8	11	53K	0								
OTTAWA	79.04	356.2	11	55K	0				12	19			
OASIS-BUNG.	80.05	176.4	11	59	-2								
SHAWINIGAN	80.08	358.4	12	0K	-1								
SEVEN FALLS	80.62	359.7	12	4K	0				12	29			
BOULDER CITY	80.92	324.9	12	6	0								
PASADENA	81.13	321.6	12	7	0						12	41	
RAPID CITY	83.12	336.9	12	16	-1				12	40			
FRESNO	84.00	322.2	12	20	-1								
EUREKA	84.27	326.3	12	23	0				12	47	14	4	
LICK	85.38	321.4	12	29K	1				13	4			
BERKELEY	86.11	321.4	12	33K	1				12	56			
RENO	86.15	324.0	12	33	1								
BOZEMAN	87.28	332.8	12	37	0						13	1	
MINERAL	87.65	323.4	12	39K	0								
HUNGRY HORSE	90.65	332.6	12	52	-1						16	28	PP
RESOLUTE	109.47	353.3	15	38	777						18	52	PKP
COLLEGE	115.09	332.6	18	54	24								
HELSINKI	121.31	35.6	18	43	1								
SODANKYLA	123.44	27.4	18	47	1								
QUETTA	143.87	83.9	19	25	1				19	53	22	55	PP
POONA	144.71	106.5	19	26	0								
MEDAN	148.20	159.0	19	37	5								
WARSAK DAM	148.58	78.9	19	33	1								
LAHORE	150.35	84.6	19	36	1				20	7			
SHILLONG	162.56	113.6	19	50	0								

MARCH 9 10.H 22.M 33.S EPICENTRE -33.44-179.44 DEPTH= 50.KM

DEPTH OF FOCUS= 0.003R

A=-0.83616 B=-0.00816 C=-0.54843 D=-0.0098 E= 1.0000
G= 0.5484 H= 0.0054 K=-0.8362 HT= 0.7

SE= 2.71

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	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
ONERAHI	5.61	243.8	1	25	2								
AUCKLAND	5.83	232.4	1	29	3								
TUAI	6.02	206.3	1	27	-1	2	36	-1					
KARAPIRO	6.06	221.0	1	31	2	2	43	5					
TONGARIRO	7.04	213.8	1	41	-2	3	5	3					
WELLINGTON	9.08	208.8	2	5	-6	3	43	-10			15	27	SCS
COBB RIVER	9.85	217.0	2	16	-5	4	3	-9					
KAIMATA	11.58	215.8	2	46	1	4	45	-9			3	34	
GERBIES PASS	11.96	208.8	2	43	-7	4	49	-14					
SUVA	15.34	352.3	3	37A	3	6	30	7					
NOUMEA	16.67	308.1	3	53A	2	7	10	16					
APIA	20.75	21.4	4	35	-3	8	3	-19					
BRISBANE	24.42	276.7	5	16	1	9	37	9					
RIVERVIEW	24.46	260.9	5	19A	4	9	37	8					
FORT NELSON	27.62	240.2	5	43	-1								
MELBOURNE	29.14	251.1	6	9	11	10	49	4	6	22	7	1	PP
CHARTERS TS.	33.26	285.0	6	34A	0	11	52	2					
PORT MORESBY	38.94	300.2	7	23	1	13	18	1			9	8	PPP
CAPE HALLETT	39.30	184.9	7	29	4	13	32	10			16	48	SS
RABAUL	39.32	311.6	7	25K	0						9	10	
TERRE ADELIE	40.51	202.6	7	37	2						17	35	
BYRD STATION	52.18	169.0	9	15	8						9	31	PCP
PERTH	53.68	252.6	9	17	-1						22	56	
OASIS-BUNG.	55.87	208.9	9	32	-2	17	17	1					
SOUTH POLE	56.74	180.0	9	40	-1	17	33	5			11	42	PP
HAWAII V.OB.	57.41	27.3	9	1	-44	17	24	-13					
HONOLULU	58.11	23.6	9	47	-3				10	33	12	20	
MIRNY	58.88	207.8	9	55	-1	17	55	-1			19	35	SCS
KOROR	59.61	304.1	9	58	-3								
BANDUNG	71.97	273.6	11	24	6	20	36	-1					
LEMBANG	72.04	273.7	11	18A	-2	20	36	-1					
DJAKARTA	73.05	273.8	11	23A	-3	20	43	-5					
BAGUIO CITY	75.67	300.9	12	27	46								
TUKUBASAN	78.94	327.7	11	55K	-4				12	6			
KYOTO	80.01	324.0	12	3K	-2								
MATUSIRO	80.06	326.6	12	3K	-3	21	56	-9			15	17	PP
NAGASAKI	81.29	318.7	12	11	-1	22	12	-5					
HONG KONG	84.07	301.4	12	26A	0	22	35	-10			15	34	PP
MEDAN	85.19	277.4	12	30K	-2	22	53	-3					
Y.-SAKHLINSK	86.97	335.1	12	42	2								
VLADIVOSTOK	88.23	326.6	12	49	2								
PETROPAVLOVK	88.29	347.0	12	50	3	23	8	-18					
PASADENA	88.46	46.7	12	47	-1	23	39	12	13	2	16	22	PP
LICK	88.63	42.4	12	48K	0				13	3			
BERKELEY	88.66	41.7	12	49K	0				13	4			
FRESNO	89.28	43.9	12	51K	-1								
SHASTA	90.60	39.6	12	55	-3								
MINERAL	90.78	40.3	12	57	-2								
RENO	91.19	41.9	13	1	0								
BOULDER CITY	91.72	47.1	13	5	2	23	36	-21	13	18			
TUCSON	91.88	52.1	13	4	0				13	19	15	36	PP
TACUBAYA	92.71	68.6	13	13	5	23	42	-24			16	47	PP
EUREKA	93.34	43.9	13	9	-1				13	25	30	22	PKKP
PORT BLAIR	94.55	280.9									23	47	
HUANCAYO	94.91	107.8	13	20K	2	23	56	-29					
MAGADAN	95.87	345.3				23	51	-42			24	33	SCS
LA PAZ	97.86	115.5	13	33A	2	24	33	-16			17	31	PP
LUBBOCK	98.74	55.6	13	35	0						17	35	
BUTTE	99.47	40.5	13	38	0						17	38	
HUNGRY HORSE	100.16	38.0	13	40	-1						17	45	PP
CHITTAGONG	100.98	289.5	17	27	222								
COLLEGE	101.06	13.2	13	46	1	23	52	-84	14	6	30	54	SS
BALBOA HTS.	103.10	87.9				24	30	-63					
RAPID CITY	103.70	46.1	13	59	2						18	13	PP
ULAN-BATOR	104.33	318.2				24	34	-70					
BOGOTA	105.36	94.6				24	44	-47			28	45	PPS
FLORISSANT	109.37	55.9									28	19	PS
ST LOUIS 1	109.39	56.1									25	58	SKKS
POONA	113.66	277.2	18	36	4				18	54			
COLUMBIA	114.01	64.1				25	18	3			19	35	PP
KIMBERLEY	114.03	203.2	18	36K	3								
AGRA	114.24	287.4				25	10	-6					
BOMBAY	114.70	277.0	18	29	-5						24	14	
DEHRA DUN	115.60	290.6				25	12	-9			20	3	
WASHINGTON	118.87	60.5									19	59	PP

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SAN JUAN	119.09	86.3	18	43	0						
RESOLUTE	120.50	17.9	18	43A	-3					28	17 PS
PALISADES	121.87	59.2								20	12 PP
OTTAWA	121.93	53.8	18	47	-2			19	3	22	20 PKS
WARSAK DAM	122.11	292.0	18	47	-2						
WINDHOEK	122.12	198.1	18	51	2						
SHAWINIGAN	124.22	53.1	18	51	-2					22	25 PKS
QUETTA	124.35	286.0	18	53	0					20	43 PP
SEVEN FALLS	125.65	52.8	18	54	-2					22	30 PKS
STALINABAD	125.71	296.3	18	58	2					30	53 PS
BERMUDA	126.06	71.9				25	59 3			20	55 PP
TASHKENT	126.11	299.7	19	9	12	25	57 1				
THULE	127.17	16.1	18	55	-4			19	11		
HALIFAX	130.10	57.2	19	5	1			19	20	22	26 PKS
NORD	131.29	3.3	19	5	-1					22	24 PKS
SVERDLOVSK	133.43	319.0	19	8	-3					22	37 SKP
ASHKABAD	133.49	292.8	19	12	1						
UVIRA	134.43	221.9	18	35K	-37					22	37
ASTRIDA	134.80	223.3	19	9	-4						
LWIRO	135.62	222.5	19	17A	2					22	42 PP
APATITY	140.91	340.7	19	19	-5						
SODANKYLA	142.79	343.7	19	25	-2						
KIRUNA	143.69	347.4	19	24	-5					23	3 PKS
TIFLIS	144.30	296.5	19	29	-1					22	56 PKS
MOSCOW	146.06	322.4	19	35	2					19	55
REYKJAVIK	146.29	17.6	19	37	3						
PULKOVO	147.18	332.4								32	28
HELSINKI	148.83	336.5	19	39	1						
SKALSTUGAN	148.96	349.9	19	40	2						
KSARA	150.67	280.7	19	48	8					23	30 PP
UPPSALA	151.28	342.0	19	40	-1						
SIMFEROPOL	151.76	303.9	19	49	7					23	13 PKS
HELWAN	153.61	270.6	19	45	0					20	16 PKP2
MBOUR	155.24	135.8	19	56	9					23	52 PP
ISTANBUL KA.	156.13	296.9	19	56	8						
LWOW	156.16	320.4						20	9		
SKALNATE PL.	158.51	322.9	19	52	1			20	13		
DURHAM	158.62	3.4	20	48	57						
COLLMBERG	159.97	336.7	19	53	0						
HALLE	160.13	338.7	19	51	-2					24	23 PP
WITTEVEEN	160.13	349.0	19	57	4						
PRUHONICE	160.50	332.1	19	54	1					24	22 PP
BRATISLAVA	160.74	324.7	19	54	0					20	38 PKP2
JENA	160.74	338.5	19	56	2					20	39
DE BILT	161.05	351.2	20	3	9					44	27 SS
KEW	161.97	1.8	19	59	4						
STUTTGART	163.37	339.7	19	57	1			20	9	21	1 PKP2
TUBINGEN	163.63	339.6								26	3 PKP2
STRASBOURG	163.94	342.5	19	45	-12			20	9	24	27 PP
EBINGEN	163.97	339.2	19	55	-2			20	12	21	2 PKP2
TRIESTE	164.14	324.1	19	56	-1					21	1 PKP2
PARIS	164.57	355.2	19	59	2					24	47 PP
GARCHY	166.04	352.9	19	59	0						
TAMANRASSET	168.52	203.6	20	1	1			20	16	25	4 PP
TOLEDO	172.58	28.6	20	18	15					21	42 PKP2
MALAGA	174.78	49.8	20	7A	4					25	35 PP
GRANADA	174.95	41.2								47	0 SS
ALICANTE	175.03	9.5	19	50	-14	26	42 -18			25	24 PP
ALGIERS UNI.	176.10	329.2	20	24	20						

MARCH 11 0.H 26.M 1.5 EPICENTRE 24.62 124.29 DEPTH= 77.KM

DEPTH OF FOCUS= 0.007R

A=-0.51271 B= 0.75199 C= 0.41430 D= 0.8262 E= 0.5633
C=-0.7334 H= 0.3423 Y=-0.9101 HT= 3.5

SF= 1.13

	DELTA DEG.	AZ DEG.	P M	S	O-C S	S M	S	O-C S	*PP M	S	SLPP. M	S
ILAN	2.31	274.2	0	50K	13	1	19	15				
HWALIEN	2.52	255.6	0	50A	10	1	12	2				
TAIPEI	2.55	279.8	0	48K	8	1	20	10				
HSINCHU	3.02	274.1	0	54	7	1	29	7				
HSINKONG	3.07	241.0	0	57A	10	1	32	9				
TAICHUNG	3.32	262.6	0	59	8	1	40	10				

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ALISHAN	3.37	251.7	1	OK	8	1	39	8				
NAHA	3.42	62.0	0	56A	4	1	36	4				
TAITUNG	3.43	237.7	1	0A	8	1	33	1				
TAWU	3.84	234.7	1	5	7	2	3	21				
TAINAN	4.06	247.4	1	12	11	2	6	18				
HENGCHUN	4.17	232.0	1	10A	7	2	10	19				
KAOHSIUNG	4.19	242.4	1	10	7	2	5	14				
PENGHU	4.46	256.9	1	10	3	1	58	0				
70-SE	7.01	337.6	1	42K	0	3	6	5			1	58 *SP
YAKUSIMA	8.01	42.1	1	57	1	4	1	36			3	31
NANKING	8.84	328.1	2	7K	0	3	50	4			2	23 *SP
KAGOSIMA	8.86	37.2	2	8K	1	4	3	17			2	46
TOMIE	8.89	25.3	2	7A	-1	4	8	21				
NAGASAKI	9.45	30.0	2	15	0	4	22	21			2	33
HONG KONG	9.57	258.1	2	22A	5							
MIYAZAKI	9.61	39.2	2	13	-4	3	51	-14			2	39
UNZENDAKE	9.63	31.6	2	22A	4	4	22	17				
FUTZELING	9.70	315.1	2	22	3							
KUMAMOTO	9.92	33.1	2	20	-2						3	1
SAGA	10.08	30.1	2	25	1						3	7
ASOSAN	10.17	34.3	2	26	1	4	53	35			2	59
CANTON	10.19	263.6	2	30K	5	4	29	10			2	47 *SP
HUKUOKA	10.41	29.6	2	27A	-1	4	52	28				
ITUHARA	10.49	23.3	2	28A	-1	4	45	19			3	2
OOITA	10.71	35.1	2	35K	3	4	45	14				
SIMONOSEKI	10.95	30.4	2	33A	-3						3	30
SIMIDU	11.14	41.2	2	55	17	5	23	41			4	5
UWAZIMA	11.22	38.3	2	49	10						3	7
MATUYAMA	11.78	36.9	2	50	3						3	53
TSINGTAU	11.91	344.2	2	49	1							
KOTI	12.01	40.1	2	46	-4	4	56	-7			3	29
HIROSIMA	12.02	34.2	2	57	7	5	23	20			4	19
MUROTO	12.20	43.0	3	3	11	5	56	49				
HAMADA	12.27	31.6	2	56	3	4	56	-13			4	24
TAKAMATU	12.87	39.1	3	1	0	5	33	10			3	22
TOKUSIMA	13.00	41.3	3	10	7	5	37	11			15	31 SCS
OKAYAMA	13.05	37.6	3	5	1	5	24	-3			3	33
MATSUE	13.20	33.1	3	4	-1						6	7
HIMEJI	13.20	39.4	3	33	28							
YONAGO	13.32	33.9	3	15	8	5	44	10			3	48
SIOMISAKI	13.34	46.2	3	6	-1	5	44	10			3	37
SUMOTO	13.37	41.1	3	9	1	5	41	6			4	1
WAKAYAMA	13.47	42.2	3	20	11	5	26	-11			4	16
KOBE	13.78	40.8	3	21	8	5	49	5			6	27
TOTTORI	13.83	36.1	3	32	18	5	59	13				
SAIGO	13.92	31.9	3	28	13						6	44
OSAKA	13.97	41.7	3	24A	9	5	34	-15			6	16
OWASE	14.01	45.1	3	16	0	6	3	13			3	44
NARA	14.17	42.3	3	38	20	6	41	47				
TOYOOKA	14.18	37.5	3	29	11	6	16	22			4	53
KYOTO	14.34	41.1	3	10	-10							
UAIREN	14.41	351.6	3	21	0							
MAIZURU	14.50	39.2	3	31	9	6	38	37				
TU	14.63	43.7	3	33	9	6	37	32				
KAMEYAMA	14.68	43.2	3	27	2	6	14	8			3	51
HIKONE	14.82	41.5	3	32	6	6	33	24			4	3
IBUKISAN	14.98	41.5	3	37	9	6	24	11				
TSURUGA	14.98	40.1	3	38	10	6	44	31			5	38
NAGOYA	15.20	43.3	3	35	4	6	34	16				
GIHU	15.23	42.3	3	39	7	6	45	27			15	36 SCS
TORISIMA	15.35	64.1	3	39	6	6	58	37			4	15
HIKUI	15.37	39.4	3	34	1	6	51	29				
OMAESAKI	15.66	47.4	3	40	3	7	4	36			4	2
LINFEN	15.87	319.1	3	40	0							
KANAZAWA	15.93	38.9	4	0	20							
SHIZUOKA	16.00	46.6	3	42A	1	7	7	31				
TAKAYAMA	16.02	41.2	3	52	10							
TOYAMA	16.36	39.6	4	0	14	7	6	22				
MISIMA	16.45	47.1	3	48	1	7	6	20			4	10
SIAN	16.45	309.2	3	49	2							
IAIYUAN	16.49	325.5	3	51	4							
KOHU	16.50	45.0	3	49	1	7	8	20			15	27 SCS
AJIRO	16.51	47.6	3	49	1	7	10	22			4	9
MATUMOTO	16.52	42.3	3	54	8	7	18	30			4	31
OSIMA	16.54	48.8	3	50A	2	7	19	30			4	26
HUNATU	16.55	45.7	3	51	3	6	52	3				
WAZIMA	16.67	37.3	3	58	8	7	0	9				
PHU-LIEN	16.73	260.4	3	55	4	7	40	47				
MATUSIRO	16.87	41.9	3	47A	-5	7	10	14			4	9

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[illegible]AKE	16.93	43.1	3	55	2	7	33	36		
MERA	16.93	49.1	3	53	0	7	29	32	4	30
NAGANO	16.93	41.6	3	51	-2	7	15	18	4	15
¡ITIBU	17.05	45.0	3	54	0	7	21	21	4	14 PP
YOKOHAMA	17.10	47.4	3	57	2	7	4	3	4	14 PP
KWANTING	17.19	337.0	3	57	1					
TAKADA	17.25	40.6	3	49	-8	7	20	15		
MAEBASI	17.30	43.8	3	57	-1	7	35	29	4	18 PP
¡OKYO C.M.O.	17.31	46.9	3	58K	0	7	7	1	4	17 PP
KUMAGAYA	17.34	45.0	3	57	-1	7	36	29		
¡UKUBASAN	17.85	46.0	3	59A	-5	7	7	-11	4	19 PP
AIKAWA	17.88	38.4	4	19	14	7	48	29		
UTUNOMIYA	17.90	44.7	4	1	-4	7	7	-12	5	3
KAKIOKA	17.91	46.1	4	2	-3				6	36
IATUNG	17.99	331.7	4	7	1					
IYOSI	18.07	48.4	4	6	-1	7	26	3	4	28
MITO	18.19	46.1	4	5	-3	7	19	-6	16	8 SCS
NIIGATA	18.27	40.0	4	26	17	8	1	34		
ONAHAMA	18.80	45.3	4	9	-7	7	25	-14	5	5
TIENSHUI	18.90	305.9	4	16	-1					
CHENGTU	18.93	293.0	4	16A	-1					
HUKUSIMA	19.01	42.7	4	17	-1	7	52	8	4	34
CHANGCHUN	19.18	2.3	4	16	-4					
YAMAGATA	19.26	41.3	4	27	6	8	9	20	5	27
SAKATA	19.38	39.1	4	28	6	8	14	23		
VLADIVOSTOK	19.49	16.9							4	30 PP
SENDAI	19.61	42.1	4	28	4	8	13	17		
KUNMING	19.62	275.8	4	27	3				4	41 *SP
KOROR	19.77	148.7	4	32K	6	8	17	18		
PAOTOW	19.89	326.5	4	26	-1					
¡SINOMAKI	19.96	42.4	4	25	-3	8	3	0	4	52
AKITA	20.10	37.7	4	31	1	8	19	13	4	52
MIZUSAWA	20.29	40.5	4	32	0	8	10	0		
YINCHUAN	20.60	316.4	4	34	-1					
MORIOKA	20.69	39.4	4	35	-1	8	16	-1	5	9
LANCHOW	20.99	307.7	4	38K	-1					
MIYAKO	21.13	40.6	4	35	-5	8	21	-5	8	39
AOMORI	21.24	36.5	4	40	-1	8	52	24		
HATINOHE	21.45	38.2	4	41	-2	8	33	1	5	16
HAKODATE	21.89	34.6	4	52	4	8	40	0	5	23
MORI	22.04	33.8	4	52	3	8	51	9	5	41
SUIHWA	22.06	5.0	4	43	-6					
SUTTSU	22.40	32.0	4	51	-2	8	55	6	16	17 SCS
MURORAN	22.41	33.9	4	57	4	9	6	17		
WUWEI	22.70	310.9	4	55	-1					
SINING	22.70	307.1	4	55	-1					
TOMAKOMAI	22.86	34.4	5	11	14					
SAPPORO	23.15	33.2	4	56	-4	9	3	1	6	1
URAKAWA	23.24	36.7	5	0	-1	9	11	7		
OBIHIRO	23.99	35.8	5	7	-1	9	41	24		
ASAHIGAWA	24.17	33.3	5	8	-2	9	49	29	16	5 SCS
KUSIRO	24.68	37.2	5	11	-4	9	38	10	5 35	6 4
WAKKANAI	25.07	29.8	5	11	-8	9	59	24		
ABASHIRI	25.32	35.2	5	20	-1	9	47	8	5	56
NEMURO	25.57	37.9	5	17	-6	10	2	19	5 37	16 29 SCS
TOCKLAI	26.66	280.9	5	35	2					
ULAN-BATOR	27.03	333.7	5	16	-21	10	14	7		
YUMEN	27.67	311.0	5	41	-1					
SHILLONG	29.33	278.8	5	56A	-1	10	50	6	6	37 PP
CHITTAGONG	29.83	272.4	6	3A	1	10	52	0	6 25	7 8 PP
LHASA	29.95	287.0	6	3A	0	10	57	4		
TRUK	31.40	118.3	6	19K	3	11	44	28		
IRKUTSK	31.51	336.3	6	11A	-6				12	59 SS
MEDAN	32.34	233.7	6	29K	5	13	51	140		
PORT BLAIR	32.55	252.4	6	43	17				13	22
CALCUTTA	32.96	273.9	6	31A	2	11	52	11	7	44 PP
CHATRA	33.44	281.9	6	33	0	12	18	30		
DJAKARTA	35.02	211.3	6	49A	2	12	20	7		
BOKARO	35.03	276.9	6	46A	-1	12	27	14	8	38 PP
LEMBANG	35.23	209.6	6	52	3	12	24	8		
YAKUTSK	37.57	4.2	7	3	-5				13	1 SCP
PETROPAVLOVK	38.43	33.2	7	11	-5				7 27	13 21 PCS
VIZIANAGRAM	38.47	268.5	7	19A	3	13	27	22		13 37 PS
RABAUL	39.45	132.8	7	28	4					9 23
MAGADAN	39.53	20.9	7	20	-5					13 37
PORT MORESBY	40.51	143.8	7	37	4					
DEHRA DUN	41.20	288.5	7	39	1	13	57	11		9 25 PP
AGRA	41.53	283.7	7	41	0	13	53	2		9 23 PP
SEMIPALATNSK	42.52	318.8	7	46	-3	14	7	2		11 38

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MADRAS	43.15	262.7	7	58A	4	14	29	14		9	40 PP
HYDERABAD	43.22	269.6	7	57'	2	14	30	14		9	27 PP
LAHORE	44.30	290.7	8	2.	-2	14	41	10			
WARSAK DAM	46.49	294.3	8	20A	-1						
KODAIKANAL	46.67	260.6	8	33A	11	15	48	43		11	30 PPP
POONA	47.09	272.9	8	20A	-6	15	17	6		10	28 PP
TIKSI	47.11	2.0	8	19	-7	15	9	-2		13	40 SCP
BOMBAY	47.92	273.8	8	31	-1	15	36	13		10	32 PP
TASHKENT	48.27	304.2	8	33	-2					15	57
STALINABAD	48.61	300.5	8	36	-2					15	51
CHARTERS TS.	49.25	152.3	8	47K	4	16	2	21			
QUETTA	50.76	289.7	8	53A	-1	16	10	8		11	53 PPP
KARACHI	51.44	284.2	8	57A	-2						
SVERDLOVSK	55.38	323.2	9	24	-4					11	27 PP
PERTH	56.83	188.6	9	44	5	18	3	39		18	28 SS
ASHKABAD	56.83	300.4	9	37A	-2					17	48 PS
BRISBANE	58.75	150.0	9	54K	2	18	20	31			
NOUMEA	62.06	135.3	10	16K	1	19	12	40			
RIVERVIEW	63.49	155.1	10	28A	4	19	32	42			
MELBOURNE	65.09	162.0	10	37K	3	19	26	17	10 54	11	8 PCP
GORIS	65.83	304.0	10	39	0					20	24 SCS
TIFLIS	66.48	306.6	10	41	-2					20	30 SCS
COLLEGE	67.11	27.6	10	44A	-3	19	31	-3		11	2 PCP
SUVA	67.75	123.6	10	53	2	20	0	19		11	9 PCP
APATITY	67.83	335.5	10	48	-4					13	14 PP
MOSCOW	68.18	322.5	10	51	-3					11	11 PCP
SODANKYLA	70.42	336.0	11	4	-4						
HONOLULU	70.63	74.9	11	11	2					20	41 SS
KIPAPA	70.66	74.8	11	10	1					13	59 PP
PULKOVO	71.00	327.7	11	7	-4					20	39 PS
NORD	72.19	354.4	11	13K	-5	20	53	20		11	31 PCP
KIRUNA	72.51	337.3	11	16A	-4	20	42	5	11 31	14	2 PP
SIMFEROPOL	73.15	312.1	11	21A	-3	20	45	1		11	40 PCP
HELSINKI	73.43	329.0	11	22	-4						
HAWAII V.OB.	73.76	75.8	11	23	-4						
SITKA	75.09	33.8	11	33K	-2	21	17	11		23	35
KSARA	75.49	300.7	11	38K	1	21	12	2	11 56	21	54 *SS
ONERAHI	76.48	140.1	11	56	13					12	19
IASI	76.68	315.9	11	39	-5	21	35	12	11 58	21	53 PS
JERUSALEM	76.72	299.0	11	43A	-1						
UPPSALA	76.94	330.2	11	42A	-4	21	24	-2	11 59	21	53 *SS
SKALSTUGAN	77.41	334.9	11	44A	-4				12 3		
FOCSANI	77.48	314.6	11	50	1	21	49	17		12	17
AUCKLAND	77.49	140.7				22	19	47			
RESOLUTE	77.77	9.9	11	47A	-3	21	41	6		18	23
LWOW	77.84	319.3	11	48	-3					21	40 SCS
ISTANBUL KA.	77.96	309.7	11	48	-3						
WARSAW	78.57	322.4	11	52A	-3	21	50	7	12 10	15	2 PP
KARAPIRO	78.63	141.0	12	2	7	22	22	38		12	21
BUCHAREST	78.69	313.7	11	55K	0	21	59	14	12 12	14	59 PP
CAMPULUNG	79.05	314.8	11	59	2	22	2	13		22	20 PS
COBB RIVER	79.33	144.9	12	10	11						
TONGARIRO	79.52	142.0	12	1	1					12	24
KAIMATA	79.70	146.6	12	29	28						
KRAKOW	80.14	320.7	12	1	-2	22	10	10	12 12	12	19 PCP
SKALNATE PL.	80.34	319.8	12	1	-3	22	16	14		16	6
HELWAN	80.53	298.4	12	4A	-1					15	29
WELLINGTON	80.55	143.9	12	3	-2	22	29	25	12 24	23	24 PS
ROXBURGH	80.96	149.8	12	59	52	23	29	80		22	59 SKS
RACIBORZ	81.12	321.2	12	8	0	22	8	-2	12 16	12	24 PCP
SOFIA	81.23	312.9	12	9	0	22	24	13		12	27 PCP
TIMISOARA	81.27	316.4	12	30	21	22	40	28			
COPENHAGEN	81.39	327.9	12	7K	-3	22	20	7		22	39 SCS
SZEGED	81.73	317.2	12	24	13	22	30	14	12 36	17	39 PPP
BUDAPEST	81.81	318.6	12	13	1	22	27	10		12	31 PCP
BERGEN	81.91	334.0	12	12	0	22	28	10	12 32	15	35 PP
HURBANOVO	82.15	319.2	12	32	18	22	35	14		15	44 PP
BELGRADE	82.18	315.8	12	14A	0	22	35	14		22	49 SKS
SCORESBY SD.	82.19	349.1	12	11	-3	22	9	-12	12 30	15	35 PP
KALOCSA	82.31	317.8	12	17	3	22	32	10		23	15 PS
BRATISLAVA	82.66	319.8	12	16A	0	22	20	-6	12 32	28	8 SS
POTSDAM	82.79	324.8	12	25	8	22	27	0		15	45 PP
SKOPJE	82.83	312.9	12	6K	-11	22	32	4		12	50 PCP
ATHENS	83.00	308.5	12	16K	-2	22	25	-4	12 35	15	36 PP
VIENNA-H.	83.05	320.2	12	17	-1	22	46	16	12 34	15	27 PP
PRIHONICE	83.23	322.3	12	17	-2				12 39	15	27 PP
PRAGUE	83.25	322.4	12	15	-4	23	6	34	12 34	15	59 PP
COLLMBERG	83.39	323.9	12	19	-1	22	45	12		17	33 PPP

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HALLE	83.85	324.4	12	21	-1	22	48	10	12	44	15 32 PP
ALBERNI	84.24	38.0	12	22	-2						12 45
PLAUEN	84.27	323.5	12	21	-3	22	50	8	12	45	22 35 SKS
JENA	84.35	324.1	12	23	-2	22	51	8	12	41	15 56 PP
ZAGREB	84.48	318.2	12	24	-1	22	55	11			17 37 PPP
SONNEBERG	84.85	323.7	12	26	-1	22	54	6	12	46	22 43 SKS
HORSESHOE B.	85.03	37.3	12	27	-1						
AKUREYRI	85.51	345.3	12	32	2	23	8	14			
WITTEVEEN	85.80	327.4	12	31	-1						16 54 PP
MUNSTER	85.83	326.3	12	31	-1						16 38
TRIESTE	85.91	318.8	12	25	-7	22	59	1	12	48	15 56 PP
TARANTO	86.31	313.0	12	46	12	22	50	-12			28 40 SS
TANANARIVE	86.32	247.4	12	36	2	23	40	38	13	1	16 30 PP
SEATTLE	86.52	38.4	12	37	2	23	14	10			13 4 PP
BENSBERG	86.64	325.7	12	34A	-2	23	7	2			
STUTTGART	86.83	323.1	12	35A	-2	23	1	-6	12	51	24 25 SP
ABERDEEN	86.94	334.0	12	50K	13	23	3	-5			16 11 PP
DE BILT	86.96	327.3	12	46A	8						16 18 PP
TUBINGEN	87.03	323.0	12	37A	-1	23	9	0	12	53	24 29 SP
KARLSRUHE	87.12	323.6	12	39A	1	23	29	20			16 13 PP
RAVENSBURG	87.15	322.1	12	42	4						
EBINGEN	87.29	322.7	12	37	-2	23	10	-1	12	54	
CORVALLIS	87.60	41.4	12	41	0				12	57	
VIK	87.61	344.4				23	9	-5			
REYKJAVIK	87.68	345.9	12	43	2	23	22	7			17 8 PP
STRASBOURG	87.71	323.5	12	39A	-2	23	29	14			16 36 PP
ZURICH	87.96	322.2	12	39	-3	23	13	-4			
BOLOGNA	87.97	318.7	12	41	-1	23	19	1			29 39 SS
KERGUELEN I.	88.02	212.1	13	20	37						16 44 PP
BANFF	88.06	33.0	12	41A	-2						
EDINBURGH	88.24	333.4	12	47	3	23	15	-5			16 13 PP
DURHAM	88.36	332.0	12	41A	-3	23	12	-9	12	59	22 56 SKS
FLORENCE X.	88.41	318.2	12	39	-6	23	13	-9			15 59 PP
BASLE	88.43	322.7	12	43K	-2	23	17	-5			
PRATO	88.45	318.3	11	59	-46	22	18	-64			
REGGIO CALA.	88.56	311.6	12	45	0						17 17
MESSINA	88.58	311.7	12	43	-2	23	35	12			16 3 PP
ROME	88.67	316.1	13	2	16	23	14	-10			28 59 SS
PAVIA	88.87	320.2	13	3	16	23	45	19			16 44 PP
NEUCHATEL	89.08	322.5	12	45	-3	23	20	-8			16 26
OROPA	89.32	321.0	13	6	17	24	5	35			23 47 SKS
KEW	90.00	329.0	12	51	-1	23	27	-9	13	9	16 20 PP
SHASTA	90.28	44.3	12	52	-1						
PARIS	90.35	325.8	12	53	-1	23	44	5			
HUNGRY HORSE	90.59	34.6	12	55A	0						30 38 PKKP
UKIAH	90.60	45.9	13	10	15	23	48	6			
MONACO	90.73	319.7	13	9A	14				13	31	
MINERAL	90.97	44.2	12	56	-1				13	12	16 40 PP
GARCHY	91.02	324.4	12	55	-2	23	15	-30			
RATHFARNHAM	91.37	332.9	12	55K	-3	23	32	-16	13	14	16 19 PP
SASKATOON	91.58	28.6	13	4	5	23	30	-20			
BERKELEY	91.92	46.6				23	47	-6	13	13	
CLERMONT-FD.	91.94	323.2	13	2	1	23	58	5			
OASIS-BUNG.	92.27	189.4	13	10	7	23	45	-11			16 54 PP
JERSEY	92.39	328.1	13	23	20	23	23	-34			
RENO	92.57	44.1	13	4	0						
LICK	92.62	46.8	13	5K	1				13	20	17 3 PP
BUTTE	92.84	35.7	13	5A	0						16 2
BOZEMAN	93.88	35.3	13	12A	2						
MIRNY	93.92	192.0	13	11	1						
FRESNO	94.15	46.4	13	11	0						
EUREKA	95.00	42.4	13	15A	0						30 46 PKKP
ASTRIDA	95.22	269.5	13	16A	0						16 50 PP
BARCELONA	95.24	320.3	13	40	24	23	57	-25			24 56
LWIRO	95.92	270.2	13	11K	-8	23	48	-40			
UVIRA	96.13	269.0	13	21	1	24	24	-5			
SALT LAKE C.	96.64	39.4	13	24	2						17 15 PP
PASADENA	96.75	47.8	13	20	-3	24	6	-29	13	38	23 32 SKS
ALGIERS UNI.	97.59	316.2	13	44	17	24	11	-31			17 27 PP
BOULDER CITY	97.85	44.6	13	30A	2						17 43 PP
ALICANTE	98.75	319.2	13	25	-7	24	45	-6			17 31 PP
RAPID CITY	98.98	32.5	13	34	1						17 37 PP
TOLEDO	99.78	322.2	13	39	2	25	11	11	13	52	17 43 PP
RELIZANE	99.80	316.6	13	38	1				13	54	
ALMERIA	100.92	319.1	13	30	-12	24	48	-22	14	1	17 35 PP
SERRA PILAR	101.33	325.6	13	36A	-8	25	35	22			20 5 PPP
GRANADA	101.37	320.0	14	18A	34	24	28	-45			18 8 PP
LCO. MARQUES	101.80	246.8									18 15 PP

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	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
COIMBRA	101.92	324.9				25	8	-10			17	56	PP
MALAGA	102.15	320.1	14	1K	14	25	51	31			18	11	PP
TUCSON	102.77	45.5	13	58	8	24	58	-27			24	17	SKS
LISBON	103.38	324.3				25	36	6			24	40	SKS
TAMANRASSET	104.17	303.4	13	56	0	24	37	-60	14	13	18	13	PP
PIETERMZBURG	104.92	244.0	14	16	17						18	27	
SCOTT BASE	105.23	171.5	17	59	777								
PRETORIA	105.45	248.5	14	4	777						18	18	
SEVEN FALLS	107.30	10.8	14	10	777	24	57	0			18	38	PP
SHAWINIGAN	107.50	12.3	14	15	777						17	30	
OTTAWA	107.97	14.7	14	28	777	24	45	0			18	36	PP
CHIHUAHUA	108.23	45.5	18	43	777	26	17	0			24	49	PPS
FLORISSANT	109.05	28.0	14	32	777	25	7	0			19	7	PP
GRAHAMSTOWN	109.20	241.5	14	36	777						18	38	
ST. LOUIS 1	109.25	28.0	14	35	777	25	1	0			19	3	PP
FAYETTEVILLE	109.52	32.3	14	29	777	25	5	0			19	16	PP
CLEVELAND	110.01	20.4									19	22	PP
HALIFAX	110.72	6.0	18	0A	-24	23	53	-63			19	3	*PPP
PITTSBURGH	111.45	19.7									19	28	
WESTON	111.79	12.4	14	46	-220	28	39	219			19	23	
MORGANTOWN	112.19	20.0	14	56K	-210						18	18	PKP
PALISADES	112.55	14.8	18	14	-13	25	40	37			19	22	*PPP
FORDHAM	112.71	14.9	18	22	-5	25	9	5			22	4	
WASHINGTON	113.72	18.1	14	54	-215						19	39	PP
WINDHOEK	114.00	255.1	18	40	10								
SOUTH POLE	114.48	180.0	18	39	8				15	5	14	37	P
HERMANUS	115.38	242.1									19	59	PP
LOME	116.74	291.1				25	37	18			20	13	PP
COLUMBIA	116.93	23.5	18	51	15						20	6	PP
BYRD STATION	118.56	169.7	18	42	3	25	50	24	19	12	15	22	P
MACUBAYA	119.11	48.0	19	2	22	25	29	1			20	11	PP
VERA CRUZ	121.29	45.8									21	1	PP
BERMUDA	122.68	9.0	19	1	14	25	30	-10			20	29	PP
MERIDA	123.97	39.0				25	59	15			20	50	PP
MBOUR	125.85	311.6	19	12	19						22	21	PP
COMITAN	126.04	44.8									21	0	PP
SAN JUAN	136.07	14.3	19	20	8						22	14	PP
ANTIGUA	138.28	7.8	19	14	-2						22	40	PKS
ST.CLAUDE	139.18	8.8	19	30	12						22	50	PKS
BALBOA HTS.	139.32	37.8	19	30	12						35	20	PPS
GALERAZAMBA	139.97	30.8									22	18	PP
FORT FRANCE	140.53	8.3	19	22	2						23	19	
ST. VINCENT	142.05	8.8	19	19	-4						19	43	
BARBADOS	142.30	6.2	19	26	2						19	39	
TRINIDAD	144.47	9.9	19	26	-1						20	35	
CHINCHINA	144.78	36.0	19	27	-1						23	8	SKP
FUQUENE	145.33	32.8	19	30	1						19	51	PKP2
BOGOTA	145.88	34.0	19	32	2						19	52	PKP2
HUANCAYO	157.61	59.6	19	52	5						23	51	PP
LA PAZ	165.85	57.5	20	0K	5	27	1	11			24	43	PP
LA PLATA	169.58	169.9	20	54	56	26	19	-33			25	24	PP

MARCH 11 13.H 59.M 6.S EPICENTRE -13.74 166.36 DEPTH= 0.KM

A=-0.94434 B= 0.22913 C=-0.23607 D= 0.2358 E= 0.9718
G= 0.2294 H=-0.0557 K=-0.9717 HT= 6.0

SE= 3.31

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
NOUMEA	8.51	179.4	2	7K	0	3	21	-24					
SUVA	12.40	112.3	3	3A	3	5	39	18					
RABAUL	16.91	302.8	4	1	2						4	20	PP
BRISBANE	18.48	220.3	4	20K	1	7	47	4					
PORT MORESBY	19.31	280.9	4	29	0	8	9	8			5	0	
CHARTERS TS.	20.21	249.3	4	40K	1								
APIA	21.23	92.8	4	50	1						5	3	PP
ONERAHI	23.09	163.2	5	12	4								
RIVERVIEW	24.30	212.1	5	23A	3	9	36	-1					
KARAPIRO	25.42	162.9	5	30	0								
TRUK	25.53	324.8	5	32	1	9	42	-15					
TONGARIRO	26.62	164.0	5	39	-3								
COBB RIVER	27.80	169.6	5	55	3								
WELLINGTON	28.40	166.6	5	55	-3	10	45	1					
KAIMATA	29.01	172.3	6	2	-1								

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GEBBIES PASS	30.34	171.0	6	12	-3						
FORT NELSON	33.39	205.8	6	40	-2	12	5	2			
PERTH	49.50	239.7							10	51	PP
HAWAII V.OB.	50.14	49.7				16	38	28			
MANILA	53.00	300.4	9	7	-13	16	37	-12			
BAGUIO CITY	54.26	302.1	9	29	-1	17	7	0			
MATUSIRO	56.63	333.0	9	38A	-9	17	30	-8			
BANDUNG	58.05	270.4							12	12	PP
LEMBANG	58.09	270.5	9	58A	1	18	0	3			
DJAKARTA	58.99	271.0	10	29	26	18	36	27			
ZO-SE	62.21	316.5	10	24A	-1	18	49	-1	19	6	
NHATRANG	62.25	291.9	10	26	0	20	17	86			
HONG KONG	62.44	304.4	10	31	4	18	57	4	13	5	PP
CANTON	63.54	304.7	10	35A	1	19	10	3	19	28	PS
SCOTT BASE	64.12	179.9	10	36A	-2				11	12	PCP
NANKING	64.39	316.0	10	39A	-1	19	18	0	19	38	PS
OASIS-BUNG.	67.75	203.6	11	0	-1						
MIRNY	70.87	203.9	11	18	-2						
PEKING	70.95	321.4	11	20A	-1	20	37	1	11	39	PCP
KUNMING	73.06	301.8	11	34A	1	21	2	1	11	40	PCP
BYRD STATION	73.81	169.9	11	41	3				39	8	PKPPKP
MAGADAN	74.12	351.8	11	37	-3				14	32	PP
CHENGTU	74.41	307.6	11	41A	0	21	14	-2	11	47	PCP
SOUTH POLE	76.35	180.0	11	50	-2				38	46	PKPPKP
LANCHOW	77.02	312.5	11	58A	2	21	46	2	22	3	SKS
ULAN-BATOR	80.94	324.1	12	17	0	22	24	-2			
CHITTAGONG	81.35	295.5	12	21A	2	22	31	1	15	29	PP
SHILLONG	82.34	298.6	12	24	1						
BERKELEY	84.19	48.9	12	45	11						
LHASA	84.36	302.2	12	37A	2	23	4	3	22	56	SKS
LICK	84.45	49.6	12	45	10						
SHASTA	85.17	46.3	12	37	-2						
MINERAL	85.60	46.8	12	35	-6						
FRESNO	85.61	50.7	12	52	11						
COLLEGE	85.66	17.9	12	36	-5	23	25	12	13	20	
PASADENA	85.97	53.6	12	46	3	23	24	8	13	21	
RENO	86.58	48.1	12	56	10						
CHATRA	86.74	298.5							12	46	
TIKSI	88.82	348.9	12	54	-3				23	56	PS
BOULDER CITY	89.15	52.7	12	59	1						
EUREKA	89.36	49.1	12	52	-7				16	29	PPP
MADRAS	89.41	283.4							13	9	
HALLEY BAY	90.56	176.8	13	1	-4	23	9	-50			
TUCSON	91.28	57.2	13	15	7				13	37	
HUNGRY HORSE	93.38	41.1	13	16	-2						
POONA	96.60	287.4							13	33	
BOMBAY	97.63	287.6							16	48	
NAMANGAN	102.38	309.4							17	55	PP
RESOLUTE	105.48	15.8	14	5	777	26	14	21	18	22	PP
THULE	111.24	11.9	18	33	-2						
APATITY	118.18	341.4	18	47	-2						
OTTAWA	119.21	45.5	18	48	-3						
SODANKYLA	120.31	343.2	18	51	-2						
SHAWINIGAN	120.99	43.7	18	53	-1						
PALISADES	121.26	50.2							30	19	PS
KIRUNA	121.60	345.5	18	53	-2				19	8	
SEVEN FALLS	122.14	42.7	18	54	-3						
TIFLIS	122.50	310.9	18	57	0						
MOSCOW	122.59	328.4	18	57	0						
KIMBERLEY	123.75	221.0	19	0A	0						
HELSINKI	125.74	337.4	19	5	2						
SKALSTUGAN	127.02	345.8	19	4	-2						
UPPSALA	128.54	340.4	19	8	-1						
SAN JUAN	129.49	77.4	19	7	-4				23	7	
KSARA	130.99	303.0	19	7	-7				21	43	PP
JERUSALEM	131.93	300.4	19	14	-1						
LWOW	132.69	327.4							18	16	
COPENHAGEN	133.54	339.9							22	12	PP
KRAKOW	134.62	329.9	19	19	-1				21	45	
HELWAN	135.57	298.7	19	22	0				22	8	
PRUHONICE	137.16	333.4	19	24	-1	19	32		22	16	PP
JENA	137.66	336.4	19	24	-2				22	12	PP
PLAUEN	137.77	335.6	19	24	-2						
MUNSTER	138.22	340.3	19	21	-6						
BENSBERG	139.23	339.9	19	29	0				22	24	PP
KATHFARNHAM	140.11	353.1							21	15	
STUTTGART	140.31	336.3	19	22	-9				22	38	
EBINGEN	140.88	335.9	19	31	-1						
STRASBOURG	141.01	337.3	19	36	4				22	51	PP

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	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
GARCHY	143.76	340.7	19	34	-3						23	15	PP
CLERMONT-FD.	145.07	339.4	19	38A	-1								
IAMANRASSET	159.73	299.1	20	1	1						24	26	PP
MBOUR	176.71	78.5	20	12	0						26	30	

MARCH 11 23.H 52.M 59.S EPICENTRE 16.43 -99.06 DEPTH= 0.KM

A=-0.15106 B=-0.94772 C= 0.28109 D=-0.9875 E= 0.1574
G=-0.0442 H=-0.2776 K=-0.9597 HT= 5.5

SE= 2.50

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
OAXACA	2.27	74.7	0	44K	4								
TACUBAYA	2.96	357.4	0	50A	0								
VERA CRUZ	3.92	44.9	1	6	3	1	59	8					
COMITAN	6.65	90.6	1	41	-1								
MAZATLAN	9.63	315.3									4	49	SS
SAN SALVADOR	9.86	104.5									5	17	SG
MERIDA	10.01	61.9	3	31	62	4	28	5			6	25	
CHIHUAHUA	13.76	333.1				5	55	0					
TUCSON	19.03	328.0	4	29	3								
FAYETTEVILLE	20.05	11.6	4	36	-2	8	23	4			13	0	
BALBOA HTS.	20.40	109.0	4	45	3								
COLUMBIA	23.85	39.5	5	14	-2	9	39	9					
BOULDER CITY	24.01	327.2	5	20	2								
PASADENA	24.62	319.3	5	22	-2						7	26	
CHINCHINA	25.65	113.8	5	30	-3	10	8	8					
SALT LAKE C.	26.67	338.0	5	44	1								
FUQUENE	27.11	110.8	5	47	0	10	17	-7					
BOGOTA	27.18	112.8	5	53	6	10	32	7					
EUREKA	27.30	330.6	5	50	1						6	40	PP
RAPID CITY	27.78	353.6	5	55	2								
MORGANTOWN	28.49	32.0	5	57A	-2	11	41	54					
BOZEMAN	30.84	343.5	6	22	2								
SAN JUAN	31.47	81.5	6	25	-1								
BUTTE	31.59	341.9	6	27	0								
PALISADES	32.74	36.5	6	35	-2	11	59	5			7	47	PP
HUNGRY HORSE	34.12	342.1	6	48	-1								
OTTAWA	34.88	29.2	6	53	-3	12	35	8					
BERMUDA	34.91	56.6	7	1	5	12	31	4					
SEATTLE	36.55	333.4									21	1	
HUANCAYO	36.76	138.9	7	10	-1								
SHAWINIGAN	37.13	30.4	7	14K	-1								
SEVEN FALLS	38.48	31.3	7	24	-2	13	31	9					
HALIFAX	40.97	39.2									14	9	PPS
LA PAZ	44.73	135.5	7	17	-60	14	53	-1					
RESOLUTE	58.30	1.3	9	56A	-3	18	19	18			11	56	SS
THULE	62.09	7.9	10	23	-2								
NORD	72.74	8.8	11	31	-1								
GARCHY	86.07	41.9	12	42	-2								
PRUHONICE	91.92	36.3	13	13	1						14	23	
IAMANRASSET	96.59	64.0	13	29	-4						17	26	PP
HONG KONG	129.60	318.8	15	49	-203						17	24	
QUETTA	131.74	16.3	19	14	-2						22	45	PKS

MARCH 13 23.H 49.M 25.S EPICENTRE 12.58 122.87 DEPTH= 0.KM

A=-0.52984 B= 0.82003 C= 0.21637 D= 0.8399 E= 0.5427
G=-0.1174 H= 0.1817 K=-0.9763 HT= 6.2

SE= 2.87

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
MANILA	2.71	317.5	0	42	-3	1	24	5					
BAGUIO CITY	4.42	330.2	1	8	-2						2	11	S*
HENGCHUN	9.59	348.1	2	24	2	5	20	68					
TAITUNG	10.25	351.1	2	31	0								
HSINKONG	10.56	352.5	2	40	5								
TAINAN	10.67	346.7	2	47	10								
TAIPEI	12.45	354.3	3	15	14	6	34	72					
KOROR	12.57	113.4	3	3	0								

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HONG KONG	12.74	320.6	3	7A	2	5	38	9	4	9 PPP
CANTON	13.86	320.2	3	20A	0	5	58	2	3	31 PP
PHU-LIEN	17.56	299.9	4	10	3	7	34	12		
ZO-SE	18.50	355.4	4	15A	-4					
NANKING	19.74	349.7	4	32	-2					
KUNMING	22.74	305.9	5	6K	1					
DJAKARTA	24.52	221.4	5	21A	-1	9	42	2		
LEMBANG	24.52	219.0	5	21	-1	10	42	61		
SIAN	25.03	331.8	5	34	7					
CHENGTU	25.05	318.9	5	26	-1					
KYOTO	25.20	25.4	5	33A	5					
MEDAN	25.54	251.5	5	34K	2				6	13 PP
MATUSIRO	27.57	27.4	5	47	-3	10	22	-9		
PEKING	27.98	349.0	5	50	-4	10	35	-3		
TATUNG	28.69	344.6	6	4	4					
IRUK	28.97	97.3	6	4	1					
LANCHOW	29.02	327.0	5	58	-5					
PORT BLAIR	29.48	271.5	6	19	11	11	4	2		
TOCKLAI	29.89	302.3	6	1	-10					
CHITTAGONG	31.11	292.5	6	22A	0	11	33	6	7	28 PP
VLADIVOSTOK	31.42	12.7	6	26	1	11	33	1		
SHILLONG	31.93	298.4	6	28K	-1	11	40	0		
PORT MORESBY	32.54	131.6	5	29	-65	11	43	-7	7	35 PP
LHASA	34.04	304.9	6	48	0	12	15	2	8	2 PP
CALCUTTA	34.30	291.6	6	51	1	12	24	7	8	22
CHATRA	36.33	298.3	7	5	-2					
BOKARO	36.84	293.0	6	36	-35				8	4
ULAN-BATOR	37.68	342.4	7	14	-4	13	12	3		
CHARTERS TS.	39.73	144.3	7	33A	-3					
MADRAS	41.60	275.5	7	51	0				10	38
IRKUTSK	42.31	343.1	7	55	-2	14	8	-10		
HYDERABAD	43.10	282.1				14	35	5		
AGRA	44.35	296.0	8	13K	0	14	46	-2	9	59 PPP
DEHRA DUN	44.97	300.4	8	16	-2	14	57	0	9	59 PP
POONA	47.48	283.6	8	38	0				11	13
LAHORE	48.35	301.1	8	43K	-2					
BOMBAY	48.45	284.1	8	45	-1	15	51	4	18	16
BRISBANE	49.41	144.0	8	49A	-4	14	54	-66		
PETROPAVLOVK	49.46	27.6	8	50	-4					
WARSAK DAM	51.14	303.6	9	5K	-1					
SEMIPALATNSK	51.24	326.2	9	5	-2					
MAGADAN	51.28	17.8	9	12	5					
FRUNSE	51.38	315.4	9	7	-1	16	24	-3		
NAMANGAN	52.80	312.2	9	24	5					
RIVERVIEW	53.43	150.6	9	26	2	16	59	4		
KARACHI	53.99	292.8	9	27K	-1					
QUETTA	54.41	298.1	9	29K	-2	17	11	2	11	33 PP
IIKSI	59.13	2.2	10	0	-4					
MAKHACH-KALA	70.85	311.3							11	25 PCP
TIFLIS	72.87	310.0	11	31	-1				21	2
MOSCOW	77.04	324.7	11	54	-2	21	38	-7		
APATITY	78.26	336.9	11	59	-4					
COLLEGE	78.42	25.8	12	0	-4				15	9 PP
SIMFEROPOL	80.36	313.9	12	13	-1					
PULKOVO	80.52	329.2							12	19 PCP
IANANARIVE	80.53	248.2	12	19	4				12	45
SODANKYLA	80.88	337.1	12	14	-3					
JERUSALEM	81.52	300.6	12	21	1					
MIRNY	81.92	191.6	12	23	1					
KIRUNA	83.09	338.1	12	26	-3	22	46	-2	22	54 SCS
NORD	83.99	354.5	12	39	6					
IASI	84.45	317.0	12	35	0					
ISTANBUL KA.	84.68	310.7	12	38	1					
HELWAN	85.16	299.4	12	39	0	23	12	3		
SITKA	85.87	32.4	12	49	6					
BUCHAREST	86.07	314.5				23	12	-5	15	6
LWOW	86.12	320.1	12	43	-1	23	7	-11		
UPPSALA	86.72	330.8	12	43	-4	23	10	-14		
WARSAW	87.29	322.9	12	52	3	23	27	-2		
SKALSTUGAN	87.71	335.2	12	52	0					
KRAKOW	88.60	321.1	13	1	5	23	40	-1	13	9 PCP
RESOLUTE	89.81	9.4	12	59K	-2	23	47	-5	29	35 SS
THULE	90.92	2.6	13	7	0				16	44 PP
BRATISLAVA	90.97	319.9	13	11	4				16	47 PP
PRUHONICE	91.88	322.2	13	10	-1	24	13	2	16	57 PP
HALLE	92.81	324.2	13	16	1				17	3 PP
PLAUEN	93.10	323.3	13	18	1				13	46
JENA	93.25	323.8	13	20	3				17	3 PP

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ASTRIDA	93.62	268.2	13	20K	1					
TRIESTE	94.02	318.4	13	25	4	23	53	-37	24 2	SKKS
LWIRO	94.45	268.7	13	26	3	23	53	-40		
STUTTGART	95.57	322.5	13	27	-1				16 23	
PARIS	99.44	324.7	13	46	0				17 48	PP
GARCHY	99.90	323.1							17 58	PP
MINERAL	100.49	44.5	13	47	-3				22 12	
HUNGRY HORSE	101.22	34.7	13	56	2				18 12	PP
SOUTH POLE	102.50	180.0	13	58	-1				17 59	PP
EUREKA	104.71	43.2	14	11	2				18 30	PKP
TAMANRASSET	109.31	299.7	17	32	777	25	10	29	18 38	PP
PALISADES	124.47	15.4							32 5	PPS
MBOUR	132.04	302.7							21 57	PP
BERMUDA	134.72	9.0							25 35	
SAN JUAN	147.99	16.3	19	52	8					
HUANCAYO	162.21	90.3	20	6	3				20 57	PKP2

MARCH 15 0.H 24.M 2.S EPICENTRE 22.68 121.84 DEPTH= 0.KM
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SE= 3.10

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
HSINKONG	0.60	314.0	0	15K	0	0	24	-2				
TAITUNG	0.64	276.2	0	16	0	0	23	-4				
TAWU	0.93	249.4	0	20	0	0	32	-2				
HENGCHUN	1.22	236.3	0	20A	-4	0	45	3				
ALISHAN	1.27	311.3	0	24	-1	0	43	0				
HWALIEN	1.30	351.1	0	27	2	0	43	-1				
KAOHSIUNG	1.45	267.9	0	28	0	0	53	5				
TAINAN	1.53	282.3	0	32	3	0	52	3				
TAICHUNG	1.81	324.2	0	36	3	1	4	7				
ILAN	2.08	357.8	0	39	2	1	5	1				
HSINCHU	2.25	339.5	0	41	2	1	12	4				
PENGHU	2.27	292.3	0	40	1	1	7	-1				
TAIPEI	2.36	352.9	0	41	1	1	14	3				
HONG KONG	7.10	268.4	1	46K	-2	2	57	-13				
CANTON	7.90	274.5	1	56	-3							
MANILA	8.10	185.9	2	0	-2	3	22	-13				
ZO-SE	8.41	356.1	2	3	-3	3	35	-8				
NANKING	9.71	344.5	2	21	-3	4	9	-6				
FUTZELING	9.90	331.3	3	14	47							
PHU-LIEN	14.26	265.3	3	25	0	7	17	72				
NHATRANG	15.91	231.3	3	48	1	6	46	2				
SIAN	16.16	318.3	3	46	-4							
KUNMING	17.68	281.5	4	9	0	7	23	-2				
CHENGTU	17.79	300.3	4	13	2	7	28	0				
PEKING	17.95	345.8	4	10	-3							
TIENSHUI	18.41	313.6	4	21	3							
KOROR	19.52	139.5	4	31	0	8	10	4				
MATUSIRO	19.80	42.1	4	32	-3	8	9	-4				
LANCHOW	20.56	314.5				8	18	-10				
TUKUBASAN	20.81	45.5	4	42	-3	8	39	6				
CHANGCHUN	21.29	6.9	4	47	-3	8	38	-5				
VLADIVOSTOK	22.03	19.9	4	55A	-3						9	9
WUWEI	22.42	317.0	5	5	3							
TOCKLAI	24.90	284.9	6	2	36							
SHILLONG	27.48	282.1	5	50	0	10	28	-2				
CHITTAGONG	27.71	275.2	5	55A	3							
ULAN-BATOR	27.88	338.2	5	55	2	11	14	38				
LHASA	28.44	290.6	6	0	2	10	44	-1				
MEDAN	29.39	233.1	6	7K	0	10	57	-3				
PORT BLAIR	29.84	253.4	7	0	49						12	10
CALCUTTA	30.89	276.3	7	16	56						11	13
CHATRA	31.69	284.6	6	26	-1	11	40	3				
LEMBANG	32.46	207.0	6	26	-8							
IRKUTSK	32.47	339.8				11	47	-2				
YAKUTSK	39.69	5.8	7	37	2	13	35	-5				
DEHRA DUN	39.73	290.6	7	46	10	13	37	-3			16	41 SSS
AGRA	39.84	285.6	7	39	2	13	35	-7			16	45 SS
RABAUL	39.90	128.3	7	38	1						9	8
MADRAS	40.69	263.6	7	59	15						9	26
HYDERABAD	40.99	270.8				14	1	2				

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PETROPAVLOVK	41.28	33.2	7	52	3	14	4	1				
MAGADAN	42.14	21.6	7	58	2	14	17	1				
SEMIPALATNSK	42.55	321.1	7	58	-1	14	17	-5				
LAHORE	42.92	292.4	8	1	-1							
FRUNSE	43.89	308.9	8	9	-1	14	42	0		17	46	SS
POONA	44.96	273.9	8	22	3	15	1	4		10	10	PP
WARSAK DAM	45.28	295.9	8	20	-1							
BOMBAY	45.82	274.7	8	29	4	15	17	7		10	20	PP
TASHKENT	47.54	305.8	8	44	5	15	34	0		10	36	PP
STALINABAD	47.70	302.1								15	41	PS
CHARTERS TS.	48.67	148.8	8	45A	-3							
TIKSI	49.14	2.9	8	49	-2	15	50	-7		10	46	PP
QUETTA	49.33	290.9	8	52	-1	16	2	3		10	41	PP
KARACHI	49.76	285.3	8	58K	2							
SVERDLOVSK	55.61	324.3	9	36	-4					23	28	SSS
ASHKABAD	55.90	301.3	9	44	2	17	32	3		10	6	
BRISBANE	58.27	147.2	10	4	5	17	57	-3				
MELBOURNE	64.00	159.8	10	35A	-2							
TIFLIS	65.84	306.9				19	34	-2		20	32	SCS
MOSCOW	68.35	322.7	11	5	0							
APATITY	68.66	335.7	11	3	-4							
COLLEGE	69.86	27.1	11	12	-3	20	36	12		13	53	PP
SODANKYLA	71.27	336.0	11	20	-3							
KIRUNA	73.42	337.2	11	32	-4	21	11	6		11	52	PCP
HELSINKI	73.93	328.9	11	35	-4							
KSARA	74.54	300.5	11	39	-3							
UPPSALA	77.50	329.9	11	55K	-4							
SITKA	77.94	33.0	12	5	4							
SKALSTUGAN	78.20	334.5	12	1	-2					12	14	PCP
BUCHAREST	78.39	313.3	11	58	-6					14	6	
HELWAN	79.46	297.9	12	11	1	22	10	-1				
RESOLUTE	80.05	9.3	12	8	-5	21	58	-19		27	26	SS
KRAKOW	80.20	320.2	12	15	1					12	26	PCP
THULE	80.93	2.4	12	17	-1							
PRUHONICE	83.36	321.6	12	30	0	22	29	-22				
TANANARIVE	83.50	246.5	12	33	2							
COLLMBERG	83.62	323.3	12	30	-2							
HALLE	84.10	323.8	12	34	0							
JENA	84.58	323.4	12	39	3							
WITTEVEEN	86.20	326.6	12	41	-3							
STUTTGART	87.00	322.3	13	0	12							
PARIS	90.66	324.8	13	17	11					16	57	PP
RATHFARNHAM	92.04	331.8	12	57	-15							
ASTRIDA	92.94	268.4	13	18	2							
SHASTA	93.22	43.3	13	19	1							
HUNGRY HORSE	93.44	33.6	13	17	-2					17	21	PP
LWIRO	93.66	269.1								17	29	PP
MINERAL	93.92	43.3	13	30	9							
BUTTE	95.71	34.7	13	34	5							
EUREKA	97.93	41.4	13	51	12					17	49	PP
MALAGA	102.15	318.5	13	49K	-9							
TAMANRASSET	103.32	301.8	18	11	248							
SOUTH POLE	112.54	180.0	18	36	-2							
PALISADES	114.97	13.1								36	38	
TRINIDAD	146.69	6.0	19	44	2							
FUQUENE	148.15	30.4	19	58	14							
HUANCAYO	160.52	60.0	20	10	9					20	59	PKP2
LA PAZ	168.77	58.6	20	19	11					25	25	PP

MARCH 15 6.H 27.M 7.S EPICENTRE 40.77 21.08 DEPTH= 0.KM

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	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
SKOPJE	1.23	11.1	0	27A	3	0	39	-3					
SOFIA	2.56	40.4	0	43	0	1	18	2			0	53	P*
TARANTO	2.93	265.3	1	46	57						2	11	
ATHENS	3.47	143.0	0	58K	2	1	49	10			1	3	P*
BELGRADE	4.07	353.7	1	4A	-1	2	13	18					
TIMISOARA	4.98	1.1	1	34	16	2	39	22			1	56	PG
REGGIO CALA.	4.98	239.3	1	19	1	2	51	34					
MESSINA	4.99	240.8	1	19A	1	2	15	-2			2	38	S*
BUCHAREST	5.20	43.8	1	20	-1	2	33	11			1	52	PG

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CAMPULUNG	5.35	31.5	1	23	0				3	5	
SZEGED	5.52	353.1	1	42	17	2	53	23	2	10	PG
KALOCSA	5.95	345.9	1	36	4				3	33	SG
ISTANBUL KA.	6.06	84.6	1	30	-3	2	45	1			
ZAGREB	6.27	325.3	1	40	4				2	19	PP
ROME	6.57	282.7	1	44	4						
FOCSANI	6.65	40.2				3	26	27			
BUDAPEST	6.86	348.5	1	51	7	3	8	4	4	27	SG
TRIESTE	7.24	314.7	1	49	-1	3	10	-4	2	21	PGPG
HURBANOVO	7.39	344.7	2	46	54	3	9	-8	3	56	SG
FLORENCE X.	7.88	295.6	1	33	-26	3	6	-24			
BRATISLAVA	7.92	340.3	1	58	-1	3	23	-8	2	17	PG
IASI	7.94	33.9	1	57	-2	4	31	60			
PRATO	8.02	296.1	2	12	11	4	26	53			
BOLOGNA	8.10	300.6	2	14	12	3	45	10			
VIENNA-H.	8.20	337.4	2	4	1	3	32	-5	2	44	PG
LWOW	9.29	11.9	2	21	3	4	13	8			
KRAKOW	9.31	355.4	2	22	4	4	58	53	2	29	PP
RACIBORZ	9.52	348.7	2	27	6	5	2	52	2	31	PP
PAVIA	9.78	300.7	2	36	11				5	27	
PRUHONICE	10.28	335.7	2	34	2	4	29	0			
CHUR	10.32	309.9	2	31	-1	4	26	-4			
PRAGUE	10.40	335.6	2	7	-26	4	26	-6			
SIMFEROPOL	10.44	62.1	2	32	-2						
MONACO	10.54	290.8	2	49	14	4	53	18			
OROPA	10.73	301.2	2	36	-2	4	7	-33			
RAVENSBURG	10.79	314.3	2	38	-1				3	31	
ZURICH	11.14	310.4	2	43	-1	4	42	-8			
EBINGEN	11.38	314.6	2	44	-3	4	46	-10			
WARSAW	11.46	359.8	2	46	-2	4	51	-7	5	5	SS
TUBINGEN	11.54	316.2	2	46	-3	4	49	-11			
PLAUEN	11.55	330.3	2	46	-3				5	48	
STUTTGART	11.62	317.4	2	47	-3				5	25	SS
BASLE	11.81	309.4	2	53K	0	4	51	-15			
NEUCHATEL	11.94	306.1	2	53	-1	5	4	-6			
JENA	12.11	330.1	2	56	-1	5	22	8	5	39	SS
KARLSRUHE	12.18	316.8	2	56	-2	5	8	-7	6	34	
STRASBOURG	12.26	314.0	3	0	1	5	9	-8			
HALLE	12.45	332.6	3	15	14	5	23	1	8	31	PCP
POTSDAM	12.84	337.4	3	5	-2				7	11	
KSARA	13.66	115.8	3	17	0	5	48	-3	6	4	SS
HELWAN	13.71	139.3	3	13	-5	5	32	-20			
BENSBERG	14.04	321.2	3	34	12				3	42	PP
SOTCHI	14.10	72.4	3	29	6	6	12	10			
GARCHY	14.48	302.7	3	28	0	6	5	-6			
JERUSALEM	14.50	123.8	3	29	1	6	16	5			
MUNSTER	14.52	324.9	3	8	-21				6	21	
ALGIERS UNI.	14.62	260.0	3	35	5	6	19	5	3	46	PP
PARIS	15.43	307.6	3	43	3	6	40	7			
COPENHAGEN	15.97	342.0				6	59	13			
ALICANTE	16.80	268.7	3	43	-15	6	41	-24	7	15	SSS
RELIZANE	16.88	259.3	3	58	-1	7	32	25	4	23	PPP
TIFLIS	17.85	79.2	4	13	2						
KEW	18.22	313.1	4	16	0	7	46	9			
TOLEDO	19.17	275.6	4	38K	11	8	20	21	4	52	PP
UPPSALA	19.22	354.7	4	33	5	7	58	-2			
GRANADA	19.50	267.4	4	54	23	8	25	19			
HELSINKI	19.57	5.8	4	30	-2						
MAKHACH-KALA	19.77	74.9	4	33	-1						
PULKOVO	19.88	13.8	4	31	-5	8	3	-11			
MALAGA	20.26	266.7	4	39K	-1	8	25	3	5	7	PPP
DURHAM	20.56	320.5	4	40	-3						
TAMANRASSET	22.23	220.9	5	2A	2	9	9	9	10	40	
RATHFARNHAM	22.31	313.4	5	4	4				13	3	
SKALSTUGAN	23.43	350.1	5	10	-2	9	21	-1			
SODANKYLA	26.83	4.8	5	42	-2						
KIRUNA	27.11	359.5	5	44	-2	10	34	10			
APATITY	27.68	10.2	5	49	-3						
NAMANGAN	37.81	72.6	7	18	-2						
QUETTA	38.44	91.1	7	22	-3	13	22	1			
WARSAK DAM	40.21	83.0	7	38	-2						
KARACHI	40.74	96.9	7	47K	3						
NORD	42.97	352.4	7	59	-3						
LAHORE	43.39	84.7	8	3K	-3						
THULE	50.65	342.2	9	2	-1						
RESOLUTE	57.41	343.5	9	43	-10	17	29	-20			
SEVEN FALLS	62.75	309.8	10	29	0						
SHAWINIGAN	64.18	310.1	10	50	11						

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OTTAWA	66.53	310.3	10 59	5
KIMBERLEY	69.25	176.5	11 9	-2
MAGADAN	71.78	24.4	11 16	-10
MORGANTOWN	72.48	307.4	11 33	3
COLLEGE	74.34	355.1	11 39	-2
RAPID CITY	81.80	323.0	12 27	5
HUNGRY HORSE	82.78	331.7	12 26	-1
FAYETTEVILLE	83.17	312.5	12 23A	-6
MATUSIRO	83.87	46.1	12 31	-2
BOZEMAN	83.88	328.5	12 33	0
BUTTE	84.19	329.5	12 38	4
LARAMIE	85.06	322.7	12 38	-1
MINERAL	92.41	332.4	13 18	4
TUCSON	94.81	320.7	13 30	5
CHARTERS TS.	129.25	83.0	19 9	-2

MARCH 18 22.H 20.M 0.S EPICENTRE 50.24-172.95 DEPTH= 0.KM
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SE= 1.49

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
PETROPAVLOVK	17.79	290.3	4 10	-1				
COLLEGE	19.70	32.5	4 31	-3	8 15	4		
MAGADAN	22.56	308.3	5 5	2				
SITKA	23.08	58.3	5 10	1	9 34	18		
ALBERNI	30.68	72.9	6 19A	0				
VICTORIA	31.82	73.6	6 26K	-3	9 19	-140		
SEATTLE	32.85	74.6	6 40K	2				7 15
TIKSI	33.44	330.7	6 46	3				
CORVALLIS	33.55	80.2	6 46	2				
BANFF	35.57	65.8	7 1	0				9 29
SHASTA	36.09	85.4	7 6K	0				
UKIAH	36.42	88.3	7 11	3				
MINERAL	36.78	85.4	7 12K	0				9 32 PCP
MATUSIRO	37.35	267.6	7 17K	1				9 35
HUNGRY HORSE	37.60	69.4	7 18	0				9 36 PCP
VLADIVOSTOK	37.74	281.0	7 19	-1	13 7	-4		
BERKELEY	37.76	89.2	7 20K	0				
RENO	38.38	85.2	7 26K	1				
LICK	38.47	89.5	7 26K	0				
RESOLUTE	39.25	24.3	7 32K	0	13 32	-1		9 4 PP
BUTTE	39.56	72.0	7 35	0				
FRESNO	39.99	88.8	7 40	2				
BOZEMAN	40.65	71.7	7 43	-1				
EUREKA	40.86	82.7	7 46	1				9 46 PCP
CHANGCHUN	41.49	285.8	7 50K	-1	14 6	-1		
PASADENA	42.65	90.7	8 0	0				
SALT LAKE C.	42.74	78.4	8 1	0				8 48
BOULDER CITY	43.66	86.1	8 9	1				
THULE	45.04	18.8	8 21	1	14 58	-1		
RAPID CITY	46.24	69.4	8 28	-1				10 4 PCP
LARAMIE	46.35	74.0	8 29	-1				
BOULDER	47.26	75.2	8 38	1				
NORD	47.79	4.6	8 42K	1				
TUCSON	48.58	87.2	8 47	0				10 13 PCP
IRKUTSK	49.10	306.2	8 51	0	15 59	3		
PEKING	49.26	286.8	8 52	-1	15 56	-3		
TRUK	51.74	226.7	9 12	0				
ZO-SE	51.74	274.5	9 11K	-1				
LUBBOCK	53.44	79.5	9 22	-2				
SCORESBY SD.	57.77	11.1	9 55	-1	17 58	4		
LANCHOW	59.28	290.7	10 6	0				
OTTAWA	60.85	53.2	10 15	-2				
APATITY	60.86	348.7	10 16	-1				
SHAWINIGAN	61.54	50.6	10 19K	-3				
SODANKYLA	61.78	351.5	10 22	-1				
KIRUNA	61.82	354.3	10 22K	-1	18 46	0		
SEVEN FALLS	62.10	49.1	10 23K	-2				
MORGANTOWN	62.54	60.4	10 27A	-1				
CHENGTU	62.87	286.0	10 30	0				
SVERDLOVSK	64.48	330.6	10 40	-1	19 23	4		
PALISADES	64.86	55.6	10 42	-1	19 33	9		18 29

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WESTON	65.23	53.1	10	44K	-2					
COLUMBIA	65.87	65.5	10	48	-2					
SKALSTUGAN	66.44	357.5	10	53	-1					
HALIFAX	67.37	46.9							26	41 SSS
KUNMING	67.67	282.6	11	OK	-1	19	56	-2		
PULKOVO	68.73	347.6	11	8	0	20	11	0		
UPPSALA	69.93	354.3	11	15	0	20	22	-3		
FRUNSE	70.16	313.8	11	18	1	20	31	3		
MOSCOW	71.37	342.3	11	22	-2	20	38	-4		
LHASA	71.42	294.0	11	25	1	20	44	2		
NAMANGAN	72.99	314.3	11	35	1					
SHILLONG	73.94	290.6	11	38K	-1					
COPENHAGEN	74.35	356.8	11	43	1	21	22	6		
DURHAM	75.11	5.2	11	49	3	21	23	-1		
CHATRA	75.78	294.7	11	48	-2					
BERMUDA	76.21	55.8				21	36	0		
RATHFARNHAM	76.22	8.2	12	40	48					
CHITTAGONG	76.36	288.5	11	53K	0	21	38	0	14	45 PP
WITTEVEEN	77.31	0.2	12	0	2					
POTSDAM	77.63	356.2	11	58	-2					
HOWRAH	78.33	291.1	10	43	-81					
KEW	78.47	4.7	12	5	0					
HALLE	78.55	356.9	12	6	1				15	6 PP
WARSAK DAM	78.63	310.1	12	4	-2					
CHARTERS TS.	78.68	218.8	12	6K	0					
COLLMBERG	78.71	356.2	12	6	0				15	0
JENA	79.13	357.1	12	8	0				13	3
LAHORE	79.20	306.7	12	8K	-1					
KRAKOW	79.48	351.6	12	11	1				13	1
RACIBORZ	79.60	352.7	12	13	2					
SONNEBERG	79.69	357.3	12	11	0					
PRAGUE	79.87	355.2	12	16	4				14	34
PRUHONICE	79.95	355.1	12	12	-1	22	30	14		
MAKHACH-KALA	80.67	331.1	12	17	0	22	25	1		
IASI	81.33	346.0	12	21	1					
STUTTGART	81.35	358.6	12	20	0					
STRASBOURG	81.56	359.5	12	22	1				13	24
BRATISLAVA	81.59	353.2	12	28	7					
EBINGEN	81.94	358.7	12	24	1					
SIMFEROPOL	82.31	341.0	12	26	1	22	44	3		
TIFLIS	82.63	332.5	12	28	1	22	41	-3		
QUETTA	83.99	311.1	12	34K	0	22	59	1	15	38 PP
CLERMONT-FD.	84.31	2.8	12	37	2					
TRIESTE	84.31	355.3	12	33	-2					
FLORENCE X.	86.29	357.0	12	45A	0	23	25	5	24	22 PS
SAN JUAN	86.34	65.6	12	45	-1					
MONACO	86.41	359.7	12	46	0					
MESSINA	91.61	353.3				25	20	71		
GRANADA	92.44	8.5	13	2K	-12					
KSARA	92.50	336.3	13	14	-1	24	10	-7		
MALAGA	92.82	9.2	13	14A	-2				36	50
TAMANRASSET	107.29	1.5							17	51
LWIRO	128.74	331.7	19	12	2					
ASTRIDA	128.78	330.4	19	12	2					
BYRD STATION	133.49	168.9	19	9	-10					
SOUTH POLE	140.05	180.0	19	21	-10					
KIMBERLEY	154.67	321.3	19	58	4					

MARCH 19 16.H 4.M 1.S EPICENTRE 46.88 14.25 DEPTH= 0.KM

A= 0.66491 B= 0.16885 C= 0.72759 D= 0.2461 E=-0.9692
G= 0.7052 H= 0.1791 K=-0.6860 HT= -4.3

SE= 3.75

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
TRIESTE	1.28	195.9									0	7	PG
ZAGREB	1.60	130.8	0	17A	-12						0	35	SG
VIENNA-H.	1.99	45.5	0	33	-2	1	1	0			0	40	PG
BRATISLAVA	2.32	55.2	0	37K	-3	1	7	-2			0	42	PG
HURBANOVO	2.86	68.3	0	58	11	1	10	-13			1	16	SG
PRUHONICE	3.11	3.6	0	51	0	1	31	2			1	2	PG
BOLOGNA	3.14	221.8	0	49	-2	1	48	18			1	23	
PRAGUE	3.20	2.1	0	55	3	1	36	4			1	3	PG
CHUR	3.24	271.2	0	49	-4	1	48	15					
KALOCSA	3.27	94.4	1	0	7						1	40	SG

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RAVENSBURG	3.28	287.7	0	59	6				1	52 SG
BUDAPEST	3.34	77.9	0	59	5				1	49 SG
PRATO	3.73	217.6	1	1	1	1	45	0		
FLORENCE X.	3.75	215.4	1	1	1	1	42	-4		
EBINGEN	3.81	291.9	0	59	-2				1	13 PG
TUBINGEN	3.87	297.2	0	59	-3	1	49	0	1	13 PG
PLAUEN	3.88	339.8	0	59	-3	1	45	-4	1	14 PG
STUTTGART	3.89	300.9	1	0A	-2	1	51	1	1	17 PG
ZURICH	3.90	279.3	1	4	2				2	9 SG
PAVIA	3.92	246.2	0	56	-6	1	41	-10		
SZEGED	4.11	96.7	1	13	8	1	59	4	1	25 PG
RACIBORZ	4.14	37.9	1	5	-1	1	54	-2	2	16 SG
JENA	4.42	337.5	1	9	0	1	54	-9	1	26 PG
KARLSRUHE	4.47	300.7	1	27	17	2	21	17	1	45 PG
COLLMBERG	4.50	350.0	1	13	2	2	20	15	1	28 PG
OROPA	4.53	256.2	1	22	11	2	18	12		
BASLE	4.59	280.6	1	13	1				2	34 SG
STRASBOURG	4.69	293.6	1	12	-1	2	17	7	1	35 PG
BELGRADE	4.80	113.2	1	9A	-6	2	22	10	1	29
HALLE	4.87	342.8	1	16	0	2	14	0	1	35 PG
KRAKOW	4.93	47.9	1	21	4	2	11	-5	1	34 PG
TIMISOARA	4.96	100.6	1	28	11	2	30	14		
NFUCHATEL	5.00	274.1	1	12	-6				2	45 SG
ROME	5.14	194.9	1	21	1					
POTSDAM	5.56	352.5							1	52 PG
MONACO	5.75	239.3							1	42 PG
BENSBERG	6.20	313.8	1	35	0	2	42	-5		
MUNSTER	6.68	322.1	1	43	2				3	44
WARSAW	6.93	36.9				3	5	-1	3	45
LWOW	7.15	62.0				3	2	-9	4	10
GARCHY	7.64	277.1	1	45	-10	3	20	-3		
SOFIA	7.69	119.6	2	14	18				3	22
WITTEVEEN	7.70	323.3	2	11	15					
CLERMONT-FD.	7.78	265.9	1	53	-4	3	17	-10		
DE BILT	7.88	314.8							4	23 SG
PARIS	8.14	288.0	2	38	36				4	37 SG
PULKOVO	16.03	30.5	4	38	50					
SKALSTUGAN	16.78	356.9	3	56	-1					
MOSCOW	17.02	50.1	3	54	-7					
KSARA	20.94	120.8	4	34	-12					
KIRUNA	21.25	6.5	4	49	-1					
HELWAN	21.55	136.0	4	39	-14				5	14
TAMANRASSET	25.05	199.3	5	11	-16					
HUNGRY HORSE	75.02	327.2	11	38	-7					

MARCH 20 1.H 38.M 5.S EPICENTRE 50.49-172.84 DEPTH= 0.KM

A=-0.63383 B=-0.07962 C= 0.76936 D=-0.1246 E= 0.9922
G=-0.7634 H=-0.0959 K=-0.6388 HT= -5.6

SE= 2.08

	DELTA DEG.	AZ. DEG.	P M	S	O-C S	S M	S	O-C S	*PP M	S	SUPP. M	S	
KLYUCHI	16.72	300.6	3	55	-1	7	8	8					
PETROPAVLOVK	17.78	289.6	4	8	-1	7	32	7			4	35	PPP
COLLEGE	19.46	32.8	4	26	-3	8	10	8					
MAGADAN	22.47	307.8	5	1	1								
SITKA	22.90	58.8	5	8	4	9	28	19			5	44	PP
KURILSK	26.65	274.0	5	40	0								
KUSIRO	29.91	272.2	6	5	-5	11	20	15					
ALBERNI	30.55	73.4	6	15	0	11	25	10					
KIPAPA	31.27	152.7	6	20	-2								
HONOLULU	31.36	152.9	6	20	-3	11	35	7					
URAKAWA	31.36	272.0	6	23	0	11	27	-1					
VICTORIA	31.68	74.0	6	25K	0								
SAPPORO	31.81	274.5	6	27	1						14	16	
TOMAKOMAI	31.94	273.5	7	9	41								
MURORAN	32.42	273.6	6	31	-1								
SEATTLE	32.72	75.0	6	37A	3	12	0	11					
MORI	32.80	273.5	6	34	-1	11	58	7					
MIYAKO	33.22	268.7									11	2	
TIKSI	33.27	330.5	6	39	0	11	55	-3			7	48	PP
AOMORI	33.34	271.4	6	41	1								
CORVALLIS	33.45	80.6	6	42	1								
MORIOKA	33.71	269.4	6	44	1								

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HAWAII V.OB.	33.99	149.4			13	43	94		9	31 PCP
MIZUSAWA	34.05	268.6	6	47 1	12	19	9			
AKITA	34.38	270.2	6	49 0	12	36	21			
SENDAI	34.70	267.5	6	51 0						
BANFF	35.41	66.1	6	57 -1						
ONAHAMA	35.48	265.7	6	59 1					7	59
SHASTA	36.00	85.9	7	3 0						
NIIGATA	36.08	268.5							16	36
MITO	36.10	265.3	7	6 3						
UKIAH	36.35	88.7	7	9 3						
KAKIOKA	36.38	265.3	7	7 1						
UTUNOMIYA	36.38	266.0	7	6 0					7	47
TUKUBASAN	36.44	265.4	7	3A -3					8	15 PP
MINERAL	36.70	85.8	7	9A 1						
KUMAGAYA	36.94	265.9	7	13 3						
MAEBASI	36.98	266.5	7	12 1					7	58
TOKYO C.M.O.	36.99	265.0	7	14 3	13	0	5			
YOKOHAMA	37.21	264.7	7	16 3	12	59	0			
OIWAKE	37.36	266.8	7	10 -4						
NAGANO	37.37	267.5	7	17 3					13	42
MERA	37.42	263.9	7	13 -2					14	23
MATUSIRO	37.43	267.3	7	12K -3	12	54	-8		9	33
HUNGRY HORSE	37.45	59.8	7	15 0	13	20	18		9	33 PCP
BERKELEY	37.69	89.6	7	17A 0	13	13	7			
HUNATU	37.73	265.5	7	16 -1						
VLADIVOSTOK	37.76	280.7	7	15 -2					13	19 PCS
MATUMOTO	37.78	267.2	7	19 1						
KOHU	37.78	265.9	7	18 0						
MISIMA	37.85	264.9	7	20 2						
TOYAMA	37.99	268.4	7	21 2						
KENO	38.29	85.6	7	23 1						
SHIZUOKA	38.30	265.2	7	20 -2						
LICK	38.40	89.9	7	23 0						
OMAESAKI	38.65	264.9	7	24 -1						
HUKUI	38.98	268.3	7	31 3						
RESOLUTE	39.00	24.4	7	27K -1	13	28	2		9	1 PP
SUIHWA	39.07	288.4	7	24 -4						
GIHU	39.07	267.1	7	29 1	13	49	22			
NAGOYA	39.08	266.6	7	30 2						
BUTTE	39.41	72.4	7	31 0	13	37	5			
HIKONE	39.48	267.3	7	33 1						
KAMEYAMA	39.60	266.6	7	35 2						
TU	39.65	266.4	7	35 2						
FRESNO	39.92	89.2	7	35 0						
KYOTO	39.97	267.4	7	35A -1	13	45	5			
SASKATOON	40.12	61.1	7	40 3	13	42	-1		9	15
TOYOOKA	40.23	268.8	7	38 0						
OSAKA	40.33	267.2	7	40 1						
BOZEMAN	40.51	72.0	7	40 0	13	48	-1		8	31
EUREKA	40.76	83.0	7	42 0					9	46
SUMOTO	40.93	267.3	7	45 1	14	5	10		9	59
TOKUSIMA	41.30	267.2	7	48 1						
CHANGCHUN	41.49	285.6	7	46K -2	14	5	2		9	29 PP
HAMADA	42.38	270.2	7	57 1	14	17	1		17	28
PASADENA	42.59	91.0	7	57 0	14	20	1		9	39 PP
SALT LAKE C.	42.63	78.7	7	58 0					8	45
BOULDER CITY	43.57	86.4	8	5 0	14	40	6		9	44 PP
OOITA	43.73	268.6	8	6 -1						
HUKUOKA	44.27	270.0	8	12 1	15	13	29			
KUMAMOTO	44.58	268.9	8	13 -1						
IHULE	44.79	18.9	8	18 3	14	55	4		18	23 SCS
NAGASAKI	45.17	269.5	8	21 3						
KAGOSIMA	45.50	267.7	8	20 -1					11	14
RAPID CITY	46.09	69.7	8	24 -2						
LARAMIE	46.21	74.2	8	26 0						
SAIREN	46.56	282.0	8	31 2						
BOULDER	47.13	75.5	8	34 0						
NORD	47.54	4.6	8	39 2	15	38	8		11	19 PPP
TUCSON	48.50	87.5	8	44 0	15	53	9		10	31 PP
IRKUTSK	49.01	306.1	8	46K -2	15	43	-8		10	43 PP
PEKING	49.26	286.6	8	48 -2	15	58	3		10	48 PP
ULAN-BATOR	50.06	300.2	8	56 0	16	44	38			
TATUNG	50.98	288.5	9	6 3						
ZO-SE	51.79	274.4	9	7K -3	16	33	3			
TRUK	51.95	226.7	9	8 -3	16	38	6			
PAOTOW	52.63	290.9	9	15 -1						
NANKING	52.67	277.0	9	12K -4	16	39	-3			
TAIYUAN	52.84	286.6	9	19 2						

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LUBBOCK	53.33	79.8	9	18	-3	16	54	3	10	28 PCP
CHIHUAHUA	53.96	87.3	9	24	-2	17	2	3	19	12 SCS
LINFEN	54.58	285.7	9	31	1					
FAYETTEVILLE	56.42	72.4	9	41	-3	17	32	0	9 52	11 43 PP
FLORISSANT	56.94	67.6	9	44	-3	17	40	1		
ST. LOUIS 1	57.13	67.6	9	46	-3	17	43	2		
SIAN	57.39	285.7	9	51	1					
SCORESBY SD.	57.52	11.2	9	51	0	17	53	6	13	19 PPP
WUWEI	58.72	292.9	10	0	0	18	10	8		
TIENSHUI	59.11	288.1	10	4	2					
LANCHOW	59.26	290.6	10	1	-3	18	12	3	13	40 PPP
CLEVELAND	60.22	59.9	10	9K	-1	18	17	-5	12	24 PP
APATITY	60.64	348.8	10	12	-1					
OTTAWA	60.65	53.3	10	11K	-2	18	27	0	12	35 PP
KOROR	61.21	244.2	10	16	-1					
SHAWINIGAN	61.34	50.8	10	15K	-3	18	38	2	12	34 PP
SODANKYLA	61.55	351.6	10	18	-1					
KIRUNA	61.59	354.3	10	18	-1	18	37	-2	12	37 PP
PITTSBURGH	61.80	59.9	10	21A	0					
SEMIPALATNSK	61.82	316.0	10	20	-1	18	43	1	11	3 PCP
SEVEN FALLS	61.89	49.2	10	19K	-2	18	45	2	11	7 PCP
RABAUL	62.23	220.3	10	22	-2				12	31
MORGANTOWN	62.36	60.5	10	23A	-2					
HONG KONG	62.40	272.1	10	23K	-2	18	58	9	13	21 PP
CANTON	62.40	273.4	10	22	-3	18	51	2	14	10 PPP
BAGUIO CITY	62.62	262.6	10	26	0	18	52	0		
CHENGTU	62.87	286.0	10	25K	-3	18	55	0	12	49 PP
REYKJAVIK	63.49	13.8	11	44	72					
MANILA	63.75	261.0	10	35	1	20	7	61		
SVERDLOVSK	64.30	330.6	10	36	-1				20	15 SCS
GEORGETOWN	64.47	59.4	10	41	3	19	15	0	20	19 SCS
PALISADES	64.67	55.8	10	39	-1	19	18	0	13	4 PP
FORDHAM	64.80	55.9	10	39	-2	19	18	-1		
HARVARD	64.81	53.3	10	40	-1					
TACUBAYA	64.92	89.6	10	39K	-2	19	26	5	13	19 PP
WESTON	65.03	53.2	10	31K	-11	19	27	5		
CHAPEL HILL	65.48	62.9	10	45	0					
COLUMBIA	65.70	65.7	10	44	-2				39	23 PKPPKP
SKALSTUGAN	66.21	357.5	10	49K	-1	19	42	6	39	17 PKPPKP
VERA CRUZ	67.03	87.4							20	59
HALIFAX	67.16	47.0	10	54	-2	19	49	1	11	21 PCP
KUNMING	67.69	282.6	10	57K	-2	19	55	1	13	30
PHU-LIEN	68.29	276.6	10	58	-5	19	55	-7		
HELSINKI	68.76	350.6	11	5	-1					
SUVA	68.77	188.9	11	9A	3	20	13	6	24	25 SS
PORT MORESBY	69.02	222.8	11	8	1	20	11	1	21	12 SCS
BERGEN	69.46	1.0	11	6	-4	20	14	-1	13	42 PP
UPPSALA	69.69	354.4	11	10	-1	20	19	1	39	8 PKPPKP
MERIDA	69.88	81.3							16	16
FRUNSE	70.04	313.8	11	13K	0				21	10 SCS
MOSCOW	71.16	342.4	11	19	-1				21	0 PS
LHASA	71.38	294.0	11	22K	0	20	44	6	13	59 PP
ABERDEEN	72.44	5.3	11	27	-1	20	52	2	21	32 PS
NHATRANG	73.01	268.6	11	29	-2	20	55	-2		
TASHKENT	73.68	316.1	11	33	-2				14	21 PP
SHILLONG	73.92	290.6	11	35	-2	21	7	0		
COPENHAGEN	74.11	356.9	11	38K	0	21	15	6	21	51 SCS
DURHAM	74.86	5.2	11	42K	0	21	22	5	14	36 PP
RATHFARNHAM	75.97	8.3	11	48	0					
BERMUDA	76.02	55.9	11	49	0	21	30	0	15	11 PP
STALINABAD	76.15	314.7	11	48	-1	21	30	-1		
CHITTAGONG	76.35	288.5	11	49	-2	21	35	1	14	42 PP
WARSAW	76.99	351.3	11	53	-1	21	57	16	22	15 PS
WITTEVEEN	77.07	0.3	11	57	2					
POTSDAM	77.39	356.3	11	56	0	21	54	9	12	39
DE BILT	77.78	1.2	11	59	1	21	57	8	22	35 PS
MUNSTER	77.92	359.7	12	0	1				12	40
DEHRA DUN	78.14	303.4	12	4	4	22	1	8	15	8 PP
KEW	78.22	4.8	12	2	1	22	0	6	22	51 PS
HALLE	78.31	356.9	12	3	2	21	59	4	16	54 PPP
HOWRAH	78.31	291.1	12	1	0	22	14	19		
COLLMBERG	78.47	356.3	12	3	1					
WARSAK DAM	78.53	310.1	12	1	-2				15	1 PP
JENA	78.89	357.2	12	4	-1	22	7	6	15	2 PP
CHARTERS TS.	78.91	218.9	12	1A	-4					
BENSBERG	78.93	360.0	12	5	0				12	15 PCP
LWOW	79.03	349.0				22	13	11	12	17 PCP
LAHORE	79.11	306.7	12	4K	-2					
KRAKOW	79.25	351.7	12	7	0	22	5	0	12	20 PCP

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PLAUEN	79.30	356.8	12	4	-3	22	7	2	15	43		
RACIBORZ	79.37	352.8	12	8	1	22	6	0	22	15	SCS	
PRAGUE	79.63	355.2	12	13	4	22	16	7	15	29	PP	
PRUHONICE	79.71	355.2	12	9	0	22	16	6	15	16	PP	
JERSEY	80.40	6.1							30	25		
AGRA	80.66	301.4	12	13K	-1	22	17	-2	15	23	PP	
KARLSRUHE	80.88	359.2	12	16	1	22	30	8	15	18	PP	
PARIS	81.00	3.1	12	17	1	22	29	6				
ASHKABAD	81.10	321.4	12	15	-1				22	34	SCS	
STUTTGART	81.11	358.6	12	16	0	22	29	5	15	19	PP	
IASI	81.11	346.1	12	16	0	23	4	40				
STRASBOURG	81.31	359.6	12	19K	2	22	33	7	15	28	PP	
TUBINGEN	81.35	358.7	12	19K	1	22	31	4				
BRATISLAVA	81.35	353.3	12	19	1	22	32	5	15	8	PP	
HURBANOVO	81.56	352.5	12	22	3	22	36	7	23	8	PS	
EBINGEN	81.70	358.8	12	21	1	22	34	4				
BUDAPEST	81.88	351.9							15	29	PP	
RAVENSBURG	82.09	358.3	12	26	4	22	43	9				
SIMFEROPOL	82.10	341.0	12	21K	-1				22	41	SCS	
BASLE	82.37	359.7	12	24K	1	22	34	-3				
TIFLIS	82.45	332.5	12	24	1				22	46	SCS	
ZURICH	82.52	359.0	12	25	1							
GARCHY	82.55	2.8	12	24	0	23	1	22				
FOCSANI	82.63	346.0	12	33	9				13	37		
NEUCHATEL	82.90	0.1	12	27	1	22	52	10				
CHUR	83.02	358.4	12	27K	1	22	45	1				
BRISBANE	83.30	210.1	12	26K	-2							
CAMPULUNG	83.37	347.4	12	32	4							
TIMISOARA	83.37	350.1	12	32	4	23	5	18				
QUETTA	83.89	311.2	12	30	-1	22	52	0	15	39	PP	
PORT BLAIR	83.91	280.8	12	32	1				17	3		
GORIS	84.02	330.6	12	32	1				23	3	SCS	
BUCHAREST	84.05	346.5	12	32K	0	23	8	14	16	15	PP	
CLERMONT-FD.	84.06	2.8	12	34	2	23	4	10				
TRIESTE	84.08	355.4	12	31	-1	23	0	6	28	37	SS	
OROPA	84.27	359.4	12	33	0	23	30	34				
BELGRADE	84.38	350.5	12	35	2	23	4	7	16	14	PP	
PAVIA	84.70	358.6	12	36	1	23	9	9	13	58		
BALBOA HTS.	85.24	81.8	12	40	2	22	59	-7				
BOLOGNA	85.33	357.0	12	43	5	23	20	13				
PRATO	85.95	357.1	12	44	3	23	17	4				
FLORENCE X.	86.05	357.0	12	41K	-1	23	23	9	16	8	PP	
SOFIA	86.13	348.1	12	42	0	23	29	15	16	30	PP	
MONACO	86.17	359.8	12	42	0				12	45	PCP	
SAN JUAN	86.18	65.7	12	41	-1							
MEDAN	86.29	271.1	12	45K	2	23	9	-7				
GALERAZAMBA	86.54	77.4				23	5	-13				
ONERAHI	86.62	190.4	12	51	7							
ISTANBUL KA.	86.82	343.6	12	44	-1	23	26	5				
KARACHI	87.45	308.7	12	57K	9							
SERRA PILAR	87.72	11.8	12	49K	-1				16	15	PP	
ROME	87.88	356.0	12	49A	-1	23	38	7	16	20	PP	
HYDERABAD	88.08	295.2	12	56A	5	23	33	0	16	24	PP	
BARCELONA	88.37	3.8				23	47	11	18	47		
DJAKARTA	88.60	258.6							24	41	PS	
LEMBANG	88.61	257.6	12	52	-2							
KARAPIRO	88.62	189.2	12	55	1							
COIMBRA	88.66	11.9	12	53	-1	23	31	-7				
TARANTO	88.99	352.3	12	48	-8	23	48	7				
TOLEDO	89.48	8.6	12	57K	-1	24	1	15	16	36	PP	
RIVERVIEW	89.78	209.3	13	2A	3	23	45	-4				
POONA	89.82	299.4	12	59	-1	24	9	20	19	0	PPP	
TONGARIRO	89.89	189.0	12	57	-3							
LISBON	90.02	12.7	13	3K	2	24	2	11	16	37	PP	
BOMBAY	90.09	300.4	13	0	-1	24	6	15	16	40	PP	
ST. CLAUDE	90.60	63.8	13	5	2							
ATHENS	90.72	347.0	13	2A	-2							
CHINCHINA	90.79	81.3	13	9	5	24	5	7	23	31	SKS	
ALICANTE	91.29	6.0	13	5	-1	24	1	-1				
MESSINA	91.38	353.4	13	6	-1	23	54	-9	16	41	PP	
FUQUENE	91.60	79.5	13	8	0	24	36	31	24	10	SKKS	
FORT FRANCE	91.95	64.1							24	34		
BOGOTA	92.04	80.3	13	15	5	24	25	16	23	43	SKS	
GRANADA	92.19	8.6	13	11A	0	24	27	17	16	57	PP	
KSARA	92.30	336.4	13	13K	2	24	10	-1	17	0	PP	
MALAGA	92.57	9.3	13	11K	-1	24	18	5	16	50	PP	
ALMERIA	92.62	7.7	13	12	-1				16	55	PP	
ALGIERS UNI.	93.04	3.3	13	14	-1	24	15	-2	17	1	PP	

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RELIZANE	93.94	5.4	13 15	-4			17 3	PP
TRINIDAD	94.98	66.8	13 22	-1				
HELWAN	97.18	339.0	13 33	0			17 31	PP
HUANCAYO	103.96	92.0	14 12	8	24 41	-1	17 37	
TAMANRASSET	107.05	1.6	14 20	777	26 23	6	21 5	PPP
LA PAZ	111.89	89.6	18 43	8	25 21	5	19 25	PP
MBOUR	112.03	25.3					19 29	PP
SCOTT BASE	128.69	185.4	19 8	1				
WILKES	130.04	211.0					31 40	PS
BYRD STATION	133.71	168.8	19 3	-14			28 32	SKKS
SOUTH POLE	140.30	180.0	19 18	-11				
PRETORIA	150.48	319.0	19 47	1				
WINDHOEK	151.07	340.7	19 48	1				
PIETERMZBURG	152.80	311.3	19 49	0				
KIMBERLEY	154.52	321.8	19 53	1				
GRAHAMSTOWN	157.69	312.9	19 57	1			20 30	

MARCH 22 10.H 11.M 33.S EPICENTRE 23.53 93.80 DEPTH= 51.KM

DEPTH OF FOCUS= 0.003R

A=-0.06075 B= 0.91583 C= 0.39695 D= 0.9978 E= 0.0662
G=-0.0263 H= 0.3961 K=-0.9178 HT= 3.8

SE= 2.47

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S	
CHITTAGONG	2.16	237.8	0 37A	2					
SHILLONG	2.68	319.6	0 43K	1	1 12	-2		1 6	
TOCKLAI	3.33	15.2	0 50	-1				1 8	
CALCUTTA	5.12	259.9	1 14	-2	2 7	-8			
LHASA	6.57	338.5	1 39K	3				2 20	
CHATRA	6.84	300.1	1 40	0	2 50	-8			
BOKARO	7.34	273.9	1 45K	-2	3 1	-9		1 49	PP
KUNMING	8.25	77.6	2 5A	5	3 41	9		2 19	*SP
VIZIANAGRAM	11.07	242.8	2 50	12				4 42	
PORT BLAIR	11.84	185.1	2 46	-3	4 55	-5		8 32	PCP
PHU-LIEN	12.20	100.4	2 54	0	6 18	69			
AGRA	14.71	287.4	3 20A	-6	5 50	-19		3 28	PP
SINING	14.75	26.0	3 28	1					
TIENSHUI	15.17	40.8	3 34	2	6 30	11		4 16	
LANCHOW	15.22	32.5	3 32A	-1	6 19	-2		3 55	*SP
DEHRA DUN	15.58	299.1	3 39	1	6 17	-12		3 49	PP
HYDERABAD	15.60	250.0	3 34A	-4				6 41	
WUWEI	16.23	25.8	3 36	-10	6 45	1			
MADRAS	16.62	233.3	3 44K	-7	6 36	-17		3 58	PP
YUMEN	16.94	8.5	3 54	-1	7 7	7			
SIAN	16.99	47.7			7 8	6			
CANTON	17.91	87.6	4 8A	1	7 25	3		4 31	*SP
NHATRANG	18.47	124.9	5 15	61	8 43	68			
HONG KONG	18.81	89.7	4 16A	-2	7 47	5		5 50	
LAHORE	19.00	299.1	4 18	-2	7 33	-14			
POONA	19.27	258.8	4 23A	0	7 43	-9		4 39	PP
BOMBAY	20.08	260.7	4 31	-1	8 17	7		4 48	PP
MEDAN	20.39	165.9	4 38A	3	8 16	1			
KODAIKANAL	20.44	232.4	4 38A	2	8 22	6			
TAIYUAN	21.47	44.2	4 44	-2	8 44	8			
PAOTOW	21.81	35.0	4 49	0					
WARSAK DAM	22.07	303.2	4 55	3					
TATUNG	23.31	40.3	5 5	1					
NANKING	23.65	63.5	5 7A	0	9 15	0		5 39	PP
TAINAN	24.27	86.0	6 9	56					
TAICHUNG	24.59	83.1	5 19	2					
QUETTA	24.81	291.3	5 20A	1	9 32	-3			
HENGCHUN	24.89	88.2	5 27	8					
TAWU	24.98	87.3	5 23	3					
FRUNSE	25.01	325.1	5 23	2	9 39	1			
PEKING	25.04	43.7	5 21A	0	9 38	-1		6 2	PP
TAITUNG	25.15	86.3	5 23	1					
TAIPEI	25.30	80.9	5 34	11					
HSINKONG	25.31	85.4	5 23	0					
ZO-SE	25.43	66.8	5 23A	-2	9 39	-6		5 43	*SP
HWALIEN	25.46	83.4	5 32	7					
ILAN	25.52	81.5	5 28	3					
BAGUIO CITY	26.12	100.8	5 29	-2	10 12	15			
ULAN-BATOR	26.49	20.0	5 37	3	10 6	3			

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BAIREN	28.17	50.5	5 48	-2					
SEMIPALATNSK	28.83	341.9	5 56	0					
IRKUTSK	29.81	13.1	6 5	1					
DJAKARTA	32.15	155.1	6 27	2	11 43	10			
CHANGCHUN	32.84	44.2	6 30	-1	11 40	-3		12 25	
NAGASAKI	32.99	65.8	6 30	-2	11 37	-9			
LEMBANG	33.06	154.2	6 43	10	11 53	6			
BANDUNG	33.14	154.3	6 48	14	11 48	0			
SU'HWA	35.21	40.9	6 48	-3					
VLADIVOSTOK	36.95	48.7	7 3	-3	12 42	-5			
KYOTO	38.08	62.8	7 13A	-2	12 58	-6			
MATUSIRO	40.25	60.7	7 31A	-2	13 33	-4		9 10	PP
SVERDLOVSK	41.07	332.8	7 42	2					
SHEMAKHA	41.41	305.3	7 46	3	13 56	2			
TUKUBASAN	41.73	61.4	7 41A	-5	13 47	-12	7 50	9 41	PCP
KOROR	42.21	105.7	7 48	-2	14 5	-1		9 30	PP
SENDAI	42.56	58.5	7 51	-1	14 5	-6			
GORIS	42.98	303.3	7 59	3	14 21	4			
TIFLIS	44.44	306.2	8 10	2	14 36	-2			
Y.-SAKHLINSK	45.39	46.5	8 15	0	14 50	-2			
SOTCHI	48.39	308.1	8 39	0	15 33	-1			
GUAM	49.13	92.3	8 42	-3					
KSARA	51.26	295.3	9 4	3				11 2	PP
MOSCOW	51.94	323.4	9 4	-2	16 21	-3			
JERUSALEM	52.00	292.8	9 7	1				9 25	
IIKSI	52.07	13.4	9 5	-2	16 22	-3			
SIMFEROPOL	52.51	309.4	9 11	1	16 32	1			
MAGADAN	53.40	32.1	9 15	-2	16 40	-4			
HELWAN	55.58	291.0	9 33	0	17 12	-1			
ISTANBUL KA.	56.21	304.6	9 36	-1	17 20	-1			
PETROPAVLOVK	56.51	40.8	9 37	-2					
PULKOVO	56.65	327.2	9 40	0	17 25	-2			
IASI	57.13	312.0						19 43	
APATITY	57.26	336.6	9 44	-1					
BUCHAREST	58.23	308.8			17 51	3		18 27	
LWOW	59.47	315.1	9 59	-1	18 1	-3			
SODANKYLA	59.74	335.6	10 2	0					
SOFIA	60.37	306.9	10 9	3				12 50	
ATHENS	60.63	301.5	10 10	2				10 33	
WARSAW	61.30	318.0	10 13	0	18 33	6		25 16	SSS
TANANARIVE	61.77	230.9	10 16K	0					
KRAKOW	62.10	315.5	10 18	0	18 45	8		12 36	PP
KIRUNA	62.16	335.7	10 18K	0	18 38	0		14 29	
UPPSALA	63.03	326.6	10 23K	-1	18 49	0			
RABAUL	63.18	107.9	10 25A	0				10 59	
RACIBORZ	63.21	315.7	10 25	0					
SKALSTUGAN	65.44	330.9	10 39K	-1					
PRAGUE	65.63	315.9	10 43	2	19 52	31		13 18	PP
COPENHAGEN	66.09	322.2	10 44	0	19 30	3		23 39	SS
COLLMBERG	66.35	317.4	10 45	-1					
TRIESTE	66.78	311.3	10 42	-6	19 27	-8		13 14	PP
HALLE	66.97	317.8	10 49	0	19 36	-1		13 17	PP
CHARTERS TS.	66.99	125.9	10 49A	-1	19 36	-2			
PLAUEN	67.01	316.7	10 48	-2					
RUMANGABO	67.27	258.0	10 53	2				11 14	
JENA	67.29	317.2	10 50	-1	19 38	-3		13 21	PP
ASTRIDA	67.47	256.6	10 52	-1				12 47	
LWIRO	68.15	257.3	10 57	0	19 47	-5			
UVIRA	68.41	256.0	10 58A	0				11 16	
FLORENCE X.	68.90	309.7	11 0A	-1	19 59	-1		13 20	PP
STUTTGART	69.22	315.2	11 3K	0	20 7	3		24 39	SS
CHUR	69.41	313.2	11 4K	-1					
ERINGEN	69.49	314.6	11 3	-2					
MUNSTER	69.53	318.8	11 4	-1					
NORD	69.79	351.6	11 6K	-1	20 7	-4		20 44	
WITTEVEEN	69.91	319.8	11 8	0					
STRASBOURG	70.18	315.2	11 9K	0				28 21	SSS
BASLE	70.55	314.2	11 7	-5					
NEUCHATEL	71.10	313.7	11 11	-4					
PARIS	73.50	316.4	11 29	0				14 17	PP
GARCHY	73.57	314.8	11 29	0				11 38	
ABERDEEN	73.65	325.6	12 7	37				29 27	
CLERMONT-FD.	73.98	313.3	11 53A	21	21 38	39			
DURHAM	74.12	323.1	11 53A	20				12 4	PCP
KEW	74.42	319.6	11 35	1	21 3	-1		21 37	PS
SCORESBY SD.	76.12	341.8	11 44	0	21 24	1		26 18	SS
BRISBANE	76.41	128.2	11 45A	-1	21 25	-1			
ALGIERS UNI.	76.88	304.5	11 50	2	21 54	23		12 0	PCP

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RATHFARNHAM	77.22	322.7	11	46	-4	21	36	1					
MELBOURNE	77.69	140.8	11	53A	0	21	38	-2					
RIVERVIEW	78.92	134.4	12	OK	0	21	54	1					
ALICANTE	78.96	307.0	12	7	7	22	12	19			17	4	PPP
RELIZANE	79.13	304.2	12	0	-1						14	56	PP
THULE	79.67	355.8	12	3	-1	21	57	-4					
TAMANRASSET	79.73	290.4	12	7	3	22	5	4			15	6	PP
COLLEGE	80.06	22.4	12	6	0	22	3	-2			15	7	PP
PRETORIA	80.20	236.5	11	57	-10								
TOLEDO	80.96	309.5	12	8	-3						12	32	
ALMERIA	80.99	306.2	12	15	4						15	21	PP
GRANADA	81.69	306.8	12	43A	29	23	1	39					
RESOLUTE	81.87	2.3	12	15A	0	22	22	-1			15	40	PP
SERRA PILAR	83.61	312.1	12	28K	4								
NOUMEA	84.05	117.3	12	24	-2						13	59	
KIMBERLEY	84.34	235.5	12	31	3								
LISBON	85.04	310.1	12	35A	4								
GRAHAMSTOWN	85.38	230.8	12	34	1								
WINDHOEK	87.49	244.2	12	50	7								
OASIS-BUNG.	89.57	177.2	12	51	-2				13	14			
SITKA	89.76	24.4	12	55	1								
MIRNY	89.80	180.3				23	12	-28			29	40	SS
WILKES	90.36	173.3				22	59	-46			29	57	SS
HUNGRY HORSE	104.23	18.7	14	0	0						18	8	PP
BUTTE	106.76	18.9	17	56	777						18	31	PP
BOZEMAN	107.52	18.0									18	31	PP
MINERAL	108.41	27.8	17	20	777								
RENO	109.84	27.1									18	51	PP
OTTAWA	110.74	352.1	18	42	15								
RAPID CITY	110.94	13.0	18	29	2						21	35	PPP
EUREKA	111.42	24.4	14	40	-228						19	14	PP
SALT LAKE C.	111.73	20.7	18	32	3								
SOUTH POLE	113.39	180.0	18	32	0	25	6	-7			14	47	P
BOULDER	114.31	16.0	18	36	2								
PALISADES	114.78	349.8									19	46	PP
BOULDER CITY	114.92	25.4	18	37	2						19	26	
TUCSON	119.75	24.0	18	50	5						20	5	PP
HALLEY BAY	120.07	194.5	18	45	0						20	11	PP
BYRD STATION	121.65	173.5	18	49	1								
SAN JUAN	133.96	333.1	19	55	43						22	39	PP
BOGOTA	149.62	335.5	19	47	8						20	18	
CHINCHINA	149.85	338.6	19	45	5						20	10	
LA PAZ	161.64	289.1	19	59	4						24	47	PP
HUANCAYO	164.60	316.0	20	5	7						25	11	PP

MARCH 22 11.H 7.M 47.S EPICENTRE 35.30 67.40 DEPTH= 0.KM

A= 0.31431 B= 0.75518 C= 0.57525 D= 0.9232 E=-0.3843
G= 0.2210 H= 0.5311 K=-0.8180 HT= 0.0

SE= 2.32

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
KULYAB	3.22	35.7	0	54A	1						1	44	SG
WARSAK DAM	3.66	109.6	0	58K	-1								
KHOROG	4.03	56.0	1	7	3						1	58	
BAIRAM-ALI	4.84	299.9	1	15	-1	2	11	-1					
QUETTA	5.12	184.4	1	19	-1	2	48	28					
FERGANA	6.14	33.0	1	33A	-1						3	21	SG
TASHKENT	6.19	13.2	1	34	-1	2	46	-1					
NAMANGAN	6.59	29.4	1	39	-1								
ANDIJAN	6.71	34.3	1	41A	-1	2	57	-3			2	28	
LAHORE	6.89	120.9	1	42	-3						2	12	PG
ASHKABAD	7.74	292.6	1	58	2						2	29	
NARYN	9.11	45.2	2	13	-2						4	54	
FRUNSE	9.40	34.2	2	17A	-2	4	3	-4			5	19	
KIZYL-ARVAT	9.63	296.0	2	19	-4						3	5	
RYBACHE	9.83	40.8	2	26	1	4	13	-5			5	1	
DEHRA DUN	10.24	116.0	2	29	-2	4	26	-2			4	38	SS
FABRICHNAYA	10.51	38.8	2	33	-2								
ALMATA	10.86	40.0	2	39	-1	4	33	-10			5	22	
PRZHEVALSK	11.17	46.8	2	42	-2	4	46	-5					
KURMENTY	11.45	44.2	2	44	-4								
AGRA	12.19	129.0	3	0	2	5	4	-12			3	21	PPP
BOMBAY	17.03	162.2	4	1	0	7	24	14			7	44	SS

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MAKHACH-KALA	17.21	302.4	4	5	2					
GORIS	17.25	290.3	4	2	-2				7	28
KIROVOBAD	17.42	294.4	4	3	-3					
POONA	17.66	159.4	4	9A	0	7	29	5	4	18 PP
SFHIPALATNSK	17.75	27.8	4	6	-4				7	30
TIFLIS	18.79	296.7	4	22	-1				8	19 SS
CHATRA	18.90	111.1	4	21	-3				8	5
BOKARO	19.63	120.6	4	31	-2	8	0	-9	4	51 PP
HYDERABAD	20.34	148.2	4	41	1	8	26	2		
LHASA	20.71	99.2	4	43K	-1	8	22	-9		
SVERDLOVSK	22.02	350.0	4	55	-2					
CALCUTTA	22.26	119.3	5	3	3	9	8	7		
SHILLONG	23.17	108.0	5	8K	-1	9	16	-1		
TOCKLAI	24.89	102.4	5	13	-13					
CHITTAGONG	24.90	114.6	5	26A	0	9	47	0	6	3 PP
MADRAS	25.03	149.4	5	25	-2	9	46	-3	6	2 PP
KSARA	25.95	275.9	5	33	-2	10	12	7	6	28 PPP
SIMFEROPOL	27.05	301.0	5	47K	1				6	37 PP
MOSCOW	28.84	324.4	6	2	0	10	54	3		
LANCHOW	29.48	77.7	6	11	3	11	6	4		
ISTANBUL KA.	30.50	292.5	6	16	-1	11	13	-5		
HELWAN	30.76	270.2	6	20	1				7	25 PP
IRKUTSK	31.16	45.5	6	22	-1				7	22 PP
ULAN-BATOR	31.76	54.4	6	32	4	11	55	17		
IASI	31.89	304.2	6	37	8					
KYAKHTA	31.94	49.7	6	31	2					
KUNMING	32.02	98.8	6	30	0	11	38	-4		
KABANSK	32.47	46.7	6	36	2	11	43	-6		
BUCHAREST	32.69	298.9							14	37
PORT BLAIR	32.87	129.5	6	40	3	11	55	0	9	27 PCP
LWOW	34.58	308.4	6	53	1				17	9 SCS
ATHENS	34.92	287.5	6	56A	1					
WARSAW	36.81	312.0	7	15	4	12	57	1	8	33 PP
HELSINKI	36.87	325.8	7	13	1					
KRAKOW	37.23	308.3	7	15	0	13	7	5	9	1 PPP
APATITY	37.66	339.4	7	18	0					
RACIBORZ	38.35	308.2	7	24	0				16	18
PEKING	38.51	68.0	7	28	3	13	15	-7		
BRATISLAVA	39.00	305.1	7	31	1					
UPPSALA	40.25	323.4	7	40	0	13	49	1	9	6 PP
PRUHONICE	40.69	307.9	7	43	-1	13	57	2	9	22 PP
PRAGUE	40.77	308.0	7	47	3				14	38
TRIESTE	41.40	301.3	7	40	-9				9	32 PP
CANTON	41.53	94.3	7	54	4	14	8	1		
POTSDAM	41.68	311.5	7	52	0					
COLLMBERG	41.70	309.9	7	28	-24					
KIRUNA	41.92	335.5	7	55	1	14	17	4	9	23 PP
PLAUEN	42.23	308.7	7	56	0				9	41
COPENHAGEN	42.26	316.4	7	59	3	14	22	4	17	45 SS
HALLE	42.36	310.2	7	58	1				9	39 PP
NANKING	42.51	79.2	8	0	2	14	27	6		
JENA	42.59	309.3	8	0	1	14	31	8	9	38 PP
SKALSTUGAN	43.64	327.9	8	9	1				9	49 PP
NHATRANG	44.19	110.8	8	13	1				10	47
STUTTGART	44.23	306.3	8	13	1	14	57	10	18	5 SS
MUNSTER	45.04	310.9	8	21	2					
BASLE	45.44	304.7	8	33	11					
WITTEVEEN	45.58	312.2	8	23	0					
NEUCHATEL	45.93	304.0	8	26	0					
TIKSI	47.98	22.0	8	39	-3				18	19 SCS
GARCHY	48.51	305.0	8	47	1					
PARIS	48.63	307.1	8	50	3				10	47 PP
CLERMONT-FD.	48.75	303.0	9	3	15					
VLADIVOSTOK	49.48	60.4	8	53	-1					
KEW	50.00	310.9	8	59	1				19	49 SS
DURHAM	50.30	315.3	8	59	-1					
BAGUIO CITY	50.79	97.5	9	7	3					
NAGASAKI	51.09	73.9							17	21
ASTRIDA	51.62	231.2	9	9	-1					
LWIRO	51.95	232.3	9	8A	-5				31	39
KELIZANE	53.41	291.3	9	22	-1					
NORD	54.45	349.6	9	30	-1					
TAMANRASSET	54.74	274.5	9	32	-1	17	12	-1	11	38 PP
KYOTO	54.79	69.0	9	21A	-13	17	13	-1		
ALMERIA	55.30	293.6	9	38	1					
TOLEDO	55.42	297.6	9	36	-2				11	27 PP
Y.-SAKHLINSK	55.87	53.2							17	27 PS
GRANADA	56.03	294.4	9	59	16					

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MATUSIRO	56.12	66.4	9 40A	-3	17 24	-8	10 45 PCP
SCORESBY SD.	56.98	336.4	9 51	2	17 47	4	
MAGADAN	57.12	37.0	9 51	1			17 49 PS
TANANARIVE	57.12	202.5	9 49A	-1			
SENDAI	57.47	63.5	9 57	4			10 58 PCP
TUKUBASAN	57.65	66.1	9 51	-3			
SERRA PILAR	58.24	300.4	9 54K	-4			
LISBON	59.53	298.0	10 12K	5			
THULE	65.13	349.5	10 43	-2			
KOROR	67.11	97.4	10 59	2			
RESOLUTE	69.67	355.1	11 12A	-1	20 27	5	24 57 SS
PIETERMZBURG	73.38	213.2	11 34	-1			
COLLEGE	76.42	14.7	11 51	-2			12 51
MBOUR	77.31	278.7	11 58	0			
GRAHAMSTOWN	78.25	214.0	11 51	-12			
CHARTERS TS.	92.70	112.5	13 14	-1			
HUNGRY HORSE	96.72	1.0	13 36	3			17 39
EUREKA	105.53	2.7	16 45	777			
SOUTH POLE	125.12	180.0	19 10	8			
BYRD STATION	135.08	178.3	19 24	3			

MARCH 23 10.H 14.M 46.S EPICENTRE 18.38 120.09 DEPTH= 0.KM

A=-0.47609 B= 0.82164 C= 0.31344 D= 0.8652 E= 0.5014
G=-0.1571 H= 0.2712 K=-0.9496 HT= 5.1

SE= 3.45

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
BAGUIO CITY	2.01	166.4	0 34	0				1 0 S*
HENGCHUN	3.65	9.7	0 55	-2	1 36	-5		
MANILA	3.88	167.1	1 0	-1	1 59	12		
LAWU	4.02	10.8	1 1	-2	1 44	-7		
TAITUNG	4.46	12.7	1 8	-1	1 43	-18		
TAINAN	4.60	1.5	2 13	62	3 1	56		
HSINKONG	4.84	14.1	1 11	-3	2 5	-6		
ALISHAN	5.15	7.3	1 17	-2				
HWALIEN	5.74	14.1	1 31	4				
TAICHUNG	5.77	5.4	1 21	-6				
ILAN	6.54	13.4	1 39	1				
TAIPEI	6.75	11.1	1 48	7	2 53	-6		
HONG KONG	6.78	306.0	1 33K	-9	2 28	-32		
CANTON	7.90	307.4	1 51	-6	3 21	-7		2 1 PP
ZO-SE	12.70	4.3	2 59	-4				
PHU-LIEN	12.91	282.9	3 5	-1				3 52
NANKING	13.66	355.4	3 13K	-3	5 44	-4		
KAGOSIMA	16.18	33.8	3 52	3	7 1	13		
NAGASAKI	16.78	29.8	4 5	9				
KUMAMOTO	17.25	31.5	4 0	-2				
SAGA	17.41	29.8	4 6	2	7 31	15		
KUNMING	17.48	295.3	4 5A	0				
KOROR	17.80	126.3	4 5	-4	7 11	-14		
OOITA	18.04	32.7	4 22	10				8 28
SIAN	18.68	329.9	4 22	2				
KOTI	19.31	35.9	4 25	-2	8 4	5		
TOKUSIMA	20.29	36.8	4 37	-1				
SUMOTO	20.66	36.8	4 41	-1	8 37	10		
OSAKA	21.25	37.3	4 50	2	8 40	1		6 1
TOYOOKA	21.50	34.5	4 50	0	8 49	6		
KYOTO	21.63	36.9	4 48K	-4	8 46	0		
PEKING	21.84	351.9	4 53K	-1				
KAMEYAMA	21.94	38.4	4 55	0	8 58	7		
HIKONE	22.10	37.2	4 58	2	9 0	5		
IBUKISAN	22.26	37.2	5 0	2				
TSURUGA	22.27	36.3	4 59	1				
TATUNG	22.43	346.2	5 3	3				
NAGOYA	22.45	38.5	5 1	1	9 8	7		
GIHU	22.50	37.8	5 1	1	9 4	2		
HUKUI	22.67	35.9	5 3	1				
LANCHOW	22.75	324.1	5 2	-1	9 9	3		
SHIZUOKA	23.19	40.9	5 7	0				
IIDA	23.20	39.1	5 8	1	9 22	8		
MISIMA	23.63	41.4	5 23	12				
TOYAMA	23.66	36.1	4 38	-34				
KOHU	23.72	39.9	5 24	12	9 34	10		

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PAOTOW	23.76	340.7	5	13	0					
HUNATU	23.76	40.4	5	22	9					
MATUMOTO	23.79	38.0	5	26	13	9	35	10		
WAZIMA	23.99	34.5	5	11	-4	9	35	7		
MATUSIRO	24.14	37.8	5	13	-3	9	25	-6	8	58 PCP
OIWAKE	24.18	38.6	5	33	16					
GUAM	24.20	98.0	5	15	-2					
NAGANO	24.21	37.5	5	16	-1	9	28	-4		
TITIBU	24.27	40.0	5	17	-1					
TOCKLAI	24.79	294.2	5	37	14					
TUKUBASAN	25.05	40.8	5	22K	-3	9	50	4	5 32	
UTUNOMIYA	25.12	39.9	5	24	-2	9	45	-2	7	55
MEDAN	25.60	237.5	5	31	1	10	0	5		
CHANGCHUN	25.75	8.7	5	29	-3					
VLADIVOSTOK	26.61	19.5	5	38	-2	10	13	1		
CHITTAGONG	26.78	283.3	5	42K	1	10	24	9		
SHILLONG	27.09	290.3	5	41K	-3	10	23	3		
PORT BLAIR	27.24	259.7	5	53	8	10	20	-2		
DJAKARTA	27.69	209.4	6	10	20				11	26
BANDUNG	27.97	207.1	6	5	12	10	29	-6		
LHASA	28.73	298.4	6	0	1					
CALCUTTA	30.00	283.3	6	28	18				15	2
ULAN-BATOR	31.37	342.9	6	21	-1	11	34	6		
CHATRA	31.46	291.5	6	21	-2					
TRUK	32.74	105.2	6	32	-2					
IRKUTSK	36.01	343.5	7	1	-2	12	41	1		
PORT MORESBY	38.41	133.7	7	32	9	13	29	12	9	4 PP
RABAUL	38.77	122.2	7	26	0					
AGRA	39.61	290.5	7	32	-1	13	42	7	9	6 PP
DEHRA DUN	39.89	295.5	7	43	8	13	50	11		
LAHORE	43.21	296.7	8	0	-2					
POONA	43.77	277.8	8	7	0	14	34	-2	10	23 PPP
BOMBAY	44.69	278.5	8	18	4	15	3	13	10	10 PP
SEMIPALATNSK	44.97	324.5	8	14	-2	14	52	-2		
PETROPAVLOVK	45.77	31.6	8	21	-2				17	42 SS
WARSAK DAM	45.83	299.8	8	24	1					
CHARTERS TS.	45.99	144.8	8	20	-4				9	9
MAGADAN	46.72	20.9	8	28	-2	15	17	-2		
NAMANGAN	47.01	309.3	8	34	2	15	25	2		
QUETTA	49.46	294.3	8	50	-2	15	59	2	10	47 PP
TIKSI	53.50	3.5	9	19	-3	16	47	-6		
BRISBANE	55.66	144.2	9	34	-4	17	18	-4		
SVERDLOVSK	58.19	326.1	9	55	-1	17	55	0		
MELBOURNE	60.61	157.5	10	11A	-2					
NOUMEA	60.75	129.8	10	10	-3					
FORT NELSON	65.97	158.4	10	49A	1					
TIFLIS	67.15	308.2	11	4	9	20	5	17		
SOTCHI	70.69	310.6	11	21	4					
MOSCOW	70.79	323.6	11	20	2					
APATITY	71.90	336.2	11	23	-1					
PULKOVO	74.20	328.3	11	48	10	21	25	15		
COLLEGE	74.42	26.3	11	37	-2					
SIMFEROPOL	74.45	312.7	11	44	5					
SODANKYLA	74.52	336.4	11	39	-1					
HONOLULU	76.15	71.9	11	57	8					
KIPAPA	76.19	71.8	12	59	70					
KIRUNA	76.73	337.4	11	51	-1	21	33	-5		
HELSINKI	76.76	329.2	11	49	-4					
NORD	77.98	354.1	11	57	-2				14	52 PP
TANANARIVE	80.29	246.4	12	13	1					
UPPSALA	80.38	330.0	12	10	-2					
SKALSTUGAN	81.35	334.5	12	18	1					
SITKA	82.43	32.2	12	24	1					
KRAKOW	82.44	320.2	12	20	-3				13	32
RESOLUTE	84.53	8.8	12	31K	-3	28	22	323	34	14 SS
THULE	85.26	2.0	12	35	-2				15	49 PP
PRUHONICE	85.69	321.4	12	39	-1				15	54 PP
PRAGUE	85.73	321.5	12	43	3				13	26
HALLE	86.57	323.5	12	43	-1					
PLAUEN	86.88	322.5	12	42	-3					
JENA	87.02	323.1	12	41	-5					
TRIESTE	87.94	317.7	12	55	5				23	47
STUTTGART	89.37	321.8	12	50	-7					
ALBERNI	91.54	36.4	13	14	7					
HORSESHOE B.	92.35	35.8	13	13	2					
VICTORIA	92.72	36.6	13	14	1					
PARIS	93.19	324.1	13	26	11				17	20 PP
BANFF	95.39	31.5	13	23	-2					
SHASTA	97.47	42.8	13	44	10					

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HUNGRY HORSE	97.92	33.1	13 38	2		17 45 PP
MINERAL	98.17	42.8	13 37	-1		
ALGIERS UNI.	99.20	313.6			24 37 -32	24 14 SKS
RENO	99.76	42.8	13 57	12		
EUREKA	102.23	41.1	13 57	1		17 31
TAMANRASSET	104.11	300.1				18 29 PP
SOUTH POLE	108.27	180.0	14 32	777		18 10
BYRD STATION	113.11	170.6	18 40	3		
HALLEY BAY	120.20	189.2	18 48	-3		20 14 PP
ST. CLAUDE	145.76	3.1	19 46	8		
FORT FRANCE	147.08	2.2	19 41	1		
HUANCAYO	163.85	69.2	20 12	10		24 57 PP
LA PAZ	171.93	77.8	20 16	8		25 25 PP

MARCH 25 18.H 42.M 28.S EPICENTRE 18.10 -64.84 DEPTH= 0.KM

A= 0.40445 B=-0.86088 C= 0.30871 D=-0.9051 E=-0.4252
G= 0.1313 H=-0.2794 K=-0.9512 HT= 5.1
SE= 2.96

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
SAN JUAN	1.25	283.2	0 23	-2	0 35	-7		
ST. CLAUDE	3.64	123.9	1 0	1	1 33	-10		
CIUD. TRUJL.	4.84	275.0	1 21	5	2 16	2		
FORT FRANCE	4.87	132.9	1 17	1	2 13	-1		
ST. VINCENT	5.98	144.5	1 29	-3				
BARBADOS	7.06	133.7	1 49	2				
PORT-PRINCE	7.13	274.8	2 0	12				2 13
TRINIDAD	8.05	156.0	1 59	-2				
BERMUDA	14.22	0.5	3 16	-9	5 39	-25		
FUQUENE	15.26	215.8	3 40	2	6 34	5		
BOGOTA	16.15	215.1	3 49	-1	6 49	-1		
CHINCHINA	16.77	220.2	3 58	0				
COLUMBIA	21.46	320.7	4 52	0	8 49	3		
CHAPEL HILL	21.76	327.5	4 59	4				
WASHINGTON	23.31	335.3	5 10	0				
PALISADES	24.13	343.0	5 20	2	9 42	8		11 20
WESTON	24.83	348.5	5 30A	5				10 0
HARVARD	25.00	348.2	5 27	0	9 54	5		
MORGANTOWN	25.14	331.7	5 29A	1	10 19	28		
BREBEUF	28.29	346.9	6 2A	5				6 45
OTTAWA	28.70	343.9	6 1	0				
SHAWINIGAN	29.12	348.7	6 4	-1				
SEVEN FALLS	29.36	351.6	6 7	0				
FAYETTEVILLE	31.51	310.6	6 24	-2				7 32
HUANCAYO	31.69	199.8	6 28	1	11 34	-3		7 48 PPP
LUBBOCK	36.49	302.3	7 7	-2				
RAPID CITY	41.28	317.3	7 46	-3				9 42 PCP
TUCSON	43.63	297.9	8 7	-1				8 38
SALT LAKE C.	46.10	309.6	8 27	-1				
BOZEMAN	47.03	316.2	8 35	0				
BOULDER CITY	47.43	302.5	8 38	0				9 44 PCP
BUTTE	48.15	316.2	8 47	3				
EUREKA	48.90	306.9	8 49	0				
HUNGRY HORSE	49.86	318.7	8 55	-2				10 57 PP
PASADENA	49.94	299.6	8 56	-2				
FRESNO	51.50	302.9	9 7	-2				
LICK	53.02	303.4	9 19A	-2				
MINERAL	53.31	307.1	9 20A	-3				
SHASTA	53.95	307.5	9 23	-5				
CORVALLIS	55.15	312.1	9 41	5				
VICTORIA	55.93	316.8	9 40	-2				
THULE	58.38	359.0	9 58	-1				
RESOLUTE	58.90	351.1	10 OK	-3	18 20	12		10 50 PCP
PARIS	61.70	43.8	10 14	-8	18 36	-8		
TAMANRASSET	65.55	72.7	10 47	0				11 46
STUTTGART	66.14	44.1	10 59	8				
NORD	66.51	6.9	10 52	-2				
SKALSTUGAN	68.22	28.0	11 12	8				
PRUHONICE	69.58	42.6	11 12	-1				11 30 PCP
UPPSALA	70.76	32.0	11 25	5				
COLLEGE	70.81	333.3	11 18	-2				
KIRUNA	71.61	23.5	11 24	-1				
MELBOURNE	147.36	226.9	19 46	3				

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PORT MORESBY 147.80 281.3 19 46 2

MARCH 25 22.H 33.M 48.S EPICENTRE 3.01 67.01 DEPTH= 0.KM

A= 0.39008 B= 0.91930 C= 0.05215 D= 0.9206 E=-0.3906
G= 0.0204 H= 0.0480 K=-0.9986 HT= 7.1

SE= 2.69

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KODAIKANAL	12.62	54.9	3 8	4				6 38
MADRAS	16.38	52.0	3 52	-1	7 13	18		4 14 PPP
BOMBAY	16.79	19.4	3 57	-1	7 19	14		7 42 SS
POONA	16.82	23.0	3 55	-4	7 20	14		4 11 PP
HYDERABAD	18.21	37.3	4 12	-4	7 39	2		8 4 SS
AGRA	26.20	22.7	5 41A	3	10 11	2		
QUETTA	27.02	359.9	5 47	1	10 28	5		
BOKARO	27.54	39.6	5 55	4	10 47	16		
HOWRAH	28.36	45.0	5 59	1	11 16	32		
CALCUTTA	28.37	45.1	6 21	23				9 58
DEHRA DUN	29.11	19.9	6 33	28				10 58
LAHORE	29.22	12.9	6 6	0				
CHITTAGONG	30.81	49.3						7 15 PP
WARSAK DAM	31.12	7.3	6 25	2				
SHILLONG	32.78	44.5	6 33K	-4				
NAMANGAN	38.03	5.7	7 25	3	13 12	-3		
LEMBANG	41.70	103.7	7 55	3				
KSARA	42.22	320.2	7 53	-4	14 19	1		9 35 PP
HELWAN	43.08	312.1	8 5	1				9 57
TIFLIS	43.39	335.7	8 7	1				
MAKHACH-KALA	43.42	339.1	8 12	6	14 42	7		
SIMFEROPOL	50.79	330.2	9 4	0	16 21	1		
ULAN-BATOR	56.36	31.2	9 42	-4				
MOSCOW	57.64	340.8	9 56	1				
TAMANRASSET	62.61	294.0	10 29	0				
PULKOVO	63.24	340.2			19 0	-4		
PRUHONICE	64.36	325.4						13 4 PP
UPPSALA	68.08	335.6	11 2	-2				
PARIS	71.15	320.9	11 24	1	20 59	20		
KIRUNA	72.01	343.2	11 25	-3				21 31 SCS
TIKSI	78.53	16.6	12 5	0	21 58	-3		
CHARTERS TS.	80.94	110.7	12 16	-2				
NORD	86.11	351.6	12 44	0				
RESOLUTE	101.66	355.2	13 52	-4	24 37	-58		32 32 SS
HUNGRY HORSE	128.84	0.9	19 10	0				21 13 PP
RAPID CITY	132.31	350.5	19 17	0				
EUREKA	137.63	3.4	19 25	-2				
BOULDER CITY	141.18	2.4	19 22	-11				
TUCSON	144.87	356.8	19 40	1				23 2 PP

MARCH 26 0.H 25.M 55.S EPICENTRE 10.26 125.60 DEPTH= 121.KM

DEPTH OF FOCUS= 0.014R

A=-0.57298 B= 0.80025 C= 0.17691 D= 0.8131 E= 0.5822
G=-0.1030 H= 0.1438 K=-0.9842 HT= 6.5

SE= 1.90

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
MANILA	6.23	314.0	1 31	1	2 43	2		
NHATRANG	16.20	278.5	4 49	68				5 9 PPP
CANTON	17.36	318.8	3 57K	2	7 11	7		4 28 *SP
GUAM	19.01	78.4	4 14	0				
NANKING	22.58	344.8	4 53	3	8 52	7	5 17	5 24 *SP
LEMBANG	24.67	227.3	5 11	1	9 39	19		
DJAKARTA	24.82	229.7	5 7	-5				10 21
TRUK	26.08	93.9	5 21	-2				
MATUSIRO	28.56	21.6	5 44A	-2	10 31	7	6 6	8 56 PCP
PORT MORESBY	29.00	131.6	5 50	0				6 57
RABAUL	30.11	117.2	7 23	83				
CHITTAGONG	34.49	294.6	6 39K	1	12 0	4	7 13	8 2 PP
SHILLONG	35.39	300.0	6 42K	-3				

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CHARTERS TS.	36.31	145.9	6	54K	1				7	16		
LHASA	37.56	305.9	7	5K	1	12	47	4				
CHATRA	39.79	299.8	7	20	-2							
ULAN-BATOR	40.71	340.7	7	28	-2	13	29	-2				
BRISBANE	45.98	145.3	8	13A	1							
POONA	50.66	285.5	8	50	2							
MELBOURNE	51.16	160.3	8	54A	2							
LAHORE	51.84	302.1	8	56K	-1							
MAGADAN	52.71	15.8	9	5	1							
WARSAK DAM	54.66	304.5	9	18K	0							
QUETTA	57.87	299.2	9	41K	0	17	28	-1	10	10	11	52 PP
TIKSI	61.36	1.2	9	43	-22							
SVERDLOVSK	67.87	327.5	10	45	-2							
TIFLIS	76.40	310.5	11	38	1							
COLLEGE	79.34	25.7	11	54	1				12	19	14	40 PP
MOSCOW	80.47	325.0	11	59	0							
APATITY	81.43	337.2	12	5	1							
SIMFEROPOL	83.89	314.4	12	18	1							
KSARA	84.15	303.2	12	20	2							
KIRUNA	86.22	338.5	12	28	0				12	54		
SITKA	86.37	32.7	12	57	28							
HELSINKI	86.42	330.5	12	30	1							
NORD	86.53	354.8	12	30	0				12	54		
HELWAN	88.63	300.0	12	42	2						13	8
UPPSALA	90.03	331.3	12	46	-1							
SKALSTUGAN	90.92	335.7	12	50	-1							
RESOLUTE	91.63	9.9	12	54K	0	23	29	-12	13	20	29	39 SS
THULE	93.09	3.3	13	0	-1				13	26		
PRUHONICE	95.35	322.8	13	11	0				13	37		
SOUTH POLE	100.19	180.0	13	32	-1				13	58		
HUNGRY HORSE	101.54	36.0	14	6	27						17	51
PARIS	102.87	325.4	13	47	2						17	56 PP
GARCHY	103.35	323.8	13	49	2							
BYRD STATION	104.27	170.6	13	54	3							
EUREKA	104.51	44.7	17	24	212							
KATHFARNHAM	104.65	332.5	13	45	-8							
TUCSON	111.54	49.4									19	27 PP
TAMANRASSET	112.78	300.0	18	44	21							
SEVEN FALLS	121.03	13.0	18	39	1							
SHAWINIGAN	121.11	14.7	18	41	3							
BREBEUF	121.86	15.8	18	40	1							
HARVARD	125.19	15.5	18	49	3							
SAN JUAN	149.28	22.2	19	31	1						20	8
HUANCAYO	159.39	96.9	19	50	7						20	17 *SPKP

MARCH 28 4.H 9.M 36.S EPICENTRE 36.39 71.02 DEPTH= 232.KM

DEPTH OF FOCUS= 0.031R

A= 0.26244 B= 0.76307 C= 0.59064 D= 0.9456 E=-0.3252
G= 0.1921 H= 0.5585 K=-0.8069 HT= -0.4

SE= 1.89

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S
KHOROG	1.19	22.9	0	34	-1	0	59	-2				
KULYAB	1.81	327.1	0	39	-1	1	9	-1				
NUREK	2.42	326.7	0	45	-1	1	17	-4				
WARSAK DAM	2.42	169.5	0	44A	-2							
OBI-GARM	2.54	336.0	0	48	1	1	22	-1				
KARA-SU	2.65	322.8	0	48	0	1	22	-3				
GARM	2.67	347.9	0	48	0	1	23	-3				
STALINABAD	2.80	321.0	0	50	0	1	26	-2				
DZHERGETAL	2.83	3.1	0	51	1	1	28	-1				
ZIMCHURUD	2.96	324.1	0	52	1	1	29	-2				
MURGAB	3.05	48.6	0	53	1	1	33	0				
FERGANA	4.03	8.3	1	5	1	1	51	-2				
ANDIJAN	4.48	13.2	1	9	0	2	1	-2				
SAMARKAND	4.57	317.0	1	8	-2	1	58	-7				
NAMANGAN	4.61	6.1	1	13	2	2	6	0				
LUNACHARSKOE	5.11	345.6	1	18	1	2	14	-3				
TASHKENT	5.11	345.1	1	17	0	2	15	-2				
LAHORE	5.55	149.4	1	22	-1						2	17 SP
TCHIMKENT	6.01	349.9	1	29	1	2	31	-6				
NARYN	6.36	36.1	1	31	-2							

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▸RUNSE	7.04	21.9	1	41	-1	2	56	-5		2	4
QUETTA	7.07	210.0	1	42	0	2	59	-3		2	31 *SP
RYBACHE	7.21	31.3	1	45	1	3	1	-4			
▸AIRAM-ALI	7.23	282.3	1	44	0	3	2	-3			
FABRICHNAYA	7.95	29.7	1	52	-1						
ALMATA	8.25	31.7	1	57	0	3	17	-12		2	51
PRZHEVALSK	8.34	40.9	1	59	1	3	31	0			
ALMATA-2	8.43	33.4	2	0	1	3	16	-17			
DEHRA DUN	8.43	133.8	1	58	-1	3	29	-4			
KURMENTY	8.69	37.8	2	0	-3						
ILI	8.86	29.7	2	3	-2					2	20
CHILIK	9.15	36.1	2	13	4	3	51	2			
AGRA	10.98	145.2	2	28K	-4	4	24	-7		2	36 PP
KIZYL-ARVAT	11.98	287.2				4	51	-3			
SEMIPALATNSK	15.51	22.6	3	27	-1	6	11	-2		4	27
CHATRA	16.71	120.2	3	38	-4	6	45	6			
BAKU	17.03	289.9								6	59
BOMBAY	17.49	174.3	3	54	4	7	0	5			
BOKARO	17.86	130.4	3	55	1	7	10	7			
POONA	17.96	171.3	3	58	3	7	16	11		4	12 PP
LHASA	18.07	106.1	3	59	2	7	13	6			
MAKHACH-KALA	19.23	297.2	4	14	6	7	34	5		4	44
GORIS	19.70	286.5	4	10	-3					8	27 PCP
KIROVOBAD	19.74	290.2	4	14	1	7	49	11		5	18
HYDERABAD	20.00	158.8	4	17	1	7	47	4		4	38 PP
CALCUTTA	20.40	127.9	4	26	6	8	0	10			
SHILLONG	20.83	115.3	4	24	0	7	57	-1		5	31 *SP
TIFLIS	21.01	292.7								4	43
SVERDLOVSK	21.61	344.4	4	34	2					9	18 SS
TOCKLAI	22.35	108.7	4	37	-2						
CHITTAGONG	22.82	122.1	4	46	2	8	35	3	5 26	5	53 *SP
MADRAS	24.70	158.2	5	3	2	9	6	2		8	45 PP
SOTCHI	24.93	296.4				9	12	4		5	48
ULAN-BATOR	28.74	55.1	5	38	0	11	44	95			
SIMFEROPOL	29.06	298.6								6	28
KUNMING	29.34	103.7	5	43	0						
MOSCOW	29.75	321.1	5	47	0	10	23	-2	6 33	6	47 PP
JERUSALEM	29.90	271.7	5	45	-3						
ISTANBUL KA.	32.83	291.2	6	12	-2				7 0		
HELWAN	33.69	270.5	6	21	0					8	55
PULKOVO	35.02	324.9	6	32	0	11	46	0		7	51 PP
LWOW	36.25	306.8	6	42	0	12	12	7		14	36 SS
ATHENS	37.40	287.0	6	52A	0					7	42
HELSINKI	37.67	323.9	6	54	0						
APATITY	37.73	337.5	6	55	0						
KRAKOW	38.90	307.0	7	5	0					9	40
SODANKYLA	39.85	335.0	7	22	10						
RACIBORZ	40.01	307.0	7	15	1					9	18
BRATISLAVA	40.81	304.1	7	22	2				8 11	9	8 PP
UPPSALA	41.17	322.0	7	22A	-1				8 12	8	58 PP
MEDAN	41.41	135.5	7	25A	0	13	18	-4			
NHATRANG	41.90	115.2	8	39	70					9	14
KIRUNA	42.19	334.1	7	33	2	13	37	3	8 22	16	51 SS
POTSDAM	43.19	310.6	7	39	0					9	33
COLLMBERG	43.28	309.0	7	40	0					9	36
TRIESTE	43.36	300.8	9	18	97					10	3 *PPP
COPENHAGEN	43.52	315.4	7	43	1	13	39	-14	8 32	9	20 PP
PLAUEN	43.87	307.9	7	44	-1					10	57
HALLE	43.92	309.4	7	45	0	14	2	3	8 36	14	39 PS
YAKUTSK	44.07	35.4	7	46	0	14	2	1	8 27	15	27 *SS
SKALSTUGAN	44.31	326.8	7	48A	0				8 39		
FLORENCE X.	45.45	298.6	8	15A	18						
TIKSI	45.87	22.0				14	26	0		18	0 SS
STUTTGART	45.97	305.8	8	2A	0				8 52	9	32 PCP
CHUR	46.06	303.1	8	0A	-2				8 51		
TUBINGEN	46.09	305.5	7	55	-7				8 53		
EBINGEN	46.21	305.0	8	4	1				8 54		
BENSBERG	46.97	309.0	8	10	1				9 0		
BASLE	47.25	304.4	8	11	0						
NEUCHATEL	47.77	303.8	8	15	0				9 5		
GARCHY	50.29	304.9	8	34	-1				9 25		
PARIS	50.33	306.9	8	34A	-1	15	29	1			
KFW	51.51	310.8	8	43A	-1				9 34		
MATUSIRO	52.99	68.4	8	53A	-2				9 43		
NORD	53.91	349.5	9	1A	0				9 54		
RUMANGABO	53.93	235.4	9	3A	2					10	43 *SP
TUKUBASAN	54.52	68.1	9	3	-3					10	25
ASTRIDA	54.61	234.0	9	6	0					11	24 PP
RATHFARNHAM	54.63	314.1	9	34	27				10 29		

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LWIRO		54.96	235.1	9 10K	1		11 43 PP
TAMANRASSET		57.57	275.8	9 26A	-1	10 19	11 27 PP
IANANARIVE		59.31	206.0	9 39A	0		9 58
THULE		64.58	350.2	10 11	-3	11 4	
COLLEGE		74.59	16.1	11 15	0	12 10	
PIETERMZBURG		75.94	215.8	11 23A	0		
KIMBERLEY		78.03	220.4	11 34	0		
PORT MORESBY		84.55	105.8	12 8	0		
CHARTERS TS.		90.43	114.6	12 36A	0	13 35	
SHAWINIGAN		91.26	335.9	12 42	2		
BANFF		92.63	4.1			13 44	
HORSESHOE B.		93.67	9.3			13 49	
HUNGRY HORSE		95.52	3.4	12 59	0	13 56	18 8
EUREKA		104.23	5.6	14 38	59		18 26
SOUTH POLE		126.20	180.0	18 34	-1	19 35	
HALLEY BAY		126.77	198.1	18 35	-1		20 32 PP
BYRD STATION		136.05	177.4	18 39	-14	19 55	
HUANCAYO		141.23	300.1	18 59	-4		21 21

MARCH 28 12.H 6.M 24.S EPICENTRE 36.51 70.98 DEPTH= 188.KM
DEPTH OF FOCUS= 0.024R

A= 0.26261 B= 0.76169 C= 0.59234 D= 0.9454 E=-0.3259
G= 0.1931 H= 0.5600 K=-0.8057 HT= -0.4

SE= 1.95

	DELTA DEG.	AZ. DEG.	P M	P S	O-C S	S M	S S	O-C S	*PP M	*PP S	SUPP. M	SUPP. S	
KHOROG	1.09	27.0	0	31	1	0	53	0					
KULYAB	1.69	325.8	0	35	0								
NUREK	2.30	325.7	0	42	0	1	11	-3					
OBI-GARM	2.41	335.5	0	45	2								
KARA-SU	2.53	321.7	0	45	0								
GARM	2.54	348.0	0	45	0	1	7	-12					
WARSAK DAM	2.55	169.2	0	45	0								
STALINABAD	2.69	319.9	0	48	2	1	23	1					
DZHERGETAL	2.71	4.0	0	48	1	1	22	0					
ZIMCHURUD	2.84	323.2	0	48	0	1	24	-1					
MURGAB	3.00	50.8	0	52	2								
FERGANA	3.92	9.0	1	2	1	1	45	-4					
ANDIJAN	4.37	14.0	1	8	1	1	57	-2					
SAMARKAND	4.46	316.2	1	6	-2						1	46	
NAMANGAN	4.50	6.7	1	9	0	1	57	-5					
LUNACHARSKOE	4.98	345.6	1	14	-1	2	8	-5					
TASHKENT	4.98	345.1	1	15	0	2	11	-2					
LAHORE	5.67	149.7	1	23K	-1								
TCHIMKENT	5.88	350.0	1	26	-1						2	22	
NARYN	6.28	37.0	1	31	-1						2	34	
FRUNSE	6.94	22.5	1	40	-1	2	55	-4			1	56	
QUETTA	7.15	209.2	1	44K	1	3	4	0			2	23	*SP
BAIRAM-ALI	7.17	281.4	1	42	-2	2	59	-5					
FABRICHNAYA	7.86	30.4	1	52	-1	3	16	-4					
ALMATA	8.16	32.4	1	57	0	3	27	-1			2	44	
PRZHEVALSK	8.27	41.6	1	58	0								
ALMATA-2	8.35	34.1	1	57	-2								
DEHRA DUN	8.54	134.2	2	1	-1	3	31	-5			2	7	PP
KURMENTY	8.62	38.5	2	1	-2								
ILI	8.77	30.2	2	2	-3	3	51	9					
CHILIK	9.07	36.7	2	7	-1						4	14	
ASHKABAD	10.17	281.9	2	20	-3	4	13	-1					
AGRA	11.10	145.4	2	32K	-3	4	28	-8				40	PP
KIZYL-ARVAT	11.91	286.6	2	44	-1	4	36	-19					
SEMIPALATNSK	15.41	22.8	3	28	-1	6	9	-6			4	17	*SP
CHATRA	16.81	120.5	3	41	-5	6	36	-12					
BAKU	16.95	289.6	3	50	2								
BOMBAY	17.62	174.2	3	56	1	7	17	13			4	44	*SP
BOKARO	17.97	130.6	4	0K	1	7	6	-4			4	13	PP
POONA	18.09	171.2	4	2K	2	7	16	3			4	14	PP
LHASA	18.14	106.4	4	4K	3	7	17	3			4	54	*SP
MAKHACH-KALA	19.14	296.9	4	11	0						4	42	
GORIS	19.64	286.2	4	19	3						8	29	PCP
KIROVOBAD	19.66	289.9	4	17	0						7	50	
HYDERABAD	20.12	158.8	4	21K	0	7	56	4			5	20	PPP
CALCUTTA	20.50	128.0	4	27A	2	8	7	8					

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SHILLONG	20.92	115.6	4	29K	0	8	9	3			5	0 PP
TIFLIS	20.93	292.4									8	32 PCP
VIZIANAGRAM	21.37	145.7	4	34K	0	8	27	13				
SVERDLOVSK	21.49	344.4	4	36	1						5	8 PP
TOCKLAI	22.42	109.0	4	41	-3							
CHITTAGONG	22.92	122.2	4	51K	2	8	48	7	5	33	6	3 *SP
MADRAS	24.83	158.2	5	8K	1	9	16	3			5	36 PP
SOTCHI	24.85	296.2	5	8A	1						11	0 SS
WUWEI	25.20	77.2	5	12	2							
KODAIKANAL	26.81	165.7	5	26	1	9	53	7				
CHENGTU	28.04	92.3	5	37K	1	10	8	3	6	17		
IRKUTSK	28.25	45.5	5	38A	0	10	4	-5			6	18
ULAN-BATOR	28.70	55.3	5	43	1	10	16	0				
KSARA	28.72	275.1	5	44A	2	10	11	-5			6	41 PP
YALTA	28.92	297.5	5	44A	0						12	12 SS
KYAKHTA	28.94	50.2	5	44A	0	10	18	-2	6	24	11	30 *SS
SIMFEROPOL	28.97	298.4	5	45A	1				6	24	6	43 PP
KUNMING	29.41	103.9	5	48K	0	10	25	-2	6	31	6	57 *SP
KABANSK	29.53	46.9	5	49A	0	10	31	2	6	30	11	45 *SS
MOSCOW	29.64	321.0	5	50	0	10	31	1	6	29	6	51 PP
PAOTOW	30.64	70.3	6	0	1							
PORT BLAIR	31.55	136.1	5	59	-8	11	4	3			16	30
ISTANBUL KA.	32.75	291.0	6	16	-1	11	21	2				
IASI	33.65	302.3	6	25	0							
HELWAN	33.66	270.3	6	25A	0						7	44 PP
FOCSANI	33.88	299.6	6	35	8							
BUCHAREST	34.69	297.3	6	35A	1							
PULKOVO	34.90	324.8	6	36	0	11	52	0	7	12	8	28 PPP
PEKING	35.37	70.2	6	40A	0	12	1	2	7	22	8	5 PP
CAMPULUNG	35.41	298.9	6	54	14							
LWOW	36.15	306.6	6	46	0						8	10 PP
SOFIA	36.83	294.7	6	53	1				7	18	9	37
ATHENS	37.34	286.9	6	56A	0	12	33	4	7	42	8	44
HELSINKI	37.55	323.8	6	58	0							
APATITY	37.60	337.4	6	58	0							
TIMISOARA	38.06	299.9	7	5	3						16	24
WARSAW	38.20	310.4	7	2A	-1				7	42	8	34 PP
SKOPJE	38.35	293.8	7	4K	-1				7	41	8	25 PPP
SKALNATE PL.	38.59	305.5	6	57	-10				7	38	8	36 PP
CANTON	38.77	98.2	7	10K	2	12	53	2				
SZFGED	38.78	300.8	7	0	-8							
KRAKOW	38.80	306.9	6	58	-10				7	57	8	43 PP
BUDAPEST	39.43	302.8	7	15	1						8	49 PP
NANKING	39.45	82.1	7	15A	1	13	3	2	7	56		
KALOCSA	39.56	301.3	7	17	2						8	58 PP
SODANKYLA	39.72	335.0	7	16	0							
HONG KONG	39.87	98.6	7	56	39	12	42	-25			9	24 PP
RACIBORZ	39.91	306.9	7	17	0				8	4	8	54 PP
HURBANOVO	39.99	303.5	7	22	4	13	4	-5	8	4	8	58 PP
BRATISLAVA	40.71	304.0	7	25A	1				8	7	9	4 PP
UPPSALA	41.05	321.9	7	26A	-1	13	24	-1	8	8	9	1 PP
VIENNA-H.	41.19	304.2	7	29	1	13	17	-10	8	14	9	13 PPP
CHANGCHUN	41.52	62.5	7	31	0				8	13		
MEDAN	41.52	135.6	7	30K	-1	13	26	-6				
ZO-SE	41.68	82.3	7	33A	1	13	36	2	8	14	14	52 *SS
ZAGREB	41.70	300.6	7	31A	-1						9	10 PP
NHATRANG	41.99	115.3	8	43	69				9	25		
KIRUNA	42.07	334.1	7	22A	-13	13	24	-16	8	3	8	23 *SP
PRUHONICE	42.27	306.9	7	40	3				8	22	9	21 PP
SUIHWA	42.30	58.1	7	39	2							
PRAGUE	42.34	307.0	7	38A	1				8	16	9	22 PP
POTSDAM	43.08	310.5	7	46	3				8	21	9	24 PP
COLLMBERG	43.17	308.9	7	44	0						9	27 PP
TRIESTE	43.27	300.6	7	44A	-1	14	1	4	8	46	9	31 PP
COPENHAGEN	43.41	315.3	7	47A	1	14	4	5	8	29	9	31 PP
REGGIO CALA.	43.48	289.5	7	47A	0							
MESSINA	43.53	289.6	7	47	0	14	3	2	8	23	9	36 PP
PLAUEN	43.77	307.8	7	48	-1				8	24	8	50 *SP
HALLE	43.82	309.3	7	50	1	14	7	2			9	28 PP
YAKUTSK	43.99	35.5	7	50	-1	15	21	74	8	32	10	17 PPP
JENA	44.09	308.5	7	52	1				8	34	9	24 PP
SKALSTUGAN	44.19	326.7	7	52A	0				8	30	9	34 PP
ROME	44.89	295.6	7	57A	-1	14	25	5	9	0		
BOLOGNA	45.16	299.4	8	3	3						11	43
FLORENCE X.	45.37	298.5	7	47	-14				8	46	9	31 PP
TIKSI	45.77	22.0	8	13	8						10	54 PPP
STUTTGART	45.87	305.7	8	6A	1						9	55 PP
CHUR	45.96	303.0	8	5	-1							
TUBINGEN	45.99	305.4	8	7A	1						9	59 PP

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KARLSRUHE	46.34	306.1	8	10A	1				8	54	10 5	PP
EBINGEN	46.12	304.9	8	8A	1				8	50	9 10	*SP
VLADIVOSTOK	46.36	62.2	8	9A	0	14	43	2	8	52		
MUNSTER	46.46	310.3	8	11	1						10 4	
ZURICH	46.51	303.9	8	11	1						8 33	
PAVIA	46.53	300.8	8	12A	1						9 14	*SP
STRASBOURG	46.84	305.6	8	14A	1	13	45	-63	8	56	10 2	PP
BENSBERG	46.86	309.0	8	13A	0						10 3	PP
WITTEVEEN	46.94	311.5	8	13A	-1							
BASLE	47.15	304.3	8	14A	-1						10 12	
BERGEN	47.24	322.0	8	16A	0	15	26	32			18 17	SS
OROPA	47.27	301.6	8	17	1				8	59	10 3	
NEUCHATEL	47.67	303.7	8	19	-1							
DE BILT	47.94	310.7	8	23A	1	15	6	3			10 17	PP
MONACO	48.07	299.3	8	22A	-1							
BAGUIO CITY	48.12	101.0	8	30	7	15	10	4				
MANILA	49.49	102.7	8	51	18	15	42	17				
GARCHY	50.20	304.8	8	37	-2							
PARIS	50.23	306.8	8	37	-2	15	30	-5				
CLERMONT-FD.	50.54	302.9	8	41A	0	15	31	-9				
ABERDEEN	51.35	318.1	8	21	-27						19 54	
KEW	51.41	310.7	8	48A	0	15	48	-3	9	43	20 18	*SSS
DURHAM	51.49	315.0	8	48A	0				9	49	11 5	PP
KYOTO	51.65	71.2	8	51A	1	15	57	2				
UGLEGORSK	51.83	52.3	8	50A	-1	15	59	2	9	33		
Y.-SAKHLINSK	52.81	54.8	8	57A	-1	16	10	-1			17 27	*SS
MATUSIRO	52.97	68.5	8	58A	-2	16	10	-3	9	43	13 42	SCP
JERSEY	53.07	308.2	8	58	-2							
ALGIERS UNI.	53.41	292.1	9	0A	-3				9	43	11 15	PP
NORD	53.79	349.5	9	5A	0	16	23	-1	10	7	12 48	PPP
MIZUSAWA	54.19	64.4	9	5	-3							
SENDAI	54.33	65.5	9	5	-4						11 10	PP
MAGADAN	54.39	38.1	9	10A	0	16	32	0	9	54	17 48	*SS
TUKUBASAN	54.50	68.1	9	8K	-3	16	33	0	9	28		
RATHFARNHAM	54.52	314.0	9	49A	38				10	39		
ASTRIDA	54.66	233.8	9	12A	0	16	41	6				
LWIRO	55.00	235.0	9	15	1							
ALICANTE	55.43	295.1	9	4	-13	16	26	-19			11 12	PP
RELIZANE	55.66	291.8	9	17A	-2							
SCORESBY SD.	57.04	336.4	9	29A	0	17	14	7	10	34	18 29	*SS
TOLEDO	57.42	298.1	9	31A	0				10	15	11 43	PP
ALMERIA	57.46	294.2	9	30K	-2				10	16	10 33	*SP
TAMANRASSET	57.53	275.7	9	31A	-1	17	15	2	10	15	11 35	PP
GRANADA	58.16	295.0	9	36A	-1	17	58	37			11 57	PP
MALAGA	58.93	294.8	9	39K	-3				10	23	11 48	PP
REYKJAVIK	59.03	329.3	9	44	1				10	25	10 44	
TANANARIVE	59.41	205.9	9	46	1				10	31	12 24	PP
SERRA PILAR	60.12	301.0	9	45K	-5				10	35		
LISBON	61.51	298.7	9	59A	0				10	42		
KOROR	64.43	100.2	11	4A	45							
THULE	64.45	350.2	10	15K	-4	18	37	-4	11	0	12 36	PP
RESOLUTE	68.70	356.0	10	44A	-1	19	36	4	11	48	20 26	SCS
PRETORIA	73.91	219.6	11	8	-8							
COLLEGE	74.49	16.1	11	20	0	20	12	-26	12	6	21 36	*SS
WINDHOEK	77.70	229.8	11	39	1							
KIMBERLEY	78.10	220.4	11	39	-1							
GRAHAMSTOWN	80.90	216.4	11	55	0							
SITKA	84.18	14.1	12	12	0				13	0		
PORT MORESBY	84.61	105.8	12	14	0	22	22	-1			14 3	
RABAUL	85.41	98.6	12	16	-2						13 19	
SEVEN FALLS	89.99	335.0	12	39	0				13	30	16 9	PP
CHARTERS TS.	90.52	114.6	12	41	-1				13	30		
SHAWINIGAN	91.13	335.9	12	45	0				13	34	13 56	*SP
BREBEUF	92.34	335.9	12	50A	0						13 59	*SP
BANFF	92.51	4.1	12	52A	1							
OTTAWA	93.10	337.2	12	55	1				13	44	16 39	PP
ALBERNI	93.45	10.3	12	55	0				13	44		
HORSESHOE B.	93.56	9.3	12	57A	1				13	47		
VICTORIA	94.38	9.5	13	1A	1	24	12	20	13	48	16 54	PP
HUNGRY HORSE	95.40	3.4	13	4	0				13	47	16 45	PP
PALISADES	96.41	334.0									26 31	
BUTTE	97.79	2.5	13	16	1				14	3		
BOZEMAN	98.18	1.4	13	18	1						14 24	*SP
RAPID CITY	99.62	355.7	13	24	0	23	49	-47			17 25	PP
MORGANTOWN	99.64	337.6	13	26	2						16 48	
BRISBANE	99.96	116.7	14	24	59							
SHASTA	102.19	10.4									17 4	PP
LARAMIE	102.49	357.3	13	37	1							

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MINERAL	102.65	9.8	13 37	0			17 4 PP
CHAPEL HILL	102.74	335.4					17 2 PP
SALT LAKE C.	103.05	2.2	13 40	1		14 36	17 59 PP
RENO	103.68	8.6					16 47 PP
EUREKA	104.12	5.5	13 45	2		14 37	34 30
BERKELEY	104.99	10.8	18 1	254			
COLUMBIA	105.15	336.2	17 47	777			18 55 PP
LICK	105.60	10.4					17 28 PP
FRESNO	106.41	9.0					18 5
FAYETTEVILLE	106.47	347.5	13 54K	777			18 15 PP
BOULDER CITY	107.68	4.9	17 49	777			18 25 PP
PASADENA	109.19	8.0	18 8	777			
TUCSON	111.58	1.6	18 14	2			18 47 PP
SAN JUAN	112.01	315.8					18 59 PP
TACUBAYA	123.63	348.8					19 52 PP
SOUTH POLE	126.32	180.0	18 40A	-1		19 31	
SCOTT BASE	126.59	164.8	18 41K	0			19 31 PP
HALLEY BAY	126.87	198.2	18 41	-1	25 14 -14		
BYRD STATION	136.17	177.4	18 47	-12		19 41	22 12 PP
LA PAZ	138.72	287.8	19 7K	3		19 14	21 57 PP
HUANCAYO	141.14	300.1	19 5	-4		20 6	22 29 SKP

MARCH 31 10.H 31.M 5.S EPICENTRE 16.66 -93.92 DEPTH= 151.KM

DEPTH OF FOCUS= 0.019R

A=-0.06546 B=-0.95629 C= 0.28499 D=-0.9977 E= 0.0683
G=-0.0195 H=-0.2843 K=-0.9585 HT= 5.4

SE= 2.51

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
COMITAN	1.76	103.3	0 31	-2	0 51	-7		
OAXACA	2.76	277.8	0 37	-8	1 3	-17		
VERA CRUZ	3.29	320.4	0 45	-7	1 19	-13		
PUEBLA	4.71	300.6	1 19	8	2 1	-4		
SAN SALVADOR	5.38	122.2	1 19	0	1 53	-28		
TACUBAYA	5.72	299.2	1 23	-1	2 18	-11		2 37
MERIDA	5.89	43.0	1 30	4	2 35	2		
GUADALAJARA	9.77	295.6	2 41	23				4 47
CHIHUAHUA	16.35	318.9	4 59	77				10 7
LUBBOCK	18.30	338.5	4 3	-2	7 23	2		4 34 PP
FAYETTEVILLE	19.35	359.3	4 9A	-7	7 44	2		4 23 PP
COLUMBIA	20.79	31.5	4 36	5	8 19	10		
TUCSON	21.81	318.4	4 42	1			5 4	
LARAMIE	26.54	340.1	5 28	3				
BOULDER CITY	26.76	320.0	5 27	0			5 47	
PASADENA	27.87	313.2	5 36	-2				6 8
RAPID CITY	28.44	345.9	5 42	-1			6 7	6 25 *SP
SALT LAKE C.	28.59	330.7	5 45	1			6 10	6 26 *SP
EUREKA	29.77	324.2	5 55	1			6 21	
PALISADES	29.78	31.4	6 20	25	10 35	-4		6 46 PP
FRESNO	30.42	316.2	6 0	0				
LICK	31.96	315.5	6 14K	0				6 54
RENO	32.06	320.5	6 16A	1				
BOZEMAN	32.28	337.2	6 18	2			6 44	7 1
OTTAWA	32.46	24.2	6 16A	-2			6 43	7 35 PP
BUTTE	33.15	335.9	6 24	0			6 50	
BRFREUF	33.40	26.3	6 52K	26			7 12	
MINERAL	33.64	320.1	6 28A	0				
HUANCAYO	33.94	146.0	6 32	1			6 59	9 41
SHAWINIGAN	34.59	26.0	7 2	26				
HUNGRY HORSE	35.64	336.8	6 45	0			7 10	9 41 PCP
SEVEN FALLS	35.87	27.2					7 16	8 17 PP
BANFF	38.52	338.1	7 8	-1			7 35	
VICTORIA	39.87	329.3	7 19	-1				
HORSESHOE B.	40.39	330.4	7 24	-1				
RESOLUTE	58.03	359.7	9 36A	-3	17 14 -12		10 5	21 25 SS
HAWAII V.OB.	58.14	282.8	9 40	0				
THULE	61.24	6.7	10 57	56			11 27	
NORD	71.76	8.7	11 7	-1				
PARIS	81.77	41.6	12 2	-1	22 7 5			
SKALSTUGAN	82.23	25.7	12 6	0			12 38	
KIRUNA	83.47	20.4	12 13	1				
SODANKYLA	85.74	19.5	12 22	-1				
STUTTGART	86.00	40.2	12 24	0				

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UPPSALA	86.08	28.1	12 25	0			
PRUHONICE	88.76	37.8	12 27	-11			13 28
TAMANRASSET	92.02	65.6	12 54	1	13 23		
QUETTA	129.91	21.7	18 55	3	19 27	22	6 PKS
SHILLONG	137.65	352.2	19 44	38			

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.