JULY 1 19.H 30.M 22.S EPICENTRE 24.38 93.76 DEPTH= 41.KM

DEPTH OF FOCUS= 0.001R

A=-0.05975 B= 0.90992 C= 0.41046 D= 0.9979 E= 0.0655
G=-0.0269 H= 0.4096 K=-0.9119 HT= 3.5

SE= 3.29

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
SHILLONG	2.08	305.1	0 38A	5	1 1	3		
TOCKLAI	2.53	21.0	0 40	1				
CHITTAGONG	2.68	221.9	0 45	4				
CALCUTTA	5.30	250.8	1 18K	0	2 0	-19		1 33 PG
LHASA	5.80	335.7	1 30	5	2 36	5		
BOKARO	7.29	267.3	1 46K	0	2 49	-20		2 12 PG
KUNMING	8.14	83.4	1 59A	1	3 34	4		
CHENGTU	11.04	53.2	2 34	-4	4 36	-5		
VIZIANAGRAM	11.45	239.0	2 45K	2	4 39	-12		2 51
PORT BLAIR	12.68	184.6	2 56	-4	5 16	-5		3 6 PP
SINING	14.02	27.6	3 17	0				
LANCHOW	14.54	34.3	3 21K	-3				
TIENSHUI	14.56	43.0	3 21	-4				
DEHRA DUN	15.15	296.4	3 28	-4	6 11	-8		3 42 PP
WUWEI	15.49	27.2	3 35	-2				
HYDERABAD	15.88	247.1	3 41A	-1	6 18	-18		3 48 PP
YUMEN	16.11	9.0	3 43	-2				
SIAN	16.46	49.9	3 48	-1	6 51	1		
MADRAS	17.12	231.0	3 54	-3	6 50	-15		4 7 PP
YINCHUAN	17.62	34.2	4 2	-1				
LAHORE	18.57	296.9	4 12A	-3	7 37	-1		
HONG KONG	18.86	92.2	4 14A	-5	7 44	0		
LINFEN	19.25	48.5	4 21	-2				
POONA	19.41	256.4	4 25K	0	7 48	-8		4 42 PP
BOMBAY	20.20	258.4	4 35	2	8 5	-8		4 46 PP
TAIYUAN	20.90	45.8	4 39	-2				
KODAIKANAL	20.94	230.6	4 52A	11	8 44	17		
FUTZELING	21.07	65.9	4 40	-2				
WARSAK DAM	21.59	301.4	4 50	2				
COLOMBO	21.89	219.7	3 41	-70	7 36	-69		
TATUNG	22.69	41.6	4 59	0				
NANKING	23.32	65.2	5 2A	-3	9 6	-5	5 22	
KWANTING	24.21	44.0	5 14	1				
KARACHI	24.22	279.1	5 13A	0	9 26	0		
TAINAN	24.26	87.8	5 12	-2	9 35	8		
FRUNSE	24.30	324.1	5 16	2	9 36	9	5 30	
KAOHSIUNG	24.37	88.7	5 20	5				
PEKING	24.46	45.0	5 15K	-1	9 30	0	5 34	5 54 PP
QUETTA	24.49	289.6	5 17A	1	9 30	-1	5 30	5 59 PP
TAICHUNG	24.53	84.9	5 17	1				
ALISHAN	24.72	86.4	5 19	1				
HENGCHUN	24.91	90.0	5 19	-1	9 37	-1		
TAWU	24.99	89.1	5 27	6	9 40	1		
ZO-SE	25.14	68.4	5 19A	-3	9 36	-6	5 42	
TAITUNG	25.15	88.1	5 26	4				
TAIPEI	25.22	82.7	5 20	-3	9 43	0		
HSINKONG	25.30	87.2	5 24	0				
HWALIEN	25.41	85.1	5 23	-2	9 45	-1		
BAGUIO CITY	26.32	102.4	5 30	-3	9 50	-11		
TASHKENT	26.48	315.6	5 36	1	10 5	1		10 46 *SS
MANILA	27.41	105.8	5 36	-7				
SEMIPALATNSK	28.01	341.4	5 47	-2	10 26	-3	6 8	10 47
IRKUTSK	28.99	13.4	5 57K	0	10 43	-1		6 26
TOMIE	31.74	67.0	6 4	-18	11 7	-21		6 43
CHANGCHUN	32.26	45.2	6 24	-2	11 30	-6	6 45	7 32 PP
ITUHARA	32.35	64.2	6 8	-19				
ASHKABAD	32.97	302.7	6 33	0				7 52 PP
YAKUSIMA	33.07	71.2	6 29	-4				13 40
SAGA	33.08	66.1	6 49	15				
KAGOSIMA	33.16	69.2	6 58	24				12 56
HUKUOKA	33.22	65.5	6 31A	-4	11 43	-8		6 58
KUMAMOTO	33.37	66.9	6 40	4				8 18
MIYAZAKI	33.92	68.6	7 3	22				13 49
OOITA	34.18	66.3	6 39	-4	12 2	-5		
MATSUE	35.61	62.7	7 20	25				9 1
KOTI	35.80	66.0	7 1	4	12 28	-3		14 43
YONAGO	35.83	62.8	7 29	32	12 24	-7		
TAKAMATU	36.29	64.7	7 0	-1				12 10

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VLADIVOSTOK	36.42	49.6	6 59	-3	12 32	-8		
TOKUSIMA	36.71	65.2	7 4	0	12 38	-7		15 27
SUMOTO	36.98	64.8	7 0	-7	12 40	-9		17 11
KOBE	37.25	64.3	7 18	9	12 47	-6		15 29
OSAKA	37.54	64.4	7 50	39	12 54	-3		
SIOMISAKI	37.66	66.3	7 34	22	12 52	-7		
KYOTO	37.73	63.8	7 8	-5	12 50	-10		
OWASE	38.05	65.4	7 13	-3	13 0	-5		
HIKONE	38.17	63.4	7 16	-1	12 58	-9		
KAMEYAMA	38.32	64.1	7 20	2	13 4	-5		
TU	38.35	64.3	7 30	12				
GIHU	38.61	63.3	7 17	-3	13 6	-8	7 39	15 48
WAZIMA	38.91	60.1	7 22	-1	13 8	-10		
TOYAMA	39.07	61.3	7 30	6	13 15	-6		
MATUMOTO	39.65	62.1	7 28	-1	13 22	-7		
OMAESAKI	39.75	64.6	7 51	21	13 28	-3		
NAGANO	39.87	61.4	7 28	-3	13 27	-6		
MATUSIRO	39.88	61.6	7 27A	-4	13 20	-13		9 18 PP
SHIZUOKA	39.91	64.1	7 51	20	13 26	-7		
AIKAWA	40.05	59.3	7 51	19				
KOHU	40.09	63.1	7 34	1	13 29	-7		17 29 SCS
OIWAKE	40.12	62.0	7 31	-2	13 37	1		9 8
HUNATU	40.24	63.3	7 32	-2	13 33	-5		
SVERDLOVSK	40.30	332.3	7 34	0	13 35	-4		9 13 PP
MISIMA	40.37	63.9	7 58	23	13 31	-9		
TITIBU	40.53	62.6	7 48	12	13 34	-8		
MAEBASI	40.55	61.9	7 53	17	13 38	-5		16 48 SCS
NIIGATA	40.66	59.6	7 59	22				13 32
OSIMA	40.71	64.4	8 14	36	13 39	-6		
KUMAGAYA	40.78	62.3	7 53	15	14 6	20		
YOKOHAMA	40.96	63.5	8 1	21				14 19
TOKYO C.M.O.	41.05	63.1	7 58	17	13 44	-6		10 26
MERA	41.08	64.2	8 10	29	14 13	22		
UTUNOMIYA	41.20	61.8	7 44	2	13 23	-29		8 4
KAKIOKA	41.43	62.3	7 37	-7	13 34	-22		
MITO	41.67	62.1	7 12	-34				8 11
AKITA	41.69	57.0	8 13	27	13 53	-7		8 45
HUKUSIMA	41.77	60.0	7 49	3	13 53	-8		
ONAHAMA	42.05	61.3	8 8	19	13 56	-9		8 42
SENDAI	42.15	59.3	8 1	11	13 56	-10		8 45
MORI	42.39	53.6	7 58	6	13 59	-11		10 0 PPP
MIZUSAWA	42.41	58.0	7 55	3	14 1	-9		
HAKODATE	42.45	54.1	8 17	25				
KOROR	42.48	106.6	7 49	-3	14 11	0	8 14	9 30 PP
GORIS	42.49	302.5	7 54	2	14 12	1		9 35 PP
MORIOKA	42.50	57.2	7 49	-4				
SAPPORO	43.12	52.3	7 55	-3	14 12	-8		8 58
TOMAKOMAI	43.19	53.2	8 41	43				
WAKKANAI	43.80	49.1	9 0	57				14 27
TIFLIS	43.91	305.5	8 4	0	14 35	3		18 44 SSS
URAKAWA	44.02	53.9	8 6	1	14 25	-9		14 57
OBIHIRO	44.43	52.9	8 6	-2				14 36
Y.-SAKHLINSK	44.83	47.1	8 9	-2	14 39	-6		8 39
KUSIRO	45.32	52.9	8 14	-1	14 43	-9		
NEMURO	46.22	52.6	8 35	13	15 6	1		
GUAM	49.20	93.0	8 41	-5				
KSARA	50.87	294.6	9 10K	12	16 16	6	9 26	10 59 PP
MOSCOW	51.25	323.0	9 1A	0	16 11	-4	9 23	16 43 PS
TIKSI	51.26	13.5	8 59	-2	16 9	-7	9 27	16 35 PS
JERUSALEM	51.65	292.1	9 5K	1	16 26	5		
SIMFEROPOL	51.95	308.9	9 6A	-1	16 24	-1	9 26	11 12 PP
MAGADAN	52.71	32.5	9 10	-2	16 31	-5		
PETROPAVLOVK	55.89	41.2	9 35A	0			9 53	19 12 SCS
PULKOVO	55.92	326.9	9 35	-1	17 15	-4	9 55	19 14 SCS
APATITY	56.47	336.4	9 39	-1	17 25	-1	9 57	12 2 PP
IASI	56.54	311.6	10 18	38	17 24	-3		13 14
FOCSANI	56.84	309.8	9 47	5				17 15
BACAU	57.02	310.9	9 38	-6	17 26	-7		
BUCHAREST	57.68	308.3	9 48K	0	17 42	0		11 58 PP
TRUK	57.93	96.6	9 48	-2	18 14	29		14 33 PPP
CAMPULUNG	58.38	309.4	9 54	1				
HELSINKI	58.64	326.9	9 53	-2	17 47	-8		18 53
LWOW	58.85	314.8	9 56	0	17 55	-2	10 20	12 13 PP
SODANKYLA	58.96	335.4	9 55	-2	17 56	-3		18 22 PS
PERTH	59.85	158.3						24 58 SSS
ATHENS	60.16	301.1	9 45	-20				18 10 PS
WARSAW	60.65	317.6	10 8	-1	18 19	-2		12 27 PP
TIMISOARA	61.01	310.2	10 11	0	18 2	-23		18 47

SKALNATE PL.	61.34	314.2	10 15	2	18 42	13		12 47
SKOPJE	61.34	305.9	10 9K	-4	18 30	1		13 31 PPP
KIRUNA	61.38	335.5	10 12	-2	18 28	-2	10 31	
KRAKOW	61.48	315.2	10 12	-2	18 26	-5		12 28 PP
BELGRADE	61.66	309.2	10 14K	-2	18 32	-1		14 11 PPP
SZEGED	61.71	310.9	10 16	0				
DABROWA	61.91	315.6	9 55	-22				
BYTOM	62.10	315.6	10 19	1				
TANANARIVE	62.28	230.5	10 19	-1			10 47	10 55 PCP
BUDAPEST	62.29	312.4	10 19	-1	18 46	5		25 46 SSS
UPPSALA	62.31	326.4	10 18A	-2	18 37	-5	10 37	
KALOCSA	62.47	311.3	10 21	0				14 7 PPP
RACIBORZ	62.58	315.3	10 22	0				12 43 PP
HURBANOVO	62.83	312.9	10 26	3	18 47	-1	10 46	12 41 PP
RABAUL	63.48	108.3	10 25	-3				
BRATISLAVA	63.53	313.3	10 27	-1	18 56	-1		23 11 SS
VIENNA-H.	64.00	313.5	10 30A	-1	19 3	0		12 55 PP
ZAGREB	64.63	310.9	10 35	0				
TARANTO	64.68	304.8	10 40	5	19 5	-6		15 0 PPP
SKALSTUGAN	64.69	330.7	10 34	-2			10 53	
LUND	64.98	322.0	10 37	0			11 1	
PRAGUE	64.99	315.7	10 36	-2	19 14	-1		12 56 PP
COPENHAGEN	65.40	322.0	10 40A	0	19 19	-1		12 46 PP
POTSDAM	65.50	318.3	10 40	-1	19 20	-1		14 59 PPP
COLLMBERG	65.70	317.2	10 40	-2				15 0 PPP
TRIESTE	66.20	311.0	10 44	-1	19 26	-4		13 14 PP
CHEB	66.30	315.9			19 28	-3		24 2 SS
HALLE	66.32	317.5	10 44	-2	19 30	-1		11 16
PLAUEN	66.37	316.4			19 28	-4		11 3
REGGIO CALA.	66.39	302.6	10 47	1	19 30	-2		
MESSINA	66.45	302.7	10 46	-1	19 40	7		13 17 PP
JENA	66.65	316.9	10 48	0	19 33	-2		13 29 PP
SONNEBERG	66.99	316.4	10 49	-1	19 37	-2		13 34 PP
HAMBURG	67.14	320.0	10 51	0	19 41	0	11 20	20 18 *SS
ROME	67.89	307.2	10 53A	-3	19 47	-3		13 26 PP
BOLOGNA	68.12	310.1	11 0	3			11 22	24 58 SS
LWIRO	68.30	257.0	11 4A	6				
FLORENCE X.	68.34	309.4	10 56A	-3	19 55	0		24 30 SS
STUTTGART	68.59	315.0	10 59A	-1	19 57	-1		13 33 PP
TUBINGEN	68.73	314.7	11 2	1				
CHUR	68.81	312.9	11 0A	-2	19 55	-6		
EBINGEN	68.87	314.4	11 0	-2				13 35 PP
KARLSRUHE	69.05	315.4	11 3	0	20 3	-1		11 37 PCP
WITTEVEEN	69.25	319.6	11 4	0				
ZURICH	69.32	313.6	11 7	2				
BENSBERG	69.37	317.6	11 3	-2				
PAVIA	69.45	311.2	11 5A	0				15 34 PPP
STRASBOURG	69.56	315.0	11 5A	-1	20 6	-4		13 39 PP
BASLE	69.94	314.0	11 7A	-1	20 11	-3		
OROPA	70.16	311.9	11 13	3				25 34 SS
DE BILT	70.30	319.1	11 11A	0	20 19	1		13 54 PP
NEUCHATEL	70.49	313.5	11 10	-2	20 17	-4		
MONACO	71.03	310.1	11 14A	-1				13 46 PP
BESANCON	71.06	314.0	11 13	-2			11 34	13 53 PP
PARIS	72.86	316.2	11 25A	-1	20 44	-4	11 45	14 15 PP
ABERDEEN	72.93	325.5	11 30	4	20 45	-4		15 37 PPP
CLERMONT-FD.	73.38	313.1	11 28A	-1	20 54	0		25 28 SS
DURHAM	73.42	323.0	11 28K	-1	20 50	-4	11 51	14 35 PP
KEW	73.76	319.5	11 30	-1	20 54	-4	11 50	14 17 PP
SCORESBY SD.	75.31	341.8	11 40	0	21 14	-1		26 1 SS
JERSEY	75.60	317.6	11 56	14	21 41	23		26 9 SS
ALGIERS UNI.	76.37	304.3	11 44	-2	21 23	-4		14 39 PP
RATHFARNHAM	76.53	322.6	11 49A	2			12 12	12 26
BRISBANE	76.97	128.4	11 48A	-2	21 28	-5		
MELBOURNE	78.37	140.9	11 56A	-1	21 45	-3		13 54
ALICANTE	78.43	306.8	11 59	1	21 48	-1		22 9 SKS
RELIZANE	78.62	304.1	11 58	-1				22 30 PPS
REYKJAVIK	78.72	336.2	12 15	16				12 29
COLLEGE	79.29	22.5	12 1	-1	21 53	-5		15 17 PP
TAMANRASSET	79.40	290.2	12 4A	1	22 0	1		15 6 PP
RIVERVIEW	79.54	134.5	11 51A	-13	21 58	-3		22 47 PS
TOLEDO	80.40	309.4	12 8A	0	22 7	-3		15 13 PP
ALMERIA	80.46	306.0	12 7	-2	22 7	-3		15 20 PP
PRETORIA	80.64	236.3	12 10K	0				
RESOLUTE	81.02	2.3	12 10A	-2	22 13	-3		15 6 PP
PIETERMZBURG	81.13	232.0	12 13A	1				
GRANADA	81.16	306.7	12 12A	0	22 12	-6		14 54 PP
MALAGA	81.93	306.6	12 35	19	22 36	10		
LISBON	84.47	310.0	12 30A	1				15 47 PP

KIMBERLEY	84.79	235.4	12 30A	-1				
GRAHAMSTOWN	85.89	230.7	12 36	0				
SITKA	89.01	24.4	13 1	10	24 7	33		23 31 SKS
IVIGTUT	89.34	342.6			23 29	-8		
MIRNY	90.64	180.3	12 56	-3	23 44	-5		
WILKES	91.20	173.3			23 48	-6		29 53 SS
HERMANUS	91.71	232.9			24 3	3		
HORSESHOE B.	99.50	23.5	13 42	3				24 46
VICTORIA	100.16	24.1	13 56	14				18 12
BANFF	100.47	18.3	14 1	17				
SEATTLE	101.30	23.9	14 10	22	26 4	44		18 14 PP
MBOUR	102.21	292.0	14 14	22	24 40	-48		18 4 PP
HUNGRY HORSE	103.44	18.6	14 4	7				18 28 PP
BUTTE	105.97	18.8	14 11	777	26 8	0		24 53 SKS
BOZEMAN	106.72	17.9	14 35	777				18 18 PP
SHASTA	107.05	28.0	18 10	777				18 49 PP
SEVEN FALLS	107.49	349.0	18 43	777	25 13	13		26 48 S
MINERAL	107.68	27.7						18 48 PP
HALIFAX	108.28	343.2	18 52	777				
SHAWINIGAN	108.36	350.2	18 50	777				
RENO	109.10	26.9						18 54 PP
BERKELEY	109.44	29.6			26 22	81		18 56 PP
OTTAWA	109.90	352.1	18 31	777				18 55 PP
RAPID CITY	110.13	12.9	18 4	-23				14 59 P
SCOTT BASE	110.16	167.5						14 30
EUREKA	110.67	24.2	14 48	-220	26 9	65		19 7 PP
SALT LAKE C.	110.95	20.6						18 51 PP
TINEMAHA	111.86	27.2						19 43 PP
ISABELLA	112.95	28.1						19 24 PP
CHINA LAKE	113.19	27.4	15 4	-209				19 22 PP
BOULDER	113.51	15.9						18 40
PALISADES	113.95	349.8	18 39	5				19 49 PP
BOULDER CITY	114.17	25.2	18 36	1				15 31 P
SOUTH POLE	114.23	180.0	18 39	4				29 34 PKKP
PASADENA	114.36	28.8	19 2	27				19 42 PP
RIVERSIDE	114.84	28.3						19 47 PP
PHILADELPHIA	115.18	350.6			25 57	36		29 42 PPS
PITTSBURGH	115.25	354.7			25 59	38		
PALOMAR	115.61	28.2						19 40 PP
BARRETT	116.27	28.4						19 52 PP
WASHINGTON	116.47	352.0						20 4 PP
TUCSON	118.99	23.8	18 48	4				30 24 PS
FAYETTEVILLE	119.39	7.4	18 48	3				
CHAPEL HILL	119.64	353.3						18 8
BERMUDA	119.92	339.0						20 54 PP
LUBBOCK	120.48	15.1	18 50	3				
COLUMBIA	121.73	354.9	18 54	5				
BYRD STATION	122.49	173.5	17 55	-56				
SAN JUAN	133.19	333.4	19 10	-1				22 48 PKS
FORT FRANCE	134.05	325.2						22 41 SKP
TACUBAYA	134.69	17.3			26 25	6		20 10
MERIDA	134.83	4.5						18 37
VERA CRUZ	135.63	13.4			25 12	-68		
TRINIDAD	137.62	322.4	19 22	3				
BOGOTA	148.83	336.0	19 45	6	30 26	225		20 7 PKP2
CHINCHINA	149.05	339.1	19 45	6				23 36 SKP
LA PAZ	161.32	291.4	20 18	23				24 58 PP
HUANCAYO	163.96	317.9	20 5	7				24 49 PP

JULY 2 0.H 42.M 22.S EPICENTRE 36.21 52.72 DEPTH= 0.KM

A= 0.48990 B= 0.64350 C= 0.58813 D= 0.7957 E=-0.6057
G= 0.3563 H= 0.4680 K=-0.8088 HT= -0.3

SE= 2.14

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KIZYL-ARVAT	3.99	44.0	1 3K	-1				
LENKORAN	4.02	310.7	1 6	2				1 43
BAKU	4.72	332.8	1 18	4				6 44
ASHKABAD	4.83	67.2	1 18K	2				
SHEMAKHA	5.46	325.2	1 26	2				
GORIS	6.03	304.9	1 34	1	2 42	-1		2 4
NAKHICHEVAN	6.52	299.4	1 42	2	2 56	0		
KIROVOBAD	6.72	314.1	1 41	-1	2 53	-8		
EREVAN	7.59	304.0	1 55	1	3 19	-3		

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BAIRAM-ALI	7.66	76.8	1 57	2			
MAKHACH-KALA	7.86	330.8	1 57	-1	3 21	-8	
STEPANAVAN	8.09	308.8	2 4	3	3 38	3	2 55
TIFLIS	8.26	314.1	2 4	0	3 37	-2	
LENINAKAN	8.32	306.0	2 14	9	3 50	10	
AKHALKALAKI	8.88	308.5	2 14	2	3 54	0	
GROZNY	8.90	325.1	2 12	-1	3 44	-11	
BAKURIANA	9.04	310.4	2 17	2	4 0	2	2 58
BORZHOMI	9.18	310.5	2 17	0	4 0	-2	
ABASTUMANJ	9.48	308.7	2 23	2	4 11	2	4 28
GEGECHKORI	10.09	310.6	2 30	1	4 28	4	
PIATIGORSK	10.74	319.6	2 38	0	4 37	-3	
SOTCHI	12.39	310.4	3 2	2	5 20	-1	3 29
QUETTA	13.34	112.7	3 13A	0			3 24 PP
TASHKENT	13.89	63.4	3 17	-3			4 55
KSARA	14.01	265.1	3 21	-1	6 0	1	
GARM	14.22	73.4	3 22	-3			
TCHIMKENT	14.42	59.9	3 23	-4			3 45
JERUSALEM	15.17	258.1	3 39K	2	6 43	16	
KHOROG	15.18	79.6	3 36	-1			6 58
FERGANA	15.53	68.7	3 38	-4			6 52
NAMANGAN	15.56	66.4	3 39	-3			
WARSAK DAM	15.57	92.6	3 44	2			
KARACHI	16.04	126.2	3 57A	9	7 18	31	
ANDIJAN	16.04	67.6	3 45	-3			6 52
SIMFEROPOL	16.58	307.5	3 55	0	7 0	0	
FRUNSE	18.10	61.7	4 14	0			7 44
LAHORE	18.53	98.3	4 18A	-2	7 58	14	
NARYN	18.86	66.9	4 24	0			
HELWAN	19.00	256.7	4 25A	0	8 5	10	
ISTANBUL	19.08	291.9	4 24A	-2	7 43	-14	
RYBACHE	19.09	63.8	4 28	2			8 12
ILI	20.13	59.9	4 37	-1			
ALMATA-2	20.18	62.0	4 40	1			8 33
KISHINEV	20.79	308.7	4 44	-1	8 35	2	5 21 PP
SVERDLOVSK	21.31	12.0	4 50	0	8 45	2	
FOCSANI	21.40	304.2	4 53	2	8 59	14	6 1
IASI	21.66	308.3	4 54K	0	8 53	3	5 11 PP
BUCHAREST	21.82	300.3	4 57K	1	9 0	7	5 16 PP
BACAU	21.87	306.2	4 49	-7	8 52	-2	10 17
DEHRA DUN	21.95	98.2	4 56	-1	8 54	-1	5 20 PP
MOSCOW	22.07	336.9	5 1	3	9 0	3	
CAMPULUNG	22.76	302.0	5 8	3	9 21	11	7 1
ATHENS	23.16	283.1	5 9A	0	9 16	-1	
SOFIA	23.53	295.0	5 14	2	9 32	8	6 1 PP
SEMIPALATNSK	24.37	45.8	5 23	2	9 46	8	
BOMBAY	24.71	128.9	5 25	1	10 3	19	5 58 PP
LWOW	24.83	312.2	5 27	2	9 45	-1	
SKOPJE	24.89	293.0	5 24K	-2	9 54	7	5 53 PP
TIMISOARA	25.48	301.7	5 35	4	9 41	-16	5 57 PP
POONA	25.64	127.8	5 35A	2	10 3	3	6 13 PP
BELGRADE	25.86	299.4	5 37A	2	10 6	3	6 8 PP
SZEGED	26.32	302.5	5 41	2	10 10	-1	9 25 PCP
KECSKEMET	26.74	303.9	5 43	0	10 19	1	7 9 PPP
SKALNATE PL.	26.93	308.9	5 47	2	10 33	12	6 56
KALOCSA	27.15	302.8	5 48	1	10 38	14	12 20 SSS
BUDAPEST	27.27	304.9	5 49	1	10 30	4	6 26 PP
KRAKOW	27.39	310.6	5 48	-1			10 44
WARSAW	27.50	315.6	5 51	1	10 32	2	6 40 PP
PULKOVO	27.67	335.5	5 52	1	10 30	-3	
DABROWA	27.91	310.9	5 53	-1			
HURBANOVO	27.93	305.5	6 0	6	10 55	18	6 41
TARANTO	28.02	289.6	5 52	-3	10 42	4	
BYTOM	28.10	310.8	5 56	1			
ZABRZE	28.15	310.7	5 57	1			
RACIBORZ	28.46	310.0	5 59	0			6 55 PP
BRATISLAVA	28.71	305.8	6 0K	-1	10 55	5	7 50
ZAGREB	29.11	300.7					6 41
VIENNA-H.	29.21	305.7	6 6A	1	10 51	-7	7 6 PPP
HYDERABAD	29.47	122.6	6 6A	-2	11 3	1	6 57 PP
REGGIO CALA.	29.48	284.9	6 7A	-1	11 6	4	6 14
HELSINKI	29.86	332.1	6 11	0	11 8	0	
TRIESTE	30.65	300.1	6 16A	-2	11 21	1	7 19 PP
PRAGUE	30.82	308.8	6 19	-1	11 25	2	7 24 PP
BOKARO	31.04	104.2	6 22	0	11 33	7	7 26 PP
ROME	31.55	292.8	6 24A	-2	11 36	2	7 22 PP
COLLMBERG	31.97	310.7	6 29	-1	11 43	2	7 34 PP
CHEB	32.12	308.3	6 29	-2	11 47	4	7 39

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POTSDAM	32.18	312.7	6 32	0	11 50	6		7 27 PP
BOLOGNA	32.33	297.8	6 34A	1	11 55	8		
PLAUEN	32.34	309.1	6 32	-1	11 56	9		7 42
FLORENCE X.	32.39	296.4	6 30A	-3	11 52	4		7 28 PP
VIZIANAGRAM	32.55	115.4	6 34	-1				
HALLE	32.65	310.8	6 35	-1	11 56	4		9 33 PCP
UPPSALA	32.67	327.5	6 35A	-1	11 52	0		12 39
LHASA	32.70	90.4	6 37A	1	11 56	4		
JENA	32.77	309.7	6 36	-1	11 56	2		7 33
SONNEBERG	32.91	308.6	6 38	0	12 2	6		7 33 PP
LUND	33.08	318.7	6 39	0				
APATITY	33.26	346.6	6 41A	0	12 1	0		7 57 PP
COPENHAGEN	33.46	318.4	6 44A	1	12 8	4		7 47 PP
RAVENSBURG	33.64	303.7	6 44	0	11 54	-13		7 58 PP
CHUR	33.65	302.0	6 43	-1	12 5	-2		
CALCUTTA	33.70	104.0	6 54	9	12 26	18		9 37 PCP
MADRAS	33.81	126.1	6 45A	-1	12 14	4		8 3 PP
PAVIA	33.86	299.0	6 46A	0	12 19	9		8 5 PPP
STUTTGART	34.00	305.4	6 46A	-1	12 12	-1		8 7 PP
TUBINGEN	34.07	305.0	6 48	0				
EBINGEN	34.10	304.4	6 47A	-1	12 16	2		8 1 PP
KODAIKANAL	34.24	132.9	6 54	5	12 48	32		8 27 PP
HAMBURG	34.27	314.0	6 51A	1	12 21	4		8 8 PP
ZURICH	34.32	302.9	6 50	0	12 10	-8		7 37
KARLSRUHE	34.54	305.8	6 51A	-1	12 27	6		14 26 SS
SODANKYLA	34.57	342.5	6 52	0				
CUGLIERI	34.66	290.2						8 18 PP
OROPA	34.71	299.8	6 52	-1	12 34	10		12 17
YUMEN	34.76	69.6	6 54	0				
STRASBOURG	34.93	305.0	6 54	-1	12 26	-1		8 15 PP
BASLE	35.00	303.1	6 54A	-2				7 42
SHILLONG	35.02	96.5	6 55A	-1	12 27	-1		8 10 PP
MONACO	35.15	296.5	6 55A	-2	12 31	0		9 23 PCP
NEUCHATEL	35.42	302.2	6 58	-2	12 33	-2		7 57
BENSBERG	35.53	309.0	7 0A	-1	12 43	7		
BESANCON	36.08	302.6	7 4	-1				8 5 PP
KIRUNA	36.52	340.1	7 8A	-1	12 53	1		8 27 PP
SKALSTUGAN	36.74	331.0	7 10A	-1				8 29 PP
TOCKLAI	36.84	92.7	7 10A	-2				7 52
DE BILT	36.90	310.7	7 14A	2	13 1	4		8 15 PP
CLERMONT-FD.	38.10	300.2	7 22A	0	13 17	1		8 52 PP
PARIS	38.43	305.2	7 23A	-2	13 16	-5		8 48 PP
BERGEN	38.54	324.1	7 28A	2	13 25	3		8 55 PP
SINING	39.14	74.3	7 38	7				
BARCELONA	39.30	293.5	7 31	-1	13 31	-3		9 9 PP
IRKUTSK	39.41	49.3	7 33	0				
WUWEI	39.49	72.1	7 37	3				
ALGIERS UNI.	39.57	286.1	7 31	-3	13 36	-2		9 8 PP
KEW	40.27	309.4	7 40	0	13 49	1		9 17 PP
TORTOSA	40.62	292.9	7 41A	-2	13 52	-2		
LANCHOW	40.87	74.5	7 47	2				
DURHAM	41.16	314.4	7 46	-2	13 57	-5		9 28 PP
JERSEY	41.45	305.9	7 49	-1	14 8	2		13 41 PCS
ABERDEEN	41.66	318.0	7 50	-2	14 10	1		9 23 PP
RELIZANE	41.79	285.4	7 53A	0				8 41
ALICANTE	41.90	289.5	7 52	-2	14 16	3		
YINCHUAN	42.14	70.2	8 0	4				
EDINBURGH	42.15	316.0	7 55	-1	14 13	-3		9 36 PP
CHENGTU	42.76	82.1	8 1	0	14 27	2		
TAMANRASSET	42.81	265.1	8 0A	-1	14 19	-7		18 5 SCS
TIENSHUI	42.81	75.9	8 3	2				
PORT BLAIR	43.52	113.9	8 7	0	14 29	-7		
ALMERIA	43.82	288.0	8 8	-1	14 40	-1		9 50 PP
RATHFARNHAM	43.91	312.1	8 10A	0	14 45	3		9 56 PP
KUNMING	43.98	90.2	8 11A	0	14 41	-2		
TOLEDO	44.22	292.6	8 11A	-1	14 46	-1		9 58 PP
LWIRO	44.29	215.5	8 18A	5	14 51	3		
GRANADA	44.59	288.8	8 26K	10	14 51	-1		10 10 PP
MALAGA	45.34	288.4	8 17K	-4	14 55	-8		9 49 PCP
SIAN	45.40	75.2	8 22	0				
TATUNG	46.98	66.0	8 40	6				
TAIYUAN	47.12	69.2	8 37	1				
COIMBRA	47.39	294.3	8 36	-2	15 33	1		10 27 PP
LISBON	48.34	292.6	8 45A	0	15 46	1		10 36 PP
KWANTING	48.65	65.2	8 52	4				
PEKING	49.13	65.3	8 51A	0	15 53	-3		
AKUREYRI	49.81	329.2	8 52	-4	15 47	-19		19 51
SCORESBY SD.	51.26	335.4	9 8	1	16 32	6		11 7 PP

REYKJAVIK	51.49	327.3	9 10A	1			20 38 SS
TIKSI	51.74	23.1	9 10	-1	16 28	-5	
CANTON	53.47	86.5	9 24A	0	16 54	-2	
CHANGCHUN	54.48	58.0	9 30	-1	17 8	-2	
HONG KONG	54.56	86.8	9 30A	-2	17 14	3	
TANANARIVE	55.04	186.0	9 35K	-1	17 34	17	11 54 PP
LOME	55.74	250.3	9 38	-3	17 34	7	11 56 PP
ZO-SE	56.15	73.9	9 42A	-2	17 26	-6	
TAICHUNG	58.90	81.4	10 9	6			
TAINAN	59.09	82.8	10 4	0			
TAIPEI	59.15	80.1	10 9A	4	18 13	1	
ALISHAN	59.30	82.0	10 8	2			
ILAN	59.46	80.3	10 11	4	18 9	-7	
HWALIEN	59.74	81.1	10 9	0	18 18	-1	
TAWU	59.96	83.1	10 17	7			
TAITUNG	59.96	82.6					11 5
HSINKONG	59.97	82.1	10 12	2	18 28	6	
HENGCHUN	60.01	83.6	10 13	2	18 26	3	
TOMIE	61.31	69.0	10 21K	1	18 39	0	
ANGRA DO HO.	61.55	298.7	10 21	0	18 56	14	
HUKUOKA	62.12	67.3	10 24	-1	18 31	-19	11 9
SAGA	62.18	67.7	10 24	-1			
KUMAMOTO	62.67	68.0			19 0	3	11 30
HAMADA	62.75	65.3	10 28	-1	18 59	1	
BAGUIO CITY	62.76	89.1	10 29	0	19 2	4	
KAGOSIMA	63.13	69.3	10 32	0	18 49	-13	11 33
OOITA	63.18	67.2	10 31	-1	18 58	-5	14 35
MATSUE	63.24	64.4	10 32	0			
HIROSIMA	63.26	65.7	10 5	-28	19 2	-2	11 54
UGLEGORSK	63.31	47.4	10 32	-1	18 59	-6	
MAGADAN	63.37	34.3	10 31	-2			
YONAGO	63.45	64.3					26 34
MIYAZAKI	63.63	68.6	10 38	3	19 12	4	
IVIGTUT	63.86	328.0	10 38	1	19 10	-1	
KOTI	64.45	66.0	10 38	-2	19 19	0	
TAKAMATU	64.47	65.1	10 40	0	19 18	-1	
TOYOOKA	64.48	63.5	10 38	-3	19 17	-2	
Y.-SAKHLINSK	64.63	49.3	10 40	-2			
WAKKANAI	64.67	51.2	10 45	3	19 22	1	
SUTTSU	64.91	54.3	10 44	1			18 56
TOKUSIMA	64.98	65.1	10 45	1	19 26	1	
SUMOTO	65.07	64.7	10 39	-5	19 27	1	
WAZIMA	65.11	60.9	10 44	-1	19 27	0	
KOBE	65.13	64.2	10 44	-1	19 29	2	
HUKUI	65.28	62.4	10 43	-3			
MBOUR	65.34	270.1	10 45A	-1	19 32	2	13 12 PP
KYOTO	65.37	63.7	10 44A	-2	19 29	-1	
OSAKA	65.40	64.1	10 50	4			13 44
MORI	65.46	54.8	10 48	1	19 29	-2	13 10 PP
SAPPORO	65.52	53.6	10 48	1	19 19	-13	13 4 PP
TOYAMA	65.64	61.4	10 50	2	19 32	-1	
HAKODATE	65.70	55.1	10 50	2			
PRETORIA	65.83	204.2	10 48K	-1			
TOMAKOMAI	65.93	54.1	11 12	22			
GIHU	65.94	62.9	10 49	-1	19 36	-1	24 13
KAMEYAMA	65.99	63.5	10 53	3	19 35	-3	14 13 PP
SIOMISAKI	66.14	65.2	10 49	-2	19 41	2	
NAGOYA	66.20	63.0	10 49	-3			16 9
AKITA	66.24	57.3	10 51	-1	19 42	1	
NAGANO	66.36	61.0	10 53	0	19 43	1	
NIIGATA	66.37	59.5	11 7	14	19 48	6	12 53
MATUMOTO	66.40	61.5	10 55	2	19 40	-3	16 4
MATUSIRO	66.43	61.1	10 51A	-2	19 45	2	13 44 PP
OIWAKE	66.77	61.2	10 55	0	19 54	7	13 8
OBIHIRO	66.79	53.1	10 54	-1			
URAKAWA	66.89	54.0	10 59	3	19 36	-12	20 47
MORIOKA	66.98	56.9	10 55	-2	19 47	-3	
MAEBASI	67.11	60.9	10 55	-2	19 49	-2	12 2
KOHU	67.12	61.9	11 48	51	19 56	5	
MIZUSAWA	67.23	57.5	10 57	-1	19 51	-2	
TITIBU	67.32	61.3	10 58	-1			
SHIZUOKA	67.32	62.6	10 56	-3	19 53	-1	22 30
HUNATU	67.33	61.9	10 59	0			16 51
RESOLUTE	67.33	351.1	10 58A	-1	19 59	5	15 59
OMAESAKI	67.37	63.0	11 1	2	19 57	3	
HUKUSIMA	67.44	59.1	11 1	2	19 57	2	
KUMAGAYA	67.45	61.0	10 58	-2			20 22
SENDAI	67.48	58.4	10 58	-2	19 42	-14	
KUSIRO	67.54	52.5	11 0	0	19 56	0	

MIYAKO	67.55	56.6	10 59	-1	19 54	-2	
UTUNOMIYA	67.60	60.4	11 0	0	19 42	-15	
MISIMA	67.64	62.2	10 58	-3	20 0	2	
ISINOMAKI	67.69	58.1	11 1	0	19 55	-3	
TOKYO C.M.O.	67.94	61.3	11 5	2	20 6	5	11 53
KAKIOKA	67.97	60.6	11 2	-1	20 3	1	
YOKOHAMA	67.99	61.6	11 2	-1	20 6	4	11 42
MITO	68.10	60.4	11 1	-3			
NEMURO	68.12	51.8	11 3	-1	19 56	-7	
ONAHAMA	68.13	59.6	11 8	4	19 52	-11	11 55
MERA	68.37	62.0	11 3	-2	20 4	-2	
PIETERMZBURG	68.76	200.8	11 6A	-2			
KIMBERLEY	69.76	206.0	11 11K	-3			
PETROPAVLOVK	70.39	38.0	11 15	-3	20 26	-4	
GRAHAMSTOWN	73.36	202.7	11 34K	-1			
HERMANUS	76.90	207.9	11 54	-2	21 48	5	14 56 PP
COLLEGE	77.97	8.8	12 1A	-1	21 58	3	15 1 PP
KOROR	79.08	88.9	12 7A	-1	21 52	-15	
HALIFAX	81.05	319.6	12 18A	0	22 30	3	
SEVEN FALLS	82.85	325.0	12 27A	-1	22 50	4	15 29 PP
GUAM	83.79	78.0	12 29A	-3	22 28	-27	28 2 SS
SHAWINIGAN	84.17	325.6	12 32	-2	22 54	-5	15 48 PP
OTTAWA	86.38	326.4	12 45	0	23 14	-7	16 9 PP
WESTON	86.59	322.0	12 46A	0	23 8	-15	
SITKA	86.85	4.4	12 47K	-1	23 14	-11	16 3 PP
PALISADES	88.90	322.6	12 55A	-2	23 45	1	16 25 PP
FORDHAM	89.00	322.5	12 56	-2	23 29	-16	16 29 PP
BUFFALO L.	89.67	326.5	13 0	-1			
PERTH	89.93	130.7	13 2	0	25 2	68	16 38 PP
BERMUDA	90.08	311.3	13 6A	3	23 38	-17	16 30 PP
SASKATOON	90.20	347.4	12 59	-5	23 37	-19	
PHILADELPHIA	90.32	322.6	13 2	-2	23 32	-25	16 38 PP
PENNSYLVANIA	90.95	324.8	13 7	0	23 40	-23	16 48 PP
CLEVELAND	92.06	327.4	13 12A	0	23 44	-29	
WASHINGTON	92.07	323.1	13 12A	0	23 46	-27	16 56 PP
PITTSBURGH	92.20	325.8	13 15	2	23 51	-23	25 21
BANFF	92.38	352.6	13 14A	0			
MORGANTOWN	92.85	325.4	13 16A	0	23 52	-28	
TRUK	92.94	78.6	13 14A	-2	23 49	-31	16 54 PP
CHICAGO CGS.	94.31	331.4	13 23	1	25 49	77	19 7 PPP
HORSESHOE B.	94.71	357.4	13 24A	0	24 1	-35	24 38
HUNGRY HORSE	94.99	351.2	13 25A	-1			38 29 PKPPKP
CHAPEL HILL	95.38	322.5	13 27	0			
VICTORIA	95.58	357.4	13 31A	3	24 52	9	24 13 SKS
SEATTLE	96.40	356.6	13 33	1	24 15	-35	26 26 PS
BUTTE	97.08	349.7	13 35A	0	25 0	4	24 15 SKS
RAPID CITY	97.15	342.8	13 35K	0			38 18 PKPPKP
BOZEMAN	97.19	348.6	13 38A	2	24 12	-45	17 31 PP
COLUMBIA	97.89	322.7	13 40A	1	25 3	0	24 14 SKS
FLORISSANT	97.95	331.7	13 39A	0	24 15	-48	17 41 PP
ST. LOUIS 1	98.03	331.5	13 39A	0	24 17	-47	17 41 PP
ST. CLAUDE	99.21	297.5			25 33	19	27 52 PPS
CORVALLIS	99.51	357.1	13 46	0			
FORT FRANCE	99.67	296.2			24 31	-47	17 22
RABAUL	100.09	87.8					17 55 PP
SAN JUAN	100.73	302.2	13 50	-2	24 34	-52	17 58 PP
BOULDER	101.48	342.9					13 57
FAYETTEVILLE	101.77	333.1	13 56A	0			
SALT LAKE C.	102.10	348.1	13 58A	0	24 44	-54	18 12 PP
SHASTA	103.33	356.2	14 4	1			
MINERAL	103.64	355.5					18 10
EUREKA	103.97	351.0	14 8A	2			18 8 PP
RENO	104.31	354.0	14 9	2			18 24 PP
BERKELEY	106.15	355.9	14 17A	777	24 57	0	18 35 PP
LUBBOCK	106.62	338.0	14 18	777	25 0	2	18 49 PP
TINEMAHA	106.62	352.5	14 21	777			19 11
LICK	106.63	355.3	14 21	777			17 38
SANTA CLARA	106.64	355.6	18 47	777			29 20 PPS
FRESNO	107.06	353.7	14 20	777			
BOULDER CITY	107.25	349.4	14 21A	777			18 41 PP
CHINA LAKE	107.77	351.7	14 26	777			29 43 PKKP
ISABELLA	108.03	352.5					18 56 PP
PASADENA	109.49	352.0	14 31	777	25 14	-29	19 5 PP
RIVERSIDE	109.55	351.3	14 31	777			19 3 PP
HAYFIELD	109.60	349.7					19 8 PP
PALOMAR	110.12	350.7					19 10 PP
TUCSON	110.18	345.2	17 58	-32			15 6 P
BARRETT	110.75	350.4					19 12 PP

WILKES	111.27	158.4			27 1	104	19 9 PP
GALERAZAMBA	112.32	303.2					19 42 PP
CHIHUAHUA	112.49	339.9	18 24	-14	26 4	42	27 42 PS
MELBOURNE	112.60	121.0	18 43	5			26 32 SKKS
MERIDA	112.92	321.7					19 28 PP
RIVERVIEW	115.13	114.6					19 46 PP
HONOLULU	115.80	32.0			25 40	5	19 52 PP
BOGOTA	115.83	297.5	19 1	16			19 46 PP
BALBOA HTS.	116.52	305.2	18 44	-2			29 34 PS
CHINCHINA	116.69	299.0	18 46	0			19 53 PP
VERA CRUZ	117.51	326.6					20 4 PP
COMITAN	118.14	321.2					29 50 PS
TACUBAYA	118.64	329.6	19 20	30	27 49	124	25 51 SKS
LA PAZ	124.32	274.2	19 4K	3	26 14	10	20 45 PP
LA PLATA	124.71	249.3	19 26	24			20 44 PP
SOUTH POLE	126.02	180.0	19 8	4			
HUANCAYO	127.56	283.6	19 10	3			21 2 PP
ANTOFAGASTA	129.79	267.9					22 30 PKS
ROXBURGH	132.30	121.9					22 46 PKS
GEBBIES PASS	134.23	118.7	19 21	1			
WELLINGTON	135.24	114.9	19 23K	1			22 54 PKS
BYRD STATION	135.96	181.9	19 26K	3			22 6 PP

JULY 3 1.H 47.M 39.S EPICENTRE 51.69 159.02 DEPTH= 0.KM

A=-0.58118 B= 0.22282 C= 0.78267 D= 0.3580 E= 0.9337
G=-0.7308 H= 0.2802 K=-0.6224 HT= -6.0

SE= 3.17

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
PETROPAVLOVK	1.46	351.1	0 31A	4	0 54	7		0 46 *SP
KLYUCHI	4.75	11.8	1 29	15				1 46
MAGADAN	9.14	332.7	2 20	4	4 15	14		2 33 *SP
KURILSK	9.83	233.2	2 28	3	4 30	12		7 31
UGLEGORSK	11.14	263.1	2 47	4				2 59 *SP
Y.-SAKHLINSK	11.64	252.3	2 52K	2				3 4 *SP
MATUSIRO	21.15	232.4	4 48A	-1	8 45	5		
COLLEGE	29.88	43.3	6 17	6				
RESOLUTE	44.87	21.2			15 7	11		
HUNGRY HORSE	52.76	56.8	9 25	6				
APATITY	54.30	337.4						9 28
SODANKYLA	55.99	339.8	9 40	-2				
BOZEMAN	56.04	57.7	9 51	8				
KIRUNA	56.84	342.6	9 46A	-2				23 12
EUREKA	57.48	66.1	9 50	-3				
ISABELLA	58.64	71.0	9 59	-2				
CHINA LAKE	59.04	70.3	10 0	-4				10 18
PASADENA	59.87	72.1	10 10	1	18 29	8		
RIVERSIDE	60.45	71.7						10 21
BOULDER CITY	60.55	68.3	10 10	-4				
PALOMAR	61.21	71.8						10 34
SKALSTUGAN	62.15	343.9	10 25	0				
MOSCOW	62.48	327.0	10 25	-2				
UPPSALA	64.53	339.6	10 39A	-2				10 52
TUCSON	65.53	68.6	10 57	10				
QUETTA	68.16	291.2	11 2	-2				
TIFLIS	70.87	313.7	11 18A	-2				28 27 SSS
FAYETTEVILLE	71.74	54.7	11 22	-4				
LWOW	71.86	331.2	11 25	-1				11 38 *SP
HAMBURG	71.95	341.2	11 28	1				12 33
KRAKOW	72.84	333.8	11 30	-2				11 46 PCP
WITTEVEEN	73.30	342.9	11 34	-1				
COLLMBERG	73.43	338.5	11 33	-3				
JENA	74.10	339.3	11 39	-1				
PLAUEN	74.37	338.8						11 30
RATHFARNHAM	74.65	350.9						11 58
BENSBERG	74.98	342.0	11 44	-1				
BRATISLAVA	75.32	334.7	11 45	-2				
WESTON	76.63	35.9	11 51K	-3				
STUTTGART	76.65	340.0	11 53K	-1				12 2 PCP
STRASBOURG	77.13	340.9	11 56	-1	21 45	-1		
PARIS	77.89	344.4	11 59	-3				
BESANCON	78.76	341.6	12 5	-1				12 45
CLERMONT-FD.	80.72	343.2	12 17	1				
KSARA	81.36	315.2	12 20	0				

MONACO	81.82	339.6	12 22	0		
JERUSALEM	83.38	314.6	12 31	1		
BERMUDA	87.91	35.8			23 37	2
LA PAZ	128.83	64.5	19 7	-3		

JULY 3 6.H 2.M 39.S EPICENTRE -23.92-179.94 DEPTH= 517.KM

DEPTH OF FOCUS= 0.076R

A=-0.91515 B=-0.00101 C=-0.40312 D=-0.0011 E= 1.0000
G= 0.4031 H= 0.0004 K=-0.9151 HT= 3.7

SE= 1.67

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
SUVA	5.94	344.8			3 1	6		
NOUMEA	12.63	274.6	2 51	5	5 9	10		3 29 PP
APIA	12.68	38.9	2 44	-3	4 56	-4		
TUAI	15.04	188.8	3 10	-1	5 43	-1		
WELLINGTON	17.87	193.1	3 37	-1	6 33	-1		
COBB RIVER	18.18	198.0			6 38	-2		
KAIMATA	19.89	199.1			7 7	-2		
BRISBANE	24.60	256.0	4 40	-1				4 55
RIVERVIEW	27.10	242.1	5 4A	1	9 5	0		11 33
MELBOURNE	32.95	236.8	5 52K	-1				
TRUK	41.62	315.1	7 4	0				11 51 SCP
MADANG	44.22	306.5	6 33	-51				
TERRE ADELIE	49.22	199.0	8 2	0	14 30	1		
GUAM	50.71	313.4	8 9	-5				
KOROR	54.25	299.2	8 38	-1			10 40	
SCOTT BASE	54.37	183.4	8 40	0				
BYRD STATION	61.59	170.1	9 31	2			11 18	
SOUTH POLE	66.23	180.0	9 56	-2			11 44	
MIRNY	67.16	205.7	10 2	-2				
BAGUIO CITY	70.56	298.7	10 24	0				
MATUSIRO	71.94	325.6	10 31K	-1	19 12	0		
HONG KONG	78.81	300.5	11 11	1				
BERKELEY	81.90	42.5	11 27A	1				
LICK	81.96	43.2	11 27A	1				
PASADENA	82.31	47.5	11 29A	1	21 9	8	13 25	14 46
BARRETT	82.50	49.4	11 27A	-2			13 21	
PALOMAR	82.75	48.8	11 32A	2			13 22	14 48
RIVERSIDE	82.75	48.0	11 31A	1			13 29	14 49
FRESNO	82.78	44.6	11 31A	0				
ISABELLA	82.99	46.1	11 33	1			13 28	
SHASTA	83.60	40.2	11 35A	0				
CHINA LAKE	83.66	46.4	11 35A	0			13 30	
TINEMAHA	83.97	45.1	11 38A	2	21 23	6		
RENO	84.44	42.4	11 39A	0				
BOULDER CITY	85.60	47.6	11 45	1			13 41	
TUCSON	86.42	52.5	11 50	2			13 46	
EUREKA	86.81	44.1	11 50	0			13 47	15 22 PP
COLLEGE	91.92	13.1	12 12	-2			14 10	
BUTTE	92.51	40.1					14 14	17 5 *PPP
HUNGRY HORSE	92.93	37.6			22 1	-37		16 7 PP
RAPID CITY	97.36	45.0						16 37 PP
SHILLONG	98.45	294.1	12 44K	0				
FAYETTEVILLE	100.45	55.2						17 5 PP
QUETTA	120.84	291.9	17 54K	1				
KIMBERLEY	122.48	205.8	17 58A	2				
APATITY	131.74	343.6						18 13
SODANKYLA	133.51	346.2	18 3	-14				20 56 SKP
KIRUNA	134.31	349.4	18 9	-10				20 59 SKP
TIFLIS	138.93	306.7	18 29	2				
SKALSTUGAN	139.52	351.6	18 20	-9				21 14 SKP
UPPSALA	142.04	345.7	18 28K	-6				19 3
SIMFEROPOL	145.31	315.7	18 41	2				
LUND	146.81	346.4	18 44	3				
COPENHAGEN	146.98	347.1	18 45K	4				
KSARA	147.26	295.7	18 46	4			20 47	21 22 *SP
JERUSALEM	148.05	292.1	18 49	6				
LWOW	148.08	330.2						18 48
DURHAM	149.16	1.9	18 49K	4				
HAMBURG	149.46	348.3	18 52	7				
KRAKOW	149.66	334.3						18 51

RATHFARNHAM	150.27	7.7	18 51K	5				19 0 PKP2
RACIBORZ	150.30	336.1						18 53
WITTEVEEN	150.70	351.8	18 54	7				
HALLE	150.98	344.6						18 43
JENA	151.59	344.6	18 55	7				
BRATISLAVA	152.28	335.1	18 50	1			21 0	19 9 PKP2
BENSBERG	152.45	350.3	18 57	7				
STUTTGART	154.17	346.0	18 52A	0				
STRASBOURG	154.64	348.0	19 3A	10				19 20
BESANCON	156.24	350.0						19 26 PKP2
MONACO	159.33	344.7						19 40 PKP2
TAMANRASSET	174.86	258.4	19 11K	1			21 1	24 41 PP

JULY 3 12.H 24.M 38.S EPICENTRE 50.17-179.12 DEPTH= 0.KM

A=-0.64295 B=-0.00985 C= 0.76584 D=-0.0153 E= 0.9999
G=-0.7658 H=-0.0117 K=-0.6430 HT= -5.5

SE= 2.35

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
PETROPAVLOVK	14.10	290.7	3 24	1	6 4	3		
MAGADAN	19.53	310.2	4 32	1	8 16	9		
COLLEGE	22.01	36.3	4 54	-3	8 54	-2		12 32 PCS
Y.-SAKHLINSK	25.27	277.5	5 30	1				
SITKA	26.49	58.0	5 40	-1	10 15	1		9 4 PCP
TIKSI	31.59	331.5	6 28	2				
HONOLULU	33.25	142.4	6 42	1				
MATUSIRO	33.40	262.5	6 41K	-1	12 7	4		9 23 PCP
HORSESHOE B.	35.35	69.2	7 0K	1				9 30
VICTORIA	35.61	70.6	7 3	2				9 32
KYOTO	35.93	262.6	7 4K	0	12 50	8		
SEATTLE	36.66	71.4	7 13A	3				
CORVALLIS	37.45	76.5	7 19	2				
CHANGCHUN	37.66	282.3	7 16	-2				
SHASTA	40.03	81.2	7 37	-1				
UKIAH	40.38	83.8	7 42	1				
MINERAL	40.73	81.1	7 45	1				
RESOLUTE	40.93	23.8	7 45K	-1	13 42	-16		9 23 PP
HUNGRY HORSE	41.31	66.4	7 47	-2				9 48 PCP
BERKELEY	41.73	84.7	7 54	2	14 14	4		9 50
SANTA CLARA	42.23	85.1	7 58	2	14 34	17		
RENO	42.32	81.0	7 59K	2				
LICK	42.44	84.9	8 0K	2				8 16
BUTTE	43.32	68.7	8 5	0	14 12	-21		9 54 PCP
FRESNO	43.95	84.3	8 12	2				
BOZEMAN	44.41	68.4	8 17	3				9 41 PP
TINEMAHA	44.78	82.8	8 16	-1				10 2 PCP
EUREKA	44.79	78.6	8 15	-2				
PEKING	45.45	283.0	8 22	0	15 8	4		
ISABELLA	45.48	84.6	8 21K	-2				8 37
IRKUTSK	45.89	303.7	8 26	0	15 13	2		
CHINA LAKE	45.94	83.8	8 25	-1				10 2 PCP
SALT LAKE C.	46.62	74.6	8 33	1				10 7 PCP
PASADENA	46.62	86.0	8 32K	0	15 16	-5		10 30 PP
GUAM	46.96	231.7	8 33	-1	14 46	-40		
RIVERSIDE	47.23	85.6	8 35K	-1				8 55
BOULDER CITY	47.61	81.7	8 37	-2				10 9 PP
ZO-SE	47.78	269.9	8 42K	1	15 41	4		
PALOMAR	47.97	85.9	8 40	-2				
BARRETT	48.52	86.4	8 44	-2				8 59
NANKING	48.69	272.7	8 48K	0	15 54	4		
TRUK	48.97	219.6	8 50	0				
RAPID CITY	49.94	66.0	8 52	-5				10 14 PCP
TUCSON	52.54	82.7	9 14	-3				
LANCHOW	55.55	286.8	9 38	-1				
LUBBOCK	57.32	75.3	9 51	-1				
KOROR	57.52	238.4	9 48	-5				
HONG KONG	58.37	267.5	10 1	2				
CANTON	58.39	268.8	10 1	2	18 7	5		
SCORESBY SD.	58.53	8.8	9 51	-9	18 4	1		
BAGUIO CITY	58.61	257.6	10 0	-1				
CHENGTU	59.04	281.9	10 1	-3				
SEMIPALATNSK	59.16	312.9	10 2	-3	18 11	-1		
RABAUL	59.55	213.8	10 7	0				
APATITY	60.07	346.2	10 10K	-1	18 19	-4		12 24 PP

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FAYETTEVILLE	60.32	68.2	10 9K	-4			10 55 PCP
SODANKYLA	61.18	348.9	10 16	-3	18 34	-4	39 29 PKPPKP
KIRUNA	61.41	351.7	10 17	-3	18 36	-4	
SVERDLOVSK	62.50	327.6	10 30	3	18 54	0	
KUNMING	63.78	278.2	10 35K	-1	19 8	-2	
CLEVELAND	63.80	56.1	10 36K	0	19 15	4	
OTTAWA	63.99	49.7	10 34	-3	19 15	2	
REYKJAVIK	64.65	10.8	10 42K	0			
SEVEN FALLS	65.06	45.6	10 51K	7	19 31	5	14 54 PPP
PENNSYLVANIA	66.22	54.5	10 54	2	19 46	6	
SKALSTUGAN	66.24	354.5	10 49	-3			
LHASA	67.80	289.9	11 2	0	20 2	2	
PULKOVO	67.84	344.4	11 2	0	20 1	1	
WASHINGTON	68.03	55.4	11 3	0			12 1
PALISADES	68.10	51.9	11 0A	-4	19 59	-4	20 33 SCS
PHILADELPHIA	68.25	53.4			20 12	7	
WESTON	68.37	49.4	11 2A	-3			
TACUBAYA	68.96	84.7	11 11	2	19 35	-38	13 44 PP
CHAPEL HILL	69.14	58.8					12 9
COLUMBIA	69.45	61.5	11 12	0	20 20	1	
UPPSALA	69.50	351.1	11 9	-3	20 16	-4	39 14 PKPPKP
NAMANGAN	70.12	310.5	11 14	-2	20 27	0	
MOSCOW	70.12	338.9	11 17	1	20 30	3	
SHILLONG	70.20	286.3	11 13K	-3			
HALIFAX	70.23	43.2			20 28	0	
ABERDEEN	73.00	1.7	11 35	2	21 2	2	39 22
LUND	74.00	352.8	11 41	2			
COPENHAGEN	74.08	353.2	11 40K	0	21 16	4	14 22 PP
DEHRA DUN	74.86	299.1	11 46	2	21 33	12	
DURHAM	75.41	1.5	11 47K	0	21 27	0	12 5 PCP
WARSAK DAM	75.55	305.9	11 48	0			
LAHORE	75.97	302.5	11 48K	-2	21 34	1	11 59 PCP
HAMBURG	76.35	354.4	11 55	2	21 41	4	
WARSAW	76.55	347.4	11 56	2			16 34 PPP
RATHFARNHAM	76.73	4.4	11 54A	-1			
WITTEVEEN	77.27	356.4	12 0K	2			
DE BILT	78.04	357.3	12 4	2	22 2	6	
HALLE	78.27	353.0	12 4	1	22 0	2	
COLLMBERG	78.38	352.3	12 0	-4			14 43 PP
LWOW	78.43	344.9	12 5	1	22 3	3	
KEW	78.73	0.8	12 7	1	22 4	1	26 52 SS
KRAKOW	78.84	347.6	12 6	0	22 3	-1	12 12 PCP
JENA	78.86	353.1	12 5	-1			
RACIBORZ	79.03	348.7	12 8	1	22 9	3	
PLAUEN	79.25	352.7	12 7	-1			12 23
BERMUDA	79.45	51.6	12 18	8	22 13	2	15 18 PP
PRAGUE	79.47	351.2	12 10	0	22 7	-4	15 18 PP
KISHINEV	80.22	341.0	12 13	-1	22 19	0	
IASI	80.30	341.9	13 15	61	22 23	3	
SOTCHI	80.67	332.5	12 17	1	22 23	0	
TIFLIS	80.73	328.3	12 18	2	22 28	4	
SIMFEROPOL	80.95	336.8	12 18	0	22 28	2	
QUETTA	80.95	306.7	12 17K	-1	22 28	2	15 23 PP
BRATISLAVA	81.05	349.1	11 50	-28			12 30
BRISBANE	81.16	204.8	12 19	0			12 32
STUTTGART	81.18	354.4	12 16	-3	22 27	-2	15 14 PP
PARIS	81.39	358.9	12 22	2	22 32	1	15 20 PP
TUBINGEN	81.43	354.5	12 21	1			
STRASBOURG	81.45	355.4	12 21	1	22 38	7	15 32 PP
EBINGEN	81.78	354.5	12 20	-2			
BASLE	82.51	355.4	12 26	0	22 54	12	
CAMPULUNG	82.65	343.1	12 32	6	22 55	11	
TIMISOARA	82.84	345.8	12 31	4	23 0	14	
BESANCON	82.86	356.5	12 28	0			13 9
NEUCHATEL	83.07	355.8	12 29	0	22 54	6	
BUCHAREST	83.26	342.1	12 30A	0	22 54	4	
BELGRADE	83.87	346.1	12 36A	3	22 59	3	24 0 PPS
TRIESTE	83.91	351.0	12 33	0	22 58	2	28 47 SS
KARACHI	84.40	304.1	12 37	2			
CLERMONT-FD.	84.42	358.4	12 36	1	23 9	8	
HYDERABAD	84.50	290.5			23 7	5	
PAVIA	84.76	354.1	12 41	4	23 7	2	15 54 PP
FLORENCE X.	85.99	352.5	12 42K	-1	23 29	12	13 41
POONA	86.37	294.6	12 47	2			
RIVERVIEW	87.68	204.4	12 56A	4			24 46 PS
ROME	87.75	351.4	12 54A	2	23 28	-5	23 52 SCS
SAN JUAN	89.92	60.9	13 0	-2			
TOLEDO	90.22	3.8	13 4K	0			

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KSARA	90.82	331.5	13 4	-2	24 3	1	16 41 PP
MESSINA	91.06	348.5	13 8	1	23 56	-8	16 32 PP
ALICANTE	91.85	1.1	13 9	-2	24 7	-4	30 17 SS
GRANADA	92.93	3.6	13 18K	2			
MALAGA	93.36	4.2	13 18A	0	24 36	12	17 8 PP
ALGIERS UNI.	93.41	358.3	13 10	-8	24 2	-22	16 49 PP
TAMANRASSET	107.26	355.5	14 22	777	25 5	53	18 46 PP
SCOTT BASE	128.05	183.8	19 8	0			
BYRD STATION	134.21	167.9	19 20	0			
SOUTH POLE	139.98	180.0	19 24	-6			
PRETORIA	147.80	309.1	19 45	1			
PIETERMZBURG	149.75	301.6	19 37	-10			
KIMBERLEY	151.97	310.8	19 52	2			
GRAHAMSTOWN	154.67	301.9	20 5	11			

JULY 4 8.H 28.M 59.S EPICENTRE -3.98 102.45 DEPTH= 63.KM

DEPTH OF FOCUS= 0.005R

A=-0.21506 B= 0.97416 C=-0.06902 D= 0.9765 E= 0.2156
G= 0.0149 H=-0.0674 K=-0.9976 HT= 7.1

SE= 1.93

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
DJAKARTA	4.88	116.7	1 13	0	2 8	-1		
COLOMBO	25.00	295.6	5 22	3	9 22	-14		
BAGUIO CITY	27.06	41.0	5 40	1				
HONG KONG	28.53	23.2	5 55K	3			6 16	
KUNMING	28.86	0.4	5 57A	2				
SHILLONG	31.12	341.3	6 15A	0				
KOROR	33.88	70.7	6 35	-4	11 56	-2		12 8 *SS
CHENGTU	34.48	2.4	6 41A	-3				
LHASA	35.20	342.6	6 51	1				
POONA	35.98	309.4	6 58	1				
TIENSHUI	38.48	4.4	7 17	-1				
NANKING	39.06	22.3	7 24	2	13 22	5		
LANCHOW	39.87	1.7	7 32A	3	13 33	4		
LINFEN	40.77	11.3	8 3	26				
DEHRA DUN	41.33	327.3	7 38	-3				
YINCHUAN	42.39	4.5	7 51	1				
LAHORE	44.34	324.8	8 4A	-2	14 23	-12	8 23	
TATUNG	44.98	11.8	8 10	-1				
KARACHI	45.34	312.8	8 10	-4	14 45	-4	8 30	
PEKING	45.58	14.8	8 17A	1				
WARSAK DAM	47.72	324.8	8 33	1				
QUETTA	48.03	317.4	8 34A	-1	15 22	-5	8 54	10 32 PP
KYOTO	49.83	36.1	8 49A	0				
MELBOURNE	51.36	136.8						9 1
CHANGCHUN	51.85	20.9	9 3A	-1				
MATUSIRO	52.35	36.5	9 7A	-1	16 29	2	9 43	10 18 PCP
NAMANGAN	52.85	330.9	9 12	0	16 36	2		
TUKUBASAN	53.27	38.1	9 12A	-3	14 14	-145		
BRISBANE	53.52	121.4	9 16	-1				9 32
RIVERVIEW	54.10	129.5	9 22A	1				
IRKUTSK	56.06	1.4	9 36	1	17 23	6		
SEMIPALATNSK	57.45	343.3	9 43	-2				
Y.-SAKHLINSK	61.89	30.1	10 16	1				
TERRE ADELIE	68.25	164.5	10 51	-5				
TIFLIS	69.28	317.5	11 2	-1	20 4	1		
SVERDLOVSK	69.45	337.0	11 4	0				
JERUSALEM	72.98	304.8	11 26K	1			11 46	
KSARA	73.02	307.0	11 23	-2			11 44	14 11 PP
SOTCHI	73.45	317.6	11 26	-2	20 50	-1		
LWIRO	73.54	268.8	11 27	-1				11 44
MAGADAN	73.84	23.3	11 30	0	19 43	-72		
PRETORIA	74.11	244.5	11 30	-1				
GRAHAMSTOWN	76.02	236.8	11 44	2				
KIMBERLEY	77.28	241.6	11 48	-1				
SIMFEROPOL	77.70	317.5	11 51	-1	21 35	-2		
MOSCOW	79.44	328.6	12 2	1	21 56	0		
SCOTT BASE	80.85	168.9	12 18	9				
IASI	82.71	318.4	12 19	1	22 56	27		12 27
BACAU	83.00	317.7	12 6	-14				
BUCHAREST	83.07	315.5	12 20	0	22 34	1	12 40	23 3

PULKOVO	84.53	331.1	12 28	0	22 47	-1		
LWOW	85.58	320.5	12 33	0				
APATITY	85.79	338.9	12 33A	-1	23 2	2		17 51 PPP
SOUTH POLE	86.04	180.0	12 35	0				12 50
HELSINKI	87.23	330.7	12 40	-1			13 8	16 6 PP
KRAKOW	88.23	320.2	12 45	-1				16 13 PP
RACIBORZ	89.33	320.1	12 53	2	23 39	6		
BRATISLAVA	89.84	318.1	12 53	0	23 50	12		16 17
MESSINA	90.00	308.1	12 55	1	23 42	3	13 10	29 52 SS
KIRUNA	90.65	337.9	12 57A	0	23 44	-1	13 9	16 34 PP
UPPSALA	90.81	329.8	12 57A	-1			13 13	16 32 PP
PRAGUE	91.75	319.9	13 6	4				16 38 PP
BYRD STATION	93.52	173.3	13 11	1				13 25
JENA	93.61	320.7	13 11	0				16 46 PP
SKALSTUGAN	93.61	333.4	13 10A	-1				16 57 PP
STUTTGART	95.12	318.5	13 17	-1				
EBINGEN	95.27	317.9	13 18	0				
TAMANRASSET	97.91	292.3	13 32	2				17 32 PP
COLLEGE	101.90	24.3	13 47	-1				
SHASTA	125.64	41.3	18 56	2				
HUNGRY HORSE	125.91	29.3	18 56	1				
MINERAL	126.34	41.3	18 58	3				
BERKELEY	127.11	44.3	19 0	3				
RENO	127.93	41.2	19 1	2				
BUTTE	128.23	30.6	19 2	2				21 13 PP
BOZEMAN	129.24	30.0	19 5	3				19 23
FRESNO	129.35	44.3	19 4	2				
TINEMAHA	130.29	43.1	19 8	4				22 25 SKP
EUREKA	130.44	39.2	19 6	2				19 22
ISABELLA	130.84	44.8	19 5	0				22 30 SKP
PASADENA	131.80	46.4	19 9	3				21 11 PP
SALT LAKE C.	132.13	35.2	19 19	12				22 30 SKP
RIVERSIDE	132.45	46.2	19 8	0				22 31 SKP
PALOMAR	133.15	46.6	19 11	2				22 35
BOULDER CITY	133.17	42.3	19 12	3				22 35 SKP
BARRETT	133.62	47.3	19 12	2				22 37 SKP
RAPID CITY	134.11	25.8	19 7	-4				22 39 SKP
BOULDER	136.23	31.1	19 17	3				
SEVEN FALLS	136.64	353.3	19 17	2				
SHAWINIGAN	137.40	355.1	19 17K	0				22 3 PP
TUCSON	138.02	44.0	19 11	-7				22 51 PKS
LUBBOCK	142.85	34.7	19 27	0				23 4 PP
PALISADES	142.99	355.4	19 17	-10				22 36 PP
MORGANTOWN	144.45	3.2	19 30A	1				22 43 PP
FAYETTEVILLE	144.56	23.6	19 30A	0	25 44	-46		19 42 PP
WASHINGTON	145.24	359.3	19 32	1				19 48
CHAPEL HILL	148.19	2.3	19 37	2				
COLUMBIA	149.96	5.8	19 40	2				21 12
LA PAZ	157.62	204.4	19 53K	4				20 41 PKP2
SAN JUAN	161.84	322.9	19 55	1				
HUANCAYO	163.92	187.9	20 0	4				32 1

JULY 5 12.H 34.M 5.S EPICENTRE -30.78-178.14 DEPTH= 124.KM

DEPTH OF FOCUS= 0.014R

A=-0.86018 B=-0.02796 C=-0.50922 D=-0.0325 E= 0.9995
G= 0.5089 H= 0.0165 K=-0.8606 HT= 1.6

SE= 1.53

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
ONERAHI	8.00	229.6	1 55	0				
AUCKLAND	8.45	222.2	2 36	36	4 20	45		
TUAI	8.89	204.5	2 3	-3	3 36	-9		
WELLINGTON	11.94	206.7			4 48	-10		2 46
COBB RIVER	12.65	213.2			4 57	-18		
KAIMATA	14.39	212.6			5 43	-12		
GEBBIES PASS	14.82	207.0	3 21	-3	5 49	-16		
APIA	17.89	20.5	3 56	-6				
RIVERVIEW	26.09	255.2	5 25A	1				10 33
MELBOURNE	31.13	246.9	6 8	-1				
RABAUL	38.49	307.5	7 15	4				
TERRE ADELIE	43.38	202.0	7 54	3				
SCOTT BASE	47.65	184.3	9 27	62				
SOUTH POLE	59.39	180.0	9 52	1				

MIRNY	61.74	207.0	10 6	-1				
MATUSIRO	78.49	325.4	11 45A	-4	21 39	6		22 34 SCS
KYOTO	78.54	322.9	11 48A	-1				
SANTA CLARA	85.75	41.6	12 22	-4	22 46	-1		
BARRETT	85.81	48.0	12 26	0			12 36	
PASADENA	85.83	46.0	12 27	1	23 1	14		28 37 SS
LICK	85.92	41.8	12 27	0				
BERKELEY	85.94	41.1	12 27	0				23 3
PALOMAR	86.13	47.4	12 28	0			12 39	
RIVERSIDE	86.22	46.6	12 28	0				12 44
ISABELLA	86.65	44.8	12 31A	1			12 42	12 47
CHINA LAKE	87.29	45.1	12 34A	1			12 45	12 50
TINEMAHA	87.73	43.8	12 35	-1			12 44	12 51
SHASTA	87.85	39.0	12 35A	-1				
MINERAL	88.04	39.6	12 36	-1				
RENO	88.48	41.2	12 39	0				
BOULDER CITY	89.10	46.4	12 42	0				
TUCSON	89.37	51.4	12 44	1				
EUREKA	90.66	43.2	12 49	0				
SEATTLE	92.78	34.1						15 6
KIMBERLEY	116.90	202.5	18 32	2				
QUETTA	124.65	287.3	18 38	-7				18 46 PKP2
SCORESBY SD.	138.10	11.7						22 49 PKS
LWIRO	138.32	222.9	19 17K	7				
KIRUNA	141.33	348.8	19 8	-8				22 45 PKS
TIFLIS	144.03	299.8	19 20	-1				
MOSCOW	144.58	325.2	19 21	-1				
PULKOVO	145.29	334.9	19 22	-1				
SKALSTUGAN	146.52	351.6	19 26A	1				
HELSINKI	146.80	339.0	19 26	1				
UPPSALA	149.06	344.5	19 32A	3				
KSARA	151.16	285.1	19 35	3				23 15 PP
WARSAW	154.36	332.2	19 37	0				19 50 PKP2
COLLMBERG	157.90	341.2	19 44	3				
STUTTGART	161.19	344.8	19 45	0				
MONACO	166.34	342.7						20 52 PKP2
MALAGA	172.11	39.7	19 55A	2				25 11 PP
GRANADA	172.17	33.9						25 1 PP

JULY 5 15.H 32.M 8.S EPICENTRE -1.88 26.77 DEPTH= 0.KM

A= 0.89238 B= 0.45011 C=-0.03254 D= 0.4504 E=-0.8929
G=-0.0291 H=-0.0147 K=-0.9995 HT= 7.2

SE= 2.52

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
LWIRO	2.07	100.4	0 35	0	1 3	2		
PRETORIA	23.77	176.8	5 10	-3				
TANANARIVE	26.48	131.1	5 43	5	9 53	-17		6 31 PP
LOME	26.72	287.5	5 45	4	10 15	1		6 18
KIMBERLEY	26.79	183.9	5 39K	-2				
PIETERMZBURG	27.81	173.2	5 49	-1				
GRAHAMSTOWN	31.28	180.3	6 20	-1				
TAMANRASSET	32.09	321.0	6 28A	-1	11 37	-2		7 38 PP
HERMANUS	33.13	191.4						14 52
KSARA	36.53	12.8	7 9	2	12 57	9		8 27 PP
MESSINA	41.20	346.5						17 6
TARANTO	43.03	349.3	7 37	-24				17 17 SS
ALGIERS UNI.	44.33	332.5	8 10	-1	14 43	-1		10 2 PP
RELIZANE	44.73	329.3	8 14	0				
ROME	45.46	345.0	8 19A	-1	14 56	-4	8 24	10 45 PPP
BUCHAREST	46.10	359.3	8 24A	-1	15 17	7	8 30	
MBOUR	46.23	291.9	8 27K	1				10 18 PP
TIFLIS	46.38	18.7	8 27	0	15 15	1		
BELGRADE	46.83	353.8	8 27K	-4				8 56
SIMFEROPOL	47.08	7.1	8 32	-1	15 21	-3		
ALICANTE	47.27	330.7	8 36	2	15 50	24		11 44 PPP
FLORENCE X.	47.54	344.8	8 14	-23	15 9	-21		10 29 PPP
GRANADA	48.00	327.1	8 48	8	15 30	-7		19 17 SS
MAKHACH-KALA	48.39	20.3	8 43	0				
MONACO	48.60	341.3	8 44K	-1				10 59 PPP
KISHINEV	48.73	1.9	8 44	-2	15 43	-4		
IASI	48.88	0.7	8 46	-1	15 53	4		13 9
QUETTA	49.84	47.0	8 55K	1				

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TOLEDO	50.23	329.1	8 57	0	15 43	-25		
BRATISLAVA	50.55	351.6	8 58	-2	16 7	-5		
CHUR	50.84	344.8	9 1	-1				
NEUCHATEL	51.69	342.8	9 11	3				
CLERMONT-FD.	51.86	339.1	9 10	0				
BASLE	51.99	343.6			16 20	-12		8 35
KRAKOW	52.06	354.4	9 8	-3	16 26	-7		
BESANCON	52.21	342.2	9 12	0				10 30 PCP
EBINGEN	52.21	345.0	9 10	-2				
RACIBORZ	52.28	353.0	9 1	-12	16 25	-11		
TUBINGEN	52.51	345.2	9 12	-3				
STUTTGART	52.70	345.5	9 14K	-2	16 36	-6		19 5 SCS
PRAGUE	52.82	350.0	9 19	2	16 57	14		11 15 PP
STRASBOURG	52.90	344.3	9 22	5	16 46	2		20 22 SS
PLAUEN	53.66	348.5	9 22	-1	17 2	7		11 18
WARSAW	54.13	355.6	9 29	2	16 58	-3		21 33
JENA	54.18	348.2	9 24	-3	17 6	4		11 16 PP
COLLMBERG	54.26	349.4	9 24	-4				
HALLE	54.65	348.7	9 33	3				11 23
PARIS	54.70	340.5	9 34	3	17 4	-5		22 52 SSS
BENSBERG	55.23	345.0	9 33	-2				9 39
POTSDAM	55.28	349.8	9 33	-2	17 15	-2		
HAMBURG	57.00	348.1	9 45	-2				
WITTEVEEN	57.06	345.6	9 47	-1				
MOSCOW	58.10	7.2	9 53	-2	17 53	-1		
COPENHAGEN	58.55	350.6	10 3A	5	18 0	0		
NAMANGAN	59.02	38.6	10 5	4				
DURHAM	61.11	341.7	10 18	2				
PULKOVO	61.53	2.0	10 21	2				
HELSINKI	61.88	359.0	10 19	-2				10 46 PCP
UPPSALA	61.96	354.8	10 19	-3	18 39	-5	10 23	
SVERDLOVSK	64.59	19.8	11 21	42				
SKALSTUGAN	66.18	353.0	10 47	-2			10 52	
SHILLONG	68.53	61.7	11 2	-2				
SEMIPALATNSK	69.17	33.4	11 12	4				
APATITY	69.44	2.7	11 8	-1	20 15	0		
KIRUNA	69.70	357.4	11 10	-1	20 15	-3	11 14	
SCORESBY SD.	78.99	345.1	12 11	6				
SOUTH POLE	88.14	180.0	12 53	2				
COLLEGE	117.02	357.4	19 16	32				
EUREKA	129.51	322.6	19 12	4				22 35 PP
ISABELLA	133.43	320.2						19 38

JULY 7 5.H 58.M 49.S EPICENTRE 39.20 40.34 DEPTH= 0.KM

A= 0.59220 B= 0.50301 C= 0.62951 D= 0.6474 E=-0.7622
G= 0.4798 H= 0.4075 K=-0.7770 HT= -1.4

SE= 2.00

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
LENINAKAN	3.12	58.6	0 52	0				
ABASTUMANJ	3.17	35.9	0 54	2	1 40	8		1 22
AKHALKALAKI	3.25	46.5	0 53	0	1 38	4		1 27
EREVAN	3.35	71.8	0 56	1	1 41	5		1 19
BAKURIANA	3.50	42.8	0 57	0	1 45	5		
ZUGDIDI	3.51	18.9	0 57	0	1 45	5		2 6
STEPANAVAN	3.58	58.6	0 57	-1	1 45	3		1 12
NAKHICHEVAN	3.93	88.5	1 2	-1	1 52	1		1 12
GORI	3.99	44.8	1 6	2	1 57	4		1 28
TIFLIS	4.23	52.1	1 7	0	2 1	2		1 18
SOTCHI	4.40	354.1	1 10	0	2 6	3		1 21
GORIS	4.65	84.5	1 15	2	2 12	3		1 29
KIROVOBAD	4.87	69.9	1 15	-2	2 15	0		1 27
PIATIGORSK	5.24	22.1	1 22	0	2 28	4		
GROZNY	5.79	43.0	1 31	2	2 44	6		1 47
KSARA	6.46	215.2	1 38	-1	3 6	12		2 13 PG
SHEMAKHA	6.53	74.8	1 44	4				2 38
MAKHACH-KALA	6.59	52.9	1 41	0	3 1	4		2 0
SIMFEROPOL	7.37	323.1	1 50	-2	3 19	2		
BAKU	7.45	77.9	1 58	5				
KISHINEV	11.47	316.6	2 51	3				
BUCHAREST	11.83	300.7	3 4	11	5 43	36		6 50
IASI	12.27	314.8	3 5	6				3 49
KIZYL-ARVAT	12.37	85.8	2 58A	-3	5 20	0		

ATHENS	13.07	269.8			5 36	-1	
SOFIA	13.33	290.6	3 15	2			7 29
ASHKABAD	14.15	89.4	3 20	-4	5 56	-7	3 34
SKOPJE	14.66	287.0	3 39K	8	6 54	39	
TIMISOARA	15.54	301.1	3 46	3	6 45	9	
LWOW	15.73	317.8	3 45	0			
BELGRADE	15.80	297.2	3 48K	2	7 1	19	9 6
MOSCOW	16.64	354.6	3 54	-2	7 4	3	
BAIRAM-ALI	17.14	88.5	4 2	-1	6 23	-50	8 58
SKALNATE PL.	17.48	311.3	4 9	2	7 41	20	4 43
TARANTO	17.78	281.4	3 51	-20			6 11
KRAKOW	18.07	313.5	4 11	-3	7 43	9	4 29 PP
HURBANOVO	18.20	305.6	4 21	5	7 57	20	5 20
DABROWA	18.61	313.6	4 21	0			
WARSAW	18.68	320.5	4 21	-1	7 57	9	8 26 SS
BRATISLAVA	18.99	305.7					5 26
RACIBORZ	19.07	312.0	4 26	-1			12 27 PCS
REGGIO CALA.	19.31	274.5	4 32	3	8 12	10	
MESSINA	19.37	274.9	4 30	0	8 8	5	4 46 PP
TRIESTE	20.61	296.8	4 44	0	8 43	13	
PRAGUE	21.29	309.2	4 50	-1	8 51	8	5 1
ROME	21.31	286.2	4 53A	2	8 49	6	5 23 PP
PULKOVO	21.54	346.1	4 52	-1	8 52	4	
SVERDLOVSK	22.11	30.4	4 59	0	9 2	4	
TASHKENT	22.14	75.2	4 58	-1	9 10	11	5 59
FLORENCE X.	22.21	291.3	4 41A	-19	9 9	9	5 14 PP
TCHIMKENT	22.33	72.6	5 0	-1	9 3	1	9 30 SS
CHEB	22.54	308.0	5 3	0	9 16	10	5 16
COLLMBERG	22.59	311.3	5 2	-2	8 16	-51	
PLAUEN	22.82	308.9	5 3	-3	9 22	11	5 16
POTSDAM	22.97	314.0	5 7	0	9 22	8	6 46
KULYAB	23.02	83.9	5 8	0	9 23	8	
HELSINKI	23.11	340.3	5 9	0			
HALLE	23.27	311.2	5 11	1	9 30	11	5 45
JENA	23.30	309.7	5 10	-1	9 25	5	5 47 PP
SONNEBERG	23.36	308.1	5 13	2			5 46
QUETTA	23.59	104.3	5 14A	1	9 35	10	5 45 PP
CHUR	23.68	298.9	5 14K	0			5 19
PAVIA	23.76	294.7	5 16	1	9 58	30	11 10
NAMANGAN	23.97	75.7	5 17	0	9 20	-12	
FERGANA	24.12	77.1	5 18	-1	9 32	-2	9 53
STUTTGART	24.22	303.5	5 19K	0	9 48	12	6 1 PP
TUBINGEN	24.25	302.9	5 19	-1			
EBINGEN	24.26	302.0	5 20K	0			
LUND	24.46	321.4	5 23	1			
KHOROG	24.52	84.1	5 24	2	9 42	1	
ANDIJAN	24.52	76.1	5 24	2			10 52 SS
KARLSRUHE	24.77	303.8	5 25A	0	9 57	12	6 35
COPENHAGEN	24.80	320.8	5 27	2	9 54	8	
MONACO	24.98	291.1	5 27K	0			6 5 PP
BASLE	25.08	300.1	5 27	-1	9 44	-7	
STRASBOURG	25.11	302.6	5 28A	0	9 59	8	6 33
UPPSALA	25.15	332.7	5 27K	-1	10 8	16	5 49
HAMBURG	25.16	314.8	5 30K	1			5 39
WARSAK DAM	25.51	92.0	5 32	0			
FRUNSE	25.98	70.8	5 36	0	9 45	-20	5 58
BENSBERG	25.98	307.8	5 36	0			7 30
BESANCON	26.13	299.2	5 37	-1			6 11 PP
WITTEVEEN	26.78	311.7	5 45	1			
NARYN	27.16	73.8	5 47	0			10 48
DE BILT	27.46	309.6	5 47	-3	10 56	26	
CLERMONT-FD.	28.04	295.7	5 55	0			
PARIS	28.61	302.1	5 51	-9	10 54	6	11 50 SS
LAHORE	28.62	94.9	6 2	2			
APATITY	28.66	354.5	6 0A	-1	10 53	4	7 0 PP
SODANKYLA	29.24	349.2	6 4	-2	10 59	1	
ALGIERS UNI.	29.36	277.1	5 58	-9	10 37	-23	6 55 PP
SKALSTUGAN	29.57	334.8	6 7	-2			
SEMIPALATNSK	30.10	55.0	6 19	6			
KEW	30.70	307.0	6 19	0			
KIRUNA	30.72	345.3	6 18	-1	11 22	0	7 7 PP
ALICANTE	31.65	281.6	6 29	2	11 39	3	7 49 PPP
DURHAM	32.00	313.1					7 45
TAMANRASSET	33.80	251.4	6 46	0	12 5	-5	8 0 PP
TOLEDO	33.98	285.6	6 46A	-2	12 10	-3	11 38
GRANADA	34.35	280.8	7 21A	30	12 27	9	
RATHFARNHAM	34.53	309.7	6 52A	0			
SCORESBY SD.	44.41	334.8	8 15	1	14 47	-3	

SHILLONG	45.02	91.6	8 18	-1			
TIKSI	52.89	23.4	9 17	-3			16 49
TANANARIVE	58.21	172.0	10 1	3			
RESOLUTE	62.60	347.8	10 25	-4			
Y.-SAKHLINSK	69.85	45.5	11 17	2			
HALIFAX	72.13	313.3	11 31	3			
KYOTO	72.56	58.9	11 17A	-14			
MATUSIRO	73.29	56.4	11 33A	-2	21 2	-2	
SEVEN FALLS	74.44	318.6	11 42K	0			
SHAWINIGAN	75.82	319.1	11 49	-1			
COLLEGE	76.07	3.6	11 50	-1			
OTTAWA	78.10	319.7	12 2K	-1			
PALISADES	80.22	315.6			22 19	0	
BERMUDA	80.50	304.0			22 33	11	
MORGANTOWN	84.42	317.9	12 36A	0			
HUNGRY HORSE	89.91	343.2	13 2	0			
RAPID CITY	90.80	334.6	13 8	1			
EUREKA	98.75	341.7	13 43	0			

JULY 7 16.H 11.M 25.S EPICENTRE -6.76 155.31 DEPTH= 76.KM

DEPTH OF FOCUS= 0.007R

A=-0.90234 B= 0.41486 C=-0.11696 D= 0.4177 E= 0.9086
G= 0.1063 H=-0.0489 K=-0.9931 HT= 6.9

SE= 1.71

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
RABAUL	4.03	309.0	1 4	3				
TRUK	14.55	346.2	3 20	-3	5 57	-6		
MADANG	15.23	321.2	2 27	-65				
NOUMEA	18.82	146.3	4 14A	-2	7 43	3		4 32 PP
BRISBANE	20.72	185.7	4 35	-1	8 25	7		
GUAM	22.67	332.5	4 54	-2	8 39	-15		9 19
KOROR	25.05	303.6	5 20	1	9 46	11		8 32 PCP
SUVA	25.22	118.8	5 22	2	9 22	-16		
RIVERVIEW	27.21	187.6	5 39K	0	10 14	4	5 48	6 28 PP
MELBOURNE	32.32	195.4	6 24A	0	11 34	3	6 34	9 10 PCP
APIA	33.10	104.9	6 31	1				
ONERAHI	33.75	151.4	6 45	9				9 16 PCP
TUAI	37.50	151.5	7 7	-1				
KAIMATA	38.36	160.7	7 15	0				
WELLINGTON	38.50	156.2	7 16	0	13 5	-1		12 36
GEBBIES PASS	39.82	160.3	7 25	-2				
MANILA	40.11	302.1	5 50	-100	11 50	-100		
ROXBURGH	40.51	164.8			13 28	-8		
BAGUIO CITY	41.37	304.2	7 41	1	13 52	3		
PERTH	44.50	230.5	8 5	-1				14 37
TUKUBASAN	45.08	342.6	8 10	0				
KYOTO	45.48	337.3	8 10A	-3				
MATUSIRO	45.97	340.8	8 17A	0	14 53	-3		9 53 PP
DJAKARTA	48.16	267.8	8 32	-2	15 29	2		
HONG KONG	49.57	306.8	8 47	2				
ZO-SE	49.83	321.0	8 47A	0	15 53	3		
CANTON	50.67	307.1	8 55A	1	16 8	6		
NANKING	51.97	320.1	9 5A	1	16 25	6		
HONOLULU	53.55	57.4	9 15	0				
VLADIVOSTOK	54.01	338.9	9 19	0				
Y.-SAKHLINSK	54.63	349.4	9 24	1	17 9	14		
CHANGCHUN	57.20	334.5	9 41A	-1				
PEKING	58.90	325.5	9 53A	0	17 55	3		
PETROPAVLOVK	59.73	2.3	9 58	-1	18 7	5		
KUNMING	60.16	303.8	10 4A	2	18 14	6		
TERRE ADELIE	60.72	186.3	10 4	-2	18 20	5		
CHENGTU	61.59	310.1	10 12	0	18 30	4		
LANCHOW	64.38	315.3	10 32A	2	19 7	6		
MAGADAN	66.20	357.5	10 41	-1	19 27	4		
WILKES	66.87	198.1			19 58	27		
SHILLONG	69.46	300.4	11 3A	1				
OASIS-BUNG.	70.08	200.6	11 5	-1	20 12	3		
LHASA	71.48	304.2	11 16A	0	20 33	7		
IRKUTSK	73.03	330.1	11 23	-1	20 48	5		
MIRNY	73.03	201.7	11 23	-1	20 50	7		
TIKSI	80.15	351.8	12 1	-3	22 3	2		

DEHRA DUN	82.49	301.7	12 14	-2			
BYRD STATION	82.54	169.9	12 16	0	22 33	8	23 40 PPS
COLLEGE	82.76	21.1	12 16	-1	22 27	0	23 30 PPS
POONA	84.09	289.4	12 25	1			12 36
SITKA	84.65	30.9	12 26	-1			
SEMIPALATNSK	85.76	321.7	12 32	0			
LAHORE	85.87	302.3	12 33A	0	23 3	5	15 48 PP
FRUNSE	87.80	313.4	12 42	0	23 23	7	
BERKELEY	88.16	51.7	12 44A	0	23 22	2	29 41 SS
SHASTA	88.56	48.9	12 46A	0			
LICK	88.56	52.3	12 46	0			
CORVALLIS	88.60	45.0	12 47	1			
MINERAL	89.09	49.4	12 48	0			
NAMANGAN	89.60	311.2	12 50	-1			
SEATTLE	89.84	42.1	12 53	1	23 53	18	
FRESNO	89.93	53.1	12 48	-4			
RENO	90.32	50.4	12 54	0			
ISABELLA	90.84	54.4	12 58A	2			30 25 PKKP
PASADENA	90.88	55.9	12 57A	0	23 59	15	16 41 PP
TINEMAHA	91.21	53.0	13 0A	2			
RIVERSIDE	91.51	56.1	12 59A	0			
CHINA LAKE	91.56	54.3	13 1A	1			
PALOMAR	91.86	56.8	13 2A	1			
QUETTA	91.94	300.0	13 2	1	23 33	-21	16 32 PP
BARRETT	91.94	57.5	13 2A	1			13 18
EUREKA	93.26	50.8	13 6	-1			16 29 PP
HUNGRY HORSE	95.44	42.1	13 17	0			17 20 PP
BUTTE	96.29	44.5	13 23	2			17 22 PP
SALT LAKE C.	96.52	49.8	13 23	1			
TUCSON	96.82	58.4	13 26	2			17 19 PP
BOZEMAN	97.33	44.9	13 27	1			14 4
SVERDLOVSK	98.18	326.4	13 27	-3			
BOULDER	101.50	50.6	13 46	1			
RESOLUTE	101.66	14.8	13 44	-2	24 16	-60	17 49 PP
RAPID CITY	102.92	46.4	13 49	-2			18 2 PP
MAKHACH-KALA	107.60	312.8	14 6	777			
APATITY	108.03	339.9	18 20	777			
TIFLIS	109.76	311.8	18 25	777			29 2
SODANKYLA	110.37	341.2	18 14	-9			29 14 PKKP
FAYETTEVILLE	110.51	54.1	18 23	-1			
MOSCOW	110.94	327.6	18 27	3			23 19
KIRUNA	111.97	343.1	18 26	0			19 14 PP
SOTCHI	113.08	314.6	18 20	-9			28 48
FLORISSANT	113.12	50.7					19 17 PP
ST. LOUIS 1	113.25	50.9					28 54 PS
HELSINKI	115.00	335.1	18 33	1			
SCORESBY SD.	116.33	359.0	18 37	2			29 5
SIMFEROPOL	116.59	317.2	18 37	2			29 27
GRAHAMSTOWN	117.16	227.2	18 40K	4			
SKALSTUGAN	117.36	342.4	18 38	1			29 0 PKKP
KSARA	118.10	304.7	18 40	2	25 50	25	20 6 PP
UPPSALA	118.14	337.3	18 37	-1			19 52 PP
JERUSALEM	119.03	302.6	18 45	5			20 6 PP
KISHINEV	119.29	320.9					19 58 PP
PRETORIA	119.35	235.6	18 41	0			
KIMBERLEY	120.71	230.9	18 45	2			
MORGANTOWN	120.76	47.6	18 46	2			
LWOW	120.90	325.5	18 46	2			
WARSAW	121.25	329.0					20 21 PP
OTTAWA	121.54	40.0	18 46A	1			20 15 PP
BUCHAREST	122.10	319.0					19 25
CHAPEL HILL	122.55	51.5	18 47	0			20 22
SHAWINIGAN	122.86	37.7	18 48K	0			20 25 PP
COPENHAGEN	123.01	335.9	18 51	3			29 59
KRAKOW	123.03	327.3	18 49	1			20 35 PP
SEVEN FALLS	123.74	36.3	18 49A	0			
RACIBORZ	123.93	328.1	18 53	3			
PALISADES	124.57	44.1	18 51	0			20 35 PP
FORDHAM	124.65	44.3	18 56	5			
POTSDAM	125.01	332.7	18 54	2			
BELGRADE	125.50	321.7	19 55A	62			22 46
HAMBURG	125.52	335.4	18 56	3			19 7
BRATISLAVA	125.63	326.7	18 55	2			19 58
WESTON	125.72	41.6	18 53	0			
COLLMBERG	125.76	331.8					18 53
PRAGUE	125.87	329.9	18 45	-8			21 2 PP
HALLE	126.12	332.5	18 57	3			23 25
HUANCAYO	126.29	110.2	18 57	3			32 12 PPS
JENA	126.67	332.2	18 58	3			20 55 PP

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PLAUEN	126.70	331.5	18 55	0				20 53 PP
SONNEBERG	127.23	331.9	19 0	4				19 12
DE BILT	128.56	336.9	18 57	-2				21 7 PP
BENSBERG	128.61	334.7	19 0	1				19 12
DURHAM	128.65	343.1	19 0A	1				
TRIESTE	128.98	325.9	19 12	13	26 12	14		22 16 PKS
STUTTGART	129.28	331.5	19 2	2				21 9 PP
HALIFAX	129.33	35.4	19 1A	1				19 2
TUBINGEN	129.51	331.4	18 59	-1				
EBINGEN	129.80	331.1	18 59	-2				
STRASBOURG	130.08	332.2	19 3A	2				21 13 PP
BASLE	130.93	331.4	19 5	2				21 48
KEW	131.08	340.0	19 5	2				37 39 SS
LA PAZ	131.21	118.7	19 15	11				22 35 PKS
RATHFARNHAM	131.23	345.4	19 6	2				22 26
FLORENCE X.	131.53	325.4	19 4K	0			19 17	22 27 SKP
NEUCHATEL	131.60	331.3	19 7	3				22 33
PAVIA	131.76	328.1	19 5A	0				22 29 SKP
BESANCON	131.88	332.2	19 7	2				22 0 PP
ROME	131.96	322.7	19 6A	1			19 18	39 39 SS
MESSINA	132.01	316.8	19 7	2				21 32 PP
PARIS	132.21	335.9	19 11	6				21 27 PP
JERSEY	133.63	339.6						21 20 PP
MONACO	133.65	327.8	19 9	1				22 35 SKP
CLERMONT-FD.	134.30	332.9	19 11	2				21 45 PP
BERMUDA	134.92	50.2						22 46 PP
SAN JUAN	138.05	70.1	19 7	-9				22 51 PKS
ALGIERS UNI.	140.85	323.7	19 16	-5				22 20 PP
ALICANTE	141.67	328.7	19 22	-1	26 30	7		22 28 PP
TOLEDO	142.17	333.7	19 21K	-3	27 3	39		22 25 PP
RELIZANE	143.01	324.8	19 24	-1				22 27 PP
FORT FRANCE	143.36	74.5	19 25	-1				
TRINIDAD	143.41	81.3	19 23	-3				
ST. VINCENT	143.45	77.1	19 22	-4				
ST. LUCIA	143.60	75.6	19 19	-7				
ALMERIA	143.83	329.1	19 25	-2				23 0 PP
GRANADA	144.14	330.6	19 21A	-6	25 49	-38		22 42 PP
MALAGA	144.89	331.0	19 28K	0				22 48 PP
BARBADOS	145.07	76.8	19 31	2				
LISBON	145.22	338.4	19 32	3			19 45	
TAMANRASSET	146.84	301.9	19 35A	3				23 11 PP
MBOUR	169.28	315.6	20 0	2				

JULY 8 15.H 30.M 36.S EPICENTRE 14.65 -91.12 DEPTH= 121.KM

DEPTH OF FOCUS= 0.014R

A=-0.01895 B=-0.96774 C= 0.25124 D=-0.9998 E= 0.0196
G=-0.0049 H=-0.2512 K=-0.9679 HT= 5.8

SE= 2.22

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
COMITAN	1.87	328.8	0 28	-5	0 48	-9		
SAN SALVADOR	2.05	116.1	0 34	-1	1 7	6		
SANTIAGO MA.	2.82	113.7			1 32	13		
OAXACA	5.93	294.2	1 21	-5				
MERIDA	6.43	12.6	2 38K	64	2 53	7		
VERA CRUZ	6.59	314.1	1 33	-3	2 41	-9		
PUEBLA	8.06	303.7	2 1	5	3 21	-5		
TACUBAYA	9.06	302.6	2 9	0	3 49	-1		2 27
GUADALAJARA	13.08	299.0	3 8	6				3 26
MANZANILLO	13.38	290.9			5 34	2		4 0
CHINCHINA	18.03	120.7	4 5K	1	6 34	-44		
BOGOTA	19.52	119.0	4 22	2			6 56	15 46 SCS
LUBBOCK	21.21	334.6	4 37	0	8 31	10		
COLUMBIA	21.33	23.6	4 40	1	8 34	11		
CHAPEL HILL	23.79	24.9						5 24
SAN JUAN	24.25	77.8	5 38	31				5 54
TUCSON	25.10	317.7	5 14	-1	9 8	-20		
MORGANTOWN	26.75	19.4	5 31K	1	11 4	69		
WASHINGTON	27.15	24.5	5 36	2	10 13	11	6 7	11 7 *SS
PITTSBURGH	27.49	18.7	5 40	3				11 22 SS
CLEVELAND	28.00	15.5	5 41	-1	10 14	-1		
BOULDER	28.17	336.5						6 3

PENNSYLVANIA	28.50	21.4	5 45	-1	11 37	74		
PHILADELPHIA	28.82	26.0	5 51	2	10 38	10	6 20	
HAYFIELD	29.20	314.9	5 52A	0				
BARRETT	29.37	312.1	5 54A	0				
PALOMAR	29.86	313.1	5 58A	0				
PALISADES	30.24	26.4	6 2A	0	10 56	5	6 32	7 24 PPP
RIVERSIDE	30.57	313.7	6 3A	-1				12 36 SCP
HUANCAYO	30.79	148.7	6 7	1	11 10	11	6 28	
RAPID CITY	31.09	343.0	6 17	8			6 40	
PASADENA	31.21	313.3	6 9A	-1	11 13	7		9 3 PCP
SALT LAKE C.	31.68	329.2	6 13	-1			6 33	7 25 PP
CHINA LAKE	31.73	316.5	6 14A	-1				9 5 PCP
ISABELLA	32.23	315.5	6 22A	3				9 4 PCP
WESTON	32.49	27.9	6 21	0	11 32	6		
TINEMAHA	32.86	317.8	6 25A	1				9 7 PCP
EUREKA	32.98	323.3	6 25	0			7 7	
OTTAWA	33.31	19.9	6 29A	1	11 46	7	6 58	7 48 PP
FRESNO	33.73	316.1	6 31	-1				
BREBEUF	34.12	22.2	6 36	1	16 32	281		
BOZEMAN	35.20	335.5	6 44	0			7 13	7 57 PP
LICK	35.28	315.5	6 44A	-1				9 14 PCP
RENO	35.32	320.1	6 46	1				
SHAWINIGAN	35.33	22.1	6 49	4	12 8	-2	7 16	8 7 PP
BERKELEY	35.98	315.8	6 51A	0	12 28	8		9 15 PCP
BUTTE	36.10	334.4	6 52	0	12 31	9	7 18	9 20 PCP
SEVEN FALLS	36.53	23.4	6 55A	-1	12 34	6	7 25	8 22 PP
MINERAL	36.91	319.8	6 58	-1				
UKIAH	37.28	317.0	7 4	2			7 33	
SHASTA	37.61	319.7	7 2A	-3				
HALIFAX	37.92	32.5	7 9A	2	12 59	10		8 43 PP
LA PAZ	38.38	142.9	7 26K	15	13 4	8		16 14 SS
HUNGRY HORSE	38.56	335.4	7 11	-1	13 4	5		
BANFF	41.40	336.8	7 35	-1				
SEATTLE	41.84	328.3	7 39	0				
HORSESHOE B.	43.47	329.6	7 52K	-1				
RESOLUTE	60.07	358.8	9 53	-4	17 58	0		13 35 PPP
COLLEGE	62.99	336.4	10 14	-2				
SCORESBY SD.	69.37	19.6	10 54	-3	20 27	35		24 48 SS
RATHFARNHAM	75.33	38.2						11 52
MALAGA	78.81	54.9	11 49K	-2	22 21	44		15 13 PP
GRANADA	79.36	54.3	11 48	-6	21 48	5		14 29 PP
PARIS	81.48	41.8	12 8	3	22 44	39		23 26 PS
CLERMONT-FD.	82.57	44.7						23 24 PS
SKALSTUGAN	82.86	26.0	12 13	1				12 38
KIRUNA	84.41	20.8	12 19	-1	22 37	3		23 20 PS
STRASBOURG	84.92	41.2	12 36	13				
COPENHAGEN	85.50	33.5	12 28K	2	22 54	9	12 52	15 49 PP
STUTTGART	85.78	40.7	12 25	-2				12 53
JENA	86.57	38.2	12 29	-2				
UPPSALA	86.57	28.6			23 2	7		23 34 *PS
SODANKYLA	86.72	20.1	12 31	0			13 8	
POTSDAM	86.96	36.5	12 31	-2				
COLLMBERG	87.29	37.6	12 32	-2				
HELSINKI	89.73	26.7	12 10	-36				
TIKSI	89.82	348.2	12 43	-4				
ROME	90.16	46.5	12 49	1				16 21 PP
TAMANRASSET	90.38	66.5	12 48	-1			13 23	16 31 PP
WARSAW	91.51	34.7						16 35
PULKOVO	92.22	25.6						16 37
KSARA	110.23	45.1						15 51
QUETTA	130.68	25.2	18 59K	2			19 30	22 15 SKP

JULY 9 9.H 58.M 13.S EPICENTRE -6.23 104.14 DEPTH= 71.KM

DEPTH OF FOCUS= 0.006R

A=-0.24291 B= 0.96403 C=-0.10787 D= 0.9697 E= 0.2443
G= 0.0264 H=-0.1046 K=-0.9942 HT= 6.9

SE= 2.36

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
DJAKARTA	2.67	89.0	0 42	0	1 17	3		
MANILA	26.58	38.8	5 45	12	9 15	-46		
COLOMBO	27.51	297.9	5 51	9	10 24	8		
BAGUIO CITY	27.77	35.7	5 42	-2	11 6	46		

PERTH	27.82	158.3	5 32	-13				6 30 PP
HONG KONG	30.01	18.8	6 6K	2				
CANTON	30.47	16.8	6 8A	0				8 4 PP
KUNMING	31.13	357.4	6 15A	1	11 20	7		
KODAIKANAL	31.20	301.5	6 21	5				
CALCUTTA	32.50	332.1						7 21
SHILLONG	33.79	339.8	6 35A	-2				
HYDERABAD	34.60	313.2	5 50	-54				7 44
BOKARO	34.83	329.7	6 44	0				
CHENGTU	36.68	359.8	7 0	-2	12 37	-2		
LHASA	37.80	341.2	7 12A	0	12 58	1		
POONA	38.70	310.1	7 19	0				
BOMBAY	39.71	309.6			13 28	3		
SIAN	40.52	6.1	7 38	4	13 46	9		
ZO-SE	40.54	22.7	7 36A	2				
LANCHOW	42.09	359.6	7 48A	1	14 3	2		
MADANG	43.12	75.6	7 43	-12				
DEHRA DUN	44.12	326.9	8 4	1	14 32	2		10 47 PPP
GUAM	44.82	63.9	8 7	-2	14 40	0	8 30	10 12 PP
TATUNG	46.87	9.6	8 26	1				
LAHORE	47.13	324.6	8 25	-2	15 13	0		9 58 PCP
PEKING	47.35	12.6	8 29A	0	15 18	2		
RABAUL	47.86	90.0	8 25	-9				
KARACHI	48.10	313.1	8 29	-6	15 26	-1		
MELBOURNE	48.58	136.3	8 39K	1	15 40	6	8 51	10 43 PP
TRUK	49.50	74.7	8 46	1				10 9 PCP
WARSAK DAM	50.52	324.6	8 53	0				
KYOTO	50.69	33.8	8 52A	-3	16 4	1		
QUETTA	50.82	317.5	8 55A	0	16 3	-2	9 6	10 13 PCP
BRISBANE	50.93	120.4	8 56	0	16 7	1		
RIVERVIEW	51.38	128.8	9 1K	1	16 20	8	9 15	16 45 *SS
MATUSIRO	53.19	34.3	9 11A	-2	17 9	32		11 25 PP
TUKUBASAN	54.04	35.9	9 17	-2	16 47	-1		9 26
VLADIVOSTOK	55.20	24.5	9 27	-1	17 7	3		
NAMANGAN	55.63	330.5	9 31	0	17 12	2		
FRUNSE	55.77	334.0	9 31	-1	17 15	3		
TANANARIVE	56.43	251.5	9 36A	-1			9 52	
IRKUTSK	58.28	0.1	9 49	-1				
OASIS-BUNG.	59.88	181.6	9 58	-3				10 11
SEMIPALATNSK	60.08	342.6	10 2	0	18 5	-3		
MIRNY	60.71	185.1	10 5	-2	18 19	3		
TERRE ADELIE	65.65	164.7	10 33	-6	19 11	-7		
ROXBURGH	68.29	136.6			19 48	-1		20 33
GEBBIES PASS	70.22	134.2	11 22	15				
ONERAHI	70.35	125.6	11 24	16				
MAKHACH-KALA	70.85	319.5	11 10	-1				
TIFLIS	72.06	317.4	11 19	1	20 37	4		
SVERDLOVSK	72.17	336.6	11 19	0				
PIETERMZBURG	72.82	241.0	11 24	1				
PRETORIA	74.69	245.1	11 34	0				
PETROPAVLOVK	74.83	30.6	11 32	-3				
LWIRO	75.19	269.3	11 38K	1				
MAGADAN	75.24	22.5	11 37	0	21 14	5		
KSARA	75.71	307.1	11 42A	2	21 29	15	11 59	14 38 PP
GRAHAMSTOWN	76.22	237.3	11 44	1				
SOTCHI	76.24	317.6	11 42	-1	21 22	2		
KIMBERLEY	77.72	242.0	12 21	30				
SCOTT BASE	78.33	168.9	11 54	0				
TIKSI	79.40	7.8	11 58	-2				
SIMFEROPOL	80.49	317.4	12 6	0	22 6	1		
MOSCOW	82.23	328.4	12 16	1	22 28	5		
HERMANUS	82.32	236.2			22 34	10		
SOUTH POLE	83.81	180.0	12 33	0				
KISHINEV	84.62	318.3	12 28	1	22 51	4		
IASI	85.50	318.3	12 32	1	23 1	6		12 44
BUCHAREST	85.85	315.3	12 36	3	23 4	5		15 59 PP
PULKOVO	87.30	330.9	12 41	1	23 17	4		
SOFIA	87.47	313.2	12 35	-6				
APATITY	88.48	338.7	12 47A	1	23 29	5	13 1	24 14 PS
TIMISOARA	89.50	316.0	12 49	-2	23 37	4		
BELGRADE	89.89	315.0	12 54K	2	24 42	65		14 37
HELSINKI	90.00	330.6	12 52	-1			13 3	
WARSAW	90.68	322.4	12 58	2	24 21	37		16 33 PP
SODANKYLA	90.93	337.8	12 57	0			13 11	16 31 PP
KRAKOW	91.02	320.1	12 59	1	23 53	6	13 8	16 31 PP
BYRD STATION	91.10	173.1	13 3	5				13 15
TARANTO	91.64	310.4	12 51	-10				29 47
RACIBORZ	92.13	320.0						23 8

BRATISLAVA	92.62	318.0	13 2	-3	24 5	4		16 41 PP
MESSINA	92.70	308.0	13 7	1	24 6	4		16 38 PP
KIRUNA	93.35	337.8	13 8A	-1	23 59	-8	13 22	24 15
UPPSALA	93.59	329.7	13 10	0	24 12	3	13 23	16 51 PP
PRAGUE	94.55	319.7	13 17	3	24 17	0		17 3 PP
ROME	95.35	311.5	13 19	1	24 25	1		17 12 PP
COLLMBERG	95.53	320.9	13 18	0				16 37 PP
COPENHAGEN	96.06	325.3			24 35	5		17 1 PP
SKALSTUGAN	96.37	333.3	13 22	0			13 36	17 18 PP
JENA	96.41	320.5	13 23	1			13 38	17 16 PP
STUTTGART	97.91	318.3	13 29	0	24 9	-37	13 41	20 52 PP
EBINGEN	98.06	317.7	13 29	-1			13 41	
STRASBOURG	98.85	318.1	13 33	-1	24 23	-31		17 35 PP
MONACO	99.12	313.2						17 37 PP
TAMANRASSET	100.32	292.0	13 39	-1	25 9	3	13 55	17 54 PP
CLERMONT-FD.	102.13	315.4						18 15 PP
PARIS	102.34	318.5						17 49 PP
ALGIERS UNI.	102.58	306.2			25 23	-2		17 54 PP
COLLEGE	103.24	24.7	13 55	2				17 29 PKP
DURHAM	104.12	324.9						21 37
RELIZANE	104.64	305.2						18 15 PP
RATHFARNHAM	107.13	323.9						13 31
GRANADA	107.87	306.9	18 6K	777				19 28 PP
MALAGA	108.56	306.5	18 24	777				
RESOLUTE	110.72	5.3	18 24	-1				19 5 PP
VICTORIA	121.78	35.3	18 48	2				
SEATTLE	122.87	35.7	18 52	4				19 7
BANFF	124.44	29.2	18 53A	2				
SHASTA	126.16	43.1	18 57A	2				
MINERAL	126.86	43.2	18 59	3				
HUNGRY HORSE	126.99	31.1	18 58	2				27 50 SKKS
LICK	128.15	46.6	19 3	5				
RENO	128.45	43.3	19 3	4				
BUTTE	129.25	32.5	19 7	6			19 23	22 54 PKS
FRESNO	129.72	46.4	19 2	1				
BOZEMAN	130.29	32.0	19 12	9			19 26	
TINEMAHA	130.71	45.3	19 9	6				21 35 PP
EUREKA	131.05	41.4	19 6	2			19 21	23 0 PKS
ISABELLA	131.18	47.1	19 8	4				21 25 PP
CHINA LAKE	131.74	46.5	19 10	5				21 26 PP
PASADENA	132.06	48.8	19 10	4				21 27 PP
RIVERSIDE	132.72	48.6	19 9	2				21 31 PP
SALT LAKE C.	132.93	37.6	19 11	3			19 24	
PALOMAR	133.39	49.1	19 11	3				21 29 PP
BOULDER CITY	133.63	44.8	19 12	3			19 26	
BARRETT	133.83	49.8	19 16	7				21 41 PP
HAYFIELD	134.15	48.0	19 16	6				22 39 SKP
RAPID CITY	135.34	28.1	19 12	0				22 40 SKP
BOULDER	137.21	33.8	19 7	-8				
TUCSON	138.38	47.0	19 15	-3			19 37	23 18 PKS
SEVEN FALLS	139.04	354.8	19 21	2				22 10 PP
HALIFAX	140.29	346.3	19 22	1				
OTTAWA	140.99	359.8	19 21	-1				22 23 PP
LUBBOCK	143.65	38.1	19 28	1				19 42
CLEVELAND	144.54	7.4	19 30A	1				23 30
PALISADES	145.33	357.4	19 30A	0				22 51 PP
FAYETTEVILLE	145.86	27.0	19 33A	2			19 46	
MORGANTOWN	146.55	5.7	19 35K	3				
WASHINGTON	147.46	1.8	19 38	5				
GUADALAJARA	149.75	59.0	20 9	32				
CHAPEL HILL	150.31	5.2	19 41	3				
COLUMBIA	151.96	9.2	19 43	3				
BERMUDA	151.97	339.6	19 38	-2				23 29 PKS
TACUBAYA	153.80	57.9	19 54	11				23 28 PP
LA PAZ	156.15	198.6	19 50	4				24 7 PP
HUANCAYO	161.83	181.7	19 59	6				28 26 PPP
SAN JUAN	164.64	322.7	20 11	16			20 54	
BOGOTA	177.60	228.1	20 26	24	24 59	-117		32 50 SKKS
CHINCHINA	178.72	190.7	20 17	15	25 56	-60		32 32 SKKS

JULY 10 9.H 4.M 13.S EPICENTRE 7.71 -82.62 DEPTH= 12.KM

A= 0.12730 B=-0.98287 C= 0.13327 D=-0.9917 E=-0.1284
G= 0.0171 H=-0.1322 K=-0.9911 HT= 6.8

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
BALBOA HTS.	3.27	67.5	0 52	1	1 34	4		
CHINCHINA	7.47	111.0	1 47	-3				
GALERAZAMBA	7.87	66.6	0 59	-57	2 30	-55		
SANTIAGO MA.	8.13	315.5	1 56	-4	3 42	10		
SAN SALVADOR	8.83	313.2	2 5	-4	3 44	-5		
BOGOTA	9.04	109.4	2 12	0	3 55	0		
COMITAN	12.59	313.3	2 59	-2	6 19	58		
MERIDA	14.80	333.5	3 31A	1	6 35	21		7 20
OAXACA	16.62	305.1	3 57	4	7 13	17		10 13
VERA CRUZ	17.39	312.4	4 7	4	9 27	133		10 55
PUEBLA	18.86	308.2	4 28	7				
SAN JUAN	19.24	54.9	4 25	0	8 5	9		
TACUBAYA	19.85	307.5	4 33	1	8 21	12		8 51
HUANCAYO	20.93	159.7	4 42	-1	8 36	5		
TRINIDAD	21.03	80.4	4 44	-1				
ST. VINCENT	21.68	73.7	4 52	1				
ST. CLAUDE	22.06	66.1	4 57	2	9 6	14		
DOMINICA	22.10	68.2	4 56	1				
ST. LUCIA	22.13	71.7	4 56	0				
FORT FRANCE	22.17	69.8	4 55	-1	9 8	14		5 29 PP
BARBADOS	23.26	74.7	5 9	2				
GUADALAJARA	23.81	304.9	5 15A	3	9 43	20		
MANZANILLO	23.91	300.3	5 13	0	9 54	29		12 0
COLUMBIA	26.20	3.0	5 36K	1	9 46	-18		8 50 PCP
MAZATLAN	27.53	306.6	5 47	0	10 56	31		6 17
LA PAZ	28.00	149.3	5 51A	0	10 27	-6		6 47 PP
BERMUDA	29.68	31.8	6 11	5	10 47	-13		6 52 PP
FAYETTEVILLE	30.16	341.1	6 8A	-3	10 55	-12	6 15	
CHIHUAHUA	30.37	316.2	6 48	36	11 51	40		
LUBBOCK	31.29	328.0	6 18	-3	11 41	16		
WASHINGTON	31.45	8.3	7 23	61				
ST. LOUIS 1	31.55	348.6	6 23K	0	11 31	2		7 26 PP
FLORISSANT	31.73	348.4	6 24K	0	11 33	1		7 29 PP
TERRE HAUTE	31.91	353.0			10 47	-48		6 47 PP
PITTSBURGH	32.68	3.8	6 31A	-2	11 50	3		7 45 PPP
PHILADELPHIA	32.79	10.6	6 34	0	11 51	3		7 47 PP
PENNSYLVANIA	33.22	6.6	6 38	1	12 3	8		8 32
CLEVELAND	33.64	1.5	6 40	-1	12 4	2		
FORDHAM	33.91	11.9	6 42	-1	12 4	-2		
PALISADES	34.06	11.8	6 43K	-2	12 1	-7		7 55 PP
CHICAGO CGS.	34.22	353.4	6 46	0	11 58	-13		8 6 PP
TUCSON	35.82	316.8	7 0	0	12 43	8		8 29
WESTON	35.94	14.3	7 2A	1	14 57	140		
OTTAWA	38.02	7.9	7 17K	-1	13 11	2		8 47 PP
BOULDER	38.05	331.3	7 17	-1				
BREBEUF	38.45	10.2	7 22	0				8 56
SHAWINIGAN	39.61	10.7	7 31	0				
HAYFIELD	39.97	315.0	7 34A	0				
BARRETT	40.17	312.9	7 35A	-1	13 53	12		17 17 SS
HALIFAX	40.32	21.1	7 39K	2				8 14
RAPID CITY	40.44	337.0	7 25	-13				9 10 PP
SEVEN FALLS	40.54	12.4	7 40K	1	13 34	-13		9 51 PPP
PALOMAR	40.65	313.7	7 39A	-1	13 56	7		9 26 PP
BOULDER CITY	40.70	318.5	7 41A	1	13 57	8		
RIVERSIDE	41.35	314.2	7 45A	-1	14 7	8		9 30 PP
SALT LAKE C.	41.96	326.3	7 50A	-1	14 11	3		9 55 PP
PASADENA	42.00	313.9	7 51A	0	14 13	4		9 45 PP
CHINA LAKE	42.47	316.4	7 55A	0	14 31	15		8 24
ISABELLA	42.99	315.6	7 59A	0	14 33	10		9 47 PP
WOODY	43.28	315.4	8 0A	-2				9 56 PP
EUREKA	43.52	321.8	8 3A	-1				
TINEMAHA	43.57	317.5	8 5A	1	14 41	9		10 2 PP
FRESNO	44.48	316.2	8 9A	-2				
BOZEMAN	45.08	331.9	8 16A	0	14 54	1		10 6 PP
RENO	45.97	319.5	8 25A	2	15 6	0		10 0 PP
LICK	46.04	315.8	8 23A	-1				
BUTTE	46.05	331.1	8 26A	2	15 14	7		10 11 PP
SANTA CLARA	46.26	315.6	8 29	4	15 20	10		
BERKELEY	46.73	316.1	8 29A	0	15 27	10		10 13 PP
MINERAL	47.57	319.4	8 35A	-1				
UKIAH	48.01	317.1	8 38	-1				
SHASTA	48.26	319.3	8 38A	-3				
LA PLATA	48.38	152.7	8 41	-1	15 35	-5		11 23 PPP
HUNGRY HORSE	48.43	332.3	8 40	-2	15 49	8		10 14 PP
SASKATOON	48.47	340.4	8 44	1	15 43	1		

CORVALLIS	50.92	323.1	9 0A	-2			
BANFF	51.15	333.9	9 12A	9			
SEATTLE	52.13	326.8	9 9A	-2	16 45	13	
VICTORIA	53.25	327.2	9 18A	-1	16 53	6	
HORSESHOE B.	53.68	328.1	9 19K	-3	15 50	-63	
ALBERNI	54.44	327.3	9 26	-2	17 11	7	
ANGRA DO HO.	58.42	49.2	9 56	0	18 9	13	
IVIGTUT	59.18	18.6	10 1	-1			
SITKA	63.91	331.0	10 32	-1	19 12	6	20 27 SCS
MBOUR	64.60	77.8	10 39	1	19 25	10	13 14 PP
RESOLUTE	67.30	356.5	10 50K	-5	19 41	-7	12 51 PP
REYKJAVIK	70.59	23.9	11 14A	-1			13 49
LISBON	72.33	51.9	11 23K	-3			15 10 PP
COLLEGE	72.66	336.0	11 25	-3	20 52	2	14 16 PP
COIMBRA	72.99	50.4	11 31	1			
SCORESBY SD.	73.22	17.8	11 29	-2	20 54	-3	
KIPAPA	73.67	290.0	11 34	0			
HONOLULU	73.75	289.9	11 37	3			
RATHFARNHAM	75.70	37.0	11 40	-5	21 22	-2	
MALAGA	76.00	54.2	11 44A	-3	21 38	10	22 28 PS
TOLEDO	76.34	50.9	11 50A	1	21 38	7	14 40 PP
GRANADA	76.65	53.7	11 53A	2	21 41	6	14 47 PP
ALMERIA	77.55	54.0	11 56	0	21 52	7	
JERSEY	78.01	41.4	12 20	22	22 19	29	14 53 PP
ABERDEEN	78.42	33.3	12 0	-1	21 55	1	15 4 PP
DURHAM	78.58	35.7	11 59A	-2	21 58	2	14 57 PP
ALICANTE	79.11	52.5	12 10	6	22 17	16	
KEW	79.22	39.1	12 4	-1	22 4	2	15 10 PP
RELIZANE	80.02	55.1	12 9	0			15 7 PP
PARIS	81.03	41.8	12 12	-3	22 23	2	12 27 PCP
CLERMONT-FD.	81.56	44.9	12 16	-1	22 36	9	16 28 PP
ALGIERS UNI.	81.98	54.0	12 18	-2	22 27	-4	15 25 PP
DE BILT	82.63	38.4	12 27	4	22 47	9	
BESANCON	83.45	43.3	12 27	0			15 35 PP
WITTEVEEN	83.49	37.6	12 30	3			
BENSBERG	83.94	39.5	12 29	-1			12 46 PCP
NEUCHATEL	84.13	43.5	12 31	0	22 55	2	15 45
BASLE	84.51	42.9	12 33	1			15 56
STRASBOURG	84.54	41.8	12 33	0	23 0	3	15 47 PP
MONACO	84.77	46.7	12 33	-1			
KARLSRUHE	84.92	41.4	12 38A	4	23 6	6	12 52 PCP
ZURICH	85.20	43.0	12 36	0			13 16
SKALSTUGAN	85.34	26.6	12 36	-1			15 50 PP
TAMANRASSET	85.35	67.7	12 37	0	23 16	11	15 58 PP
EBINGEN	85.38	42.2	12 37	0			12 57 PCP
HAMBURG	85.40	36.7	12 36	-1	23 10	5	22 58 SKS
STUTTGART	85.46	41.6	12 36K	-1	23 11	5	15 58 PP
CHUR	85.91	43.4	12 38	-1			
COPENHAGEN	86.55	34.4	12 43	1	23 27	11	16 5 PP
JENA	86.72	39.2	12 43	0	23 11	-7	16 4 PP
HALLE	86.87	38.6	12 43	-1	23 14	-5	16 9
PLAUEN	87.14	39.6	12 43	-2			16 5
POTSDAM	87.42	37.6	12 47	0	23 24	0	
FLORENCE X.	87.51	46.3	12 42A	-5			23 57 PS
COLLMBERG	87.55	38.7	12 46	-1			16 17 PP
KIRUNA	87.80	21.7	12 48	-1	23 15	-13	16 17 PP
UPPSALA	88.51	29.8	12 50	-2	23 37	2	16 20 PP
PRAGUE	88.65	39.8	12 53	0	23 39	3	16 25 PP
ROME	88.69	48.1	12 54	1	23 49	13	13 18
TRIESTE	88.98	44.2	12 57	3	23 47	8	16 26 PP
BYRD STATION	89.60	186.0	12 59	2			
BRATISLAVA	90.75	41.3	13 2	0	23 35	-20	16 46 PP
RACIBORZ	91.03	39.3	13 5	1			16 45 PP
MESSINA	91.66	51.3	13 6	-1	24 5	2	16 44 PP
KRAKOW	92.12	39.0	13 9	0			16 56 PP
WARSAW	92.22	36.7	13 14	5	24 21	13	17 1 PP
TARANTO	92.49	48.8					17 7
APATITY	92.53	20.2	13 12K	1	24 0	-11	16 53 PP
BELGRADE	93.78	44.0	13 19A	3	23 48	-34	17 4 PP
TIMISOARA	94.06	43.0	13 9	-9			17 30
PULKOVO	94.62	27.9	13 25	5	23 57	-32	17 11 PP
LWOW	94.72	38.5	13 22	1	23 57	-33	17 18 PP
BUCHAREST	97.76	43.2					17 42
TIKSI	98.14	350.4	13 38	2	24 12	-47	17 35 PP
MOSCOW	99.94	29.7	13 47	3			17 52 PP
PETROPAVLOVK	100.41	327.5	13 50	3			25 12 SCS
SIMFEROPOL	102.88	40.6	14 1	3			18 10 PP
HERMANUS	104.08	123.5					27 33 PS
KSARA	108.66	50.6	14 31	777	25 21	15	19 0 PP

GORIS	113.43	41.0						19 22 PP
IRKUTSK	119.96	355.1	18 51	2				20 12 PP
MATUSIRO	121.65	321.8	18 59A	7				20 25 PP
ASHKABAD	121.80	35.9						20 15 PP
RIVERVIEW	124.16	234.2						37 41 SS
KYOTO	124.18	322.0						20 43
TASHKENT	124.81	25.6						20 32 PP
FRUNSE	125.54	20.5						20 41 PP
PEKING	129.42	341.3	19 8	1				
WARSAK DAM	131.83	29.1	19 15	3				
QUETTA	132.32	36.4	19 13	0	26 26	7		21 42 PP
LAHORE	135.17	28.3						21 54 PP
ZO-SE	135.18	330.6	19 21	3				22 2 PP
NANKING	135.49	333.7	19 20	1				22 0 PP
LANCHOW	136.03	352.5	19 23	4				22 1 PP
DEHRA DUN	137.88	25.3						23 8
CHENGTU	141.32	350.8	19 28	-1				
LHASA	142.90	9.0	19 31	0				
POONA	145.09	41.4	19 33	-3				19 50
TOCKLAI	145.65	4.1	19 42	5				
SHILLONG	146.49	9.0	19 38A	0				
BOKARO	146.68	19.5	19 43	5				
BAGUIO CITY	146.81	316.3	19 40	1				
MANILA	147.78	313.4	19 43	3				21 54

JULY 13 0.H 59.M 29.S EPICENTRE 52.24-169.53 DEPTH= 0.KM

A=-0.60468 B=-0.11175 C= 0.78859 D=-0.1817 E= 0.9833
G=-0.7755 H=-0.1433 K=-0.6149 HT= -6.2

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
COLLEGE	16.86	33.0	3 59	0	6 59	-7		6 40
PETROPAVLOVK	19.23	285.3	4 27	-1	8 49	49		
MAGADAN	23.12	304.1	5 6	-3				
ALBERNI	28.10	78.0	5 57	1				
VICTORIA	29.25	78.7	6 7	1				
SEATTLE	30.31	79.6	6 21	6	11 23	8		
Y.-SAKHLINSK	30.94	279.5	6 21	0				
CORVALLIS	31.17	85.5	6 25	2				
TIKSI	32.79	329.0	6 37	0	13 14	80		
SHASTA	33.87	90.9	6 49K	2				
UKIAH	34.31	93.8	6 51	1				
MINERAL	34.57	90.7	6 52K	-1				7 0
HUNGRY HORSE	34.93	73.8	6 57	1	12 28	1		
BERKELEY	35.68	94.7	6 59K	-3	13 39	60		
RENO	36.15	90.4	7 8	2				
LICK	36.40	94.8	7 7	-1				7 15
RESOLUTE	36.53	25.5			12 51	-1		8 51 PPP
BUTTE	36.94	76.4	7 14	1	13 0	2		
FRESNO	37.89	94.0	7 21	0				
BOZEMAN	38.03	76.0	7 21	-1				8 11
EUREKA	38.55	87.5	7 26	0	13 24	1		
TINEMAHA	38.67	92.3	7 29	2	13 28	3		
WOODY	39.16	94.5	7 31K	0				7 55
ISABELLA	39.43	94.2	7 33K	-1				9 19
VLADIVOSTOK	39.48	280.7	7 37	3	15 7	90		
MATUSIRO	39.58	267.8	7 34A	-1	13 25	-13		9 5 PP
CHINA LAKE	39.86	93.3	7 37	0				8 4
SALT LAKE C.	40.30	82.9	7 42	1				
PASADENA	40.62	95.7	7 42	-1	13 31	-23		8 14
RIVERSIDE	41.21	95.2	7 48	0	13 54	-9		
BOULDER CITY	41.46	90.9	7 50	0				
PALOMAR	41.96	95.5	7 54	0				8 19
KYOTO	42.11	268.1	7 57A	1	14 19	3		
BARRETT	42.53	96.0	7 59	0				8 11
CHANGCHUN	43.02	285.7	8 1	-2				
RAPID CITY	43.56	73.3	8 13	5				
TUCSON	46.41	91.6	8 31	1				10 19 PP
IRKUTSK	49.65	306.4	8 54	-2				
PEKING	50.73	287.3	9 3A	-1				
LUBBOCK	51.02	83.5	9 5	-1	16 23	0		
ZO-SE	53.71	275.5	9 25	-1				
NANKING	54.50	278.1	9 31	-1				

TRUK	54.67	229.3	9 32	-1			
SCORESBY SD.	55.37	12.7	9 38	0	17 22	0	19 28 SCS
OTTAWA	57.94	56.0	9 49	-8	17 55	-1	
SEVEN FALLS	59.17	51.8	10 3	-2	18 12	0	22 30 SS
APATITY	59.29	350.0	10 4	-2	18 3	-11	
KIRUNA	60.02	355.7	10 10A	-1	18 21	-2	19 59 SCS
SODANKYLA	60.09	352.9	10 10	-2			10 21
LANCHOW	60.56	291.8	10 16A	1			
WASHINGTON	61.80	62.2	10 26	3			
SEMIPALATNSK	61.97	317.1	10 23	-1			
PALISADES	61.97	58.6	10 23	-1	18 46	-2	23 22 SS
PHILADELPHIA	62.07	60.2			18 51	2	
WESTON	62.32	55.9	10 17	-10			
TACUBAYA	62.89	93.1	10 40	10			
COLUMBIA	63.11	68.6	10 34	2			
SVERDLOVSK	63.76	331.9	10 35	-1	19 9	-1	
CANTON	64.35	275.0	10 40	0			
CHENGTU	64.35	287.4	10 39	-1			
HALIFAX	64.44	49.6	10 40	-1	19 16	-3	19 34
SKALSTUGAN	64.51	359.1	10 40	-1			
PULKOVO	67.20	349.3	10 57	-1			
HELSINKI	67.34	352.2	11 2	3			11 14
UPPSALA	68.12	356.1	11 3A	-1			21 15
KUNMING	69.30	284.3	11 11A	0			
FRUNSE	70.29	315.4	11 18	1			
COPENHAGEN	72.43	358.8	11 29K	-1			11 40 PCP
LHASA	72.50	295.8	11 33	3			
ANDIJAN	72.98	315.5					10 4
NAMANGAN	73.09	316.1	11 44	10			
BERMUDA	73.33	58.6			21 8	4	29 59 SSS
RATHFARNHAM	73.90	10.4	11 50A	11			11 58
HAMBURG	74.56	0.3	11 45	2			12 10
SHILLONG	75.20	292.5	11 46A	0			
WITTEVEEN	75.26	2.4	11 48	1			11 58
WARSAW	75.53	353.3	11 50	2	21 21	-8	12 3
POTSDAM	75.73	358.4	12 2	13			21 55
HALLE	76.63	359.0	11 54	-1			12 16
BENSBERG	77.14	2.1	11 58	1			12 9 PCP
JENA	77.20	359.3	11 58	0	22 1	14	
LWOW	77.66	351.1	12 1	1			
KRAKOW	77.77	353.8	12 1	0	21 53	0	12 15 PCP
RACIBORZ	77.85	354.9	12 2	1			
PRAGUE	78.01	357.4	12 1	-1			12 12 PCP
WARSAK DAM	78.94	312.2	12 6	-1			
PARIS	79.10	5.4	12 9A	1	22 17	10	15 11 PP
STUTTGART	79.36	0.9	12 11A	1	22 31	21	12 21 PCP
STRASBOURG	79.53	1.8	12 12	2			22 43
TUBINGEN	79.60	0.9	12 11	0			
LAHORE	79.67	308.8	12 11	0			12 23 PCP
BRATISLAVA	79.81	355.5	12 13	1	22 30	15	12 21
MAKHACH-KALA	79.91	333.3	12 13	1			22 12
EBINGEN	79.95	1.0	12 13A	0			
BASLE	80.58	2.0	12 17A	1			
BESANCON	80.81	3.1	12 19	2			
SIMFEROPOL	81.07	343.2	12 18	-1	22 34	6	
NEUCHATEL	81.09	2.4	12 19	0			
SOTCHI	81.27	338.9	12 20	0			
CLERMONT-FD.	82.17	5.2	12 26	2			
BELGRADE	82.94	352.9	12 29A	1	23 5	18	15 33
SAN JUAN	83.59	68.4	12 32	0			
QUETTA	84.24	313.5	12 35A	0	22 59	-1	23 13 SCS
FLORENCE X.	84.36	359.4	12 35A	-1	23 6	5	13 39
MONACO	84.37	2.2	12 32K	-4			
ROME	86.22	358.5	12 45	0	23 21	2	23 34
TOLEDO	87.39	11.1	12 50	-1			
MALAGA	90.46	11.9	13 16A	11			
ALGIERS UNI.	91.12	6.0	13 4	-4	23 35	-30	23 52 SKKS
KSARA	91.46	339.1	13 9	-1			
RELIZANE	91.95	8.1	13 11	-1			
TAMANRASSET	105.18	4.7					18 34 PP
LWIRO	127.88	336.5	19 11	3			
LA PLATA	129.43	98.3					17 1
PRETORIA	150.34	326.3					19 58 PKP2
KIMBERLEY	154.23	330.1	20 4	10			

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JULY 13 9.H 32.M 7.S EPICENTRE -15.26-172.86 DEPTH= 0.KM

A=-0.95772 B=-0.11989 C=-0.26154 D=-0.1242 E= 0.9923
G= 0.2595 H= 0.0325 K=-0.9652 HT= 5.7

SE= 1.89

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
APIA	1.79	36.0	0 29	-3	0 49	-7		
SUVA	8.82	249.8	2 13	2	2 50	-63		
ONERAHI	23.40	206.9	5 17	6				
WELLINGTON	28.06	200.1	5 50	-5				
KAIMATA	30.34	203.4	6 17	2				
GEBBIES PASS	30.92	200.7	6 18	-2				
BRISBANE	33.89	243.3	6 41	-5				14 31
RIVERVIEW	37.34	233.7						13 24
TERRE ADELIE	59.54	199.2	10 8	1				
SCOTT BASE	63.43	184.7	10 33	0				
BYRD STATION	69.02	171.4	11 7	-2				
MATUSIRO	69.16	319.5	11 8K	-2	20 23	8		
KYOTO	69.83	316.9	11 16K	2				
WILKES	70.75	204.7			20 29	-5		
BERKELEY	71.04	40.3	11 21K	0	20 42	5		
LICK	71.11	41.1	11 22	0				
UKIAH	71.23	38.8	11 24	2				
PASADENA	71.55	45.5	11 24	0	20 40	-3		11 32
BARRETT	71.80	47.5	11 26	0				11 40
FRESNO	71.95	42.5	11 28	1				
WOODY	71.95	43.8	11 27	0				11 44
RIVERSIDE	72.01	46.0	11 27	0				12 4
PALOMAR	72.02	46.9	11 27	0				
SHASTA	72.71	37.9	11 31	0				
CHINA LAKE	72.87	44.3	11 31	-1				11 43
MINERAL	72.97	38.6	11 33	0				
TINEMAHA	73.15	43.0	11 34	0				
RENO	73.57	40.1	11 37	1				
BOULDER CITY	74.84	45.5	11 44	0				12 15
TUCSON	75.84	50.5	11 49	0				
EUREKA	75.97	41.9	11 51	1				
VICTORIA	77.18	31.2	11 56	-1				
SEATTLE	77.18	32.4	11 59A	2				
HORSESHOE B.	77.82	30.6	11 59	-1				
SALT LAKE C.	79.33	42.5	12 9	0				12 43
BUTTE	81.62	37.7	12 21	0				
HUNGRY HORSE	82.05	35.2	12 22	-1				
COLLEGE	82.13	10.5	12 22	-1				
BOZEMAN	82.35	38.6	12 26	1				
BANFF	82.83	32.3	13 26A	59				
LUBBOCK	83.21	52.7	12 29	0				
RAPID CITY	86.54	42.6	12 49	3				
FAYETTEVILLE	89.99	52.6	13 2	0				
PALISADES	106.54	51.2			25 2	60		19 12 PP
QUETTA	123.44	296.2	19 0	1				
KIRUNA	126.76	353.7	19 14	9				
COLLMBERG	143.74	353.8	19 34	-2				
KRAKOW	143.78	346.0	19 35	-2				20 15
JENA	144.24	355.2	19 35	-2				
PRAGUE	144.78	351.8	19 39	1				20 4
BRATISLAVA	146.17	348.0	19 43	2				19 55
PARIS	146.33	5.5	19 51	10				
STUTTGART	146.54	357.5	19 41	0				20 2
STRASBOURG	146.77	359.2	19 46	4				
EBINGEN	147.14	357.7	19 43	1				20 6
KSARA	148.15	310.7	19 41	-3				
NEUCHATEL	148.35	0.2						20 2
TRIESTE	149.20	350.9	19 57	11				
JERUSALEM	149.58	307.7	19 22	-24				
FLORENCE X.	151.36	353.8	20 7	18				
LWIRO	152.39	232.7	19 53	3				20 4
TAMANRASSET	172.37	11.3	20 12	2				25 32 PP

JULY 14 2.H 27.M 3.S EPICENTRE 46.11 151.39 DEPTH= 80.KM

DEPTH OF FOCUS= 0.007R

A=-0.61078 B= 0.33320 C= 0.71828 D= 0.4789 E= 0.8779

G=-0.6306 H= 0.3440 K=-0.6958 HT= -4.0

SE= 2.45

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KURILSK	2.62	251.7	0 39A	-2	1 9	-3		
NEMURO	4.98	238.2	1 9	-5	2 5	-6		
KUSIRO	5.89	240.4	1 24	-2	3 16	43		
Y.-SAKHLINSK	6.04	281.2	1 29K	1	2 43	6		
OBIHIRO	6.66	244.4	1 36	-1				2 29
ASAHIGAWA	6.81	253.3	1 43	4				
UGLEGORSK	6.97	298.6	1 43K	2				1 59
URAKAWA	7.35	240.5	1 46	0	3 7	-2		
SAPPORO	7.78	250.6	1 52	0	3 24	4		
TOMAKOMAI	7.89	246.5	2 5	11	3 47	25		
MURORAN	8.38	246.9	1 59	-2				
PETROPAVLOVK	8.46	31.2	2 3	1	3 42	6		2 18 *SP
SUTTSU	8.64	251.5			3 55	13		
MORI	8.75	246.6	2 5	-1	3 40	-4		4 11
HAKODATE	8.83	244.5	2 3	-4				3 19
AOMORI	9.34	239.4	2 13	-1	4 7	9		
MIYAKO	9.45	230.3						4 31
MORIOKA	9.85	233.1	2 14	-7	3 57	-13		3 13
MIZUSAWA	10.28	230.9	2 20	-6	4 11	-10		
AKITA	10.45	236.4	4 18	109				
SENDAI	11.03	228.5	2 44	8	4 25	-14		
SAKATA	11.16	233.9						4 35
HUKUSIMA	11.64	228.1	2 48	3				
KLYUCHI	11.79	26.4	2 50	3				3 5 *SP
ONAHAMA	12.05	224.3						4 47
SHIRAKAWA	12.25	226.8	3 3	10	4 54	-14		
MITO	12.71	224.0						5 5
UTUNOMIYA	12.87	226.2	3 13	12	5 19	-4		6 14
KAKIOKA	12.97	224.4	3 5	3	5 14	-11		
TUKUBASAN	13.02	224.6	2 56	-7	5 11	-15		
MAEBASI	13.40	228.0	3 15	7	5 31	-4		6 3
KUMAGAYA	13.43	226.5	3 8	0				6 22
MAGADAN	13.47	358.7	3 9	0				
TOKYO C.M.O.	13.62	224.2			5 27	-14		
NAGANO	13.65	231.0	3 15	4				6 9
OIWAKE	13.72	229.1	3 13	1				6 2
MATUSIRO	13.73	230.6	3 7A	-5	5 47	4		
YOKOHAMA	13.87	223.9	3 56	42	6 13	27		
MATUMOTO	14.09	230.4	3 17	0				
VLADIVOSTOK	14.20	264.9	3 29	11				6 27 SS
KOHU	14.25	227.2	3 16	-3				
HUNATU	14.25	226.4	3 22	3				
GIHU	15.37	231.1	3 37	4				6 35
NAGOYA	15.44	230.0	3 39	5				
HIKONE	15.75	231.9	3 36	-2				
KAMEYAMA	15.95	230.4	3 56	15				
KYOTO	16.22	232.5	3 42A	-2	6 45	4		
TOKUSIMA	17.56	232.7	4 0	-1	6 13	-58		
CHANGCHUN	18.57	272.4	4 12	-1				
OOITA	19.85	236.6	4 27	0	7 31	-30		
HUKUOKA	20.31	239.4	4 34K	2	8 24	14		5 18
KUMAMOTO	20.69	237.4	4 37	1				
PEKING	26.28	269.4	5 29A	0			5 46	
TIKSI	27.75	344.9	5 40	-3				6 36 PP
ZO-SE	27.75	247.9	5 43A	0	10 24	6	5 57	6 4 *SP
NANKING	28.70	252.2	5 51A	0	10 37	4	6 5	6 16 *SP
LANCHOW	36.73	271.5	7 3	2				
COLLEGE	37.39	37.9	7 6	-1				8 1
CHENGTU	39.61	264.0	7 26A	1			7 39	7 45 *SP
KUNMING	44.04	258.6	8 1A	0	14 30	3	8 13	
RABAUL	50.09	179.0	8 47	-2				
SHILLONG	51.16	267.8	8 58A	1				
RESOLUTE	51.83	18.0	8 50A	-12	16 18	2		19 52 SS
FRUNSE	52.86	296.1	9 9	0	16 32	2		
SVERDLOVSK	53.49	316.9	9 11	-3				20 57 SS
ALBERNI	53.70	53.9	9 15	-1				
HORSESHOE B.	54.50	53.1	9 20	-2				
VICTORIA	54.88	54.1	9 24	0				
TASHKENT	57.01	297.2	9 37	-3				
CORVALLIS	57.11	58.0	9 41K	1				
APATITY	57.46	336.3	9 42	-1				
BANFF	57.69	48.1	9 43A	-1				
SODANKYLA	59.42	338.3	9 53	-3				10 41 PCP

WARSAK DAM	59.88	289.0	9 59	0				
SHASTA	59.91	61.3	9 58A	-2				
HUNGRY HORSE	60.13	50.1	10 1	0				
UKIAH	60.34	63.2	10 3	0				
KIRUNA	60.56	340.8	10 3	-1	18 10	-2		10 17
MINERAL	60.60	61.2	10 4A	0				
BERKELEY	61.70	63.8	10 11A	-1	18 33	7		
RENO	62.18	60.9	10 15	0				
BUTTE	62.35	51.5	11 16	60				
LICK	62.41	63.9	10 16A	-1				
SCORESBY SD.	63.63	357.5	10 23	-2	18 59	8		
BAIRAM-ALI	63.67	297.6	10 25	0				
FRESNO	63.92	63.4	10 26	0				
EUREKA	64.53	58.9	10 31	1				
TINEMAHA	64.70	62.2	10 32	0			10 43	
WOODY	65.18	63.7	10 34A	-1			10 45	
QUETTA	65.31	288.5	10 36A	1	19 14	3		11 5 PCP
HELSINKI	65.44	333.7	10 38	2				11 7 PCP
ASHKABAD	65.75	300.0	10 39	1				
CHINA LAKE	65.89	62.9	10 39A	0			10 50	
SKALSTUGAN	65.98	341.3	10 39	-1				
SALT LAKE C.	66.11	55.6	10 41	0				
PASADENA	66.62	64.6	10 43	-1	19 32	5	10 53	
RIVERSIDE	67.22	64.3	10 46	-2			10 57	
BOULDER CITY	67.49	61.2	10 50	1				11 21
UPPSALA	67.84	336.8	10 50	-1				11 16 PCP
PALOMAR	67.96	64.5	10 52	0			11 2	
BARRETT	68.53	64.9	10 55	-1			11 6	
RAPID CITY	68.61	48.3	11 1	5				
KIROVOBAD	70.74	309.0	11 10	1				
GORIS	71.63	308.1	11 15	1	20 32	6		
TUCSON	72.45	61.7	11 19	0				
LUND	72.64	336.7	11 21	1				
COPENHAGEN	72.85	337.1	11 22	0				
BRISBANE	73.25	178.5	11 24	0				11 36
SIMFEROPOL	73.78	318.9	11 26	-1	20 57	7		21 35 SCS
LWOW	74.11	327.6	11 31	2	21 2	8		
HAMBURG	75.39	337.4	11 38	2				13 10
KRAKOW	75.39	330.0	11 37	1				11 57 PCP
COLLMBERG	76.55	334.6	11 42	-1				17 9
HALLE	76.69	335.3	11 44	0				12 22
LUBBOCK	76.83	55.2	11 46	1				
WITTEVEEN	76.93	338.9	11 47	2				
PRAGUE	77.20	333.2	11 49	2				12 6 PCP
JENA	77.30	335.3	11 47	0				
BRATISLAVA	77.97	330.7	11 51	0				12 33
BENSBERG	78.50	337.8	11 53A	-1				
RATHFARNHAM	79.15	346.6	11 57	0				
KEW	79.79	342.5	12 0	-1				
OTTAWA	79.86	31.6	12 0A	-1				
STUTTGART	79.92	335.7	12 3	2	22 27	30		
SEVEN FALLS	80.05	27.8	12 2	0				
TUBINGEN	80.18	335.6	12 3A	0				
STRASBOURG	80.50	336.5	12 5A	0	22 6	3		
EBINGEN	80.52	335.6	12 5A	0				
BREBEUF	80.52	30.3	12 25	20				
TRIESTE	81.30	331.4	12 9	0	22 37	26		
KSARA	81.46	310.6	12 11	1				
BASLE	81.51	336.1	12 10	0				15 31
PARIS	81.66	339.8	12 12A	1	22 25	10		12 17 PCP
NEUCHATEL	82.17	336.3	12 14	1				
BESANCON	82.21	337.0	12 14	1				13 26
FLORENCE X.	83.78	332.2	12 23A	2				23 41 PS
PALISADES	84.31	32.7	12 24	0	22 40	-2		
TACUBAYA	88.92	62.9	12 39	-7	23 23	-3		23 58 PS
MALAGA	94.72	340.7						26 8 PS
TAMANRASSET	104.77	327.6						18 24 PP
HUANCAYO	128.00	64.6	19 0	3				
BYRD STATION	134.86	165.8	19 6	-4				22 34 PKS
LA PAZ	135.86	61.2	19 15	4				22 41 PP

JULY 14 6.H 23.M 59.S EPICENTRE -27.07-177.99 DEPTH= 173.KM

DEPTH OF FOCUS= 0.022R

A=-0.89115 B=-0.03129 C=-0.45262 D=-0.0351 E= 0.9994

G= 0.4523 H= 0.0159 K=-0.8917 HT= 2.7

SE= 2.13

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
SUVA	9.47	338.8	2 15	2				
ONERAHI	10.85	215.1	2 36	5	4 40	10		
AUCKLAND	11.53	210.3	2 43	3	4 51	5		15 6 SCS
TUAI	12.39	198.0	2 53	2	5 0	-6		
APIA	14.42	25.0	3 10	-7	5 35	-17		3 27
NOUMEA	14.92	285.2	3 27	4	6 19	15		3 37 PP
WELLINGTON	15.38	201.0	3 22	-7	6 4	-10		15 13 SCS
COBB RIVER	15.94	206.4	3 37	2	6 19	-8		4 10
KAIMATA	17.68	206.6	3 55	-1	6 54	-12		
GEBBIES PASS	18.24	202.1	3 55	-7	7 5	-12		
ROXBURGH	21.04	205.4	4 22	-9				5 1
RIVERVIEW	27.38	248.2	5 32K	1	9 59	3		6 30 PP
MELBOURNE	32.86	241.5	6 19A	0	11 15	-8	6 42	7 36 PP
RABAUL	36.45	303.4	6 47	-2				9 9 PCP
TRUK	45.08	315.3	7 59K	-1			8 34	9 37 PP
CAPE HALLETT	45.73	185.0	7 55	-10	14 15	-19		
TERRE ADELIE	46.87	200.7	8 14	0	14 48	-3		
MADANG	47.51	307.1	7 34	-45				8 13
HAWAII V.OB.	51.20	27.9	8 45	-2	15 53	2		
HONOLULU	51.80	23.8	8 50K	-2	16 1	2		9 13
GUAM	54.15	313.4	9 6K	-3	16 6	-24		11 3 PP
PERTH	57.01	248.0	9 38	9	17 7	-1		10 21 PP
KOROR	57.33	299.6	9 29K	-3	17 12	0	10 12	10 20 PCP
WILKES	58.09	206.9						10 12 PCP
BYRD STATION	58.19	169.9	9 37K	-1	17 24	0	10 19	14 4 PCS
OASIS-BUNG.	62.06	207.0	10 5K	1	18 9	-4		
MIRNY	65.11	206.2	10 22	-2				18 44
TORISIMA	69.74	322.2	11 51	58				
MANILA	72.25	297.2	11 6	-2				
MERA	73.44	324.9	11 13K	-2				13 12
OSIMA	73.55	324.5	11 14K	-1	20 28	-1		
BAGUIO CITY	73.61	298.5	11 13	-3	20 27	-3		
AJIRO	73.91	324.5	11 16	-1	20 29	-4		
YOKOHAMA	73.93	325.1	11 17	0	20 20	-14		12 19
DJAKARTA	74.03	271.2	11 15	-3	20 18	-17		
OMAESAKI	74.03	323.6	11 28K	10				21 15
MISIMA	74.05	324.4	11 16K	-2	20 34	-1		14 12
TOKYO C.M.O.	74.07	325.3	11 18K	0	20 13	-22		12 31
SHIZUOKA	74.22	323.9	11 18K	-1				21 19
MITO	74.26	326.2	11 19	0				11 51
KAKIOKA	74.28	325.9	11 19	0				
TUKUBASAN	74.32	325.9	11 19K	-1	20 36	-2		14 9
SIOMISAKI	74.50	321.2	11 21	0				
ONAHAMA	74.50	326.9	11 20K	-1				12 43
KUMAGAYA	74.62	325.4	11 21	0				16 49
KOHU	74.64	324.5	11 21K	0	20 34	-7		
TITIBU	74.64	325.0	11 26	4	20 42	0		
UTUNOMIYA	74.69	325.9	11 21	-1	20 37	-5		13 50
OWASE	74.72	321.9	11 21	-1	20 14	-28		
IIDA	74.94	323.9	11 23	0				
MAEBASI	74.98	325.3	11 23K	0				21 20
TU	75.04	322.6	11 25	1				
NAGOYA	75.13	323.1	11 25	1	20 48	1		
KAMEYAMA	75.16	322.6	11 25K	1	20 49	2		17 23
OIWAKE	75.19	324.9	11 26	1	20 49	2		13 30
HUKUSIMA	75.34	327.1	11 26	1				
NARA	75.38	322.1	11 25	-1				
WAKAYAMA	75.41	321.4	11 27	1				
GIHU	75.41	323.2	11 25	-1	20 51	1		12 17
MATUMOTO	75.42	324.5	11 27K	1	20 54	4		
YAKUSIMA	75.46	315.7	11 27K	1	20 51	1		
OSAKA	75.52	321.9	11 27	1				21 26
MATUSIRO	75.52	324.9	11 25K	-2	20 49	-2	12 21	14 16 PP
SENDAI	75.54	327.7	11 26	-1				
HIKONE	75.59	322.8	11 27K	0	20 52	0		
IBUKISAN	75.60	322.9	11 27	0				
TOKUSIMA	75.62	320.9	11 27K	0	20 47	-5		
NAGANO	75.63	324.9	11 27	0				20 22
SUMOTO	75.66	321.3	11 27	0	20 50	-3		
KYOTO	75.69	322.3	11 27K	0	20 50	-3		
KOBE	75.74	321.7	11 28	0	20 51	-2		13 53
YAMAGATA	75.79	327.3	11 27	-1				
MIYAZAKI	75.92	317.4	11 29	0	20 36	-20		14 44

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TAKADA	75.93	325.2	11 29	0				
TAKAMATU	76.10	320.7	11 30K	0				
MIZUSAWA	76.12	328.4	11 27	-3			11 51	
MIYAKO	76.15	329.2	11 30	0				
HUKUI	76.16	323.3	11 29	-1				
TOYAMA	76.17	324.3	11 29	-1				15 1
NIIGATA	76.17	326.3	11 30	0				
KAGOSIMA	76.21	316.6	11 30	0				11 55
MATUYAMA	76.49	319.6	11 30	-2				
SAKATA	76.55	327.4	11 35	3				
MORIOKA	76.56	328.8	11 32	0				
TOYOOKA	76.56	322.0	11 31K	-1	20 59	-3		14 23
AIKAWA	76.64	325.8	11 35	2				
OOITA	76.72	318.4	11 30	-3	20 59	-5		12 8
HENGCHUN	76.74	303.3	11 31	-2	21 3	-1		
WAZIMA	76.84	324.6	11 34	0				
TOTTORI	76.86	321.6	11 32K	-2				
KUMAMOTO	76.99	317.6	11 34	-1				
HIROSIMA	77.06	319.7	11 33K	-2	21 4	-4		12 7
AKITA	77.07	328.1	11 35K	0	20 58	-10		14 17
HWALIEN	77.28	305.4	11 37	1				
NAGASAKI	77.42	317.0	11 37	0				
SAGA	77.53	317.7	11 39	1				12 30
AOMORI	77.63	329.2	11 39	1				
NEMURO	77.64	333.7	11 38	0				
ILAN	77.67	306.1	11 38	0				
HUKUOKA	77.68	318.0	11 38K	-1	21 10	-4		14 35 PP
URAKAWA	77.82	331.2	11 42	3	21 17	1		
KUSIRO	77.82	332.7	11 40K	1	21 9	-7		13 4
SAIGO	77.87	321.6	11 40	0				
TAIPEI	77.99	306.2	11 40	0	21 9	-9		
TOMIE	78.02	316.3	11 40K	0				
OBIHIRO	78.27	332.0	11 39K	-3				
HAKODATE	78.42	329.7	11 42K	-1				
TOMAKOMAI	78.64	330.7	11 45	1				
MORI	78.75	329.9	11 45	1	21 28	2	12 3	13 32
MURORAN	78.75	330.2	11 45	1				
SAPPORO	79.18	330.9	11 47K	0	21 16	-14		13 47
ASAHIGAWA	79.32	331.9	11 49	2				
SUTTSU	79.46	330.1	11 49	1				
WAKKANAI	80.94	332.5	11 56	0				
Y.-SAKHLINSK	81.77	334.0	12 1K	1			12 51	22 0
ZO-SE	81.94	310.8	12 1K	0	21 55	-4	12 54	13 10 *SP
PETROPAVLOVK	82.41	346.1	12 1	-3			12 49	23 22 *SS
SANTA CLARA	82.90	41.8	12 5K	-1	22 9	0		
CANTON	83.02	300.2	12 7K	0	22 7	-3	12 57	13 16 *SP
BERKELEY	83.07	41.2	12 7K	0	22 11	1	12 56	15 20 PP
LICK	83.08	41.9	12 7K	0	22 10	0	12 56	23 16 SP
PASADENA	83.17	46.2	12 7K	0	22 11	0	12 57	15 20 PP
UKIAH	83.36	39.8	12 10K	2	22 16	3		
PALOMAR	83.53	47.5	12 9K	0	22 16	1	13 0	38 19 PKPPKP
RIVERSIDE	83.58	46.8	12 10K	0	22 16	1	13 0	15 24 PP
VLADIVOSTOK	83.66	325.6	12 11	1				
WOODY	83.72	44.7	12 10K	0	22 24	7	12 57	38 33 PKPPKP
FRESNO	83.82	43.3	12 11K	0	22 16	-2		
ARCATA	84.08	38.0	12 13	1	22 23	3		
NANKING	84.13	310.4	12 12K	0	22 17	-4		13 19 *SP
HAYFIELD	84.56	47.9	12 14K	0			13 5	
CHINA LAKE	84.59	45.2	12 15K	0	22 29	4	13 6	38 31 PKPPKP
MANZANILLO	84.81	65.7			22 29	2		21 1
SHASTA	84.89	39.0	12 16K	0				
TINEMAHA	84.97	43.9	12 17K	1	22 24	-5	13 3	15 33 PP
MINERAL	85.10	39.7	12 16K	-1				
MAZATLAN	85.30	61.2						14 25
RENO	85.61	41.2	12 20K	0	22 27	-8		
GUADALAJARA	86.45	64.8	12 28	4	22 33	-10		
BOULDER CITY	86.46	46.5	12 24K	0	22 35	-8		30 21 PKKP
TUCSON	86.97	51.4	12 27K	1	22 35	-13		29 3 SS
CORVALLIS	87.04	35.7	12 27K	1	22 35	-14		
CHANGCHUN	87.60	322.7	12 29K	0	22 55	1		
EUREKA	87.87	43.2	12 31K	1	23 9	13		15 44 PP
CHIHUAHUA	88.41	56.7	12 39	6	22 51	-10		24 21 PS
TACUBAYA	89.19	67.8	12 42	5	23 17	8		22 51 SKS
ALBERNI	89.53	31.6	12 38K	0	22 51	-21		23 19
SEATTLE	89.63	34.0	12 40K	1	23 22	9		16 19 PP
VICTORIA	89.68	32.8	12 39K	0	21 52	-81		22 21
MAGADAN	90.06	344.7	12 39K	-2			13 29	22 50 SKKS
HORSESHOE B.	90.34	32.2	12 41K	-1	22 52	-27		23 19

PEKING	90.56	315.5	12 44K	1	23 24	3	13 39	13 53 *SP
KWANTING	91.03	315.4	12 47	2				
SALT LAKE C.	91.17	44.0	12 46K	0	23 33	7		23 1 SKS
SITKA	91.19	21.7	12 45	-1	23 29	2		22 59 SKS
LINFEN	91.39	310.2	12 52	5				
TAIYUAN	91.60	312.1	12 50	2				
VERA CRUZ	91.64	69.4	12 52	4	23 36	6		23 3 SKS
SIAN	92.22	307.5	12 54	3				
KUNMING	92.34	296.9	12 52K	1	23 38	1	13 41	16 41 PP
TATUNG	92.42	314.3	12 56	4				
COMITAN	93.67	73.7	12 57	0	23 49	1		25 9 PS
BUTTE	93.79	39.4	12 57K	-1	23 14	-35		16 43 PP
CHENGTU	94.01	302.3	13 0	1	23 55	4		23 13 SKS
LUBBOCK	94.06	54.3	12 59	0	23 57	6		23 16 SKS
HUNGRY HORSE	94.36	36.9	12 59K	-2	23 15	-39		16 47 PP
BOZEMAN	94.46	40.3	13 1K	0	24 1	6		23 21 SKS
COLLEGE	94.59	12.4	12 59K	-3	23 14	-42		16 47 PP
PAOTOW	94.77	313.4	13 4	2				
BOULDER	94.95	47.4	13 3	0				
BANFF	95.28	34.1	13 3K	-2				
HUANCAYO	95.58	106.5	13 8	2	24 13	9		23 25 SKKS
YINCHUAN	96.20	310.1	13 14	5				
LANCHOW	96.75	307.0	13 14	3	24 18	4		23 29 SKS
MERIDA	97.88	70.6			23 34	-50		24 31
RAPID CITY	98.35	44.7	13 31A	12	25 18	50		23 51 SKS
LA PAZ	99.37	113.9	13 28	5	24 45	9		17 31 PP
TOCKLAI	99.45	295.1						14 27
SASKATOON	100.41	36.4			24 48	3		31 40
FAYETTEVILLE	100.80	55.1	13 29	-1	23 50	-58		17 38 PP
SHILLONG	101.32	292.9	13 31K	-1				17 43
BALBOA HTS.	101.49	85.8	13 29	-4	23 51	-63		
CHINCHINA	103.25	91.2			25 15	6		24 3 SKS
IRKUTSK	103.90	321.8	13 42K	-1	24 2	-72		17 57 PP
BOGOTA	104.48	92.2			25 34	15		24 5 SKS
FLORISSANT	104.68	53.8	13 46K	-1	25 27	6	14 29	18 7 PP
ST. LOUIS 1	104.72	54.0	13 47	0	25 27	6		18 7 PP
TIKSI	105.05	344.8	13 45	777	24 4	-70	14 38	18 6 PP
BOKARO	105.68	289.0						24 14
GALERAZAMBA	106.08	86.0			24 23	-8		25 51 S
CHICAGO CGS.	107.76	51.8			25 57	95		18 25 PP
HYDERABAD	109.53	280.0						25 25
COLUMBIA	109.98	61.3	14 15	777	24 29	7		17 45
CLEVELAND	111.96	53.6	18 13A	-1	24 37	-3		18 59 PP
CHAPEL HILL	112.14	60.0						17 15
RESOLUTE	114.07	16.8	18 15K	-3	25 55	67		24 44 SKKS
DEHRA DUN	114.42	292.8						18 6
PENNSYLVANIA	114.43	55.2						19 21 PP
WASHINGTON	114.51	57.4	18 18	-1				15 11 P
BOMBAY	115.04	279.3						19 11
PHILADELPHIA	116.20	56.7			24 55	-1		19 31 PP
TANANARIVE	116.45	229.0	18 23A	0			19 5	20 18 *PPP
OTTAWA	117.05	50.6	18 23	-1	27 15	136	19 13	20 23 PP
SAN JUAN	117.21	82.3	18 23	-1				
FORDHAM	117.37	55.9	18 24	0				26 17 SKKS
PALISADES	117.39	55.8	14 43	-221	24 55	-5		19 36 PP
SEMIPALATNSK	117.65	315.0	18 24	-1				19 34 PP
LAHORE	117.83	293.1	18 24	-1			19 11	22 0
WESTON	119.57	54.7	18 29A	0				29 34 SP
FRUNSE	120.21	305.8	18 30	0				26 35 SKKS
KIMBERLEY	120.36	203.2	18 32	2				
SEVEN FALLS	120.68	49.4	18 31K	0	28 6	174	19 22	20 1 PP
PRETORIA	121.75	207.9	18 36	3				
KARACHI	122.37	284.7	18 38	4				
BERMUDA	122.67	67.4	18 40	5	25 26	8		20 21 PP
QUETTA	123.61	289.6	18 37K	0			19 25	20 16 PP
TASHKENT	123.87	303.2	18 36	-1	25 20	-2	19 28	20 20 PP
HALIFAX	125.44	53.0	18 39K	-1	28 24	178		20 30 PP
SVERDLOVSK	129.30	322.7	18 47	0	25 26	-11		30 23 SKSP
ASHKABAD	131.91	297.9	18 35	-17				20 48 PP
IVIGTUT	132.26	30.2						21 14 PP
SCORESBY SD.	134.44	11.0	18 48	-9				21 27 PP
APATITY	135.25	343.5	18 57K	-2	25 46	-4	19 48	21 19 PP
SODANKYLA	136.98	346.3	18 37	-25				21 44 PP
KIRUNA	137.72	349.7	18 51	-12			19 51	21 49 PP
REYKJAVIK	139.85	16.0	19 16	9				22 16 PP
LWIRO	141.05	225.8	19 5	-5				23 45
GORIS	141.29	300.2	19 3	-7			19 58	28 46 SKKS
PULKOVO	141.97	337.1	19 6	-5			19 58	28 41 SKKS
SKALSTUGAN	142.88	352.4	19 7K	-6				22 31 SKP

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HELSINKI	143.37	340.9	19 12	-1				22 35 SKP
UPPSALA	145.51	346.1	19 15K	-2			20 4	22 33 SKP
BERGEN	146.60	357.0	19 10	-9				22 41 PP
SIMFEROPOL	148.76	313.3	19 23	1			20 13	28 37 SKKS
ABERDEEN	149.78	4.4	19 23	-1	26 13	0		22 45 SKP
KSARA	150.13	291.3	19 24K	0			20 20	23 2 PP
KSARA	150.13	291.3	19 24	0			20 20	23 2 PP
LUND	150.27	347.2	19 24	-1				
COPENHAGEN	150.43	348.0	19 25K	0				23 7 PP
WARSAW	151.10	335.5	19 26	0	26 29	15		23 5 PP
IASI	151.60	321.8	19 28	1			20 38	30 32 SKKS
LWOW	151.68	329.2	19 27	0				23 13 PP
DURHAM	152.20	4.5	19 26K	-1			20 14	23 15 PP
BACAU	152.34	321.3	19 20	-8				19 31
FOCSANI	152.67	319.5	19 24	-4				19 42
HAMBURG	152.87	349.6	19 29K	1			20 18	23 19 PP
ANGRA DO HO.	152.97	57.3						19 29
RATHFARNHAM	153.08	11.0	19 33K	4			20 11	23 31 PP
KRAKOW	153.25	333.9	19 27	-2	26 3	-14		23 19 PP
DABROWA	153.30	335.0	19 28	-1				19 34
POTSDAM	153.39	344.8	19 30	1				22 55
ISTANBUL	153.72	309.0	19 25K	-5				23 22 PP
SKALNATE PL.	153.80	332.3	19 29	-1				23 20 PP
RACIBORZ	153.88	335.9	19 29	-1				23 22 PP
BUCHAREST	154.03	318.1	19 30	0				30 52 SKKS
WITTEVEEN	154.04	353.5	19 30	0				19 52 PKP2
HELWAN	154.11	283.1	19 31K	1				19 55
CAMPULUNG	154.16	320.7	19 48	18				20 14
COLLMBERG	154.40	343.9						22 29 PP
HALLE	154.47	345.5	19 31	0				23 29 PP
DE BILT	154.89	355.4	19 30K	-1				23 26 PP
JENA	155.08	345.5	19 32	1			20 7	23 26 PP
PRAGUE	155.13	340.8	19 24	-7				23 28 PP
PLAUEN	155.35	344.4	19 33	1			20 8	23 32 PP
KEW	155.57	3.5	19 32	0			20 24	23 34 PP
BUDAPEST	155.62	331.2	19 32	0	26 15	-4	20 40	23 45 PP
HURBANOVO	155.68	332.9	19 33	1				23 33 PP
CHEB	155.68	343.6	19 31	-1				23 32 PP
BENSBERG	155.82	352.0	19 32K	0			20 11	
BRATISLAVA	155.87	334.8	19 33A	1			20 1	23 36 PP
TIMISOARA	155.89	325.7	19 37	5				20 49
SZEGED	156.07	327.9	19 33	0				
VIENNA-H.	156.07	335.9	19 34K	1				23 39 PP
SOFIA	156.66	317.4	19 33	0				23 37 PP
BELGRADE	156.93	324.9	19 33A	-1				23 48 PP
KARLSRUHE	157.54	348.9	19 35A	0				23 46 PP
STUTTGART	157.63	347.4	19 34K	-1			20 9	24 55 PP
JERSEY	157.70	7.1			27 1	39		19 13
TUBINGEN	157.88	347.5	19 36	1			20 10	
STRASBOURG	158.06	349.7	19 35	0			20 25	23 58 PP
EBINGEN	158.23	347.4	19 35K	-1			20 11	23 47 PP
SKOPJE	158.25	318.1	20 12K	36				23 52 PKS
MBOUR	158.25	121.7	19 39	3	26 29	7	20 21	23 29 PP
PARIS	158.29	359.1	19 36K	0			20 11	24 2 PP
ATHENS	158.76	306.2					20 14	
ZURICH	159.09	347.4	19 41	4				23 52 PP
BASLE	159.11	349.4	19 36K	-1				23 54 PP
TRIESTE	159.23	336.3	19 36K	-1	26 35	12	20 8	20 37 PKP2
CHUR	159.38	345.2	19 36K	-1				23 53 PP
BESANCON	159.61	352.2	19 38	1				23 58 PP
NEUCHATEL	159.73	350.2	19 37	0				23 57 PP
OROPA	160.88	347.1	19 39	1			20 26	
PAVIA	161.04	344.3	19 38K	-1			20 23	24 3 PP
BOLOGNA	161.06	339.1	19 40	1				24 28 PP
CLERMONT-FD.	161.31	357.6	19 41K	2				24 5 PP
TARANTO	161.62	320.5	19 18	-21			20 28	42 51 SS
FLORENCE X.	161.73	338.2	19 38K	-1				24 7 PP
MONACO	162.81	346.6	19 41K	1			20 30	24 19 PP
ROME	162.89	332.5	19 40K	0	27 58	92	20 31	24 11 PP
MESSINA	164.11	317.7	19 39	-3	25 57	-30	20 36	24 21 PP
REGGIO CALA.	164.11	317.2					20 37	
COIMBRA	164.30	30.9	20 26	44				24 23 PP
LISBON	165.09	36.0	19 42	-1			20 43	24 14 PP
TORTOSA	166.23	4.8	19 44	0				24 44 PP
TOLEDO	166.26	20.0	19 45K	1				24 33 PP
ALICANTE	168.56	9.9	19 43	-2	26 20	-10		24 50 PP
GRANADA	168.86	23.8	19 48A	3	27 36	66		24 51 PP
MALAGA	168.95	27.9	19 44A	-1	26 44	14		24 48 PP

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ALMERIA	169.53	20.2	19 47	1	26 15	-15	20 36	24 50 PP
ALGIERS UNI.	170.29	355.0	19 45K	-1			20 35	24 53 PP
RELIZANE	171.26	7.8	19 49K	2			20 40	24 59 PP
TAMANRASSET	174.67	217.5	19 51K	3			20 41	25 16 PP

JULY 14 8.H 10.M 53.S EPICENTRE -29.60-177.80 DEPTH= 39.KM

DEPTH OF FOCUS= 0.001R

A=-0.87030 B=-0.03347 C=-0.49138 D=-0.0384 E= 0.9993
G= 0.4910 H= 0.0189 K=-0.8709 HT= 2.0

SE= 2.55

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
ONERAHI	9.02	225.0	2 18	7				
AUCKLAND	9.54	218.6	2 40	22	4 12	7		
TUAI	10.09	203.1	2 24	-2	4 10	-9		
SUVA	11.90	342.3	2 44	-7				
WELLINGTON	13.13	205.4	3 1	-6	5 17	-16		
COBB RIVER	13.81	211.4	3 22	6	5 34	-14		
KAIMATA	15.55	211.1	3 38	0	6 16	-14		
NOUMEA	15.91	293.5	3 47	4	7 3	25		4 11 PP
GEBBIES PASS	16.01	205.9	3 37	-7	6 23	-17		
APIA	16.68	20.8	3 47	-6	6 40	-16		
ROXBURGH	18.87	208.9	4 23	3				
RIVERVIEW	26.70	252.9	5 39A	1			5 48	6 39 PPP
MELBOURNE	31.88	245.1	6 18A	-6				7 12
RABAUL	38.02	305.9	7 13	-4				9 2 PP
CAPE HALLETT	43.24	185.3	7 49	-11	13 32	-52		
TERRE ADELIE	44.58	201.6	8 11	0	14 45	2		
TRUK	47.01	316.8	8 27A	-3				10 4 PCP
MADANG	49.18	308.7	7 49	-58				
HAWAII V.OB.	53.36	26.8	9 18	0	16 50	4		
HONOLULU	54.04	22.8	9 22K	-1	17 1	6		
BYRD STATION	55.69	169.7	9 33A	-2	17 18	1		11 49 PP
GUAM	56.02	314.5	9 35A	-3	17 23	2		10 16 PCP
PERTH	56.25	249.5	9 38	-1	17 45	20		21 58 SS
KOROR	58.74	300.8	9 55A	-2				10 46 PCP
MIRNY	62.92	206.7	10 22	-3	18 45	-6		
TORISIMA	71.84	322.6	12 20	59				
DJAKARTA	74.26	271.8	11 33	-2				15 33 PPP
BAGUIO CITY	74.98	299.0	11 37	-2	21 25	12		
MERA	75.60	325.1	11 43	0				
OSIMA	75.70	324.7	11 43	-1	21 46	25		
YOKOHAMA	76.09	325.3	11 46	0	21 49	24		
OMAESAKI	76.16	323.8	11 46	0	21 56	30		
MISIMA	76.20	324.7	11 46	0	21 47	21		
TOKYO C.M.O.	76.24	325.5	11 48	1	21 35	8		16 44
MITO	76.45	326.5	11 48	0				
KAKIOKA	76.47	326.2	11 47	-1				
TUKUBASAN	76.50	326.1	11 47K	-1	21 46	16		20 53
KOHU	76.79	324.7	11 50	0	21 52	19		
KUMAGAYA	76.80	325.6	11 50	0				
TITIBU	76.81	325.3	11 47	-3	21 39	6		
UTUNOMIYA	76.87	326.2	11 51	1	21 46	12		
IIDA	77.08	324.2	11 53	2				
MAEBASI	77.15	325.5	11 51	-1	22 4	27		
SHIRAKAWA	77.16	326.7	11 52	0				
NAGOYA	77.25	323.4	11 53	1	22 2	24		
KAMEYAMA	77.26	322.9	11 54	2				14 17
OIWAKE	77.35	325.2	11 48	-5	22 13	34		
WAKAYAMA	77.48	321.6	11 57	3				
GIHU	77.53	323.4	11 54	0	22 8	27		
MATUMOTO	77.58	324.7	11 55	1	21 45	4		
TOKUSIMA	77.68	321.1	11 55	0				
MATUSIRO	77.68	325.1	11 54A	-1	21 46	3		22 40 SCS
HIKONE	77.70	323.0	11 55	0	22 6	23		
KYOTO	77.78	322.5	11 53A	-2	22 19	35		
NAGANO	77.79	325.1	11 55	0	21 56	12		
KOBE	77.82	321.9	11 57	2				22 36
KAGOSIMA	78.16	316.8	11 59	2				
HENGCHUN	78.27	303.6	12 2	4	22 6	17		
TOYAMA	78.31	324.5	11 59	1	22 21	32		
NIIGATA	78.36	326.5	11 54	-4				

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TOYOOKA	78.65	322.3	12 0	0	22 19	26		18 18
OOITA	78.73	318.7	12 1	1				
SAKATA	78.77	327.6	12 7	6				
HIROSIMA	79.10	320.0	12 1	-1				
ILAN	79.30	306.4	12 7	3	22 32	32		
AKITA	79.30	328.2	11 55	-9				22 29
NAGASAKI	79.38	317.3	12 3	-1				
SAGA	79.50	317.9	12 6	1				
TAIPEI	79.62	306.5	12 7	2	22 26	23		
HUKUOKA	79.67	318.2	12 5	-1	22 16	12		15 19 PP
URAKAWA	80.11	331.4	12 10	2				
KUSIRO	80.14	332.8	12 16	8				
HAKODATE	80.69	329.9	12 14	3				
MORI	81.01	330.0	12 15	2				
SAPPORO	81.47	331.0	12 15	0	22 28	6		15 9 PP
WAKKANAI	83.26	332.6						13 4
ZO-SE	83.72	311.0	12 26A	-1	22 50	5		12 55 *SP
Y.-SAKHLINSK	84.11	334.0	12 28A	-1				22 51 SCS
CANTON	84.44	300.3	12 30A	0			12 50	13 0 *SP
SANTA CLARA	84.67	41.5	12 31A	0	23 19	25		
PASADENA	84.80	45.9	12 30A	-2	22 55	-1		15 45 PP
BARRETT	84.80	47.9	12 32A	0	23 0	4		12 50
LICK	84.85	41.7	12 32A	0				15 59 PP
BERKELEY	84.86	40.9	12 33A	1	23 11	15		16 9 PP
PETROPAVLOVK	84.90	346.0	12 30K	-3				17 55 PPP
PALOMAR	85.11	47.2	12 33A	-1				12 51
RIVERSIDE	85.19	46.5	12 34A	0	22 59	-1		
UKIAH	85.19	39.5	12 35	1				
WOODY	85.39	44.4	12 35A	0				12 53
FRESNO	85.54	43.1	12 37	1				12 45
VLADIVOSTOK	85.83	325.6	12 38	1				22 57 SKKS
NANKING	85.89	310.4	12 37A	0	23 4	-2	12 56	13 7 *SP
HAYFIELD	86.13	47.6	12 40A	1				12 57
CHINA LAKE	86.24	45.0	12 40A	1				38 39 PKPPKP
TINEMAHA	86.67	43.7	12 42A	1				13 2
SHASTA	86.75	38.8	12 41A	-1				
MINERAL	86.94	39.5	12 41A	-2				
GUADALAJARA	87.38	64.6			23 19	-2		
RENO	87.39	41.0	12 45A	0	23 29	8		23 16 SKS
BOULDER CITY	88.07	46.3	12 48A	0	23 21	-6		
TUCSON	88.41	51.3	12 50A	0	23 43	13		
CORVALLIS	88.98	35.6	12 53A	1	23 42	6		
EUREKA	89.59	43.0	12 55A	0				38 26 PKPPKP
CHIHUAHUA	89.66	56.6	13 1	5	23 27	-15		
CHANGCHUN	89.70	322.7	12 55A	-1	23 46	4	13 14	
TACUBAYA	89.98	67.7	13 5	8	23 56	11		13 58
OAXACA	90.74	70.9						17 43
ALBERNI	91.59	31.5	13 4	-1	24 12	13		24 37
SEATTLE	91.63	33.9	13 6A	1	24 16	17		23 42 SKS
VICTORIA	91.71	32.7	13 4A	-1	24 8	8		13 20
VERA CRUZ	92.37	69.4			23 32	-34		
HORSESHOE B.	92.38	32.2	13 8A	0	23 44	-22		
PEKING	92.47	315.4	13 7A	-2			13 26	13 36 *SP
MAGADAN	92.54	344.6	13 6	-3				23 41 SKKS
SALT LAKE C.	92.87	44.0	13 10A	0	24 23	13		23 43 SKS
SITKA	93.47	21.7			24 27	12		23 47 SKS
KUNMING	93.63	296.7	13 15A	1	24 19	2	13 34	23 52 SKS
COMITAN	94.21	73.8			24 31	10		
HUANCAYO	94.70	106.6	13 21	2	23 55	-31		17 25 PP
LUBBOCK	95.39	54.4	13 21	-1	23 55	-37		
SAN SALVADOR	95.44	77.4	11 18	-124				11 29
CHENGTU	95.49	302.1	13 24A	2	24 38	5		23 59 SKS
BUTTE	[illegible]	39.5	13 22A	-1	24 47	13		23 56 SKS
BOZEMAN	96.27	40.4	13 27A	1				
HUNGRY HORSE	96.27	37.0	13 25	-1				38 25 PKPPKP
BOULDER	96.53	47.5	13 27	0				
COLLEGE	97.02	12.4	13 27A	-2	24 51	5		24 2 SKS
BANFF	97.27	34.2	13 30	0				
LA PAZ	98.19	114.1	13 37K	2	24 51	-5		24 19 SKS
LANCHOW	98.40	306.7	13 37	1	24 9	-48		14 7 *SP
RAPID CITY	100.02	44.9	13 57	14				30 14 PKKP
FAYETTEVILLE	102.10	55.4			24 31	-57		17 30 PP
SHILLONG	102.44	292.3	13 54	0				
CHINCHINA	103.02	91.7						24 34 SKKS
COLOMBO	104.08	270.0						18 43 PP
BOGOTA	104.20	92.8			24 37	-69		18 23 PP
IRKUTSK	105.98	321.3	14 7	777				27 49 PS
FLORISSANT	106.03	54.3	14 8	777	25 59	74		18 34 PP
ST. LOUIS 1	106.06	54.5			25 59	74		18 42 PP

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TIKSI	107.52	344.5			25 22	31		
HYDERABAD	110.12	279.1						29 4
COLUMBIA	111.02	62.1	18 13	-17	25 8	2		19 12 PP
GRAHAMSTOWN	113.31	202.1	18 34	0				
CLEVELAND	113.31	54.4	18 43	9				
TANANARIVE	114.90	227.9	18 38	1				19 45 PP
DEHRA DUN	115.53	291.7						29 33
BOMBAY	115.59	278.0						29 31
WASHINGTON	115.71	58.3	18 33	-6				19 41 PP
RESOLUTE	116.43	17.1	18 37A	-3				
PHILADELPHIA	117.43	57.7			26 52	81		20 16 PP
KIMBERLEY	118.10	202.5	18 44K	1				
OTTAWA	118.50	51.6	18 43	-1	25 38	3		19 53 PP
PALISADES	118.65	56.8	18 44	0	25 31	-4		20 19 PP
LAHORE	118.95	291.8	18 44	-1				
SEMIPALATNSK	119.54	314.0	18 44	-2				
PRETORIA	119.59	207.0	18 47A	1				
BREBEUF	119.96	51.9	18 48	1				
WESTON	120.87	55.9	18 55A	6				
FRUNSE	121.80	304.5	18 49A	-2				20 23 PP
WARSAK DAM	121.92	293.7	18 51	0				
SEVEN FALLS	122.18	50.5	18 50A	-1	25 45	-2		22 22 PKS
BERMUDA	123.45	68.9	18 58	4	26 2	11		20 59 PP
QUETTA	124.58	288.0	18 56A	0				20 47 PP
TASHKENT	125.36	301.7	18 46	-11				22 17 PKS
HALIFAX	126.79	54.4	19 0A	0				
SVERDLOVSK	131.39	321.4	19 7	-2				22 32 SKP
ASHKABAD	133.19	295.8	19 14	2				22 44 PKS
SCORESBY SD.	136.88	11.6	19 18	-1				21 59 PP
APATITY	137.71	342.8	19 20A	-1	26 49	24		22 53 PKS
LWIRO	139.38	223.4	19 19	-5				
SODANKYLA	139.46	345.7	19 14	-10				
KIRUNA	140.23	349.3	19 17	-8				22 19 PP
REYKJAVIK	142.22	17.0	19 31	2				20 2
GORIS	142.66	297.4	19 24	-6				
PULKOVO	144.34	335.9	19 29	-3				19 45
SKALSTUGAN	145.39	352.1	19 33A	-1				
HELSINKI	145.80	339.9	19 36	1				23 17 PKS
UPPSALA	147.99	345.3	19 36A	-3				23 10 PP
SIMFEROPOL	150.57	310.2	19 41	-2				23 11 PKS
KSARA	151.12	287.1	19 44A	1				23 32 PP
JERUSALEM	151.58	282.8	19 9A	-35				22 12
LUND	152.76	346.4	19 46	0				19 53
COPENHAGEN	152.92	347.2	19 46	0				23 40 PP
WARSAW	153.44	333.7	19 48	1				23 43 PP
IASI	153.64	318.8	19 59	12				20 10
LWOW	153.90	326.8	19 47	0				20 1
FOCSANI	154.65	316.2						20 10
DURHAM	154.70	5.1	19 51K	3				23 33 PP
HELWAN	154.73	277.9	19 47	-1				23 39
ISTANBUL	155.37	304.9	19 45	-4				23 47 PP
HAMBURG	155.38	348.8	19 49	0				23 50 PP
RATHFARNHAM	155.51	12.3	19 50K	1				23 54 PP
KRAKOW	155.57	331.7	19 47	-3				23 56 PP
POTSDAM	155.86	343.6	19 51	1				23 53 PP
BUCHAREST	155.97	314.5	19 55	5				20 19 PKP2
SKALNATE PL.	156.09	329.9	20 19	29				24 1 PP
CAMPULUNG	156.17	317.3						20 18
RACIBORZ	156.23	333.9	19 51	1				20 21 PKP2
WITTEVEEN	156.57	353.2	19 52	1				
COLLMBERG	156.87	342.6	19 50	-1	31 11	260	20 23	21 21 PP
HALLE	156.94	344.3						20 24
DE BILT	157.41	355.2	19 41	-11				23 1 PP
PRAGUE	157.56	339.1	20 17	25				24 2 PP
JENA	157.56	344.3	19 51	-1				24 1 PP
PLAUEN	157.82	343.0	19 53	0				20 25
BUDAPEST	157.88	328.5						20 27 PKP2
HURBANOVO	157.97	330.3	20 23	30				24 15 PP
KEW	158.07	4.2	19 52	-1				24 3 PP
CHEB	158.14	342.2	20 31	38				24 23 PP
BRATISLAVA	158.20	332.4	19 54	1				24 13 PP
SZEGED	158.26	324.8						20 32 PKP2
BENSBERG	158.34	351.5	19 53	0				20 27 PKP2
SOFIA	158.58	313.3	19 52	-2				24 9 PP
BELGRADE	159.05	321.5	19 16A	-38				19 54
KARLSRUHE	160.04	348.0	19 54A	-1				20 36 PKP2
STUTTGART	160.12	346.3	19 55A	0			20 42	20 35 PKP2
JERSEY	160.17	8.3						22 32

SKOPJE	160.17	313.7	20 7	11				
TUBINGEN	160.37	346.3						20 24
STRASBOURG	160.57	348.8	19 55A	-1	27 26	31		24 17 PP
EBINGEN	160.73	346.2	19 53	-3			20 40	
PARIS	160.81	359.4	19 52A	-4	26 52	-3		24 20 PP
TRIESTE	161.58	333.6	19 55A	-2				24 26 PP
BASLE	161.62	348.4	19 56	-1				23 47
CHUR	161.85	343.7	19 56A	-1				20 45
BESANCON	162.13	351.6	19 56	-1				20 44 PKP2
NEUCHATEL	162.24	349.3	19 57	0				20 44
OROPA	163.37	345.7	19 59	1				20 57 PKP2
BOLOGNA	163.45	336.5	20 12	13				21 32
PAVIA	163.50	342.4	19 57	-2				20 55 PKP2
TARANTO	163.61	315.4	18 55	-64				30 47 SKKS
CLERMONT-FD.	163.84	357.7	20 1A	2				24 44 PP
FLORENCE X.	164.11	335.4	19 57	-2				20 54 PKP2
ROME	165.17	328.6	19 29	-31				24 31 PP
REGGIO CALA.	165.98	310.8	20 5	4				24 56 PP
MESSINA	165.99	311.3	19 59	-2				24 52 PP
COIMBRA	166.30	36.6	20 5	4				
LISBON	166.93	42.9	20 3	1				25 1 PP
TOLEDO	168.53	24.9	20 4A	1				24 51 PP
TORTOSA	168.72	6.6	20 4A	1				25 29 PP
ALICANTE	170.99	13.6	19 59	-5	27 5	3		25 27 PP
MALAGA	171.00	36.2	20 14	10				
GRANADA	171.02	31.1	20 6K	2	27 18	16		25 18 PP
ALMERIA	171.78	27.2	20 5	0	27 5	3		25 20 PP
TAMANRASSET	172.59	204.5	20 5	0				25 21 PP
ALGIERS UNI.	172.81	354.6	20 4A	-1				25 23 PP
RELIZANE	173.71	12.4	20 7A	2				25 33 PP

JULY 14 9.H 42.M 27.S EPICENTRE -20.44-174.06 DEPTH= 0.KM

A=-0.93278 B=-0.09708 C=-0.34712 D=-0.1035 E= 0.9946
G= 0.3453 H= 0.0359 K=-0.9378 HT= 4.6

SE= 2.03

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
APIA	6.95	18.6	1 42	-3	3 5	-1		2 49
SUVA	7.45	286.5	1 55	3				
NOUMEA	18.25	260.7	4 21	5				4 29 PP
ONERAHI	18.35	211.2	4 15	-2				
AUCKLAND	19.04	208.4	4 27	1	8 2	6		
TUAI	19.81	200.6			8 15	2		
WELLINGTON	22.84	202.1	5 7	1	9 6	-5		
COBB RIVER	23.45	205.7	5 14	3	9 22	0		
KAIMATA	25.19	205.8	5 28	0	9 50	-2		
GEBBIES PASS	25.72	202.6	5 31	-2	10 2	1		
ROXBURGH	28.54	204.9			10 49	2		
BRISBANE	30.82	250.4	6 17	-2	11 34	11		
RIVERVIEW	33.54	239.3	6 39A	-4	11 58	-7		
RABAUL	36.61	291.6	7 3	-6				
MELBOURNE	39.40	234.9	7 31	-2				
MADANG	46.96	298.5	7 52	-42				
GUAM	52.68	306.3	9 19	1				
TERRE ADELIE	54.31	200.0	9 31	1	17 22	15		
KOROR	57.62	293.3	9 52	-2				
BYRD STATION	64.11	170.9	10 36	-2	19 14	0		20 32 SCS
TUKUBASAN	71.09	322.2	11 21A	-1				
MATUSIRO	72.41	321.3	11 29A	-1				21 35 SCS
MIRNY	72.61	204.8	11 30	-1	20 55	-1		
KYOTO	72.88	318.7	11 32A	0				
BERKELEY	75.71	39.9	11 48A	-1				
LICK	75.75	40.7	11 49A	0				
PASADENA	75.98	45.0	11 50	0				12 6
BARRETT	76.13	47.0	11 51	0				12 7
PALOMAR	76.39	46.4	11 52	-1				12 8
RIVERSIDE	76.41	45.6	11 53	0				12 46
WOODY	76.47	43.4	11 52	-1				12 8
FRESNO	76.53	42.1	11 54	1				
PETROPAVLOVK	76.99	343.5	11 53	-3				
CHINA LAKE	77.36	44.0	11 59	1				12 13
HAYFIELD	77.44	46.7	11 58	0				
SHASTA	77.48	37.7	11 59K	0				

Y.-SAKHLINSK	77.57	331.3	11 59	0		
TINEMAHA	77.70	42.6	12 0	0		12 15
MINERAL	77.71	38.3	12 1A	1		
RENO	78.25	39.9	12 3	0		
BOULDER CITY	79.27	45.2	12 9	0		12 51
TUCSON	80.00	50.2	12 13	1		13 15
ZO-SE	80.53	308.1	12 15A	0		
EUREKA	80.57	41.8	12 16	1		
SEATTLE	82.14	32.4	12 25	1		12 38
VICTORIA	82.17	31.3	12 28	4		
NANKING	82.76	307.9	12 27A	0		
HORSESHOE B.	82.83	30.7	12 23	-4		
CANTON	82.99	297.7	12 29A	1		
TACUBAYA	83.30	66.6				12 45
SALT LAKE C.	83.90	42.5	12 57	24		
CHANGCHUN	84.65	320.7	12 36	0		
BUTTE	86.39	37.8	12 45	0		
HUNGRY HORSE	86.91	35.4	12 47	-1		
BOZEMAN	87.08	38.7	12 50	1		
LUBBOCK	87.24	52.7	12 49	0		
COLLEGE	87.40	10.9	12 48	-2	24 28 58	
BANFF	87.79	32.5	12 51	-1		
BOULDER	87.79	45.7	12 55	3		
PEKING	88.48	313.9	12 56A	1		
RAPID CITY	91.09	42.9	13 19	12		
KUNMING	92.66	295.6	13 17A	2		
CHENGTU	93.59	301.3	13 20	1		
HUANCAYO	93.85	104.3	13 23	3		
FAYETTEVILLE	94.01	53.1	13 20	-1		24 32 PS
LANCHOW	95.70	306.3	13 31	2		
LA PAZ	98.56	111.1			24 33 -35	32 19 SS
NAMANGAN	121.24	306.2				20 15
QUETTA	124.56	293.1	19 3A	2		20 55 PP
SVERDLOVSK	126.01	326.3	19 12	8		
SCORESBY SD.	127.27	11.4	19 3	-3		
APATITY	129.79	346.7				22 32
SODANKYLA	131.27	349.5	19 11	-3		
KIRUNA	131.74	352.7	19 16	1		21 32 PP
SKALSTUGAN	136.67	355.9	19 25	1		
MAKHACH-KALA	138.66	312.5	19 28	0		
UPPSALA	139.75	350.9	19 20	-10		
TIFLIS	140.97	311.8	19 31	-1		
COPENHAGEN	144.47	353.7	19 37	-1		
DURHAM	145.25	7.6	19 49	10		22 55 PP
RATHFARNHAM	145.87	13.1	19 51	11		
WARSAW	146.17	343.3	19 43	2		22 51 PP
SIMFEROPOL	146.25	322.9	19 43	2		
HAMBURG	146.78	355.6	19 45	3		
LWOW	147.34	338.1	19 45	2		
POTSDAM	147.64	351.8	19 46	3		19 59
WITTEVEEN	147.67	359.2	19 49	6		
IASI	148.04	331.7	19 50	6		
LWIRO	148.21	227.5	19 47A	3		19 51 PKP
KRAKOW	148.43	342.7	19 44	-1		
KEW	148.64	7.5	19 48	3		20 3
HALLE	148.64	352.8	19 50	5		20 31
COLLMBERG	148.70	351.5	19 49	4		
RACIBORZ	148.86	344.7	19 50	5		20 32
JENA	149.25	353.0	19 51	5		
BENSBERG	149.53	358.5	19 52	6		20 19
PLAUEN	149.60	352.2	19 51	5		20 40
PRAGUE	149.67	349.1	19 56	9		21 43
KSARA	150.33	302.9	19 50	2		23 30 PP
BUCHAREST	150.81	329.6	19 55	7		20 59
BRATISLAVA	150.90	344.5	19 50	2		24 3
KARLSRUHE	151.42	356.6	19 52K	3		20 16
JERUSALEM	151.47	299.3	19 21	-28		19 32
ISTANBUL	151.55	321.4	19 54	5		
PARIS	151.56	4.8	19 50	1		23 24 PP
STUTTGART	151.61	355.5	19 51	1		23 42 PP
STRASBOURG	151.88	357.4	19 59	9		23 52 PP
EBINGEN	152.22	355.6	19 50	0		20 12
BELGRADE	152.87	337.0	20 11A	20		23 10
BASLE	152.94	357.6				20 11
BESANCON	153.25	359.9	20 2	10		
NEUCHATEL	153.49	358.5				20 15
TRIESTE	154.04	347.4	19 54	1		20 2
PAVIA	155.18	354.6				23 55
HELWAN	155.22	297.3	19 56	1		21 13

FLORENCE X.	156.31	350.4	19 57	1	20 47 PKP2
MONACO	156.74	357.3	20 38	41	
ROME	157.90	346.9	19 18	-40	24 25 PP
GRANADA	161.36	24.5	20 6K	4	24 56 PP
MALAGA	161.43	26.9	20 4	2	
ALGIERS UNI.	163.53	8.2	20 6	2	24 43 PP
RELIZANE	164.03	16.1	20 4	-1	20 59 PKP2
TAMANRASSET	177.64	9.5	20 14	2	25 50 PP

JULY 15 9.H 36.M 32.S EPICENTRE 36.50 -7.19 DEPTH= 0.KM

A= 0.79944 B=-0.10091 C= 0.59221 D=-0.1252 E=-0.9921
G= 0.5876 H=-0.0742 K=-0.8058 HT= -0.4

SE= 2.25

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
MALAGA	2.26	83.6						0 43 PG
LISBON	2.71	325.6	0 44K	-1	1 33	14		0 57 PG
GRANADA	2.96	75.7	0 52K	3	1 34	8		1 22 PGSG
ALMERIA	3.81	83.3	1 1	0	1 46	-2		1 53
COIMBRA	3.82	345.6	0 50	-11				
TOLEDO	4.19	35.3	1 7A	1	1 38	-19		
ALICANTE	5.65	68.9	1 28	1	2 29	-5		
RELIZANE	6.31	94.5	1 36	0	2 49	-1		2 20
ALGIERS UNI.	8.24	85.1	2 3	0	3 33	-5		2 29
BARCELONA	8.77	53.1						4 46
CLERMONT-FD.	12.08	36.8	2 54	-2	5 40	27		
PARIS	14.20	27.0	3 24	0	6 31	27		6 39 SS
BESANCON	14.53	38.2						6 49
NEUCHATEL	14.86	40.7						7 7
PAVIA	15.10	49.9						8 8
BASLE	15.53	40.2						4 46 SG
EBINGEN	16.67	40.5	3 46	-10				
RATHFARNHAM	16.81	1.9	4 14	16				
KARLSRUHE	16.92	37.5			7 9	2		8 53
TUBINGEN	16.94	39.7						4 36
STUTTGART	17.16	39.3	4 2	0	7 0	-13		7 41 SS
TAMANRASSET	17.55	137.7	4 5	-2	7 24	2		4 18 PP
BENSBERG	17.75	31.0						7 40
TRIESTE	18.20	53.4	4 14	-1				
DURHAM	18.68	10.2	4 19	-2				9 16
JENA	19.72	37.1	4 35	2	8 34	23		
PLAUEN	19.74	38.8	4 43	10				
HALLE	20.27	36.3						6 39
COLLMBERG	20.65	37.9	4 42	-1	11 4	154		11 31
PRAGUE	20.68	42.3	4 44	0	8 40	9		5 43
HAMBURG	20.85	29.7	4 49	4				
BRATISLAVA	21.32	49.3	4 48	-2				
RACIBORZ	22.79	45.5	5 30	25				5 36 PP
COPENHAGEN	23.38	28.7			9 28	7		
KRAKOW	23.79	46.8	5 15	0				6 35
UPPSALA	28.31	26.5	5 56	-1				
SKALSTUGAN	29.60	17.6	6 19	10				
KIRUNA	35.03	17.9	6 55	-1				
SODANKYLA	36.38	21.3	7 6	-1				
APATITY	38.58	23.6						17 26
LWIRO	51.07	131.0	9 7A	1				
RAPID CITY	69.53	310.1	11 10	-2				
HUNGRY HORSE	73.41	318.2	11 37	2				
BUTTE	73.99	315.7	11 39	0				
COLLEGE	74.36	343.7	11 38	-3				
EUREKA	79.96	311.9	12 14	2				
TUCSON	81.17	303.6	12 25	6				
BOULDER CITY	81.47	308.6	11 44	-36				
MINERAL	82.68	315.4	12 27A	1				
SOUTH POLE	126.31	180.0	19 8	3				

JULY 17 11.H 10.M 23.S EPICENTRE -11.56 166.43 DEPTH= 116.KM

DEPTH OF FOCUS= 0.013R

A=-0.95262 B= 0.22993 C=-0.19911 D= 0.2346 E= 0.9721
G= 0.1936 H=-0.0467 K=-0.9800 HT= 6.3

SE= 1.61

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
NOUMEA	10.68	179.9	2 32A	1	4 32	3		2 43 PP
SUVA	13.32	120.9			5 46	15		3 8 PP
RABAUL	15.90	296.3	3 38	0	6 35	4		3 51 PP
BRISBANE	20.23	216.6	4 29	1	8 7	4		
APIA	21.37	98.3	4 41	2	8 42	18		9 9
TRUK	23.83	321.8	5 2	-1			5 19	5 40 *SP
ONERAHI	25.15	164.7	5 20	4	9 36	6		
RIVERVIEW	26.20	209.8	5 26A	0	9 50	3		8 50 PCP
AUCKLAND	26.30	164.7	5 25	-2	9 55	6		
MADANG	26.45	308.0	4 39	-49				
KARAPIRO	27.48	164.3	5 37	0	10 23	15		
TUAI	28.76	162.4	5 49	0	10 29	1		
COBB RIVER	29.92	170.4	6 1	2	10 50	3		
WELLINGTON	30.50	167.6	6 1A	-3	10 51	-5		6 24 PP
KAIMATA	31.15	172.9	6 9	-1	10 56	-10		
MELBOURNE	32.46	212.7	6 21A	0	11 21	-5	7 0	7 36 PP
GEBBIES PASS	32.47	171.6	6 20	-1	11 26	-1		
GUAM	32.88	318.5	6 24	-1	11 38	5	6 38	7 19 PP
ROXBURGH	33.96	176.4	6 33A	-1	11 47	-3		7 57 PP
KOROR	36.91	299.1	6 59	0	12 38	3	7 30	8 24 PP
HONOLULU	47.75	47.0	8 26	-1	15 21	8	8 56	16 1 *SS
HAWAII V.OB.	48.70	51.1	8 34	0	15 38	11		
PERTH	50.68	238.1	8 51	1	16 7	13		
MANILA	51.99	298.9	8 59	0	16 18	6		
BAGUIO CITY	53.19	300.7	9 7	-1	16 33	5		
TUKUBASAN	53.62	333.5	8 11	-61				10 45 PP
KYOTO	54.70	329.1	9 17A	-2	16 49	0		
MATUSIRO	54.74	332.2	9 18A	-2	16 48	-1		10 18 PCP
TERRE ADELIE	57.70	191.4	9 40	-1	17 29	1		
DJAKARTA	59.05	269.7	9 48	-2	17 46	0		
ZO-SE	60.69	315.7	10 1A	0	18 10	3	10 30	22 7 SS
HONG KONG	61.29	303.4	10 5A	0	18 20	5		
Y.-SAKHLINSK	61.99	341.8	10 9	-1				
CANTON	62.38	303.7	10 13A	0	18 32	4		
NANKING	62.89	315.2	10 15A	-1	18 37	2	10 45	22 43 SS
PETROPAVLOVK	64.77	354.8	10 25	-3	18 55	-3		
WILKES	66.12	201.6	10 33	-4	19 18	4		23 39 SS
CHANGCHUN	66.62	328.8	10 39	-1	19 20	0	11 9	
PEKING	69.30	320.9	10 56	-1	19 49	-3		
KWANTING	69.77	320.8	11 1	1				
LINFEN	70.16	315.2	11 6	4				
TAIYUAN	70.33	317.2	11 4	1				
SIAN	71.06	312.4	11 10	3	20 16	3		
TATUNG	71.15	319.6	11 8	0				
MAGADAN	71.98	351.7	11 11	-2	20 21	-2		
KUNMING	71.98	301.2	11 14A	1	20 28	5	11 45	
MIRNY	72.88	203.7	11 17A	-1	20 33	-1		
CHENGTU	73.15	307.1	11 20A	0	20 40	3	11 50	14 6 PP
PAOTOW	73.50	318.6	11 24	2				
TIENSHUI	73.53	311.4	11 24	2				
YINCHUAN	74.96	315.2	11 32	2	21 2	5		
LANCHOW	75.61	312.1	11 35A	1	21 8	4	12 5	
BYRD STATION	75.93	170.0	11 35	-1	21 8	1	12 3	14 25 PP
WUWEI	77.27	313.3	11 45	2				
SOUTH POLE	78.52	180.0	11 49	-1	21 35	0	12 19	14 43 PP
TOCKLAI	79.25	300.2	11 57A	3				
SHILLONG	81.36	298.3	12 6A	1	22 7	2	12 54	15 7 PP
UKIAH	82.46	47.6	12 11	0			12 42	
BRANNER	82.62	49.5	12 11A	-1			12 43	
BERKELEY	82.71	49.1	12 12A	0	22 21	2	12 43	34 49
SANTA CLARA	82.76	49.7	12 14	2				23 19
IRKUTSK	82.84	326.8	12 13	0				
SITKA	83.39	27.9	12 14	-2	22 25	0	12 45	
COLLEGE	83.57	17.9	12 15	-1	22 24	-3	12 45	38 15 PKPPKP
FRESNO	84.19	50.8	12 20A	0			12 51	
CORVALLIS	84.43	42.5	12 21A	0	22 36	0	12 51	
WOODY	84.57	52.1	12 21A	0				30 34 PKKP
PASADENA	84.63	53.7	12 22	0	22 39	1		15 37 PP
DALTON	84.92	53.8	12 23A	0				12 54
DALTON	84.92	53.8	12 23A	0			12 54	
LHASA	85.00	302.0	12 17A	-6	22 28	4	12 48	22 25 SKS
RENO	85.08	48.2	12 24A	0			12 56	

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RIVERSIDE	85.21	54.1	12 24A	-1				30 32 PKKP
BARRETT	85.39	55.5	12 25A	-1	22 41	-4		30 32 PKKP
PALOMAR	85.43	54.8	12 26A	0				30 31 PKKP
TINEMAHA	85.47	50.9	12 26A	0				38 42 PKPPKP
CHINA LAKE	85.58	52.3	12 27A	1				30 32 PKKP
BOKARO	86.21	295.1	12 30	0	22 44	-9		
SEATTLE	86.21	39.9	12 31	1	22 55	2		13 2
HORSESHOE B.	86.26	38.1	12 28A	-2				12 59
HAYFIELD	86.52	54.8	12 31A	0				38 36 PKPPKP
BOULDER CITY	87.78	52.8	12 37	0			13 6	14 17
EUREKA	87.89	49.1	12 38	0			13 9	38 25 PKPPKP
COLOMBO	88.02	277.4	12 40	2	23 19	9		
TUCSON	90.05	57.2	12 49	1			13 20	23 19 SKKS
KODAIKANAL	91.01	280.2			23 10	-2		
HYDERABAD	91.51	287.4			23 16	0		
BANFF	91.53	38.0	12 53A	-2				13 25
HUNGRY HORSE	91.70	41.0	12 55	0			13 26	17 11 PP
BUTTE	92.06	43.5	12 57	0			13 28	
BOZEMAN	93.01	44.1	13 3	1			13 33	17 7 PKP
DEHRA DUN	94.36	299.9						13 9
POONA	96.01	287.6	13 14	-1				
SEMIPALATNSK	96.39	320.0	13 15	-2				
BOMBAY	97.04	287.8						17 1 PP
LUBBOCK	97.71	57.4	13 53	30				
LAHORE	97.72	300.6	13 22	-1	24 36	1	13 50	17 18 PP
RAPID CITY	98.20	46.7	13 32	7			14 2	17 59 PP
FRUNSE	99.11	311.9	13 28	-1				
WARSAK DAM	100.37	302.7	13 35	0				
NAMANGAN	101.05	309.8	13 39	1				
RESOLUTE	103.37	15.7	13 46	-2				18 32 PP
QUETTA	103.85	298.4	13 50A	0	25 35	9	14 18	18 4 PP
FAYETTEVILLE	104.25	55.5	14 22	30				18 11 PP
FLORISSANT	107.40	52.9	14 6A	777	26 3	65		18 32 PP
ST. LOUIS 1	107.51	53.0	14 5A	777	24 37	-21		18 33 PP
CHICAGO CGS.	109.50	49.7			25 39	58		18 47 PP
TANANARIVE	112.57	243.9	18 25	3				
HUANCAYO	114.35	108.9	18 30	4				19 19 PP
COLUMBIA	115.02	57.9						19 27 PP
APATITY	116.14	341.8	18 29A	0	25 8	-1	18 57	19 57 PP
CHAPEL HILL	116.51	55.6						19 37 PP
OTTAWA	117.64	44.7	18 33K	1	24 59	-15		19 42 PP
WASHINGTON	117.76	52.1						19 45 PP
SODANKYLA	118.25	343.5	18 33	-1				19 50 PP
CHINCHINA	118.34	90.6	18 36	2				19 52 PP
MAKHACH-KALA	118.89	312.8						19 54 PP
LA PAZ	119.27	116.4	18 38	2	25 13	-7		37 4 SS
SHAWINIGAN	119.37	42.9	18 35A	-1				19 55 PP
KIRUNA	119.51	345.9						19 55 PP
BOGOTA	119.80	91.3			26 49	87		20 3 PP
PALISADES	119.81	49.3	1'. 58	-219			15 31	19 58 PP
SEVEN FALLS	120.49	41.8	18 38	0				20 3 PP
SCORESBY SD.	120.89	3.3						20 6 PP
PIETERMZBURG	121.08	224.9	18 40A	1				
TIFLIS	121.11	311.9	18 41	2				
GRAHAMSTOWN	121.23	219.1	18 41	2				
WESTON	121.41	47.2	18 42A	2				29 45
HELSINKI	123.76	338.0	18 48	4				
SOTCHI	124.23	315.2	18 45	0				
HERMANUS	124.68	213.0						39 4 SKKKS
SKALSTUGAN	124.93	346.2	18 46	-1				
PRETORIA	124.98	227.1	18 48K	1				
KIMBERLEY	125.42	222.0	18 49K	2				
HALIFAX	126.08	42.6	18 49K	0				20 42 PP
UPPSALA	126.51	341.0	18 48	-2				20 39 PP
SIMFEROPOL	127.49	318.6	18 52	1				
BERMUDA	128.81	57.7	18 58	4				21 4 PP
SAN JUAN	128.92	75.7	18 55	1			19 27	22 11 PKS
KSARA	129.84	304.5	18 58A	2			19 30	21 15 PP
IASI	130.46	323.9	19 3	6				
WARSAW	130.78	332.5						22 59 PKS
JERUSALEM	130.86	302.1	19 2	4				21 22 PP
LWOW	130.89	328.5	18 59	1				
COPENHAGEN	131.52	340.6	19 1A	2				21 21 PP
KRAKOW	132.77	331.0	19 4	3				21 26 PP
BUCHAREST	132.80	321.4	19 2	0				18 58
ABERDEEN	133.64	351.4						21 34 PP
POTSDAM	133.97	337.5	19 5	1				19 33
HAMBURG	134.08	340.6	19 6	2				21 35 PP

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COLLMBERG	134.85	336.7	18 50	-15	22 27	-216		19 5 PP
TIMISOARA	134.88	325.7	19 13	8				
HURBANOVO	135.09	329.9	19 9	3				21 45 PP
HALLE	135.09	337.6	19 5	-1				21 38
PRAGUE	135.22	334.6	18 55	-11				21 51 PP
BRATISLAVA	135.41	330.9	19 6	0	25 57	-7	19 36	21 45 PP
SOFIA	135.42	320.9	19 5	-1				20 4
JENA	135.69	337.4	19 6	-1				21 46 PP
LWIRO	135.70	254.6	18 57	-10				21 44 PP
WITTEVEEN	135.75	342.5	19 8	1				
PLAUEN	135.81	336.6						21 45 PP
DURHAM	135.87	350.0	19 8K	1			19 43	22 6 PP
BELGRADE	135.89	325.1	19 8	1	26 24	19		21 41 PP
DE BILT	136.81	343.2	19 7A	-2			19 40	21 52 PP
SKOPJE	137.01	321.2	19 49	40				22 39 PP
BENSBERG	137.21	340.8	19 10	0				21 55 PP
ATHENS	137.58	314.8	19 14	4				22 44 PKS
STUTTGART	138.34	337.3	19 3A	-9				28 32 SKKS
KARLSRUHE	138.44	338.2	19 13A	1				22 13 PP
KEW	138.76	347.4	19 14	1			19 46	21 59 PP
TRIESTE	138.82	330.7	19 13	0	26 12	3	19 42	22 5 PP
EBINGEN	138.91	337.0	19 5	-8				22 6
STRASBOURG	139.03	338.4	19 13	0	26 4	-6	19 47	22 8 PP
BASLE	139.98	337.7	19 4	-11				22 14 PP
PARIS	140.53	343.3	19 8	-8	26 17	5	19 50	22 18 PP
NEUCHATEL	140.66	337.8	19 12	-4				22 18 PP
BESANCON	140.80	338.9	19 17	1				22 18 PP
BOLOGNA	140.82	331.5	19 40	24				22 59
PAVIA	141.26	334.1	19 12	-5			19 41	22 23 PP
JERSEY	141.30	348.0						29 40
FLORENCE X.	141.40	330.8	19 9	-8				22 23 PP
OROPA	141.40	335.6	19 15	-2				22 28 PP
ROME	142.16	327.7	19 13	-6				22 27 PP
MESSINA	142.86	320.6	19 17K	-3	26 30	14		22 29 PP
CLERMONT-FD.	143.06	340.5	19 19	-1				
TOLEDO	150.56	345.0	19 35A	3				23 9 PP
ALGIERS UNI.	150.77	331.9	19 34A	1				23 13 PP
ALICANTE	150.87	338.5	19 27	-6	26 21	-6		23 10 PP
COIMBRA	151.12	351.8	19 32	-1				23 59 PP
RELIZANE	152.73	334.3	19 45	9				23 32 PP
ALMERIA	152.91	340.2	19 36	0				23 27 PP
GRANADA	152.96	342.3	19 37K	1	26 56	26		23 28 PP
MALAGA	153.62	343.2	19 37K	0				23 37 PP
TAMANRASSET	158.65	304.0	19 46A	3				24 0 PP
MBOUR	175.66	49.4	20 0	4	26 46	1		25 29 PP

JULY 17 18.H 39.M 57.S EPICENTRE -0.82 -13.09 DEPTH= 0.KM

A= 0.97393 B=-0.22642 C=-0.01421 D=-0.2264 E=-0.9740
G=-0.0138 H= 0.0032 K=-0.9999 HT= 7.2

SE= 2.32

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
MBOUR	15.58	345.9	3 44	1	6 36	-1		3 58 PP
LOME	15.86	64.1	3 46	0	6 41	-2		7 11 SS
TAMANRASSET	29.64	36.5	6 12A	2	11 17	12		7 5 PP
MALAGA	38.21	11.3	7 23	0				
RELIZANE	38.54	17.9	7 25	-1				8 50 PP
ALMERIA	38.75	13.7	7 45	17				
GRANADA	38.82	12.1	8 6	37	15 12	105		
ALGIERS UNI.	40.29	20.2	7 42	1	13 49	0		9 7 PP
ALICANTE	40.67	15.3	7 51	7	14 8	13		9 29 PP
TOLEDO	41.34	10.5	7 51	2				9 31 PP
LWIRO	41.90	92.4	7 55A	1	14 18	5		
KIMBERLEY	45.58	131.0	8 23A	-1				
PRETORIA	46.85	125.4	8 35	1				
MESSINA	46.95	31.1			15 34	8		
ROME	48.40	25.5	8 45	-1	15 57	10		10 39 PP
CLERMONT-FD.	48.55	15.1	8 48	1	16 0	11		19 27 SS
GRAHAMSTOWN	49.28	135.2	8 52A	-1				
FLORENCE X.	49.45	23.1						10 37 PP
PAVIA	49.87	20.5						16 29
NEUCHATEL	50.76	17.6	9 4	0				
PARIS	51.24	13.2	9 8	0	16 24	-2		11 4 PP

BASLE	51.42	17.8	9 9	0			
TRIESTE	52.00	23.7	9 14	1	16 44	8	
STRASBOURG	52.42	17.4	9 17	0	16 47	5	11 15 PP
EBINGEN	52.43	18.5	9 16A	-1			
STUTTGART	53.03	18.3	9 19	-2	16 52	2	
BENSBERG	54.39	15.6	9 31	0			
DE BILT	54.93	13.7					17 23
BRATISLAVA	55.39	24.1	9 28	-10			11 23
PLAUEN	55.48	19.3	9 35	-4			10 50
SAN JUAN	55.49	293.0	9 48	9			
JENA	55.67	18.7	9 39	-1			11 40 PP
PRAGUE	55.90	21.1	9 43	1			11 16
WITTEVEEN	55.96	14.3	9 13	-30			
JERUSALEM	56.02	50.1	9 47	4			
DURHAM	56.21	8.0	9 43	-1			
LA PAZ	56.38	250.8	9 49	3	17 43	7	
COLLMBERG	56.45	19.3	9 44	-2			
BUCHAREST	56.95	32.7	9 50	0	17 30	-12	
KSARA	57.41	48.2	9 49	-4	17 49	0	11 58 PP
HAMBURG	57.50	16.1	9 54	0			
BERMUDA	58.80	309.2			18 11	4	
COPENHAGEN	60.05	16.4			18 33	10	
WARSAW	60.13	23.4					18 32 PS
BOGOTA	61.16	275.7	10 20	1	18 40	2	
SIMFEROPOL	61.81	36.2	10 23	0			
HUANCAYO	62.71	256.9	10 26	-3			
HALIFAX	63.63	322.0	10 32	-3			
SOTCHI	64.56	39.9	10 41	0			
UPPSALA	65.06	16.5	10 43	-2			
SKALSTUGAN	66.95	12.0	10 56	-1			
PALISADES	68.92	314.9			20 11	-2	
SEVEN FALLS	69.26	321.9	11 11	0			
MAKHACH-KALA	69.47	43.1	11 12	0			
SHAWINIGAN	70.24	320.7	11 15	-2			
OTTAWA	71.71	318.8	11 25	-1			
MORGANTOWN	72.88	312.0	11 32	-1			
SODANKYLA	73.47	14.9	11 35	-1			
APATITY	75.45	16.7	11 47	-1			
QUETTA	81.80	59.5	12 25A	3	22 45	10	23 51 PPS
NAMANGAN	86.57	49.1	12 48	2			
SOUTH POLE	89.19	180.0	12 58	-1			
MATUSIRO	135.62	33.6	19 25	2			
KOROR	147.03	77.8	19 53	10			

JULY 18 12.H 6.M 47.S EPICENTRE 30.04 138.94 DEPTH= 430.KM

DEPTH OF FOCUS= 0.063R

A=-0.65386 B= 0.56957 C= 0.49806 D= 0.6568 E= 0.7540
G=-0.3756 H= 0.3271 K=-0.8671 HT= 1.8

SE= 2.04

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
TORISIMA	1.25	69.2	0 54	-1	1 33	-6		
HATIDYOZIMA	3.14	13.7	1 6	-1	1 56	-4		
SIOMISAKI	4.34	322.4	1 19	2	2 19	0		
OMAESAKI	4.59	352.5	1 20	0	2 23	0		
OWASE	4.64	330.6	1 21	1				
OSIMA	4.73	4.4	1 21	0	2 20	-5		
HAMAMATU	4.78	347.8	2 25	63				
MERA	4.92	8.5	1 24	1	2 24	-5		
SHIZUOKA	4.94	354.8	1 23	0	2 28	-1		
AJIRO	5.00	1.5	1 22	-2	2 27	-3		
MISIMA	5.07	0.1	1 25	1	2 29	-2		
TU	5.11	337.0	1 26	1	2 35	3		
KAMEYAMA	5.23	337.1	1 28	2	2 37	3		
NARA	5.32	331.2	1 27	0	2 38	2		
NAGOYA	5.38	342.5	1 30	2	2 39	2		
YOKOHAMA	5.41	6.2	1 22	-6	2 36	-1		1 36
OSAKA	5.43	328.8	1 37	9	2 38	0		
HUNATU	5.45	358.5	1 29	1	2 35	-3		
TOKUSIMA	5.46	318.5	1 30	2	2 40	2		
SUMOTO	5.51	322.4	1 30	1	2 41	2		
IIDA	5.55	350.6	1 32	3	2 39	-1		
KOHU	5.58	356.9	1 30	0	2 30	-11		

KOBE	5.62	326.5	1 40	10	2 43	2		
GIHU	5.65	341.7	1 32	2	2 41	-1		3 45
KYOTO	5.66	332.2	1 31	1	2 42	0		
TOKYO C.M.O.	5.67	6.7	1 29	-2	2 38	-4		
HIKONE	5.69	337.2	1 32	1	2 47	4		
KOTI	5.79	308.6	1 33	1	2 43	-1		14 8 SCS
SIMIDU	5.79	299.7	2 43	71				
TYOSI	5.89	15.3	1 32	-1	2 43	-3		
TITIBU	5.93	1.1	1 32	-1	2 45	-2		
TAKAMATU	5.95	317.1	2 7	34	3 48	61		
KUMAGAYA	6.11	3.3	1 34	-1	2 47	-3		
TUKUBASAN	6.24	8.7	1 33A	-4	2 44	-9		13 59 SCS
MATUMOTO	6.25	352.8	1 37	0	2 53	0		
KAKIOKA	6.26	9.2	1 34	-3	2 50	-3		
OIWAKE	6.28	357.1	1 34	-3	2 52	-2		
MAEBASI	6.34	0.9	1 37	-1	2 51	-4		1 58
HUKUI	6.40	340.2	1 40	2	2 58	2		
MITO	6.45	11.0	1 35	-4	2 54	-3		
MATUYAMA	6.48	307.3	1 35	-4	2 51	-7		
TOYOOKA	6.48	328.7	1 38	-1	2 58	0		
MATUSIRO	6.52	354.9	1 37A	-3	2 55	-4		10 34 SCP
UTUNOMIYA	6.54	6.6	1 39	-1	2 53	-6		
NAGANO	6.64	354.8	1 40	-1	2 59	-2		2 13
MIYAZAKI	6.72	288.1	1 44A	2	3 9	6		
TOYAMA	6.80	348.1	1 46	3	3 7	3		
HIROSIMA	7.01	309.7	1 43	-2	3 9	1		
OOITA	7.01	298.9	1 47A	2	3 7	-1		
ONAHAMA	7.08	12.8	1 47	1	3 4	-6		4 3
SHIRAKAWA	7.14	8.2	1 45	-1	3 3	-8		
ASOSAN	7.30	295.0	1 49	1				2 29
YAKUSIMA	7.31	275.3	1 49	1	3 17	3		
KAGOSIMA	7.38	284.1	1 51	2	3 21	6		2 37
HAMADA	7.56	311.6	1 52	1	3 21	2		
KUMAMOTO	7.57	293.6	1 50	-1	3 24	5		
HUKUSIMA	7.80	9.0	1 53	-1	3 15	-9		
SIMONOSEKI	7.84	301.9			3 17	-8		
NIIGATA	7.86	0.6			3 20	-5		
SAGA	8.03	295.7	2 4	8	3 36	7		
HUKUOKA	8.06	298.1	1 58K	1	3 34	5		
NAGASAKI	8.20	291.4	2 0	2	3 38	6		
YAMAGATA	8.27	7.7	1 57	-2	3 33	0		
SENDAI	8.37	10.7	1 58	-2	3 31	-4		
ISINOMAKI	8.60	12.6	2 1	-2	3 36	-4		
SAKATA	8.87	4.5	2 9	3				
TOMIE	9.07	289.1	2 9K	1	3 52	2		
ITUHARA	9.18	299.3	2 10	1	3 53	1		
MIZUSAWA	9.25	10.7	2 10	0	3 52	-1		
AKITA	9.70	5.3	2 14	-1	4 5	2		4 54
MORIOKA	9.81	10.1	2 16	0	4 4	-1		
MIYAKO	9.90	13.7	2 14	-3	4 2	-5		
HATINOHE	10.68	10.7	2 25	-1	4 21	-2		
AOMORI	10.86	7.4	2 29	1	4 28	2		
HAKODATE	11.80	6.5	2 39	0	4 48	2		
MORI	12.11	5.8	2 44	2				
URAKAWA	12.48	13.3	2 47	1	5 1	2		
TOMAKOMAI	12.63	9.0	2 47	-1				
SAPPORO	13.15	7.8	2 54	1	5 14	1		
KUSIRO	13.64	17.2	2 58	-1	5 25	3		
NEMURO	14.29	20.0	3 6	1	5 45	10		
ZO-SE	15.34	278.4	3 13K	-3	5 53	-2		
Y.-SAKHLINSK	17.14	8.8	3 36	2	6 35	7		
GUAM	17.34	160.7	3 36	0	6 38	6		4 13
NANKING	17.38	281.8			6 35	2		
CHANGCHUN	17.52	325.5	3 38	0	6 40	5		
SUIHWA	18.99	334.0	3 47	-6				
PEKING	21.09	304.3	4 12K	-1	7 43	6		6 8 *SP
BAGUIO CITY	21.60	235.2	4 15	-3	7 49	3		
MANILA	22.59	231.0	4 25	-2				6 21
KOROR	22.98	191.4	4 29	-1				11 3 SCP
TRUK	25.52	149.1	4 51	-2			6 8	
PETROPAVLOVK	27.20	26.4	5 7	-1				6 18
LANCHOW	29.94	290.9	5 31	-1	10 2	3		
CHENGTU	30.08	280.1	5 32K	-1				
MAGADAN	30.59	11.9	5 38	0				
KUNMING	32.44	270.1	5 52K	-2				
IRKUTSK	33.75	321.1	6 3	-2	10 59	2		
TOCKLAI	38.82	276.3						7 52
LHASA	41.30	281.9	7 8	0				

SHILLONG	41.65	275.7	7 7	-3				
SEMIPALATNSK	47.85	312.5	7 56	-2				
DEHRA DUN	52.05	286.7	8 30	1				
FRUNSE	52.16	302.9	8 30	0				
NAMANGAN	54.62	301.1	8 47	-1				
LAHORE	54.78	289.2	8 47K	-2				
COLLEGE	56.14	29.5	8 57	-2	16 16	3		18 4 SCS
BRISBANE	58.76	165.3	9 16	-1				10 50
QUETTA	61.23	290.0	9 32K	-1	17 17	-1		
RIVERVIEW	64.56	168.8						20 37 *SS
APATITY	68.24	336.5	10 16K	-1	18 42	-1		14 20 PPP
SODANKYLA	70.62	337.7	10 30	-2	19 10	0		11 6
KIRUNA	72.32	339.5	10 41	-1	19 29	0		11 12
PULKOVO	73.17	329.9	10 45	-2				
TIFLIS	73.54	308.9	10 49	0				
CORVALLIS	74.65	47.2	10 57	2				
HELSINKI	75.21	331.8	10 59	1				11 19
SOTCHI	76.05	312.3	11 2	-1				
BANFF	76.06	38.7	11 3A	0				
SKALSTUGAN	77.65	338.4	11 11	0				14 12 PP
MINERAL	77.74	50.5	11 11A	-1				
UPPSALA	78.32	333.9	11 14	-1	20 31	-3		11 41
HUNGRY HORSE	78.37	40.6	11 16	1	20 37	3		
BERKELEY	78.49	53.0	11 17A	1				
SIMFEROPOL	78.86	315.6	11 19	1				
LICK	79.18	53.2	11 21	1				11 33
RENO	79.34	50.5	11 22A	2				
BUTTE	80.47	42.1	11 31	5			13 1	
FRESNO	80.74	52.9	11 29A	1				
BOZEMAN	81.54	41.8	11 34	2				
TINEMAHA	81.67	52.0	11 35A	2				13 15
LWOW	81.78	323.6	11 33	0				
EUREKA	81.91	49.0	11 36	2			13 9	14 49 PP
CHINA LAKE	82.75	52.8	11 39A	1				
COPENHAGEN	83.20	332.7	11 40	0	21 24	1		
PASADENA	83.23	54.5	11 41A	1				
KSARA	83.52	305.3	11 43	1	21 24	-2		
KRAKOW	83.71	325.4	11 43	0	21 24	-4		14 56 PP
SALT LAKE C.	83.84	46.2	11 45	2				
RIVERSIDE	83.87	54.3	11 44A	0				
BOULDER CITY	84.56	51.5	11 49	2				
PALOMAR	84.58	54.6	11 49A	2				
BARRETT	85.07	55.1	11 51A	1				
HAYFIELD	85.25	53.7	11 52A	2			13 25	
RAPID CITY	86.95	39.6	12 14	15	22 36	37		15 42 PP
BOULDER	88.30	43.8	12 7	2				
HELWAN	88.92	304.1	12 7K	-1				
TUCSON	89.40	52.7	12 12	2				15 50 PP
STUTTGART	89.62	329.4	12 11K	0				
TUBINGEN	89.85	329.3	12 7	-5				
EBINGEN	90.16	329.1	11 31	-42				
STRASBOURG	90.38	330.0	12 15	0				
PARIS	92.39	332.9	12 25K	1				
BERMUDA	114.00	21.8						25 13
SOUTH POLE	119.87	180.0	17 59	-1			19 30	20 54 *PPP
KIMBERLEY	123.37	253.6	17 48K	-19				
HUANCAYO	143.54	68.0	18 45	0				21 47 SKP
LA PAZ	151.80	67.5	18 58	1				

JULY 19 13.H 2.M 17.S EPICENTRE 24.46 122.29 DEPTH= 110.KM

DEPTH OF FOCUS= 0.012R

A=-0.48684 B= 0.77037 C= 0.41173 D= 0.8453 E= 0.5342
G=-0.2200 H= 0.3481 K=-0.9113 HT= 3.5

SE= 3.43

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
ILAN	0.58	302.3	0 16K	-3	0 26	-7		
HWALIEN	0.78	231.7	0 20A	0	0 24	-12		
TAIPEI	0.90	309.2	0 19K	-2	0 32	-5		
HSINCHU	1.25	286.0	0 23	-2	0 40	-3		
TAICHUNG	1.50	258.5	0 29A	1	0 49	1		
HSINKONG	1.59	212.1	0 27A	-2	0 51	1		
ALISHAN	1.65	235.9	0 31A	2	1 0	9		

TAINAN	2.39	233.0	0 40	1	1 20	12	
TAWU	2.46	211.6	0 40A	0	1 16	6	
PENGHU	2.67	250.3	0 41	-2	1 11	-4	
HENGCHUN	2.83	210.4	0 47	2	1 25	6	
ZO-SE	6.69	351.8	1 33K	-4	2 48	-4	2 2 *SP
HONG KONG	7.76	255.6	1 51A	-1			
BAGUIO CITY	8.16	191.7	1 57	0	3 28	0	
NANKING	8.16	338.6	1 53K	-4	3 29	1	
CANTON	8.37	262.4	1 59A	-1	3 41	8	2 21
YAKUSIMA	9.42	48.9	2 12	-2			
MANILA	9.90	187.4	2 22	1	4 11	1	
TOMIE	9.92	33.5	2 19A	-2			
KAGOSIMA	10.17	44.0	2 20	-4	4 45	28	2 56
NAGASAKI	10.60	37.3	2 28	-2			
MIYAZAKI	10.95	45.2	2 34	-1	5 1	26	
KUMAMOTO	11.13	39.6	2 35	-2			
SAGA	11.22	36.9	2 37	-1			
ASOSAN	11.40	40.5	2 34	-6			
ITUHARA	11.46	30.5	2 37	-4			
HUKUOKA	11.54	36.2	2 40A	-2	5 5	16	3 2
OOITA	11.96	41.0	2 47	-1	5 33	34	
SIMONOSEKI	12.09	36.6	2 49	-1			
SIMIDU	12.51	46.1	2 58	3	5 44	32	8 7
MATUYAMA	13.06	42.0	3 7	5	5 30	5	
HIROSIMA	13.24	39.5	3 3	-2	5 49	19	
KOTI	13.36	44.8	2 55	-11	6 14	42	
HAMADA	13.43	37.0	3 4	-3	5 26	-8	6 11
TAKAMATU	14.19	43.5	3 11	-6			6 14
TOKUSIMA	14.37	45.4	3 14	-5			6 38
MATSUE	14.38	37.9	3 20	1			
YONAGO	14.53	38.6	3 28	7			
SUMOTO	14.73	45.2	3 30	6	7 1	56	3 43
SIOMISAKI	14.80	49.7	3 44	19			
KOBE	15.13	44.8	3 35	6			6 29
SIAN	15.19	313.0	3 37	7	6 33	18	
TOYOOKA	15.46	41.6	3 43	10	7 13	52	
TAIYUAN	15.66	330.3	3 38	3			
KYOTO	15.70	44.8	3 26A	-10	6 29	2	
TU	16.04	47.1	3 49	9			
KAMEYAMA	16.08	46.7	3 48	7	7 23	48	7 3
HIKONE	16.19	45.1	3 51	9	7 46	68	
PEKING	16.36	343.1	3 44	0	6 49	7	4 14 *SP
NAGOYA	16.60	46.6	3 58	11			
GIHU	16.60	45.6	3 38	-9	7 40	52	4 11
TORISIMA	17.06	65.5	3 52	-1			
OMAESAKI	17.13	50.2	3 53	-1			
CHENGTU	17.34	294.9	3 55A	-1	7 11	7	4 28 *SP
IIDA	17.37	47.0	4 9	12			
TIENSHUI	17.55	308.8	3 59	0			
HATIDYOZIMA	17.60	56.8	4 5	6			
TOYAMA	17.68	42.9	4 0	0			
KUNMING	17.82	276.0	4 3A	1	7 25	11	4 33 *SP
MATUMOTO	17.89	45.3	4 22	19			9 31
MISIMA	17.92	49.8	3 58	-5			
KOHU	17.93	47.9	4 1	-2			
HUNATU	18.00	48.5	3 53	-11	7 28	10	
OSIMA	18.04	51.4	3 57	-8	7 56	37	
MATUSIRO	18.23	44.9	4 0A	-7	7 18	-5	4 22
NAGANO	18.29	44.6	4 8	0			8 45
OIWAKE	18.32	46.0	4 11	3	7 35	10	
MERA	18.44	51.5	4 15	6			
TITIBU	18.47	47.7	4 17	7			
YOKOHAMA	18.57	49.9	4 32	21	7 26	-6	
MAEBASI	18.70	46.6	4 11	-1			8 9
TOKYO C.M.O.	18.77	49.4	4 9	-4	7 43	8	4 47
KUMAGAYA	18.77	47.7	4 9	-4			9 49
PAOTOW	19.08	330.3	4 20	4			
TUKUBASAN	19.29	48.5	4 10	-9	7 44	-2	
UTUNOMIYA	19.32	47.3	4 31	12	7 44	-2	
KAKIOKA	19.35	48.5	4 15	-4	7 44	-3	
CHANGCHUN	19.48	6.6	4 16K	-4	7 51	2	4 47 *SP
YINCHUAN	19.50	319.5	4 23	2	7 58	8	
NIIGATA	19.59	42.8	4 53	31			
MITO	19.63	48.5	4 51	29			5 31
LANCHOW	19.68	310.3	4 23A	0	8 0	7	4 42 PP
KOROR	20.65	143.6	4 32	-1	8 22	10	5 28
SENDAI	20.97	44.6	5 0	24	8 22	4	
AKITA	21.37	40.3	4 40	0			6 14

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WUWEI	21.46	313.4	4 46	5				
MIZUSAWA	21.62	43.0	4 45	3				
MORI	23.22	36.3	5 3	5				6 39
GUAM	23.85	113.2	5 2	-2	9 20	11		5 26
SAPPORO	24.31	35.5	4 53	-15	8 9	-67		5 21
SHILLONG	27.56	278.8	5 37K	-2	10 14	4	6 3	6 20 PP
Y.-SAKHLINSK	27.75	30.9	5 39	-1			6 4	12 19 SSS
LHASA	28.30	287.4	5 46	0	10 28	6		6 21 *SP
IRKUTSK	30.96	338.4	6 7	-2	11 3	-1	6 33	11 48 *SS
DJAKARTA	33.98	208.3	6 34	-1	12 6	15		
DEHRA DUN	39.53	288.6	7 26	5	13 20	5		15 58 SS
PETROPAVLOVK	39.57	34.1	7 20	-2			7 45	9 26 PCP
MAGADAN	40.34	22.1						9 23 PCP
RABAUL	40.70	130.4	7 31K	0				9 51 PPP
SEMIPALATNSK	41.45	319.7	7 34	-3				
LAHORE	42.66	290.7	7 46	-1	14 2	0		
FRUNSE	43.12	307.3	7 49	-2				17 39 SCS
WARSAK DAM	44.90	294.3	8 8	3				
POONA	45.28	272.3	8 13	5				
BOMBAY	46.11	273.2						10 10 PP
TASHKENT	46.86	304.5	8 22	1	15 6	4	8 48	18 1 SCS
TIKSI	47.35	2.8	8 21	-3	15 4	-5	8 49	15 42 *SS
QUETTA	49.10	289.6	8 38A	0	15 41	8		10 30 PP
KARACHI	49.72	283.9	8 47	4				
ASHKABAD	55.35	300.3	9 24	-1			9 52	17 48
BRISBANE	59.54	148.2	9 52	-2	17 54	1		
RIVERVIEW	64.14	153.5	10 27	2	18 58	7	10 52	19 42 PPS
GORIS	64.41	303.7	10 29	2	19 1	6		
MELBOURNE	65.52	160.4	10 32K	-2				11 0
APATITY	67.23	335.4	10 42	-2	19 34	5	11 8	15 6 PPP
COLLEGE	68.10	27.4	10 45	-5				
SODANKYLA	69.83	335.8	10 56	-4	19 57	-3		11 37
PULKOVO	70.17	327.5	11 1	-2			11 28	20 54 SCS
SIMFEROPOL	71.91	311.7	11 15	2	20 25	1	11 40	21 13 *SS
KIRUNA	71.95	337.0	11 10	-3	20 25	1	11 40	16 3
HELSINKI	72.63	328.7	11 19	2				11 32 PCP
KSARA	74.00	300.2	11 30A	5	21 8	21	12 0	21 34 SCS
JERUSALEM	75.20	298.4	11 36	4				22 0 PS
UPPSALA	76.17	329.8	11 35	-3	21 8	-3	12 2	21 34 SCS
SITKA	76.23	33.3	11 35	-3	21 11	-1		21 46 SCS
LWOW	76.77	318.8	11 41	0	21 18	0		21 43 SCS
SKALSTUGAN	76.78	334.4	11 41	0			12 9	12 27
BUCHAREST	77.48	313.1	11 48	3	21 29	4		12 10
WARSAW	77.58	321.9	11 49	4	21 32	6		22 14 PS
RESOLUTE	78.23	9.4	12 12	23	21 30	-3		
HELWAN	79.00	297.8	11 52K	-1	21 43	2		
KRAKOW	79.11	320.1	11 52	-2				22 29 PS
RACIBORZ	80.10	320.6	12 1	2				12 7 PCP
COPENHAGEN	80.55	327.3	12 5	3	22 0	2		22 50 PS
SCORESBY SD.	82.00	348.6	12 6	-3	22 24	12		12 38
PRAGUE	82.26	321.8						13 7
COLLMBERG	82.45	323.3	12 9	-2				15 18 PP
HALLE	82.91	323.8	12 13	-1				12 45
PLAUEN	83.31	322.9	12 13	-3				
JENA	83.41	323.4	12 16	0				15 59 PP
TANANARIVE	84.59	246.5	12 22A	0				12 27 PCP
WITTEVEEN	84.95	326.7	11 55	-29				
STUTTGART	85.85	322.4	12 25	-3	22 56	5		12 29 PCP
DE BILT	86.11	326.6	12 13	-17	22 53	0		
ABERDEEN	86.28	333.2			22 47	-8		23 40 *SS
EBINGEN	86.30	322.0	12 31	0				
STRASBOURG	86.75	322.8	12 29	-4	22 57	-2	13 1	13 19 *SP
MESSINA	87.32	310.9	12 34	-2	23 6	1		15 59 PP
DURHAM	87.64	331.2						22 56
SEATTLE	87.77	37.7	12 38	0	23 1	-8		23 16
BANFF	89.17	32.2	12 40	-4				
KEW	89.20	328.2			23 22	0		23 6 SKS
PARIS	89.45	325.0	12 57	11	23 29	5		16 43 PP
CLERMONT-FD.	90.97	322.3			24 25	47		
JERSEY	91.55	327.2						14 28
HUNGRY HORSE	91.74	33.7	12 55	-1	23 19	-26		23 49 SCS
TERRE ADELIE	92.13	172.5	12 55	-3				16 33 PP
MIRNY	93.40	191.3	13 2	-2				
BUTTE	94.02	34.8	14 6	59			14 34	
LWIRO	94.10	269.4	13 8	0				
EUREKA	96.33	41.5	13 19	2				30 37 PKKP
TINEMAHA	96.41	44.5	13 0	-18				
KING RANCH	96.46	46.6	13 17	-1				
WOODY	96.82	45.9	13 16	-3				13 40

PASADENA	98.19	46.8						23 43
DALTON	98.42	46.6						13 53
PALOMAR	99.55	46.8						13 59
BARRETT	100.08	47.2						14 2
TAMANRASSET	102.73	302.4			25 21	3		17 58 PP
TUCSON	104.17	44.4						18 12 PP
CHINCHINA	145.94	33.2	19 28	2				19 54
HUANCAYO	159.24	56.7	20 17	32				20 53
LA PAZ	167.43	52.9	19 56	3				25 11 PP

JULY 20 9.H 55.M 37.S EPICENTRE -21.52 33.42 DEPTH= 0.KM

A= 0.77716 B= 0.51282 C=-0.36474 D= 0.5508 E=-0.8347
G=-0.3044 H=-0.2009 K=-0.9311 HT= 4.3

SE= 2.60

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
PRETORIA	6.38	227.8	1 38	0				
PIETERMZBURG	8.51	198.1	1 56	-11				
KIMBERLEY	10.63	225.7	2 34	-3				
TANANARIVE	13.52	81.5	3 16	0	5 49	1		
HERMANUS	17.92	221.2			7 24	-6		
LWIRO	19.68	346.2	4 34A	1	8 24	14		
HELWAN	51.13	357.7	9 6	-1				16 23
TAMANRASSET	51.75	326.6	9 11	0	16 33	0		11 8 PP
KSARA	55.08	2.5	9 35	-1	17 21	3		21 2 SS
QUETTA	60.68	33.3	10 12	-3	18 32	1		
MBOUR	60.97	301.4	10 19	2				13 7 PP
MESSINA	61.73	344.1			18 52	8		
ALGIERS UNI.	64.68	333.3	10 40	-2	19 18	-4		12 46
GRANADA	68.02	328.8	11 21A	18	20 9	7		
FLORENCE X.	68.09	342.9	10 47	-17	20 12	9		
TOLEDO	70.38	330.2	11 19	1				
CLERMONT-FD.	72.41	338.3			21 5	12		
STUTTGART	73.24	343.5	11 33	-2	21 13	10		
STRASBOURG	73.46	342.6			21 15	10		13 21
COLLMBERG	74.70	346.9	11 44	1				
PARIS	75.27	339.4	11 50	3	20 58	-28		
SCOTT BASE	77.23	170.9	12 0	2				
BYRD STATION	77.61	184.7	12 1	1				
KEW	78.48	339.2			22 6	6		
DURHAM	81.68	340.4	12 18	-4				13 25
KIRUNA	89.60	355.1			23 51	0		
LA PAZ	94.35	250.5	13 28	5				17 42 PP
MATUSIRO	114.07	58.5						27 15
RAPID CITY	137.78	312.6	19 39	13				
HUNGRY HORSE	142.68	323.7	19 37	2				
SALT LAKE C.	144.93	311.1	19 43	4				
TUCSON	146.51	296.2	19 46	4				
SEATTLE	147.42	328.9	19 51	8				
EUREKA	148.34	311.3	19 48	3				
BOULDER CITY	148.82	304.5	19 53	7				20 15
HAYFIELD	150.13	300.6	19 59	11				
RENO	150.94	314.2	19 53	4				
TINEMAHA	150.97	308.5	19 59	10				
PALOMAR	151.21	300.5	19 55	6				20 9
BARRETT	151.24	299.1	19 55	6				20 9
RIVERSIDE	151.44	302.0	19 58	8				20 9
MINERAL	151.67	317.1	19 50	0				
DALTON	151.72	302.6	19 58	8				
WOODY	151.98	306.3	20 2	12				
FRESNO	152.23	309.0	19 54	3				
KING RANCH	152.78	306.2	19 57	5				
LICK	153.28	311.6	18 41K	-71				

JULY 20 14.H 8.M 12.S EPICENTRE 42.69 145.48 DEPTH= 0.KM

A=-0.60747 B= 0.41784 C= 0.67557 D= 0.5667 E= 0.8239
G=-0.5566 H= 0.3829 K=-0.7373 HT= -2.7

SE= 2.22

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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
NEMURO	0.64	6.6	0 18	2				0 26
ABASHIRI	1.59	327.1	0 32K	2	0 50	-1		
OBIHIRO	1.69	278.5	0 34K	3	0 58	4		
URAKAWA	2.07	255.8	0 39A	3	1 6	3		
ASAHIGAWA	2.52	296.7	0 45	2	1 12	-3		0 56
TOMAKOMAI	2.88	267.9	0 53	5	1 28	4		1 4
SAPPORO	3.06	278.5	0 52	1	1 28	0		1 10
KURILSK	3.07	33.4	0 54A	3	1 32	3		
MURORAN	3.35	265.3	0 57	2	1 37	1		
HAKODATE	3.65	257.2	1 1A	2	1 45	1		
HATINOHE	3.66	235.2	1 0A	1	1 38	-6		
MORI	3.68	262.4	1 3A	4	1 46	1		
WAKKANAI	3.86	316.2	1 9	7	1 48	-1		
SUTTSU	3.87	273.4	1 3	1	1 55	6		
AOMORI	3.98	243.6	1 5A	1	1 51	-1		
MIYAKO	4.03	222.2	1 4A	0	1 46	-8		
MORIOKA	4.41	228.8	1 10A	0	1 56	-7		
Y.-SAKHLINSK	4.69	336.2	1 18K	4	2 8	-2		
MIZUSAWA	4.85	224.2	1 17	1	2 8	-6		
AKITA	5.03	235.6	1 20	1	2 15	-3		1 54
ISINOMAKI	5.30	218.0	1 22	0	2 18	-7		2 38
SENDAI	5.63	219.8	1 26	-1	2 26	-7		
SAKATA	5.72	230.4	1 28	0				
YAMAGATA	5.91	223.1	1 32	1	2 36	-4		
HUKUSIMA	6.25	219.5	1 35	-1	2 38	-11		
ONAHAMA	6.73	213.1	1 44	1	2 51	-10		2 1
UGLEGORSK	6.82	340.8	1 45	1				3 11
NIIGATA	6.84	228.0	2 1	17	3 12	8		
SHIRAKAWA	6.88	217.7	1 48	3	2 59	-6		
AIKAWA	7.23	232.2	1 50	0	3 7	-6		
MITO	7.39	213.2	1 54	2	3 9	-9		
UTUNOMIYA	7.50	217.1	1 52	-1	3 13	-7		2 13
KAKIOKA	7.64	214.2	1 54	-1	3 15	-9		
TUKUBASAN	7.68	214.5	1 52A	-4	3 13	-12		2 34
TAKADA	7.87	227.2	2 2	3				
MAEBASI	8.00	220.3	2 5	5	3 25	-8		3 41
KUMAGAYA	8.06	217.8	2 2	1	3 32	-2		
NAGANO	8.22	225.4	2 4	1	3 12	-26		
TOKYO C.M.O.	8.29	214.3	2 7	3	3 30	-10		2 26
MATUSIRO	8.30	224.8	2 4A	-1	3 24	-16		2 40
OIWAKE	8.31	222.4	2 9	4	3 40	0		
TITIBU	8.33	218.6	2 3	-2				2 33
WAZIMA	8.45	234.0	2 6	-1				
YOKOHAMA	8.55	213.9	2 10	2	3 38	-8		2 29
MATUMOTO	8.66	224.5	2 9	-1				
TOYAMA	8.74	229.6	2 11	0	3 39	-12		
KOHU	8.86	219.5	2 14	2	3 48	-6		2 37
HUNATU	8.87	218.2	2 11	-1	3 50	-4		
MERA	8.92	211.4	2 11	-2				
OSIMA	9.23	213.0			4 3	0		
IIDA	9.30	222.2	2 26	8				
SHIZUOKA	9.48	217.9	2 24	3	3 55	-14		
OMAESAKI	9.87	217.4	2 26	0				5 40
GIHU	9.94	225.8	2 26	-1				3 14
HAMAMATU	10.00	219.8	3 9	41				
NAGOYA	10.01	224.2	2 25	-3	3 51	-32		
IBUKISAN	10.16	227.1	2 32	2				
HIKONE	10.31	227.1	2 31	-1				
KAMEYAMA	10.52	224.9	2 33	-2				4 17
HATIDYOZIMA	10.56	206.8			4 24	-11		
TU	10.58	224.3	2 49	13				
KYOTO	10.78	228.0	2 39	0	5 0	19		
TOYOOKA	10.93	232.7	2 40	-1	5 0	15		
OSAKA	11.17	227.3	3 9	25	5 21	30		4 10
SUMOTO	11.75	228.4	3 0	8				
YONAGO	11.88	236.4	2 53	-1				
SIOMISAKI	11.98	222.8	3 8	13				6 53
TOKUSIMA	12.12	228.4	2 55	-2				
TAKAMATU	12.24	230.7	2 57	-2				
KOTI	13.09	229.7	3 8	-2	5 44	6		
HIROSIMA	13.15	235.1	3 18	7				4 29
MATUYAMA	13.34	232.6	3 11	-2				
PETROPAVLOVK	13.65	35.6	3 25	8				3 47
OOITA	14.43	233.7	3 25A	-3				6 36
CHANGCHUN	14.74	281.3	3 30	-2				
HUKUOKA	14.92	237.4	3 33	-1	6 13	-8		6 35

SAGA	15.22	236.7	3 39	1			
KUMAMOTO	15.27	234.7	3 37	-2			
KAGOSIMA	16.25	231.8	3 50	-1			
KLYUCHI	16.82	30.5	4 1	3			
MAGADAN	17.20	9.2	4 6	3			
PEKING	22.11	273.0	4 56A	-3	8 53	-5	5 22 PP
ZO-SE	22.53	247.1	5 2A	-1			
NANKING	23.62	252.1	5 13A	0	9 23	-2	
PAOTOW	26.46	277.6	5 43	2			
KABANSK	27.62	303.4	5 48A	-3	10 28	-4	
TIKSI	30.15	349.6					7 31 PPP
LANCHOW	32.61	272.5	6 36A	1	11 49	-2	7 43 PP
HONG KONG	33.04	242.0	6 39A	0			
CANTON	33.08	244.0	6 41A	1			
BAGUIO CITY	33.73	226.7	6 44	-1	12 8	-1	
CHENGTU	35.03	263.8	6 56A	0	12 23	-6	
MANILA	35.06	224.3	6 55	-2	12 26	-3	
KOROR	36.53	198.5	7 9	0			8 10 PP
KUNMING	39.18	257.3	7 30A	-1	13 26	-6	9 1 PP
COLLEGE	42.66	35.4	7 59	-1			
SEMIPALATNSK	44.21	303.6	8 11	-2	14 38	-8	
LHASA	45.10	271.7	8 21A	1			
SHILLONG	46.76	266.4	8 30A	-3			
RABAUL	47.06	170.9	8 35	0			8 52
FRUNSE	50.55	295.9	9 1A	-1	16 12	-4	
SVERDLOVSK	53.08	316.8	9 20	-1	16 44	-7	19 2 SCS
TASHKENT	54.77	296.4	9 33	-1	17 7	-7	
LAHORE	56.28	283.7	9 43A	-2	17 49	15	
RESOLUTE	56.33	16.1	9 42A	-3			21 10 SS
WARSAK DAM	56.93	287.7	9 48	-1			
APATITY	58.84	335.4	9 59A	-4	18 1	-7	18 20 PS
SODANKYLA	60.97	337.2	10 15	-2	18 30	-5	10 25
QUETTA	62.30	286.6	10 24A	-2	18 47	-5	20 8 SCS
KIRUNA	62.33	339.5	10 24A	-3	18 45	-7	20 9 SCS
ASHKABAD	63.71	298.3	10 33	-3	18 59	-11	
PULKOVO	64.91	329.6	10 41	-2	19 18	-6	
HUNGRY HORSE	65.56	46.1	10 48	0			
MINERAL	65.99	56.7	10 50K	0			
HELSINKI	66.55	332.0	10 53	-1	19 41	-4	13 22 PP
SCORESBY SD.	66.77	355.4			19 40	-7	
BERKELEY	67.05	59.2	10 57	0			
RENO	67.57	56.5	11 1	1			
LICK	67.76	59.3	11 2	0			
SKALSTUGAN	67.76	339.4	10 59A	-3			11 21 PCP
BUTTE	67.78	47.4	11 2	0			
BOZEMAN	68.83	47.0	11 10	2			
UPPSALA	69.22	334.8	11 8A	-3	20 6	-10	
FRESNO	69.27	58.8	11 11	0			
KIROVOBAD	69.49	306.8	11 12	0	20 14	-6	
EUREKA	69.94	54.6	11 16	1			
TINEMAHA	70.08	57.8	11 17	1			
GORIS	70.29	305.8	11 17	0	20 26	-3	
WOODY	70.53	59.2	11 19A	0			
SALT LAKE C.	71.54	51.4	11 25	0			12 0
PASADENA	71.95	60.1			21 8	20	11 38
DALTON	72.17	59.9	11 28	-1			
RIVERSIDE	72.56	59.8	11 30	-1			11 43
BOULDER CITY	72.87	56.8	11 33	0			
PALOMAR	73.30	60.0	11 36	1			11 46
SIMFEROPOL	73.44	316.4	11 36A	0	21 1	-4	21 21 PS
HAYFIELD	73.85	59.0	11 39	1			
BARRETT	73.85	60.4	11 39	1			
WARSAW	73.97	328.2	11 40	1			
RAPID CITY	74.03	44.3	11 44	5			
COPENHAGEN	74.23	334.5	11 40A	-1	21 11	-3	
LWOW	74.60	325.0	11 42	-1	21 12	-6	
IASI	75.00	321.4	11 45	0			
BOULDER	75.73	48.4	10 50	-59			
KRAKOW	76.11	327.3	11 50	-1	21 29	-6	12 6 PCP
RACIBORZ	76.76	328.2	11 57	2	21 36	-6	
POTSDAM	76.77	332.3	11 54	-1			
HAMBURG	76.78	334.6	11 56	1			
COLLMBERG	77.69	331.7	11 58	-2			
BUCHAREST	77.76	320.3	12 0	-1	22 10	17	
TUCSON	77.83	57.4	12 2	1			
HALLE	77.88	332.4	12 0	-1			12 26
PRAGUE	78.19	330.2	12 0	-3	22 16	19	13 1
JENA	78.49	332.3	12 3	-2			
PLAUEN	78.65	331.7	12 2	-3			12 19

BRATISLAVA	78.73	327.6	12 4	-2				12 22
DURHAM	78.93	341.3	12 5A	-2	22 31	26		21 41
BENSBERG	79.91	334.7	12 11	-1				12 19
KSARA	80.31	307.3	12 15A	1				
STUTTGART	81.14	332.4	12 17A	-2	22 19	-9		12 29 PCP
TUBINGEN	81.39	332.4	12 19	-1				
EBINGEN	81.72	332.3	12 22A	0				
STRASBOURG	81.78	333.2	12 21	-1	22 54	19		12 58
LUBBOCK	82.26	51.0	12 25	0				
BASLE	82.76	332.7	12 26	-1				12 37
PARIS	83.24	336.4	12 30	0	22 48	-2		23 30 PS
BESANCON	83.53	333.6	12 31	0				12 53
FAYETTEVILLE	84.57	44.6	12 38A	2				
FLORENCE X.	84.65	328.6	12 35K	-2				12 50
SHAWINIGAN	84.88	25.4	12 36A	-2				
OTTAWA	84.92	27.8	12 38K	0				
SEVEN FALLS	84.97	24.0	12 38	0				
CLERMONT-FD.	85.77	334.6	12 43	1				
HALIFAX	89.27	20.3	12 58	-1				
TAMANRASSET	105.12	322.0	14 6	777				18 22 PP
LWIRO	110.92	287.1	19 16	41				
BYRD STATION	132.56	166.4	19 18	1				22 40 SKP
LA PAZ	141.24	58.0						23 4 PKS

JULY 20 15.H 38.M 49.S EPICENTRE -19.73-174.22 DEPTH= 0.KM

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G= 0.3339 H= 0.0338 K=-0.9420 HT= 4.7

SE= 2.04

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
APIA	6.34	22.0	1 36	-1	2 39	-12		2 33
SUVA	7.13	281.5	1 54	6	3 37	26		
NOUMEA	18.22	258.5	4 19A	3	7 53	15		4 33 PP
KARAPIRO	20.20	204.0	4 39	0				
TONGARIRO	21.32	202.3	4 48	-3				
WELLINGTON	23.44	201.2	5 10	-2	9 15	-7		
COBB RIVER	24.02	204.8	5 19	2				
KAIMATA	25.76	205.0	5 34	0				
GEBBIES PASS	26.31	201 8	5 37	-2	10 15	4		
BRISBANE	30 91	249.3	6 18	-3	10 37	-48		
RIVERVIEW	33.78	238.3	6 42	-4				8 8
RABAUL	36.21	290.8	7 8	1				
MELBOURNE	39.69	234.1						8 33
HONOLULU	43.72	22.0	7 10	-59				
KOROR	57.20	292.9	9 49	-2				
SCOTT BASE	58.89	184.6	10 5	2				
BYRD STATION	64.82	170.9	10 43	0				10 59 PCP
OASIS-BUNG	70.14	205.5	11 13	-4				
SOUTH POLE	70.39	180.0	11 21	3	20 28	-2		13 18
MATUSIRO	71.76	321 3	11 24	-2	20 37	-9		19 44
MIRNY	73.19	204.7	11 34	-1				
BERKELEY	75 27	40.1	11 47A	0				12 0
LICK	75 31	40.9	11 48A	1				
UKIAH	75.51	38.6	11 47	-1				
PASADENA	75 60	45 3	11 48	-1	22 7	38		12 3
BARRETT	75 76	47.2	11 49A	-1				
DALTON	75 85	45.4	11 49A	-1				
PALOMAR	76 02	46 6	11 51A	0				12 3
RIVERSIDE	76.03	45.8	11 51A	0				12 4
WOODY	76.06	43.6	11 51A	0				12 4
FRESNO	76.11	42.3	11 51A	-1				12 3
PETROPAVLOVK	76.27	343.6						12 12
HAYFIELD	77.07	46.9	11 57A	0				
MINERAL	77.25	38.5	11 57A	-1				
TINEMAHA	77.29	42.8	11 58A	0				
RENO	77.81	40.0	12 1A	0				
BOULDER CITY	78.89	45.4	12 7	0				
CORVALLIS	79.07	34.4	12 8	0				
TUCSON	79.67	50.4	12 12	1				
EUREKA	80.15	41.9	12 14	0				
HONG KONG	81.45	297.3	12 21K	0				
SEATTLE	81.63	32.5	12 23K	1				
HORSESHOE B.	82.30	30.8	12 24A	-1				

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TACUBAYA	83.17	66.7	12 34	5	
SALT LAKE C.	83.48	42.6	12 30	-1	
BUTTE	85.93	37.9	12 42	-1	16 0 PP
HUNGRY HORSE	86.43	35.4	12 42	-4	
BOZEMAN	86.63	38.8	12 47	0	13 22
COLLEGE	86.74	11.0	12 44	-3	
LUBBOCK	86.94	52.8	12 48	0	
BANFF	87.28	32.6	12 49	-1	
BOULDER	87.41	45.8	12 51	1	
RAPID CITY	90.68	43.0	13 11	5	14 44 PP
FAYETTEVILLE	93.71	53.1	13 22A	2	17 3
HUANCAYO	94.18	104.3	13 25	3	13 41
LA PAZ	98.96	111.1	13 47	3	17 59 PP
IRKUTSK	100.30	321.9			11 34
OTTAWA	109.65	47.7	19 2A	777	
QUETTA	124.14	293.6	19 1	0	
SODANKYLA	130.55	349.6	19 11	-2	21 29 PP
KIRUNA	131.03	352.7	19 12	-2	22 34 PKS
SKALSTUGAN	135.96	355.8	19 23	0	22 56 PKS
UPPSALA	139.03	350.9	19 19	-10	
DURHAM	144.57	7.4	19 36K	-3	20 15
RATHFARNHAM	145.22	12.7	19 39	-1	19 56
WARSAW	145.45	343.4	19 43	3	20 13 PP
SIMFEROPOL	145.59	323.4			19 11
HAMBURG	146.07	355.5	19 43A	2	
POTSDAM	146.92	351.8	19 44	1	
KRAKOW	147.71	342.8	19 59	15	
HALLE	147.93	352.7	19 46	2	
KEW	147.97	7.2	19 48	4	
COLLMBERG	147.99	351.4	19 43	-1	
RACIBORZ	148.14	344.8	19 40	-5	19 50 PKP2
JENA	148.53	353.0	19 45	0	
LWIRO	148.57	228.5	19 52A	7	
BENSBERG	148.82	358.3	19 50	4	20 3
PRAGUE	148.95	349.2	19 50	4	20 9
KSARA	149.81	303.9	19 49	2	
BRATISLAVA	150.19	344.7	19 48	0	19 54
PARIS	150.87	4.5	19 50	1	
STUTTGART	150.90	355.3	19 49	0	19 55 PKP2
JERUSALEM	150.99	300.3	19 58	9	
TUBINGEN	151.15	355.5	19 53	4	
STRASBOURG	151.18	357.3	19 50	1	19 56 PKP2
EBINGEN	151.50	355.5	19 51	1	19 57 PKP2
BESANCON	152.55	359.7	19 59	8	20 10 PKP2
CLERMONT-FD.	153.94	4.2	20 3	10	
TOLEDO	158.21	20.7	19 57	-2	
GRANADA	160.78	23.3	20 47K	45	
TAMANRASSET	176.96	4.5	20 13	1	25 46 PP

JULY 21 6.H 4.M 8.S EPICENTRE 14.33 -92.11 DEPTH= 38.KM

DEPTH OF FOCUS= 0.001R

A=-0.03564 B=-0.96865 C= 0.24588 D=-0.9993 E= 0.0368
G=-0.0090 H=-0.2457 K=-0.9693 HT= 5.9

SE= 1.99

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
COMITAN	1.91	359.3	0 28	-3	0 57	3		
SAN SALVADOR	2.85	101.6	0 46	1	1 22	4		
SANTIAGO MA.	3.63	102.8	1 0	4	1 53	15		
OAXACA	5.23	301.4	1 13	-5	2 20	2		
VERA CRUZ	6.19	322.1	1 46	14	2 40	-2		
MERIDA	7.00	19.4	1 42A	-1	3 6	4		2 42
PUEBLA	7.48	309.5	1 53	3	3 12	-2		
TACUBAYA	8.46	307.6	2 4	1	3 52	13		4 9
GUADALAJARA	12.42	302.2	2 53	-4				6 4
MANZANILLO	12.62	293.5	2 58	-2	5 21	1		4 4
BALBOA HTS.	13.39	112.1	3 9	-1				
CHINCHINA	18.71	118.2	4 17	-1	7 57	15	4 34	8 29 PCP
CHIHUAHUA	19.25	319.9	4 22	-2	7 55	1		10 37
BOGOTA	20.22	116.7	4 36	1	8 29	15		
LUBBOCK	21.11	336.9	4 45	1	8 39	7		
FAYETTEVILLE	21.75	355.4	4 51	1			5 0	8 54

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COLUMBIA	22.01	25.2	4 55	2	8 58	10	5 13	5 41 PP
TUCSON	24.71	319.4	5 22	3	9 57	21		
SAN JUAN	25.25	77.3	5 41	17				
CHICAGO CGS.	27.63	7.3	6 22	36	10 58	34		
WASHINGTON	27.84	25.7	5 49	1	10 57	30	6 5	7 29 *PPP
BOULDER	28.10	338.2	5 52	1				
CLEVELAND	28.57	16.8	5 54A	-1				11 8
HAYFIELD	28.76	316.2	5 58	1				12 55 SCP
BARRETT	28.88	313.5	5 58	0				
PALOMAR	29.39	314.4	6 4	2				
PHILADELPHIA	29.53	27.0	6 6	3	11 23	29		
BOULDER CITY	29.66	320.7	6 5	0	11 9	13	6 16	6 37
RIVERSIDE	30.11	315.0	6 9	0	11 10	7		12 57 SCP
DALTON	30.50	314.9	6 13	1				12 59 SCP
PASADENA	30.74	314.5	6 17	3	11 27	14		
BERMUDA	30.79	49.6	6 14	-1	11 4	-10		
PALISADES	30.95	27.4	6 15A	-1	11 19	2	6 31	7 13 PP
HUANCAYO	31.03	146.8	6 16	-1	11 30	12	6 36	
RAPID CITY	31.13	344.4	6 18	0				7 24 PP
CHINA LAKE	31.31	317.7	6 20A	1				9 12 PCP
SALT LAKE C.	31.48	330.6	6 21	0			6 40	
WOODY	32.08	316.4	6 27	1				9 14 PCP
TINEMAHA	32.46	319.0	6 30A	1				9 16 PCP
EUREKA	32.67	324.6	6 33	2				8 10 *SP
WESTON	33.22	28.7	6 36K	0				
FRESNO	33.31	317.2	6 36	-1				8 6 PP
OTTAWA	33.94	20.9	6 41A	-1	12 8	5		7 56 PP
LICK	34.85	316.6	6 51	1				8 8 PP
RENO	34.96	321.1	6 53A	2				
BOZEMAN	35.10	336.7	6 54	2			7 20	13 15 *SS
BERKELEY	35.55	316.9	6 56	0	12 38	10		9 28 PCP
SHAWINIGAN	35.99	22.9	6 58A	-2	12 57	22	7 20	8 32 PP
MINERAL	36.55	320.8	7 5A	1				
SEVEN FALLS	37.21	24.2	7 9	-1	12 59	5	7 32	8 42 PP
HUNGRY HORSE	38.46	336.4	7 21	1	13 19	6		17 29 SCS
HALIFAX	38.70	33.0	7 21A	-1				
LA PAZ	38.72	141.4	7 21A	-1	13 26	9		16 24 SS
CORVALLIS	40.13	325.0	7 33	-1				
SEATTLE	41.61	329.2	7 50	4				14 27
HORSESHOE B.	43.27	330.4	8 0A	0				
SITKA	53.70	332.3	9 20	-1	16 55	5		
RESOLUTE	60.37	359.1			18 25	7		19 52 SCS
COLLEGE	62.90	336.7	10 22	-3			11 0	
SCORESBY SD.	69.99	19.7	11 8	-2	20 22	6		25 10 SS
DURHAM	78.74	36.2	11 58K	-3				
MALAGA	79.77	54.7	12 16K	10				16 2 PP
GRANADA	80.32	54.1	12 55K	46	23 31	81		15 37 PP
PARIS	82.35	41.7	12 18A	-2				
ALICANTE	82.51	52.4			22 2	-31		
RELIZANE	83.89	54.8	12 45	17				15 1
BENSBERG	84.74	38.8	12 30	-2				
KIRUNA	85.04	20.6	12 32	-1	22 57	-1		
ALGIERS UNI.	85.61	53.3						14 57
HAMBURG	85.62	35.8	12 36	0				15 42 PP
STRASBOURG	85.79	41.0	12 35	-2				
COPENHAGEN	86.29	33.3	12 39K	0				23 16
STUTTGART	86.64	40.5	12 39	-2				12 50 PCP
EBINGEN	86.67	41.1	12 41K	0				
UPPSALA	87.31	28.4	12 43	-1				
SODANKYLA	87.34	19.9	12 43	-2				
COLLMBERG	88.12	37.3	12 48	0				
TAMANRASSET	91.38	66.2	13 3	-1	23 35	-22		16 47 PP
MATUSIRO	110.64	318.5	19 29	60	27 19	134		34 18 SS
KSARA	111.13	44.7	18 15	-15				18 57 PP
KIMBERLEY	120.17	115.1	18 48	0				
GRAHAMSTOWN	121.59	120.4						19 51
QUETTA	131.37	24.4	19 11A	2				22 36 PKS

JULY 21 7.H 0.M 17.S EPICENTRE -4.53 153.17 DEPTH= 46.KM

DEPTH OF FOCUS= 0.002R

A=-0.88962 B= 0.44990 C=-0.07853 D= 0.4513 E= 0.8924
G= 0.0701 H=-0.0354 K=-0.9969 HT= 7.1

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
RABAUL	1.05	288.3	0 21K	2				6 37
TRUK	12.00	353.7	2 49	-2	4 57	-7		
MADANG	12.18	322.7	2 49	-4				
GUAM	19.75	335.0	4 31	3	8 18	15		
NOUMEA	21.84	145.1	4 49	-1				
KOROR	22.07	302.2	4 52	0				5 11 PP
BRISBANE	22.82	180.3	4 58	-2	9 7	6		
RIVERVIEW	29.21	183.5	5 57A	-2				
MELBOURNE	33.98	191.7	6 39K	-2				7 25
ONERAHI	36.72	150.5	7 6	2				7 51 PP
MANILA	37.14	301.3	7 14	6				
KARAPIRO	38.99	151.4	7 24	1				
COBB RIVER	40.40	157.0	7 35	0				
KAIMATA	41.16	159.4	7 52	11				
WELLINGTON	41.39	155.2	7 42	-1				
MATUSIRO	43.20	342.3	7 57	-1				9 47 PCP
HONG KONG	46.54	306.6	8 25	0				
VLADIVOSTOK	51.19	340.1	9 1	0				
TERRE ADELIE	62.71	185.2	10 19	-3				
MAGADAN	63.91	358.7	10 29	-1				
MIRNY	74.31	201.1	11 33	-1				
COLLEGE	81.48	21.7	12 9	-5			12 38	
FRUNSE	84.74	313.6	12 30	0				
BYRD STATION	85.10	169.9	12 33	1				13 51
NAMANGAN	86.55	311.4	12 40	1				
QUETTA	88.99	300.2	12 50	-1				23 40 SCS
WOODY	90.96	54.4	13 0	0				13 26
DALTON	91.70	56.0	13 5	1				
CHINA LAKE	92.00	54.4	13 5	0				
RIVERSIDE	92.05	56.2	13 6	1				13 40
PALOMAR	92.43	56.9	13 10	3				13 38
HAYFIELD	93.48	56.6	13 13	1				13 47
EUREKA	93.51	50.8	13 13	1				13 37
BOULDER CITY	94.25	54.4	13 16	1				
HUNGRY HORSE	95.22	42.0	13 17	-3				
COLLMBERG	122.81	331.4	18 51	0				
STUTTGART	126.32	331.1	18 59K	1				
HUANCAYO	129.04	109.4	19 8	5				22 26 PKS
LA PAZ	134.13	118.1	19 17	4				22 43 PKS
TAMANRASSET	143.86	303.2	19 30	0				22 45 PP
TRINIDAD	145.10	77.9	19 31	-1				

JULY 21 19.H 37.M 5.S EPICENTRE -27.46-175.28 DEPTH= 48.KM

DEPTH OF FOCUS= 0.002R

A=-0.88560 B=-0.07319 C=-0.45864 D=-0.0824 E= 0.9966
G= 0.4571 H= 0.0378 K=-0.8886 HT= 2.6

SE= 1.87

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
SUVA	10.93	326.6	2 38	1				2 52
ONERAHI	12.10	224.2	2 57	4				
AUCKLAND	12.59	219.3			6 7	48		
WELLINGTON	16.03	208.1	3 38	-6	6 23	-17		
COBB RIVER	16.80	212.9			6 41	-16		
KAIMATA	18.53	212.4			7 21	-16		7 29
GEBBIES PASS	18.92	207.9	4 19	-1	7 27	-18		
BRISBANE	28.08	262.5	5 49	0	11 47	78		
MELBOURNE	34.81	242.5	6 48	1				
TERRE ADELIE	47.38	201.7	8 34	2				
SCOTT BASE	51.15	184.8	8 38	-23				
BYRD STATION	57.40	170.1	9 48	2				
KOROR	59.63	297.9	10 0	-2				
OASIS-BUNG.	62.82	207.0	10 22	-1				
MIRNY	65.82	206.0	10 42	-1				
BAGUIO CITY	75.93	297.1	11 42	-2				
MATUSIRO	77.26	323.2	11 50	-1	21 44	8		26 41 SS
KING RANCH	81.54	43.0	12 15	1				
PASADENA	81.72	44.7	12 15	0				23 49
BARRETT	81.72	46.7	12 13	-2				

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LICK	81.78	40.4	12 16K	1			12 27	
BERKELEY	81.79	39.7	12 15	-1				
DALTON	81.96	44.9	12 15	-1				
PALOMAR	82.03	46.1	12 17K	0				
RIVERSIDE	82.12	45.3	12 15K	-2				
WOODY	82.32	43.2	12 17K	-1			12 29	
FRESNO	82.47	41.9	12 19K	0				
HAYFIELD	83.05	46.4	12 23	1				
CHINA LAKE	83.17	43.8	12 22K	-1			12 34	
TINEMAHA	83.60	42.5	12 26	1			12 45	
MINERAL	83.89	38.3	12 25K	-1			12 36	
ZO-SE	84.04	309.5	12 28	1				
HONG KONG	84.21	298.6	12 29K	1				
RENO	84.33	39.8	12 29K	1				
BOULDER CITY	84.99	45.1	12 32	0				
CANTON	85.32	298.8	12 36	3				
NANKING	86.24	309.0	12 39	1				
EUREKA	86.52	41.8	12 39	0				
VICTORIA	88.72	31.5	12 48	-2				
CHANGCHUN	89.39	321.5	12 52	-1				
HORSESHOE B.	89.40	31.0	12 53	0				
PEKING	92.54	314.3	13 8	0				
HUANCAYO	93.15	105.2	13 14	4				
BOZEMAN	93.21	39.2	13 12	1				
HUNGRY HORSE	93.24	35.9	13 10	-1				
COLLEGE	94.47	11.4	13 14	-2			13 50	
RAPID CITY	96.94	43.7	13 32	4				
PALISADES	115.62	55.4						36 2 SS
NAMANGAN	124.27	302.5	18 55	1				
KARACHI	124.81	283.6						20 53 PP
QUETTA	126.01	288.7	18 59	2				
SVERDLOVSK	131.07	322.9	19 6	-1				
KIRUNA	138.50	351.1	19 20	-1				
LWIRO	142.45	222.0	19 27	-1				
PULKOVO	143.24	338.6	19 26	-3				
HELSINKI	144.49	342.7	19 31	0				19 43 PKP2
UPPSALA	146.43	348.2	19 35K	0				19 46
SOTCHI	147.57	309.0	19 38	1				
SIMFEROPOL	150.77	314.5	19 49	7				
WARSAW	152.40	338.1	19 53K	9				23 37 PKS
KSARA	152.52	291.0	19 49	5				23 37 PP
KISHINEV	152.81	322.3	19 46	2				
JERUSALEM	153.19	286.6	19 49	4				
LWOW	153.20	331.7	19 28	-17				
HAMBURG	153.63	352.9	19 47	1				19 57
KRAKOW	154.61	336.8	19 49	2				20 27
COLLMBERG	155.38	347.5	19 47	-1				
JENA	155.99	349.3	19 49	0				
HELWAN	156.55	282.2	19 50	0				
STUTTGART	158.44	351.9	19 49	-3			20 27	
GRANADA	168.03	33.9						21 12 PKP2
ALGIERS UNI.	170.61	8.3	20 3	0			21 40	25 12 PP
RELIZANE	171.00	22.2	20 5	2			20 42	25 16 PP
TAMANRASSET	175.29	189.0	20 8	3				25 30 PP

JULY 22 6.H 16.M 57.S EPICENTRE -33.27-178.71 DEPTH= 0.KM

A=-0.83753 B=-0.01890 C=-0.54606 D=-0.0226 E= 0.9997
G= 0.5459 H= 0.0123 K=-0.8377 HT= 0.7

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
ONERAHI	6.23	244.5	1 41	5	3 18	29		
AUCKLAND	6.42	234.2	1 42	4	3 1	8		1 51
KARAPIRO	6.60	223.7	1 43	2				2 58
TONGARIRO	7.52	216.6	1 54	0				
WELLINGTON	9.53	211.1	2 18	-4	4 0	-11		15 40 SCS
COBB RIVER	10.36	218.8	2 29	-4	4 21	-10		
KAIMATA	12.07	217.3	2 56	-1	5 1	-12		
GEBBIES PASS	12.41	210.5	2 55	-6	5 4	-17		
SUVA	15.28	349.6	3 38	-1				
ROXBURGH	15.33	213.4	3 37	-3				
NOUMEA	17.07	306.1	4 6A	4	7 24	13		4 22 PP
APIA	20.39	19.7	4 37	-4	8 6	-19		
BRISBANE	25.02	275.8	5 29	2	9 49	0		

RIVERVIEW	25.09	260.3	5 31A	3	9 51	0		6 8 PP
MELBOURNE	29.78	250.8	6 11A	0				7 20
CAPE HALLETT	39.52	185.3	7 37	3				
RABAUL	39.68	310.5	7 35	-1				
TERRE ADELIE	40.90	202.8	7 48	2	13 59	1		
MADANG	50.96	311.9	8 5	-61				8 22
BYRD STATION	52.23	169.1	9 16	1	16 43	3		10 28 PCP
OASIS-BUNG.	56.31	208.8	9 44K	-1	17 28	-6		
HONOLULU	57.72	22.8	10 3	8				
MIRNY	59.31	207.7	10 4A	-2	18 10	-4		
MANILA	74.63	299.3	11 42	-1				14 20
BAGUIO CITY	76.12	300.4	11 47	-5				
KYOTO	80.24	323.5	12 11A	-3	22 8	-11		
MATUSIRO	80.27	326.1	12 11	-3	22 9	-11		15 22 PP
KING RANCH	87.78	44.5	12 54	2				13 14
BARRETT	87.83	48.2	12 53A	0				13 13
PASADENA	87.90	46.3	12 54	1	23 24	-11		22 55 SKS
LICK	88.10	42.0	12 55	1				13 15
BERKELEY	88.13	41.3	12 55A	1	23 43	6		23 13 SKS
DALTON	88.13	46.5	12 55A	1				13 9
PALOMAR	88.16	47.6	12 55A	1				13 16
PETROPAVLOVK	88.27	346.6	12 53	-2				
RIVERSIDE	88.27	46.8	12 55A	0	23 19	-20		13 16
VLADIVOSTOK	88.43	326.2	12 44	-12				
UKIAH	88.51	39.9	12 55	-1				
WOODY	88.55	44.8	12 54A	-2				13 13
FRESNO	88.74	43.5	12 57A	0				
HAYFIELD	89.17	48.0	13 1A	2				13 21
TINEMAHA	89.85	44.1	13 3A	1				13 23
MINERAL	90.26	39.9	13 3K	-1				
RENO	90.66	41.5	13 7A	1				
BOULDER CITY	91.16	46.8	13 9	1				23 40 SCS
TUCSON	91.30	51.7	13 10	1				
TACUBAYA	92.08	68.2	13 16	3				16 44 PP
CORVALLIS	92.41	36.1	13 15	1				13 34
EUREKA	92.80	43.5	13 15	-1				
HUANCAYO	94.38	107.4	13 25	2				14 38
MAGADAN	95.87	344.9	13 27	-3				
LA PAZ	97.37	115.1	13 39	2	24 15	-44		17 36 PP
BUTTE	98.95	40.2	13 44	0				
BOZEMAN	99.56	41.1	13 47	0				
HUNGRY HORSE	99.66	37.7	13 45	-2				17 43 PP
COLLEGE	100.76	12.9	13 49	-3	25 24	-3		24 23 SKS
RAPID CITY	103.15	45.8	14 3	0				
FAYETTEVILLE	104.80	56.5						18 28 PP
COLUMBIA	113.39	63.8	19 30	50				
KIMBERLEY	114.42	202.6	18 43	1				
CHAPEL HILL	115.66	62.6	19 47	62				
PALISADES	121.26	58.9	18 44	-11	25 50	-4		20 26 PP
OTTAWA	121.34	53.5	18 55A	-1			19 20	
FRUNSE	123.18	302.7	18 57	-2				
WESTON	123.52	58.0	18 45	-15				
SHAWINIGAN	123.64	52.9	18 59	-1				
NAMANGAN	124.73	299.8	19 2	0				
QUETTA	124.90	285.9	19 3	1				
SEVEN FALLS	125.07	52.6	19 2K	-1			19 27	
BERMUDA	125.43	71.5						21 9 PP
HALIFAX	129.50	56.9	19 11A	0				
SVERDLOVSK	133.71	319.1	19 21	2				
LWIRO	136.15	221.8	19 19K	-5				22 3 PP
SCORESBY SD.	140.63	12.1						22 27 PP
APATITY	140.95	341.1	19 29	-3				
MAKHACH-KALA	142.79	298.8	19 28	-8				
SODANKYLA	142.80	344.1	19 30	-6				23 5 SKP
KIRUNA	143.67	347.9	19 33	-4				19 55
TIFLIS	144.78	296.7	19 38	-1				
REYKJAVIK	145.95	18.0	19 43	2				25 1
PULKOVO	147.32	333.0	19 44	1				
SOTCHI	148.43	300.4	19 43	-2				
HELSINKI	148.93	337.1	19 48	2				20 4
KSARA	151.25	280.8	19 50	0				23 35 PP
UPPSALA	151.31	342.8	19 48K	-2				30 16
JERUSALEM	151.42	276.4	19 50	0				
SIMFEROPOL	152.17	304.4	19 49	-2				
HELWAN	154.23	270.6	19 54	0				
MBOUR	154.92	134.2	19 59	4				20 22 PKP2
COPENHAGEN	156.29	344.2	19 56	0				20 25 PKP2
WARSAW	156.29	328.9	19 59A	3	26 53	-8		23 19 PKS

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LWOW	156.42	321.3	19 58	1				
KRAKOW	158.31	326.1	20 0	1				25 54
DURHAM	158.41	4.5	20 19A	20				20 33
HAMBURG	158.79	345.6	20 0	0				20 37
RACIBORZ	159.07	328.4	20 1	1				
POTSDAM	159.09	339.5	20 1	1				
RATHFARNHAM	159.26	12.9	20 2	2				20 40 PKP2
WITTEVEEN	160.08	350.4	20 9	8				
HALLE	160.20	340.0	20 1	0				20 42
PRAGUE	160.61	333.8						20 31 PKP2
JENA	160.81	339.9	20 0	-2			20 44	24 37 PP
DE BILT	160.97	352.6	20 3	1				
PLAUEN	161.02	338.3						20 46
BELGRADE	161.23	313.5	20 3A	1				20 47
KEW	161.78	3.2	20 2	-1				20 48 PKP2
BENSBERG	161.81	348.0	20 3	0				
STUTTGART	163.43	341.4	20 4	0				25 0 PP
JERSEY	163.91	8.1						21 36
STRASBOURG	163.96	344.3	20 7	2				24 45 PP
EBINGEN	164.03	341.0	21 1	56				21 18
PARIS	164.45	357.0	20 3	-3				21 21 PKP2
FLORENCE X.	166.94	326.3	20 6	-2				33 26 SKKS
CLERMONT-FD.	167.44	354.1	20 9	1				21 13 PKP2
TAMANRASSET	168.90	200.7	20 10A	1				25 11 PP
TOLEDO	172.13	31.6	20 12	1				21 25
MALAGA	174.20	52.1			27 50	37		25 38 PP
GRANADA	174.41	44.4	20 13K	1	28 22	69		25 40 PP
ALICANTE	174.73	15.4	20 6	-6	27 8	-5		46 53 SS
ALMERIA	175.28	39.8	20 12	0				
ALGIERS UNI.	176.23	338.0	20 12A	0				25 37 PP
RELIZANE	177.46	13.7	20 10	-2				25 46 PP

JULY 22 10.H 16.M 37.S EPICENTRE 34.73 136.19 DEPTH= 364.KM

DEPTH OF FOCUS= 0.052R

A=-0.59439 B= 0.57020 C= 0.56708 D= 0.6923 E= 0.7216
G=-0.4092 H= 0.3926 K=-0.8237 HT= 0.2

SE= 1.65

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KAMEYAMA	0.26	62.0	0 47K	1	1 21	-1		
TU	0.27	89.4	0 47	1	1 21	-1		
KYOTO	0.48	307.8	0 45A	-1	1 21	-2		
HIKONE	0.54	5.2	0 47A	0	1 22	-1		
OSAKA	0.55	262.1	0 46A	-1	1 22	-1		
OWASE	0.66	179.3	0 45	-2	1 11	-12		
IBUKISAN	0.67	13.4	0 46	-1	1 24	0		
NAGOYA	0.78	55.2	0 47	0	1 24	0		
GIHU	0.82	35.2	0 47	0	1 23	-1		
..OBE	0.83	267.0	0 48	1	1 24	0		
TSURUGA	0.93	353.9	0 48	1	1 26	2		
MAIZURU	0.95	321.6	0 48	1	1 24	0		
WAKAYAMA	0.98	239.8	0 48A	1	1 24	-1		1 1
SUMOTO	1.15	251.2	0 48A	0	1 25	-1		
HAMAMATU	1.26	89.9	0 52	3	1 27	0		
HUKUI	1.32	2.8	0 49	0	1 26	-2		
SIOMISAKI	1.32	195.4	0 49A	0	1 24	-4		
TOYOOKA	1.38	305.9	0 49A	-1	1 28	0		2 6
TOKUSIMA	1.48	244.2	0 49A	-1	1 29	0		
HIMEJI	1.49	261.8	0 49	-1	1 26	-4		
IIDA	1.56	59.1	0 51	0	1 30	0		
TAKAYAMA	1.66	31.1	0 50	-1	1 29	-2		
OMAESAKI	1.68	93.8	0 51K	0	1 32	1		
TAKAMATU	1.81	257.6	0 53A	1	1 34	1		
SHIZUOKA	1.83	81.8	0 52	0				
MATUMOTO	2.10	43.2	0 53A	-1	1 35	-1		
TOYAMA	2.13	22.4	0 55	1	1 38	2		
KOHU	2.15	64.5	0 54K	0	1 37	0		
HUNATU	2.25	69.2	0 55	0	1 38	0		
MISIMA	2.30	79.4	0 55K	0				1 14
AJIRO	2.41	81.5	0 56	0	1 47	7		
MATUSIRO	2.46	41.7	0 56A	-1	1 40	-1		
KOTI	2.50	242.7	0 57A	0	1 37	-4		
OIWAKE	2.50	49.6	0 56K	-1				

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NAGANO	2.54	39.6	0 57K	0	1 39	-3		
MATSUE	2.66	286.6	0 59	1				
TITIBU	2.67	61.3	0 59	1	1 46	2		
WAZIMA	2.71	12.1	0 59	0	1 45	1		
MAEBASI	2.88	53.8	0 59K	-1	1 37	-10		1 21
TAKADA	2.90	34.6	1 2	2	1 50	3		
YOKOHAMA	2.92	75.1	0 58K	-2	1 47	0		1 14
KUMAGAYA	2.97	60.5	1 1K	0	1 48	0		
MATUYAMA	2.99	253.5	1 0A	-1	1 44	-4		1 12
MERA	3.00	85.3	0 59K	-2	1 45	-4		
TOKYO C.M.O.	3.07	70.9	1 0K	-1	1 48	-2		1 13
HIROSIMA	3.12	264.5	1 1A	-1	1 50	-1		
SIMIDU	3.31	235.0	1 4A	0	1 53	-1		
UWAZIMA	3.37	244.7	1 9	5	2 0	5		
HATIDYOZIMA	3.43	117.2	1 5	0	2 1	5		
UTUNOMIYA	3.51	57.7	1 5K	-1	1 53	-4		
KAKIOKA	3.58	64.1	1 5K	-1	1 56	-2		
AIKAWA	3.68	26.2	1 7	0	1 59	-1		
MITO	3.86	63.5	1 8	-1	2 0	-3		
NIIGATA	3.93	35.1	1 13	3	1 56	-8		
TYOSI	3.94	74.1	1 9K	-1	2 3	-2		
SHIRAKAWA	4.05	52.7	1 9	-2	2 4	-2		
OOITA	4.08	249.8	1 13A	2	2 9	2		1 56
ONAHAMA	4.42	58.6	1 14K	-1	2 10	-3		1 55
HUKUSIMA	4.59	47.7	1 15	-2				
ASOSAN	4.64	248.3	1 17	0	2 19	2		
YAMAGATA	4.86	42.4	1 20	1	2 21	-1		
MIYAZAKI	4.88	236.3	1 21A	1	2 26	4		
HUKUOKA	4.92	258.2	1 21A	1	2 25	2		
KUMAMOTO	4.95	248.9	1 22	2	2 25	2		
SAKATA	5.09	34.0	1 25	3	2 26	0		
SAGA	5.11	254.9	1 23A	1	2 33	6		1 51
SENDAI	5.19	45.7	1 22K	-1	2 25	-3		
ISINOMAKI	5.54	46.7	1 25	-2	2 30	-5		
NAGASAKI	5.62	251.0	1 33	5	2 42	5		
KAGOSIMA	5.68	237.9	1 29	1	2 40	2		
AKITA	5.88	30.9	1 31K	0	2 42	0		3 3
MIZUSAWA	5.91	40.6	1 31	0	2 39	-3		
MORIOKA	6.36	37.2	1 35	-1	2 48	-4		
MIYAKO	6.74	41.5	1 38K	-3	2 53	-7		
AOMORI	7.08	29.5	1 45	0	3 5	-2		
HATINOHE	7.17	34.6	1 45K	-1	3 7	-2		
HAKODATE	7.89	25.5	1 59	5	3 24	0		
MORI	8.12	23.7	1 58	1	3 27	-2		
MURORAN	8.46	24.8						2 33
TOMAKOMAI	8.85	26.8			3 44	0		
VLADIVOSTOK	9.02	339.6	2 6	-1				
URAKAWA	9.03	32.9	2 2	-5	3 45	-3		
SAPPORO	9.25	24.2	2 9	-1	3 47	-6		
OBIHIRO	9.84	31.7	2 18	1	4 3	-2		
KUSIRO	10.43	35.4	2 23	-1	4 13	-5		
ABASHIRI	11.19	31.6			4 26	-8		
NEMURO	11.27	37.5			4 30	-6		
CHANGCHUN	12.39	320.4	2 47	0	5 2	2		
ZO-SE	13.12	258.2	2 54	-2	5 16	1		
NANKING	14.77	264.5	3 12K	-2				
PEKING	16.76	294.3	3 32	-3	6 26	-2		
GUAM	22.54	157.8	4 31	0	8 18	8		
BAGUIO CITY	22.98	221.4	4 33	-2	8 16	-1		
CANTON	23.11	246.0	4 37K	0				
MANILA	24.30	218.1	4 45	-3	8 49	10		
LANCHOW	26.36	282.3	5 6	0				
MAGADAN	26.62	16.7	5 8	0				
KOROR	27.31	183.7	5 13	-2				
CHENGTU	27.32	270.5	5 13	-2				
KUNMING	30.49	260.7	5 41K	-1				
TRUK	30.72	148.4	5 43	-1				
LHASA	38.30	275.3	6 51	3				
SHILLONG	39.14	268.8	6 54	-1				
NAMANGAN	50.30	297.3	8 22	-1				
COLLEGE	53.28	31.1	8 43	-2			9 59	
SVERDLOVSK	54.08	318.9	8 49	-1				
QUETTA	57.56	286.4	9 14K	-1				
SITKA	60.87	38.7	9 38	1				
KIRUNA	67.12	338.2	10 16	-1				
VICTORIA	71.04	43.7	10 41A	0				
UPPSALA	73.10	332.4	10 51	-2				
CORVALLIS	73.18	47.2	10 56	2				

HUNGRY HORSE	76.32	40.2	11 13	2			12 33	
MINERAL	76.55	50.2	11 18A	5				
BERKELEY	77.52	52.6	11 18A	0				
RENO	78.14	50.1	11 23	2				
LICK	78.22	52.7	11 22A	0				
BUTTE	78.53	41.5	11 25	2				
BOZEMAN	79.58	41.1	11 30	1				
FRESNO	79.75	52.3	11 30	0				
EUREKA	80.57	48.3	11 34	0				
TINEMAHA	80.60	51.4	11 36A	2				
KING RANCH	80.63	53.5	11 36A	2				
WOODY	81.00	52.8	11 31A	-5			12 57	
PASADENA	82.37	53.7	11 45	2				
RIVERSIDE	82.99	53.4	11 47	1				
BOULDER CITY	83.43	50.5	11 50	1				
PALOMAR	83.73	53.7	11 51A	1				
BARRETT	84.26	54.1	11 53A	0			13 16	
HAYFIELD	84.32	52.7	11 54A	1				
RAPID CITY	84.79	38.5	11 56	1				
TUCSON	88.36	51.3	12 14	2				
BYRD STATION	126.43	167.9	18 22	2				
HUANCAYO	143.56	59.4	18 53	1				22 0 SKP

JULY 23 0.H 45.M 10.S EPICENTRE 51.36-177.19 DEPTH= 0.KM

A=-0.62624 B=-0.03074 C= 0.77902 D=-0.0490 E= 0.9988
G=-0.7781 H=-0.0382 K=-0.6270 HT= -5.9

SE= 2.32

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KLYUCHI	13.90	299.5	3 19	-2				4 43
PETROPAVLOVK	14.89	286.3	3 34A	0				6 53
MAGADAN	19.75	307.0	4 34A	0				
COLLEGE	20.32	37.1	4 38	-2	8 3	-21		16 20 SCS
SITKA	24.83	60.3	5 28	3	9 52	6		6 30 PP
NEMURO	26.24	266.9	5 38	0	10 10	0		
Y.-SAKHLINSK	26.35	276.3	5 41A	2				6 22 PP
ABASHIRI	26.71	269.3	5 45	2	10 37	20		6 24
KUSIRO	27.16	267.2	5 50	3	10 18	-7		6 10
URAKAWA	28.62	267.1	5 59	-1	10 47	-1		
SAPPORO	29.03	269.9	5 57A	-7	10 48	-7		6 41
TOMAKOMAI	29.17	268.7	7 43	98				
MURORAN	29.65	268.9	6 10	1				
MORI	30.03	268.8	6 2	-11	11 8	-3		7 24
MIYAKO	30.53	263.6	6 18	1				
AOMORI	30.60	266.5	6 20	2	11 16	-4		
MORIOKA	31.00	264.4	6 20	-1	11 28	2		
TIKSI	31.15	330.3	6 22	-1	11 26	-2		7 29 PP
MIZUSAWA	31.37	263.6	6 26	2	11 30	-2		
AKITA	31.66	265.4	6 28	1	11 39	3		
SENDAI	32.03	262.5	6 28	-2	11 39	-3		7 40
SAKATA	32.31	264.4	6 47	14				
HUKUSIMA	32.62	262.1	6 37	2				
ALBERNI	32.92	72.6	6 40	2	11 59	3		
SHIRAKAWA	33.17	261.4	6 45	5				
NIIGATA	33.40	263.6	7 6	24				
HONOLULU	33.50	146.5	6 50	7	12 6	1		
UTUNOMIYA	33.74	260.9	6 44	-1				8 2
HORSESHOE B.	33.80	71.7	6 47	1	12 12	2		
TUKUBASAN	33.81	260.3	6 43	-3	12 7	-3		8 1 PP
VICTORIA	34.08	73.2	6 49A	1	12 16	2		
KUMAGAYA	34.30	260.8	6 49	-1	12 34	17		
MAEBASI	34.34	261.5	6 50	0	12 13	-5		8 0 PP
TOKYO C.M.O.	34.38	259.9	6 51	0	12 16	-3		7 42
YOKOHAMA	34.60	259.6	6 50	-3	12 39	17		9 16
OIWAKE	34.70	261.9	6 52	-2	12 28	4		8 13 PP
NAGANO	34.70	262.6	6 53	-1	12 3	-21		
MATUSIRO	34.77	262.4	6 53A	-1	12 24	-1		8 1 PP
MERA	34.83	258.8	6 52	-3				
VLADIVOSTOK	34.91	276.8	6 54K	-1				
HUNATU	35.10	260.5	7 3	6				
MATUMOTO	35.11	262.3	6 58	1	12 23	-7		7 52
SEATTLE	35.14	74.0	7 0	3	12 35	5		
KOHU	35.14	260.9	6 57	0				
OSIMA	35.21	259.0			12 8	-23		

MISIMA	35.24	259.9	6 55	-3	12 29	-3	
TOYAMA	35.31	263.6	6 59	0			
SHIZUOKA	35.68	260.2	6 52	-10	12 38	-1	
CORVALLIS	36.00	79.2	7 7	2	12 45	1	7 56
OMAESAKI	36.03	259.9	7 8	3			
SUIHWA	36.18	285.0	7 17	11			
GIHU	36.41	262.2	7 7	-1	12 33	-17	
HIKONE	36.81	262.5	7 12	1	12 49	-7	
KAMEYAMA	36.95	261.8	7 9	-4			13 41
KYOTO	37.30	262.7	7 16A	1	13 2	-2	
TOYOOKA	37.54	264.1	7 16	-1	13 7	0	
OSAKA	37.67	262.4	7 20	1	13 21	12	
SUMOTO	38.27	262.6	7 23	-1			13 32
YONAGO	38.52	265.2			13 14	-8	
CHANGCHUN	38.61	282.0	7 25	-2			
TOKUSIMA	38.64	262.5	7 26	-1	13 25	1	
TAKAMATU	38.80	263.3	7 24	-4	13 23	-3	
RESOLUTE	39.34	24.6	7 32	-1	13 25	-10	
MINERAL	39.36	83.9	7 34K	1			
KOTI	39.64	262.8	7 35	0	13 35	-4	
HUNGRY HORSE	39.72	68.7	7 37	1	13 47	7	17 42 SCS
HIROSIMA	39.78	264.7	7 35	-1	13 37	-4	9 42
BERKELEY	40.42	87.4	7 42A	0	13 35	-16	8 33
SANTA CLARA	40.93	87.8	7 28K	-18	14 2	4	
RENO	40.95	83.6	7 47	1	13 43	-16	
OOITA	41.04	264.1	7 46	-1	13 56	-4	
LICK	41.13	87.6	7 48	1			7 58
HUKUOKA	41.56	265.5	7 52K	1	14 8	0	9 36
BUTTE	41.75	71.0	7 53	1	14 7	-4	10 46
KUMAMOTO	41.89	264.4	7 54	0			
SASKATOON	42.09	60.1	7 55	0	14 11	-5	
FRESNO	42.64	86.9	8 0	0			
KAGOSIMA	42.83	263.2	8 0	-1			
BOZEMAN	42.84	70.6	8 2	1	14 25	-2	9 31 PCP
TOMIE	43.23	265.8			14 7	-25	
EUREKA	43.37	81.1	8 7	1			
TINEMAHA	43.44	85.4	8 7	1			8 20
KING RANCH	43.59	88.5	8 7	0			
WOODY	43.90	87.4	8 9A	-1			8 28
CHINA LAKE	44.62	86.3	8 13A	-3			8 30
SALT LAKE C	45.13	76.9	8 21	1			18 17 SCS
PASADENA	45.34	88.6	8 20	-2	15 4	1	10 15
DALTON	45.55	88.3	8 22	-1			8 39
RIVERSIDE	45.94	88.1	8 25	-1	15 10	-1	
BOULDER CITY	46.24	84.2	8 29	0	15 15	-1	8 59
IRKUTSK	46.25	303.5	8 28A	-1			10 11 PP
PEKING	46.37	283.1	8 30A	0	15 18	0	
KWANTING	46.60	283.7	8 33	1			
PALOMAR	46.68	88.4	8 32A	0			8 39
HAYFIELD	47.22	87.1	8 34	-2			9 53 PCP
BARRETT	47.25	88.9	8 36A	-1	16 31	61	
TATUNG	48.09	285.1	8 46	3			
RAPID CITY	48.34	68.0	8 47	2	15 44	-1	
GUAM	48.66	233.0	8 43	-5	15 54	4	
ZO-SE	49.01	270.4	8 50A	0	15 55	0	10 42 PP
BOULDER	49.55	73.5	8 56	1			
PAOTOW	49.75	287.6	8 58	2			
NANKING	49.86	273.1	8 56A	-1			
TRUK	50.67	221.3	9 0	-3			10 1
TUCSON	51.19	85.0	9 7	0	20 18	233	16 30 PP
LINFEN	51.69	282.2	9 12	1			
YINCHUAN	53.33	287.9	9 26	3			
SIAN	54.51	282.2	9 35	3			
WUWEI	55.84	289.7	9 42	1			
LUBBOCK	55.85	77.4	9 40	-2	17 27	-1	
TIENSHUI	56.22	284.7	9 45	1			
LANCHOW	56.37	287.3	9 45A	0			
CHIHUAHUA	56.65	84.7	9 55	8			13 55
SCORESBY SD.	57.16	9.6	9 50	-1	17 38	-7	21 50 SS
YUMEN	57.51	295.3	9 52	-1			
CHICAGO CGS.	58.64	61.2	10 1	0	18 1	-4	
FAYETTEVILLE	58.75	70.1	10 2A	0	18 5	-1	
FLORISSANT	59.11	65.4	10 4A	-1	18 8	-3	10 51 PCP
KOROR	59.19	239.6	10 2A	-3	18 9	-3	11 30
APATITY	59.20	346.8	10 2A	-3	18 3	-9	12 18 PP
SEMIPALATNSK	59.25	313.4	10 3	-2	18 1	-12	
ST. LOUIS I	59.30	65.4	10 4A	-2	18 10	-4	10 53 PCP
CANTON	59.63	269.6	10 7A	-1	18 17	-1	

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BAGUIO CITY	60.05	258.5	10 7	-4	18 21	-2	
SODANKYLA	60.24	349.6	10 11	-1	18 13	-13	10 53 PCP
MANILA	61.22	256.9	10 16	-3	18 17	-21	
RABAUL	61.23	215.4	10 25	6			
CLEVELAND	62.12	57.8	10 24A	-1	18 48	-2	
SVERDLOVSK	62.15	328.2	10 24	-1			18 52 PS
CINCINNATI	62.16	61.4	10 23	-2	18 46	-4	
OTTAWA	62.29	51.3	10 25A	-1	19 2	10	11 10 PCP
~~SHAWINIGAN~~	62.87	48.7	10 28A	-2			
SEVEN FALLS	63.36	47.1	10 32	-1			
GUADALAJARA	64.11	88.9					22 30
PENNSYLVANIA	64.53	56.1	10 42	1	19 20	0	
KUNMING	64.82	279.1	10 42A	-1	19 22	-1	
SKALSTUGAN	65.16	355.3	10 45	0			11 19 PCP
WASHINGTON	66.34	57.0	10 50	-3	19 38	-4	24 48 SS
PALISADES	66.41	53.5	10 52A	-1	19 42	-1	13 18 PP
FORDHAM	66.54	53.6	10 53	-1			19 58 SP
PHILADELPHIA	66.56	55.0	10 56	2	19 44	0	24 38 SS
WESTON	66.66	50.9	10 54A	-1	19 48	2	24 16 SS
PULKOVO	67.01	345.3	10 55	-2			20 42 SCS
HELSINKI	67.40	348.2	10 57	-2	19 51	-4	13 24 PP
FRUNSE	67.42	310.9	11 0A	1			20 10 PS
CHAPEL HILL	67.48	60.4	11 0	0			
TACUBAYA	67.64	86.7	11 1	0			15 6 PPP
COLUMBIA	67.81	63.1	11 1	-1	19 58	-2	21 45 SCS
TOCKLAI	68.41	286.0					13 10
LHASA	68.50	290.7	11 8A	2	20 11	3	
UPPSALA	68.50	352.0	11 4	-2	20 1	-7	20 34 PS
HALIFAX	68.52	44.7	11 5	-1	20 2	-6	
SUVA	69.31	184.5			20 10	-7	20 45 PS
VERA CRUZ	69.71	84.5					22 2
OAXACA	70.95	86.5					15 22
SHILLONG	71.03	287.3	11 21A	-1	20 41	3	20 54 SKS
TASHKENT	71.10	313.1	11 20	-2			13 53 PP
ABERDEEN	71.76	2.8	11 28K	2	20 42	-4	25 30 SS
MERIDA	72.44	78.4					13 50 PP
LUND	72.96	353.9	11 34	1			
COPENHAGEN	73.03	354.3	11 34K	0	20 59	-1	21 17 PS
DURHAM	74.18	2.6	11 43K	3	21 11	-2	11 58 PCP
COMITAN	74.42	83.4			21 14	-2	
NOUMEA	74.74	195.7	11 55	12			21 16 SCS
HAMBURG	75.27	355.6	11 49	2	21 27	1	
DEHRA DUN	75.33	300.2	11 45	-2	21 40	14	22 34 PS
RATHFARNHAM	75.43	5.6	11 49A	2			
WARSAW	75.65	348.6	11 52A	3	21 32	2	14 47 PP
WARSAK DAM	75.83	307.0	11 49	-1			
BOKARO	75.94	290.5	11 50A	0	21 47	14	12 1 PCP
WITTEVEEN	76.14	357.6	11 52	1			
POTSDAM	76.27	353.5	11 52	0			22 35
LAHORE	76.35	303.6	11 52A	-1	21 36	-1	22 0 SCS
DE BILT	76.90	358.5	11 50	-6	21 45	2	27 0 SS
HALLE	77.23	354.2	11 57	-1			12 51
KEW	77.51	2.0	11 59A	0	21 48	-2	15 5 PP
LWOW	77.58	346.1	12 0	1			14 52 PP
BERMUDA	77.76	53.1	12 1	1	21 53	0	15 8 PP
JENA	77.82	354.3	12 0	-1	22 0	7	14 58 PP
KRAKOW	77.92	348.8	11 56	-5	21 54	0	12 14 PCP
RACIBORZ	78.09	349.9	12 2	0	22 17	21	22 29 PS
PLAUEN	78.21	353.9	12 3	0			12 22
PRAGUE	78.47	352.4	12 4	0	22 13	13	15 12 PP
CHEB	78.61	353.7	12 5	0			23 21 PS
ASHKABAD	78.66	318.3	12 7	2			
IASI	79.54	343.1	12 10	0	22 30	18	
JERSEY	79.75	3.3	12 20	9			20 52
KARLSRUHE	79.90	356.3	12 16A	4	22 22	7	13 4
BRATISLAVA	80.10	350.3	12 14	1	22 32	15	13 2
STUTTGART	80.10	355.7	12 13A	0	22 21	3	22 32 SKS
PARIS	80.21	0.2	12 12	-2	22 20	1	15 14 PP
HURBANOVO	80.27	349.6	12 18	4			22 44 SKS
SIMFEROPOL	80.32	338.0	12 15	1	22 24	4	17 13 PPP
TUBINGEN	80.35	355.8	12 14	-1			12 28
STRASBOURG	80.35	356.7	12 15	0	22 38	18	23 6 PS
TIFLIS	80.35	329.5	12 15	0	22 24	4	22 35 SCS
BUDAPEST	80.55	348.9	12 18	2			
EBINGEN	80.70	355.8	12 16A	0			12 44
QUETTA	81.21	308.0	12 20A	1	22 28	-1	12 27 PCP
BASLE	81.41	356.7	12 20	0			
ZURICH	81.53	356.0	12 24	3			

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BESANCON	81.73	357.8	12 14	-8			13 9
GORIS	81.85	327.4	12 23	1			22 40 SCS
CAMPULUNG	81.85	344.3	12 25	3			
NEUCHATEL	81.96	357.1	12 23	0	22 35	-2	
TIMISOARA	81.97	347.1	12 27	4	22 49	12	
CHUR	82.00	355.3	12 23A	0			
BUCHAREST	82.49	343.4	12 26A	0	22 36	-6	
BRISBANE	82.77	206.4	12 27	0	22 47	2	
TRIESTE	82.91	352.3	12 28	0	22 50	4	23 7 SKS
BELGRADE	82.99	347.5	12 30	2	22 49	2	23 6 SKS
CLERMONT-FD.	83.25	359.8	12 31A	1	22 52	2	24 12 PPS
OROPA	83.30	356.4	12 32	2	23 6	16	26 41
PAVIA	83.68	355.5	12 33	1	23 8	14	32 20 SSS
BOLOGNA	84.24	353.9	12 42	7	23 18	18	26 11
SOFIA	84.64	345.0	12 37	0	23 17	13	
KARACHI	84.73	305.4	12 42	5			23 35 SCS
FLORENCE X.	84.96	353.9	12 38A	0	23 20	13	16 4 PP
ISTANBUL	85.14	340.4	12 38	-1	23 5	-4	
HYDERABAD	85.21	291.9	12 42K	2	23 16	7	24 19 PS
SKOPJE	85.64	346.2	11 55K	-47			12 8 PCP
DJAKARTA	86.12	255.2					13 24
ROME	86.74	352.8	12 46A	-1	23 26	2	29 34 SS
POONA	86.97	296.0	12 49A	1	23 39	13	16 14 PP
BOMBAY	87.26	297.0					16 54
TARANTO	87.68	349.0	12 39	-13	23 39	6	
BALBOA HTS.	87.81	78.5	12 54	2	23 19	-15	
SAN JUAN	88.28	62.4	12 55	1			16 41 PP
TOLEDO	88.94	5.3	12 49	-9	23 47	2	29 17 SS
GALERAZAMBA	89.00	74.1			23 50	5	29 58 SS
KARAPIRO	89.13	185.8	12 56	-3			
ATHENS	89.18	343.6			23 21	-26	
RIVERVIEW	89.28	205.9	13 9K	10	23 48	0	23 27 SKS
LISBON	89.69	9.3	12 56	-5			13 43
MESSINA	90.12	350.0	12 59	-4			
KSARA	90.34	333.0	13 4A	0	23 56	-1	16 43 PP
ALICANTE	90.62	2.6	13 4	-2	23 56	-4	16 40 PP
GRANADA	91 66	5.1	13 11K	1	24 15	6	16 51 PP
ALMERIA	92.04	4.2	13 9	-3			
ANTIGUA	92.12	59.3	13 12	0			
ALGIERS UNI.	92.24	359.8	13 11	-2	24 1	-13	23 44 SKS
JERUSALEM	92.44	332.8	13 15	1			
WELLINGTON	92.53	186.1			23 41	-36	25 24 PS
RELIZANE	93.24	1.8	13 17	-1			
CHINCHINA	93.34	77.9	13 19	1			
BOGOTA	94.56	76.9	13 17	-7	24 1	-33	
MELBOURNE	94.80	209.2			24 38	2	
HELWAN	95.31	335.4	13 27A	0	24 17	-24	
TRINIDAD	97.10	63.2	13 35	0			
ROXBURGH	97.23	189.5			24 56	-1	24 9 SKS
PERTH	101.64	233.0					39 50
TAMANRASSET	106.15	357.4	14 17	777	24 56	0	18 40 PP
HUANCAYO	106.72	88.4					18 40 PP
MBOUR	112.30	20.8					19 26 PP
LA PAZ	114.60	85.8			25 34	4	19 54 PP
TERRE ADELIE	121.95	198.0					20 32 PP
LWIRO	126.41	327.0	19 6	1			32 17
WILKES	129.40	210.0					21 30 PP
BYRD STATION	135.12	167.9	19 11	-11			22 50
PRETORIA	147.94	313.3	19 50K	6			
PIETERMZBURG	150.10	306.0	19 54	6			
KIMBERLEY	152.05	315.5	19 52	2			
HERMANUS	159.31	318.6					24 20 PP

JULY 23 6.H 20.M 45.S EPICENTRE -20.70 169.82 DEPTH= 0.KM

A=-0.92148 B= 0.16540 C=-0.35144 D= 0.1767 E= 0.9843
G= 0.3459 H=-0.0621 K=-0.9362 HT= 4.5

SE= 2.04

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
NOUMEA	3.52	242.6	1 0K	3	1 40	-1		1 13 PG
SUVA	8.51	74.1	2 8	1				
ONERAHI	15.53	166.1	3 49	7				
AUCKLAND	16.68	166.0	3 58	1				5 4
BRISBANE	16.74	243.0	4 0	2	7 18	14		

KARAPIRO	17.86	165.1	4 6	-5				
APIA	18.85	71.6	4 22	-2				
TONGARIRO	19.08	166.3	4 27	1				
TUAI	19.11	162.3	4 27	0				
COBB RIVER	20.46	173.7	4 41	-1				
WELLINGTON	20.94	169.5	4 47	0				5 11 PP
RIVERVIEW	21.09	227.8	4 48A	0	8 51	12		5 11 PP
KAIMATA	21.79	176.8	4 55	-1				
GEBBIES PASS	23.05	174.8	5 8	0				
RABAUL	23.75	311.3	5 15	0				
GUAM	41.96	321.9	7 56	2				
SCOTT BASE	57.21	180.8	9 50	-1				
WILKES	59.00	204.0			18 8	-2		
MANILA	59.43	302.1	10 6	-1				
BAGUIO CITY	60.80	303.6	10 9	-7				
OASIS-BUNG.	62.82	205.3	10 29	-1				
MATUSIRO	64.30	332.1	10 38	-2				19 31
MIRNY	65.95	205.3	10 48	-2				
BYRD STATION	66.41	169.7	10 50	-3				11 55
UKIAH	86.32	45.8	12 46	1				
BERKELEY	86.35	47.3	12 45	0				24 21
LICK	86.52	48.0	12 46K	0				
KING RANCH	86.90	50.5	12 48	0				
PASADENA	87.51	52.1	12 53	2	23 51	20		24 47
FRESNO	87.53	49.2	12 51A	0				
WOODY	87.71	50.5	12 51	-1				13 54
DALTON	87.78	52.3	12 52	0				
BARRETT	87.98	54.0	12 53	0				
MINERAL	88.01	45.4	12 53A	0				
RIVERSIDE	88.02	52.6	12 53	0				
PALOMAR	88.13	53.3	12 54	0				
CHINA LAKE	88.68	50.9	12 59	2				
TINEMAHA	88.78	49.5	12 59	2				
RENO	88.83	46.8	12 58	1				
CORVALLIS	89.03	41.1	12 59	1				
HAYFIELD	89.21	53.5	12 59	0				
BOULDER CITY	90.77	51.7	13 7	1				
VICTORIA	90.97	37.7	13 7	0				
SEATTLE	91.18	38.8	13 12	4				
COLLEGE	91.28	16.7	13 9	0				
EUREKA	91.45	48.2	13 8	-1				16 50 PP
TUCSON	92.29	56.5	13 13	0				
RAPID CITY	102.01	47.4	18 9	251				
KSARA	137.36	297.8	19 23	-3	26 31	-4		23 9 PP
COLLMBERG	144.48	334.8	19 36	-2				
PRAGUE	144.81	332.3	19 36	-3				23 7
BRATISLAVA	144.90	327.8	19 39	0				20 31
BENSBERG	146.87	339.8	19 41	-1				
STRASBOURG	148.67	336.8	19 51	6				20 43
FLORENCE X.	150.88	327.1	19 53	4				20 56 PKP2
TAMANRASSET	165.27	280.9	20 7	1				24 53 PP

JULY 24 1.H 57.M 39.S EPICENTRE -29.65 -71.06 DEPTH= 70.KM

DEPTH OF FOCUS= 0.006R

A= 0.28250 B=-0.82340 C=-0.49214 D=-0.9459 E=-0.3245
G=-0.1597 H= 0.4655 K=-0.8705 HT= 1.9

SE= 1.95

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
ANTOFAGASTA	6.00	5.7	1 30	1	2 45	8		
LA PLATA	12.28	118.6	2 52	-2	5 9	-1		
LA PAZ	13.36	12.3	3 9K	1	5 43	7		3 21 PP
HUANCAYO	17.95	346.3	4 7	0	7 16	-6		8 56
BOGOTA	34.19	354.7	6 43	2	12 10	8		
CHINCHINA	34.69	352.0	6 43	-2	12 17	8		
BALBOA HTS.	39.24	346.7	7 26	2	13 20	1		
GALERAZAMBA	40.39	353.6	7 33	0	13 44	8		
TRINIDAD	41.12	14.3	7 41	2				
ST. VINCENT	43.60	13.9	7 59	0				
ST. LUCIA	44.49	14.0	8 6	-1				
FORT FRANCE	45.14	13.6	8 11	-1				18 17 SS
SAN JUAN	47.98	6.3	8 30	-4				

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COMITAN	49.95	333.2						14 45
MERIDA	53.39	338.2	10 57	102				11 31 PP
BYRD STATION	54.18	189.3	9 19	-2	16 41	-10		9 36
VERA CRUZ	54.24	330.4	9 33	12	17 1	9		26 21
TACUBAYA	55.80	327.4	9 39	6				11 36 PP
SOUTH POLE	60.52	180.0	10 6	0	18 19	5		
BERMUDA	61.98	6.1	10 17	2	18 37	4		14 21 PPP
COLUMBIA	64.00	350.8	10 31	2	18 59	1		
CHIHUAHUA	66.91	326.7	10 46	-1	19 43	10		
SCOTT BASE	67.50	191.2	10 51	0	19 6	-34		
MBOUR	68.08	57.8	10 59	4	19 52	5		13 26 PP
WASHINGTON	68.42	355.0	10 54	-3	19 56	5		11 48 PCP
FAYETTEVILLE	68.91	340.1	10 59A	-1	20 2	5		20 58 SCS
LUBBOCK	69.30	332.8	11 0	-2	20 8	6		
CINCINNATI	69.58	348.9	11 3	-1	20 4	-1		
CAPE HALLETT	70.07	196.6	11 6	-1	20 0	-11		
FORDHAM	70.19	357.7	11 6	-2	20 17	5		
ST. LOUIS 1	70.25	344.1	11 7	-1	20 15	2		11 28 PCP
PALISADES	70.35	357.7	11 7A	-2	20 19	5		11 22 PCP
FLORISSANT	70.44	344.1	11 9A	0	20 18	3	11 23	
CLEVELAND	71.43	351.7	11 15	0				20 6
WESTON	71.67	359.8	11 18A	1	20 35	6		
TUCSON	72.20	325.3	11 19	-1	20 37	2		
CHICAGO CGS.	72.69	347.1	11 21	-2	20 37	-4		
HERMANUS	74.14	120.8			21 0	3		11 39 PCP
HALIFAX	74.22	5.5	11 32A	1	21 2	4		
OTTAWA	74.81	356.6	11 35A	0	21 11	6		11 48 PCP
BARRETT	75.57	321.5	11 38	-1			11 54	
HAYFIELD	75.81	322.9	11 40	-1			11 52	
SHAWINIGAN	75.85	358.8	11 37A	-4				11 52 PCP
PALOMAR	76.19	321.8	11 43	0			11 55	
SEVEN FALLS	76.41	0.2	11 42	-2	12 11	-551	12 6	11 46 PCP
RIVERSIDE	76.96	321.9	11 46	-1	21 36	8	11 58	
BOULDER CITY	77.17	324.9	11 47	-1	21 38	8		26 6 SS
PASADENA	77.50	321.5	11 49	-1	21 43	9	12 2	26 53 SS
CHINA LAKE	78.47	323.0	11 54	-1			12 7	
ISABELLA	78.80	322.3	11 56	-1			12 9	
RAPID CITY	79.04	337.0	11 56	-3				
KING RANCH	79.24	321.3	11 59	-1				
TINEMAHA	79.74	323.4	12 2	0	22 5	7	12 18	
GRAHAMSTOWN	80.08	122.6	12 3A	-1				
FRESNO	80.35	322.2	12 5A	-1				
EUREKA	80.47	326.4	12 6	0				38 53 PKPPKP
TERRE ADELIE	80.73	192.4	12 7	-1	22 13	5		
KIMBERLEY	80.93	117.8	12 9K	0				
LICK	81.76	321.5	12 13A	0				12 25
RENO	82.42	324.1	12 16A	0	22 35	10		12 28
BERKELEY	82.48	321.5	12 17A	0	22 34	8		28 9 SS
BOZEMAN	83.29	333.0	12 21	0				
MIRNY	83.34	173.6	12 20	-1				
UKIAH	83.91	321.9	12 26	2				
MINERAL	83.95	323.6	12 23A	-1				
BUTTE	84.19	332.3	12 12	-13	22 46	3		28 56 SS
OASIS-BUNG.	84.28	176.7	12 25	-1				
WILKES	84.44	180.6	12 29A	2	22 47	1		28 22 SS
HUNGRY HORSE	86.66	332.9	12 37	0	23 1	-6		
WELLINGTON	86.86	223.5	12 41K	3				
ROXBURGH	87.25	217.7			23 19	6		
TONGARIRO	87.65	225.5	12 44	2				
CORVALLIS	87.90	325.6	12 43A	0	23 23	4		
COBB RIVER	88.19	222.7	12 46	1				
LISBON	89.20	43.6	12 53K	3				16 28 PP
SEATTLE	89.66	328.2	12 59	7	23 45	10		23 24 SKS
TAMANRASSET	90.17	63.9	12 54	0	23 46	6		16 33 PP
MALAGA	90.91	47.5	12 58K	0	23 54	8		16 28 PP
GRANADA	91.70	47.6	13 2K	1	23 55	2		16 49 PP
ALMERIA	92.24	48.4	13 4	0	23 55	-3		16 47 PP
TOLEDO	93.02	45.2	13 7A	0	24 0	-5		15 42
RELIZANE	93.61	50.7	13 10	0				13 53
ALICANTE	94.39	48.1	13 10	-4	24 21	4		
ALGIERS UNI.	95.85	50.9	13 19	-1	24 37	8		17 13 PP
LWIRO	97.46	96.8	13 31	3				17 44 PP
CLERMONT-FD.	100.68	43.3	13 45	3				
KEW	101.79	37.1	13 47	0	24 18	-61		17 57 PP
PARIS	101.91	40.4	13 51	3	24 19	-61		17 49 PP
DURHAM	102.96	33.8						17 11
ROME	104.74	50.1	13 58	-2	24 41	-62		18 17 PP
FLORENCE X.	104.77	47.9						18 18 PP

STRASBOURG	104.83	42.4			24 57	-47		18 21 PP
MESSINA	105.22	54.6						18 7 PP
RIVERVIEW	105.31	215.4			24 37	-7		33 9 SS
EBINGEN	105.36	43.1	14 4	777				
BENSBERG	105.60	40.0						18 33 PP
STUTTGART	105.76	42.7	14 5	777	25 6	-4		18 21 PP
SCORESBY SD.	105.78	15.3			24 37	-33		18 33 PP
TRIESTE	107.19	47.0			26 10	17		18 35 PP
JENA	108.09	41.3						18 36 PP
PLAUEN	108.24	41.9	18 41	777				
COLLMBERG	109.06	41.4	18 49	777				
POTSDAM	109.53	40.3	18 55	777				28 29
COPENHAGEN	110.48	36.9			25 28	31		26 11 SKKS
COLLEGE	111.09	333.5	18 25	-1				14 28 P
BELGRADE	111.23	49.8	19 6K	40				19 21 PP
KRAKOW	112.70	44.3						19 16 PP
HELWAN	113.96	68.2						26 51
UPPSALA	114.51	33.7						19 29 PP
BUCHAREST	114.90	51.6	19 34	61				29 18 PKKP
ISTANBUL	115.97	55.9						19 35 PP
KISHINEV	117.47	49.4	18 39	1				
KIRUNA	117.64	25.4	18 29	-9	25 29	4		19 53 PP
KSARA	118.94	65.5	18 48	7				20 3 PP
SIMFEROPOL	120.56	52.7	18 46	2				
APATITY	122.55	26.2	18 46	-2				20 24 PP
RABAUL	126.64	238.4	18 53	-3				
TIFLIS	127.63	58.3	19 0	2				
MAKHACH-KALA	129.77	57.0						22 28
TIKSI	136.57	351.0	19 16	1				
SVERDLOVSK	136.84	36.9	19 15	0				
PETROPAVLOVK	137.05	317.6	18 17	-58				
GUAM	143.19	251.8	19 24	-3				
QUETTA	143.75	78.4	19 26A	-1				22 48 PP
BOMBAY	145.51	99.8	19 35	4				
POONA	146.23	101.1	19 35	3				19 48
KOROR	147.30	232.3	19 30	-4				
NAMANGAN	147.78	59.3	19 38	4				
FRUNSE	149.53	54.9	19 41	4				
SEMIPALATNSK	150.10	38.0	19 40	2				
LAHORE	150.22	77.5	19 41A	3			20 2	
MATUSIRO	154.58	293.4	19 46A	2				23 46 PP
KYOTO	156.77	290.3	19 47A	0				
IRKUTSK	157.14	7.3	19 51	3				
VLADIVOSTOK	157.23	312.4	19 57	9				
MANILA	161.33	219.1	19 47	-5				
BAGUIO CITY	163.04	221.6	19 57	3				
LHASA	164.40	85.6	20 1A	6				24 43 PP
PEKING	168.06	332.1	20 2A	4				21 19 PKP2
ZO-SE	169.33	280.9	20 3	4				25 4 PP
NANKING	171.19	288.3	20 3A	3				25 23 PP
CANTON	172.39	211.8	20 5A	4				21 23 PKP2
CHENGTU	175.62	75.5	20 4A	2				25 36 PP

JULY 24 10.H 47.M 50.S EPICENTRE -27.15 -65.95 DEPTH= 175.KM

DEPTH OF FOCUS= 0.022R

A= 0.36318 B=-0.81369 C=-0.45388 D=-0.9132 E=-0.4076
G=-0.1850 H= 0.4145 K=-0.8911 HT= 2.7

SE= 1.57

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
ANTOFAGASTA	5.34	309.8	1 17	-2				2 13
LA PLATA	10.34	140.3	2 26	1	4 15	-3		
LA PAZ	10.79	348.7	2 32A	2	4 25	-4		2 44 PP
HUANCAYO	17.41	327.8	3 55	2	7 9	7		10 41
BOGOTA	32.54	344.8	6 10	-6	11 19	2		
CHINCHINA	33.27	342.2	6 21	-1				
TRINIDAD	37.84	7.1	7 3	2				
ST. VINCENT	40.33	7.0	7 21	-1				
ST. LUCIA	41.21	7.3	7 29	0				
FORT FRANCE	41.89	7.0	7 34	0				
DOMINICA	42.43	6.5	7 38	-1				
ANTIGUA	44.15	6.6	7 51	-1				
SAN JUAN	45.26	359.8	7 58	-3				9 51 PP

TACUBAYA	56.39	321.6	9 30	5				11 28 PP
BYRD STATION	57.37	189.6	9 31	-1			10 15	14 4
BERMUDA	59.21	1.2	9 44	-1	17 38	1		
COLUMBIA	62.47	345.9	10 6	-1	18 16	-2		19 34
SOUTH POLE	63.01	180.0	10 9	-1	18 21	-4	10 47	
PALISADES	68.21	353.5	10 43	0	19 30	2		11 28 PCP
FAYETTEVILLE	68.31	335.6	10 43A	-1	19 28	-1		
LUBBOCK	69.35	328.5	10 49	-1	19 39	-2		
WESTON	69.36	355.7	10 52	2				
SCOTT BASE	70.78	190.3	10 59	0				
HALIFAX	71.45	1.8	11 6	3				
OTTAWA	72.75	352.8	11 10	0	20 22	2		
TUCSON	72.91	321.3	11 12	1				
SHAWINIGAN	73.61	355.1	11 14A	-2				
CAPE HALLETT	73.70	195.4	10 55	-21				
SEVEN FALLS	74.05	356.5	11 19	1	22 0	85		
BOULDER	76.21	329.9	11 31	1				
BARRETT	76.59	317.8	11 33	1				
HAYFIELD	76.71	319.2	11 33	0				
PALOMAR	77.18	318.2	11 36A	0				
GRAHAMSTOWN	77.56	121.1	11 39K	1				
BOULDER CITY	77.89	321.3	11 40	0				
RIVERSIDE	77.94	318.4	11 40A	0				
KIMBERLEY	78.04	116.2	11 40	0				
PASADENA	78.52	318.0	11 44A	1	21 40	17		
RAPID CITY	78.67	333.6	11 44	0				12 34
CHINA LAKE	79.35	319.6	11 48A	1				
ISABELLA	79.74	318.9	11 50A	0				
KING RANCH	80.27	318.0	11 53	1				
TINEMAHA	80.58	320.1	11 55A	1				
EUREKA	81.05	323.1	11 57	1				
FRESNO	81.28	319.0	11 57	-1				
PRETORIA	82.05	114.7	12 2	0				
PIETERMZBURG	82.10	119.1	12 2	0				
LICK	82.75	318.4	12 6A	1				
RENO	83.19	321.0	12 6A	-1				
BOZEMAN	83.26	330.0	12 8	0				
BERKELEY	83.47	318.5	12 9A	0				
BUTTE	84.21	329.4	12 13	0	22 17	-4		
MINERAL	84.75	320.7	12 14A	-1				
TAMANRASSET	85.03	61.4	12 18	1	22 29	0		12 21 PCP
MIRNY	85.23	171.7	12 16	-2				
MALAGA	85.93	45.1	12 19K	-2				
OASIS-BUNG.	86.42	174.6	12 22	-1				
HUNGRY HORSE	86.62	330.2	12 24	0	22 32	-12		
CORVALLIS	88.51	323.0	12 35	2	23 6	4		
RELIZANE	88.56	48.3	12 36	2				
SEATTLE	90.03	325.7	12 42	1				
ALGIERS UNI.	90.81	48.6	12 46	2	23 24	1		22 58 SKS
VICTORIA	91.17	325.9	12 45	-1				
LWIRO	93.21	94.2	12 32	-23	23 54	10		
PARIS	97.13	38.3	13 10	-3				
STUTTGART	100.91	40.6	13 31	1				
SCORESBY SD.	102.24	13.8			24 0	2		
RESOLUTE	103.31	352.4			24 0	-2		
KRAKOW	107.80	42.5			24 26	2		
UPPSALA	109.97	32.3			25 27	56		
COLLEGE	110.89	333.1	18 51	39				14 14 P
KIRUNA	113.49	24.4						24 45
HELSINKI	113.59	33.1			24 45	-1		
SIMFEROPOL	115.48	50.8						24 55
PULKOVO	116.15	34.1						28 55 PP
SVERDLOVSK	132.15	36.5	18 55	2				
PETROPAVLOVK	138.12	320.7						22 20
QUETTA	138.78	74.3	18 59	-6				22 30 PKS
NAMANGAN	142.64	57.3	19 9	-3				
WARSAK DAM	142.98	68.8	19 6	-7				
FRUNSE	144.42	53.4	19 17	2				
LAHORE	145.23	73.1	19 18K	1				29 12 SKKS
SEMIPALATNSK	145.35	38.8	19 19	2				
DJAKARTA	146.14	167.0	19 20	2	26 40	33		
GUAM	148.26	250.7	19 24	2				
DEHRA DUN	148.35	75.6	19 28	6				
IRKUTSK	153.87	13.6						27 40 PP
MATUSIRO	157.48	300.6	19 36	2				20 9
SHILLONG	160.06	89.5	19 39K	2				

JULY 24 11.H 2.M 31.S EPICENTRE -18.00 169.13 DEPTH= 0.KM

A=-0.93461 B= 0.17949 C=-0.30707 D= 0.1886 E= 0.9821
G= 0.3016 H=-0.0579 K=-0.9517 HT= 5.1

SE= 3.26

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
NOUMEA	4.97	210.0	1 15	-3	1 33	-44		1 47 SG
SUVA	8.85	92.4	2 3	-9	3 47	-7		2 17
BRISBANE	17.58	234.7	4 9A	1	7 36	13		
ONERAHI	18.30	166.3	4 19	2	8 6	27		
APIA	18.83	79.9	4 20	-3				11 43
AUCKLAND	19.45	166.2	4 29	-2				
KARAPIRO	20.63	165.5	4 41	-3				
RABAUL	21.53	307.6	4 53	0				5 26 PP
TONGARIRO	21.85	166.5	4 56	0				
TUAI	21.88	163.0	5 4	8				
RIVERVIEW	22.53	222.1	5 3A	0	9 14	8	5 12	5 36 PP
COBB RIVER	23.21	173.1	5 17	8				
WELLINGTON	23.71	169.4	5 15A	1				6 24
KAIMATA	24.52	175.9	5 28	6				
GEBBIES PASS	25.80	174.1	5 30	-4				
ROXBURGH	27.47	179.7			10 25	-5		
MELBOURNE	28.94	222.0	6 2	-1				
TRUK	30.52	324.5	6 11	-6				
GUAM	39.45	320.8	7 31	-3	13 35	-1		9 28 PCP
KOROR	42.47	303.4	7 57	-1				8 19
PERTH	49.82	243.1			16 20	14		19 44 SS
TERRE ADELIE	52.01	193.5	9 11	-2	16 37	1		
CAPE HALLETT	54.31	179.6	9 28	-2				
MANILA	57.45	301.2	9 44	-9				
BAGUIO CITY	58.78	302.7	10 1	-1	18 9	2		
SCOTT BASE	59.90	180.6	10 8	-2	18 23	2		
WILKES	61.20	203.3	10 7	-12				18 19
KYOTO	61.53	329.1	10 19K	-2	18 42	0		
MATUSIRO	61.61	332.0	10 20	-2	18 39	-4		22 38
DJAKARTA	61.79	272.6	10 18	-5	18 27	-18		
OASIS-BUNG.	64.98	204.6	10 41	-3				
HONG KONG	67.03	304.6	11 3	6				
ZO-SE	67.11	316.3	10 59	2	19 55	4		
MIRNY	68.12	204.8	11 2	-2	20 3	0		
BYRD STATION	69.18	169.8	11 7	-3	20 8	-8		
NANKING	69.28	315.7	11 11	0				
VLADIVOSTOK	69.77	331.8	11 18	4				
SOUTH POLE	72.12	180.0	11 33	5	20 58	8		
CHANGCHUN	73.44	328.5	11 33	-3				
PEKING	75.91	320.8	11 49	-1	21 30	-3		
TATUNG	77.71	319.5	12 9	9				
MAGADAN	78.70	350.6			21 40	-23		
CHENGTU	79.09	307.2	12 7	-1	22 11	4		
LANCHOW	81.84	312.0	12 24	2	22 43	7		
UKIAH	84.92	46.2	12 40	2				
SANTA CLARA	84.99	48.3	12 50A	12				24 5
BERKELEY	85.01	47.7	12 41A	2	23 7	0		
LICK	85.21	48.4	12 38A	-2				
KING RANCH	85.71	50.9	12 41	-1				
FRESNO	86.28	49.6	12 43	-2				
PASADENA	86.38	52.5	12 44	-1	23 29	8		16 3 PP
MINERAL	86.59	45.7	12 44A	-2				
ISABELLA	86.78	51.0	12 46	-1				
RIVERSIDE	86.91	52.9	12 46	-2	23 32	6		12 50
BARRETT	86.93	54.4	12 51	3				
PALOMAR	87.05	53.7	12 48	-1				
CORVALLIS	87.44	41.4	12 54	3				
RENO	87.47	47.1	12 49A	-2				
CHINA LAKE	87.49	51.2	12 50	-1				
TINEMAHA	87.54	49.8	12 51	0				
SITKA	87.88	26.8			23 35	0		
COLLEGE	88.89	17.0	12 55	-2	23 40	-4		24 54 PPS
SEATTLE	89.49	39.0	13 2	2	23 46	-4		24 2 PS
BOULDER CITY	89.62	51.9	13 0	-1				
EUREKA	90.15	48.4	13 2	-1				13 33
TUCSON	91.35	56.6	13 9	0				16 45 PP
COLOMBO	91.40	276.8			23 58	-9		52 35
SALT LAKE C.	93.56	48.3			24 36	10		
HUNGRY HORSE	94.83	40.7	13 30	5				

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BUTTE	94.92	43.2	13 29	4	24 42	4	17 14 PP
BOZEMAN	95.80	43.9	13 35	6			
BOULDER	98.06	50.6					17 34 PP
LUBBOCK	98.94	57.7					17 47
BOMBAY	101.41	286.3			24 40	-52	
LAHORE	103.17	299.1			24 51	-56	
FLORISSANT	109.10	54.4					19 5 PP
QUETTA	109.11	296.4			25 18	9	28 53 PS
ST. LOUIS 1	109.18	54.6					19 5 PP
WASHINGTON	119.45	55.1			26 20	32	20 16 PP
PALISADES	121.82	52.5					20 23 PP
SHAWINIGAN	122.11	46.0	19 4	7			
KIMBERLEY	122.15	217.2	18 57A	0			
SEVEN FALLS	123.35	45.0	19 1	2			
KIRUNA	126.35	345.8	19 5	0			21 1 PP
SCORESBY SD.	127.10	4.6					21 17 PP
SAN JUAN	127.69	80.4	18 9	-59			
BERMUDA	129.73	62.6					21 29 PP
HELSINKI	130.67	337.3					22 37 SKP
SKALSTUGAN	131.77	346.4	19 16	1			
UPPSALA	133.41	340.6	19 21	3			22 44 PKS
KSARA	135.48	300.1	19 32	10			22 14 PP
LWIRO	136.05	246.8	19 33	10			
KISHINEV	136.46	320.6	19 28	4			
WARSAW	137.66	331.2					20 37
COPENHAGEN	138.42	340.3					23 7 PKS
ISTANBUL	138.82	312.5	19 31	3			22 20 PP
BUCHAREST	139.38	318.6	19 53	24			21 33
KRAKOW	139.62	329.4	19 26	-4			
HELWAN	139.86	295.2	19 33	3			
POTSDAM	140.88	336.8	19 39	7			23 29
HAMBURG	140.98	340.3	19 38	6			
BRATISLAVA	142.26	329.1	19 33	-1			22 45 PP
JENA	142.60	336.6	19 34	-1			
DURHAM	142.61	351.1	19 34K	-1			
PLAUEN	142.72	335.6	19 34	-1			19 52
DE BILT	143.69	343.3	19 41	4			
BENSBERG	144.11	340.5	19 39	1			
RATHFARNHAM	144.59	355.2	19 35	-3			
STUTTGART	145.25	336.5	19 38K	-2			23 21 PKS
KARLSRUHE	145.35	337.5	19 39	-1			20 5
TUBINGEN	145.50	336.4	19 41	1			20 0
KEW	145.57	348.3	19 42	2			19 55
TRIESTE	145.66	328.8	19 40	0			19 57
EBINGEN	145.82	336.1	19 41	0			20 47
STRASBOURG	145.94	337.7	19 41	0			23 17 PP
ZURICH	146.64	335.7	19 46	4			
CHUR	146.67	334.2	19 43K	1			
BASLE	146.89	336.9	19 47	5			
PARIS	147.41	343.5	19 49A	6			42 27 SS
NEUCHATEL	147.57	337.0	19 45	2			
BOLOGNA	147.68	329.6	19 53	9			27 35
BESANCON	147.70	338.3	19 38	-6			
PAVIA	148.15	332.7	19 49	5			28 1
FLORENCE X.	148.24	328.8	19 45K	0			30 18 SKKS
OROPA	148.31	334.4	19 50	5			27 47
ROME	148.94	325.0	19 53	7			23 21 SKP
REGGIO CALA.	149.37	316.2					20 0
MESSINA	149.38	316.5	19 43	-3			23 31 PP
CLERMONT-FD.	149.96	340.2	19 52	5			
TORTOSA	155.24	339.1					25 9
ALGIERS UNI.	157.63	329.5	20 2	4			24 19 PP
ALICANTE	157.78	338.0	19 59	1	27 3	1	
RELIZANE	159.62	332.4	20 5	5			20 53 PKP2
ALMERIA	159.81	340.1	20 8	7			24 33 PP
GRANADA	159.85	342.9	20 17K	16			24 43 PP
TAMANRASSET	163.92	289.9	20 6	1			24 46 PP
MBOUR	173.13	120.7	20 17	6	27 24	11	25 42 PP

JULY 25 7.H 42.M 24.S EPICENTRE 51.22-177.21 DEPTH= 0.KM

A=-0.62809 B=-0.03060 C= 0.77754 D=-0.0487 E= 0.9988
G=-0.7766 H=-0.0378 K=-0.6288 HT= -5.9

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
PETROPAVLOVK	14.92	286.8	3	35	1							
MAGADAN	19.82	307.3	4	37	2							
COLLEGE	20.44	36.9	4	41	0	8	34	8			16	20 SCS
SITKA	24.91	60.0	5	27	1	9	56	9			6	18 PP
Y.-SAKHLINSK	26.35	276.5	5	38	-1							
TIKSI	31.26	330.4	6	22	-1	11	28	-2				
TUKUBASAN	33.78	260.5	6	44	-1	12	19	10			8	17
MATUSIRO	34.74	262.6	6	54K	0	12	23	-1			8	9 PP
VLADIVOSTOK	34.91	276.9	6	53	-2	12	30	3				
SEATTLE	35.19	73.8	7	1	4	12	36	5			13	0
CORVALLIS	36.04	79.0	7	8	3							
HAWAII V.OB.	36.14	143.3	7	16	11							
KYOTO	37.27	262.8	7	16A	1	13	4	1				
BANFF	37.63	65.2	7	17	-1							
CHANGCHUN	38.63	282.2	7	25	-1							
MINERAL	39.39	83.7	7	32A	-1						7	49
RESOLUTE	39.47	24.5	7	34	1	13	12	-24			9	9 PP
HUNGRY HORSE	39.78	68.5	7	37	1	13	43	2				
BERKELEY	40.44	87.3	7	41	0	13	53	2				
SANTA CLARA	40.95	87.7				14	12	14				
RENO	40.98	83.5	7	43	-3						14	24
LICK	41.15	87.4	7	48A	1							
BUTTE	41.81	70.8	7	53	0	14	18	7			9	54 PP
FRESNO	42.66	86.7	8	0	0							
BOZEMAN	42.90	70.4	8	2	0	14	29	2			9	1
EUREKA	43.40	80.9	8	6	0							
TINEMAHA	43.46	85.3	8	8	2						9	40 PCP
KING RANCH	43.61	88.3	8	7	0						8	29
WOODY	43.92	87.3	8	9	-1						8	32
ISABELLA	44.19	87.0	8	11K	-1						8	34
CHINA LAKE	44.64	86.2	8	17	1							
SALT LAKE C.	45.18	76.7	8	35	15	14	59	-1				
PASADENA	45.35	88.4	8	21	0	14	44	-19			8	45
RIVERSIDE	45.95	88.0	8	24	-2							
BOULDER CITY	46.27	84.0	8	30	1	15	34	18			13	8
IRKUTSK	46.32	303.6	8	28	-1							
PEKING	46.39	283.2	8	30	0	15	19	2				
PALOMAR	46.70	88.3	8	33	1						8	50
HAYFIELD	47.24	87.0	8	36	0							
BARRETT	47.26	88.8	8	34	-2							
TATUNG	48.11	285.2	8	48	5							
RAPID CITY	48.41	67.9	8	42	-3							
GUAM	48.56	233.1	8	43	-4							
ZO-SE	49.00	270.5	8	51	1	15	58	4				
BOULDER	49.61	73.4	8	55	0							
NANKING	49.85	273.2	8	57	0	16	8	2				
TRUK	50.56	221.3	9	1	-1						9	16
TUCSON	51.22	84.9	9	6	-1							
LUBBOCK	55.89	77.3	9	40	-2							
LANCHOW	56.40	287.3	9	47	2	17	38	3				
SCORESBY SD.	57.29	9.6	9	52	0	17	52	5				
FAYETTEVILLE	58.81	70.0	10	1	-1	18	20	13				
KOROR	59.11	239.7	10	0	-4							
APATITY	59.33	346.8	10	0	-6	18	6	-8				
SEMIPALATNSK	59.33	313.4	10	33	27	18	54	40				
CANTON	59.62	269.6	10	9	1	18	19	2				
CHENGTU	60.00	282.6	10	9	-1							
BAGUIO CITY	60.01	258.6	10	8	-2	18	24	2				
KIRUNA	60.53	352.4	10	14	0						10	57 PCP
RABAUL	61.11	215.5	10	16	-2							
MANILA	61.18	256.9	10	17	-1							
CLEVELAND	62.21	57.7	10	26K	1	18	49	-1				
SVERDLOVSK	62.26	328.3	10	26	0	18	54	3				
OTTAWA	62.39	51.2	10	25K	-2	18	52	-1			11	7 PCP
SHAWINIGAN	62.97	48.6	10	29K	-1							
SEVEN FALLS	63.46	47.1	10	33	-1	19	7	1			20	30 SCS
KUNMING	64.83	279.1	10	43	0	20	27	64				
SKALSTUGAN	65.30	355.3	10	46	0						11	16 PCP
PALISADES	66.50	53.4	10	53A	0	19	43	-1			20	57 SCS
WESTON	66.76	50.9	10	55	0	19	42	-5				
PULKOVO	67.14	345.3	10	48	-9							
FRUNSE	67.50	310.9	10	59	-1	19	59	3				
HELSINKI	67.53	348.2	10	59	-1						11	26 PCP
TACUBAYA	67.66	86.6									11	14
COLUMBIA	67.88	63.1	11	1	-1	19	58	-2				
TOCKLAI	68.44	286.1									11	33

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LHASA	68.56	290.8	11 8A	1			
HALIFAX	68.63	44.6	11 6A	-1	20 5	-4	
UPPSALA	68.63	352.0	11 5	-2	20 0	-9	11 22
SUVA	69.18	184.4			20 10	-6	20 48 PS
NAMANGAN	70.34	311.4	11 16	-1			
SHILLONG	71.06	287.3	11 20A	-2	20 38	0	
ABERDEEN	71.90	2.8			20 48	1	21 28
COPENHAGEN	73.16	354.3	11 43	9	21 22	20	
DURHAM	74.31	2.6	11 9A	-32	21 6	-9	
DEHRA DUN	75.39	300.2	11 50	3	21 42	15	
HAMBURG	75.40	355.6	11 48	1	21 27	0	12 46
RATHFARNHAM	75.57	5.6	11 46	-2			
WARSAW	75.78	348.6	11 55	6			12 10
WARSAK DAM	75.91	307.0	11 51	1			
WITTEVEEN	76.28	357.6	11 53	1			
POTSDAM	76.41	353.5	11 53	0			
LAHORE	76.42	303.6	11 52	-1	21 41	3	
DE BILT	77.03	358.5	11 54	-2	21 54	9	
HALLE	77.36	354.1	11 59	1			
COLLMBERG	77.49	353.5	11 56	-3			13 55
KEW	77.65	2.0	11 59	-1			
LWOW	77.71	346.1	12 0	0			
BERMUDA	77.85	53.1	12 6	5	21 59	6	26 48 SS
JENA	77.95	354.3	12 0	-1	22 0	6	
KRAKOW	78.05	348.8	12 3	1			13 24
BENSBERG	78.13	357.2	12 2	0			
PLAUEN	78.34	353.9	12 1	-2			12 53
MAKHACH-KALA	78.46	328.2	12 0	-4	21 52	-8	
PRAGUE	78.60	352.4	12 6	1	22 24	23	23 5 PS
CHEB	78.74	353.7	12 7	1			13 8
KISHINEV	79.60	342.2	12 7	-3			
IASI	79.67	343.1	12 11	0			13 20
BRATISLAVA	80.23	350.3	12 14	0	22 44	25	12 42
STUTTGART	80.23	355.7	12 14	0	22 33	14	12 17 PCP
SOTCHI	80.28	333.7	12 13	-1	22 23	4	
PARIS	80.35	0.2	12 15A	1	22 20	0	12 26 PCP
SIMFEROPOL	80.44	338.0	12 14	-1	22 35	14	
TIFLIS	80.46	329.5	12 15	0			
TUBINGEN	80.48	355.8	12 16	1			
STRASBOURG	80.48	356.6	12 14	-1	22 26	5	14 56 PP
EBINGEN	80.83	355.8	12 17	0			12 30 PCP
QUETTA	81.28	308.0	12 19A	0	22 29	0	15 27 PP
BASLE	81.54	356.7	12 21	1			
BESANCON	81.87	357.8	12 14	-8			12 43
NEUCHATEL	82.09	357.1	12 21	-2	22 45	7	
CHUR	82.13	355.3	12 24K	0			
BUCHAREST	82.62	343.4	12 25	-1	22 44	1	22 20
TRIESTE	83.04	352.3	12 44	16			23 11
CLERMONT-FD.	83.39	359.8	12 31	1	23 9	18	
PAVIA	83.82	355.5	12 37	5	23 18	23	28 48 SS
FLORENCE X.	85.09	353.9	12 36	-3	23 19	11	15 59 PP
ISTANBUL	85.26	340.4	12 40	1			
MONACO	85.34	356.6	12 41	1			13 31
ROME	86.87	352.8	12 50	3	23 28	3	24 10 PS
POONA	87.02	296.0	12 49	1	23 43	17	16 15 PP
BOMBAY	87.31	297.0			23 36	7	
TARANTO	87.81	349.0					14 36
TORTOSA	88.31	1.7			23 36	-3	
SAN JUAN	88.35	62.4	12 55	0			
TOLEDO	89.08	5.3	12 58	0	23 34	-12	29 49 SS
RIVERVIEW	89.15	205.9			23 36	-10	
MESSINA	90.25	350.0	13 2K	-2	23 50	-6	25 0 PS
KSARA	90.45	333.0	13 8	4	24 3	5	16 45 PP
GRANADA	91.79	5.1			24 29	19	
MALAGA	92.20	5.8	13 14A	2	24 10	-4	16 50 PP
ALGIERS UNI.	92.38	359.8	13 13	0	23 58	-17	25 43 PS
JERUSALEM	92.55	332.8	13 16	2			
TAMANRASSET	106.28	357.4			25 15	20	18 37 PP
HUANCAYO	106.73	88.4					18 51 PP
LA PAZ	114.62	85.8					19 37 PP
LWIRO	126.52	327.0	19 6	1			21 2 PP
BYRD STATION	134.99	168.0	19 18	-3			22 49 SKP
PRETORIA	148.03	313.1	19 46	2			
PIETERMZBURG	150.17	305.8	19 53	6			
KIMBERLEY	152.14	315.3	19 52	2			

JULY 26 6.H 49.M 43.S EPICENTRE -35.50-179.73 DEPTH= 0.KM

A=-0.81591 B=-0.00390 C=-0.57816 D=-0.0048 E= 1.0000
G= 0.5782 H= 0.0028 K=-0.8159 HT= -0.1

SE= 3.14

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
TUAI	4.13	216.3	1 5	0	1 55	-1		
KARAPIRO	4.51	236.3	1 11	0	2 6	1		1 38
ONERAHI	4.82	265.1	1 17	2				2 24
TONGARIRO	5.28	224.3	1 21	-1				2 54
WELLINGTON	7.21	215.2	1 52	3	3 3	-9		
COBB RIVER	8.13	224.6	2 17	15	3 26	-10		
KAIMATA	9.82	221.8			4 6	-11		
GEBBIES PASS	10.07	213.4	2 31	2	4 8	-16		
SUVA	17.36	354.1	4 17	12				
NOUMEA	17.85	313.8	4 14A	3	7 34	5		4 24 PP
APIA	22.77	20.3	5 1	-4				
RIVERVIEW	23.98	265.5	5 15A	-2			5 25	5 49 PP
BRISBANE	24.51	281.4	5 23A	1	9 49	9		
MELBOURNE	28.31	254.8	5 56	-1				
RABAUL	40.55	313.7	7 40	-2				
SCOTT BASE	42.85	184.2	8 1	0				
WILKES	49.98	209.8			15 57	-11		
BYRD STATION	50.21	168.6	8 58	-1				
MADANG	51.86	314.2						15 7
OASIS-BUNG.	53.95	209.6	9 25	-2				
MIRNY	56.95	208.5	9 47	-2				
MATUSIRO	81.66	327.0	12 16	-5	22 8	-25		27 17 SS
PASADENA	90.04	46.8	13 10	7	23 39	-16		
PETROPAVLOVK	90.25	347.2	12 31	-33				
PALOMAR	90.28	48.2	13 5	1				
RIVERSIDE	90.41	47.4	13 2	-2				
WOODY	90.72	45.3	12 54	-12				
ISABELLA	90.92	45.6	13 5	-2				
HAYFIELD	91.28	48.6	13 12	4				
TUCSON	93.33	52.4	13 26	8				
EUREKA	94.98	44.2	13 24	-1				
LA PAZ	97.18	116.0	13 31	-4				17 29 PP
PALISADES	123.11	60.4						37 29 SS
OTTAWA	123.33	54.9	19 9	10				
QUETTA	124.68	284.8	19 0	-1	26 6	1		
SEVEN FALLS	127.07	54.1	19 13A	7				
LWIRO	133.93	221.5						21 59 PP
SVERDLOVSK	134.81	317.7						22 49 PKS
SODANKYLA	144.69	342.7	19 34	-4				
TIFLIS	144.96	293.9	19 38	-1				19 48
KIRUNA	145.65	346.6	19 38	-2				19 48
KSARA	150.76	277.1	19 48	0	26 45	-9		23 17 PKS
JERUSALEM	150.76	272.8	19 49	1				
SKALSTUGAN	150.94	349.0	19 51	3				
UPPSALA	153.15	340.5	20 7	15				
PRAGUE	162.16	329.0						31 19
TAMANRASSET	166.52	201.2	20 6	-1				25 5 PP
MALAGA	176.03	70.9						25 47 PP
GRANADA	176.45	60.7						25 51 PP

JULY 27 14.H 45.M 25.S EPICENTRE -20.43-174.29 DEPTH= 0.KM

A=-0.93319 B=-0.09335 C=-0.34706 D=-0.0995 E= 0.9950
G= 0.3453 H= 0.0345 K=-0.9378 HT= 4.6

SE= 1.99

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
APIA	7.02	20.4	1 47	0	3 0	-8		6 0
SUVA	7.24	287.1			2 53	-21		2 4
RABAUL	36.40	291.8	7 7	-1				
MELBOURNE	39.23	234.8	7 32	0				
KOROR	57.42	293.4	9 53	0				
BYRD STATION	64.14	170.9	10 39	0				12 47 PP
MATUSIRO	72.27	321.4	11 31A	1	20 51	-1		25 52 SS
KING RANCH	75.82	43.4	11 50	0				
PASADENA	76.13	45.2	11 51	-1				

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BARRETT	76.28	47.1	11 53	0				
PALOMAR	76.54	46.5	11 53	-1				
RIVERSIDE	76.57	45.7	11 53	-1				
ISABELLA	76.84	43.8	11 56	0				
CHINA LAKE	77.50	44.1	11 59	0				
HAYFIELD	77.59	46.8	12 0	0				
TINEMAHA	77.84	42.8	11 55	-6				
BOULDER CITY	79.42	45.3	12 11	1				
TUCSON	80.17	50.3	12 15	1				
EUREKA	80.71	41.9	12 17	0				
SALT LAKE C.	84.04	42.6	12 35	1				
BUTTE	86.52	37.9	12 55	9				
HUNGRY HORSE	87.03	35.4	12 51	2				
COLLEGE	87.44	11.0	12 51	0				
RESOLUTE	106.78				26 25	86		
QUETTA	124.36	293.1	19 5K	3				
SVERDLOVSK	125.89	326.3						19 54
WARSAW	146.10	343.1	19 47	6				20 43
SIMFEROPOL	146.11	322.7	19 45	4				
LWOW	147.25	337.9	19 48	4				
LWIRO	148.05	227.8	19 52A	7				
KRAKOW	148.36	342.4						19 50
JENA	149.22	352.7	19 53	6				
PLAUEN	149.57	351.9	19 52	5				20 5
KSARA	150.15	302.8	19 51	3				
BRATISLAVA	150.84	344.3	19 51	2				
JERUSALEM	151.28	299.2	20 0	10				
PARIS	151.57	4.5						20 11 PKP2
STUTTGART	151.59	355.1	19 59	9				20 9 PKP2
STRASBOURG	151.87	357.1	19 50	-1				
EBINGEN	152.19	355.3	19 59	8				20 11 PKP2
GRANADA	161.44	24.0	19 43K	-20				25 55 PP
MALAGA	161.52	26.4	20 54A	51				
TAMANRASSET	177.66	4.4	20 16	4				25 55 PP

JULY 28 8.H 40.M 7.S EPICENTRE 17.07 -99.15 DEPTH= 0.KM

A=-0.15215 B=-0.94432 C= 0.29174 D=-0.9873 E= 0.1591
G=-0.0464 H=-0.2880 K=-0.9565 HT= 5.3

SE= 3.24

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
PUEBLA	2.15	24.8	0 41	5	1 19	16		0 53
OAXACA	2.28	90.9	0 36A	-2	1 11	4		0 57
TACUBAYA	2.32	358.9	0 41A	2	1 21	14		0 59
VERA CRUZ	3.57	53.2	0 57A	0	1 38	-4		
MANZANILLO	5.30	292.6	1 18	-3	2 27	4		2 7
GUADALAJARA	5.33	313.0	1 25	3	2 33	9		1 47
COMITAN	6.78	95.9	1 38	-4	2 59	-1		1 49
MAZATLAN	9.12	312.9	2 18A	3	4 19	21		2 29 PP
MERIDA	9.81	65.3	2 27	3	4 36	21		2 36 PP
SAN SALVADOR	10.13	107.8	2 28	-1	5 47	84		
SANTIAGO MA.	10.90	107.6	2 42	3	6 2	80		
CHIHUAHUA	13.15	332.2	3 13A	4	5 53	16		3 32
LUBBOCK	16.62	352.1	3 53	-1				
TUCSON	18.44	327.2	4 17A	0	7 59	19		7 20 PCP
FAYETTEVILLE	19.45	12.1	4 28A	-1				
BALBOA HTS.	20.71	110.5	4 39	-4	8 51	22		
BARRETT	22.18	317.7	4 56A	-2	9 9	13		
HAYFIELD	22.22	321.3	4 57A	-1	9 26	29		11 2
SAN DIEGO	22.55	317.0	5 7	6				
PALOMAR	22.73	318.8	5 3A	0				
ST. LOUIS 1	22.87	18.2	5 2A	-2				
FLORISSANT	22.97	17.8	5 6A	1	9 18	7		
COLUMBIA	23.42	40.6	5 10A	0	9 31	12		
BOULDER CITY	23.42	326.5	5 11A	1	9 34	15		
RIVERSIDE	23.48	319.3	5 10A	0	9 31	11		
DALTON	23.87	319.0	5 16A	2				
GALERAZAMBA	24.00	102.0	5 13	-2	9 37	8		
PASADENA	24.08	318.5	5 16A	0	9 25	-5		5 36
SAN NICOLAS	24.41	315.1	5 19A	0				
ISABELLA	25.26	320.9	5 26A	-2	10 6	16		
WOODY	25.52	320.4	5 30A	0	10 5	11		
KING RANCH	25.83	318.7	5 30	-3				

CHAPEL HILL	25.91	39.7	5 33	-1				
CHINCHINA	26.00	114.8	5 35	1	10 16	14		5 42
SALT LAKE C.	26.04	337.7	5 32A	-3	10 16	13		
TINEMAHA	26.08	323.5	5 35A	0				
CHICAGO CGS.	26.55	19.6	5 38	-2	10 14	3		6 30
EUREKA	26.70	330.1	5 41	0				
FRESNO	26.80	321.1	5 40A	-2				
RAPID CITY	27.14	353.6	5 45K	0	10 38	17		7 37
BOGOTA	27.52	113.9	5 49	1	10 26	-1		
LICK	28.29	320.0	5 54A	-1				7 33
SANTA CLARA	28.49	319.7	6 11K	14	11 1	18		
CLEVELAND	28.66	28.3	5 58A	-1				
RENO	28.71	325.4	5 59A	0				
BERKELEY	29.00	320.2	6 0	-2	1 14	23		6 26
WASHINGTON	29.07	37.1	6 0	-2				
PENNSYLVANIA	29.94	33.5	6 10	0	11 19	13		6 24
BOZEMAN	30.20	343.3	6 12A	0	11 3	-7		
MINERAL	30.26	324.6	6 11A	-2				
UKIAH	30.38	321.2	6 13	-1	11 28	15		
PHILADELPHIA	30.86	37.5	6 20	2	11 29	9		
BUTTE	30.95	341.7	6 19A	0	11 38	16		8 8 PCP
BUFFALO L.	31.08	29.9	6 19	-1				
SAN JUAN	31.47	82.6	6 18	-6	11 45	15		7 29 PP
ARCATA	32.01	322.9	6 32	4				
FORDHAM	32.20	37.4	6 28	-2	11 33	-8		
PALISADES	32.28	37.2	6 31A	0	12 6	23	6 36	
HUNGRY HORSE	33.49	341.9	6 41A	0	12 19	18		37 58 PKPPKP
CORVALLIS	34.13	328.6	6 49A	2				
OTTAWA	34.38	29.8	6 48A	-1	12 22	7	7 13	8 9 PP
BERMUDA	34.64	57.4	6 50	-1				
WESTON	34.65	37.5	6 53A	2	12 26	7		
SASKATOON	35.48	352.1	6 56	-2	12 24	-8		
ST. CLAUDE	35.88	86.1	7 4	2	12 41	3	7 12	
SEATTLE	35.94	333.1	7 2	0				13 47
DOMINICA	36.26	87.3	7 10	5				
BANFF	36.45	342.6	7 5	-2				
FORT FRANCE	36.59	88.1	7 6	-2	13 0	11	7 19	8 36 PP
SHAWINIGAN	36.63	30.9	7 7A	-1	12 54	4		8 40 PP
ST. VINCENT	36.74	90.7	7 8	-1				
ST. LUCIA	36.84	89.3	7 8	-2				
TRINIDAD	37.04	94.9	7 9	-3				
VICTORIA	37.09	333.1	7 9	-3	13 0	3		
HUANCAYO	37.30	139.3	7 12	-2	13 16	16		
HORSESHOE B.	37.69	334.1	7 14	-3	13 24	18		
SEVEN FALLS	37.99	31.8	7 19A	0	13 2	-9	7 47	8 49 PP
LILLOOET	38.18	336.5	7 22A	1				
HALIFAX	40.54	39.7	7 40	-1				
LA PAZ	45.25	135.9	8 53A	34	15 40	42		10 49 PP
SITKA	48.22	334.4	8 38	-4	15 56	16		10 55 PP
ANTOFAGASTA	49.25	144.4	8 53	3	15 55	0		
HAWAII V.OB.	53.15	281.7	9 20	0	16 47	-1		
KIPAPA	55.48	284.5	9 34	-3				10 44
HONOLULU	55.57	284.4	9 35A	-3	17 37	16		10 20 PCP
IVIGTUT	56.84	26.7	9 47	0	17 57	19		11 45 PP
RESOLUTE	57.67	1.3	9 49A	-4	17 47	-2		
COLLEGE	57.75	337.7	9 49A	-4	17 56	6		21 51 SS
ANGRA DO HO.	65.55	54.9	10 45	-1	19 44	15		
REYKJAVIK	69.22	27.2	11 10	1				21 8
SCORESBY SD.	69.76	20.4	11 9	-3	20 39	20		11 27 PCP
VIK	70.47	28.1	11 30	14	20 51	24		
AKUREYRI	70.90	25.7	11 38	19				
APIA	77.98	251.4	12 8	8				14 7
RATHFARNHAM	78.20	37.8	11 58A	-3	22 58	64		14 54 PP
MBOUR	78.58	78.4	12 4	1	22 4	6		15 11 PP
EDINBURGH	79.33	34.7	12 5	-2				12 13 PCP
LISBON	79.53	52.7	12 8K	0	22 12	4		15 14 PP
ABERDEEN	79.59	33.3	12 22	13	22 21	12		15 22 PP
COIMBRA	79.73	51.1	12 8	-1	22 9	-1		15 7 PP
DURHAM	80.52	35.6	12 13K	0	22 22	4		15 19 PP
JERSEY	81.77	41.1	12 19	-1	22 51	20		28 12 SS
KEW	82.20	38.6	12 21A	-1	22 55	19		15 38 PP
BERGEN	82.26	29.0	12 25	2	23 18	42		15 43 PP
TOLEDO	83.06	50.5	12 22	-5	22 58	14		15 32 PP
PETROPAVLOVK	83.62	323.7	12 27A	-3				22 56 SCS
MALAGA	83.68	53.7	12 26A	-4	22 52	1		15 52 PP
SKALSTUGAN	84.00	24.8	12 30A	-1				15 50 PP
GRANADA	84.17	53.0	12 35K	3	23 17	22		15 55 PP
PARIS	84.76	40.6	12 34A	-1	23 2	1		15 59 PP

KIRUNA	84.80	19.4	12 33A	-2	22 39	-23	15 56 PP
ALMERIA	85.13	53.1	12 35	-2	23 28	23	15 58 PP
MAGADAN	85.18	331.3	12 35	-2			23 23 SCS
DE BILT	85.21	36.9	12 37	-1	23 29	23	16 1 PP
TIKSI	85.77	346.3	12 37	-3			16 27 PPP
WITTEVEEN	85.78	35.8	12 38	-2			12 47
TORTOSA	86.09	48.6	12 39	-3	23 21	7	
ALICANTE	86.17	51.2	12 43	1	23 19	4	16 9 PP
CLERMONT-FD.	86.21	43.3	12 43	1	23 23	8	16 20 PP
BENSBERG	86.79	37.4	12 45	0	23 42	21	
SODANKYLA	86.99	18.3	12 43	-3	23 22	-1	16 8 PP
BARCELONA	87.05	47.6	12 54	7	23 36	13	16 17 PP
HAMBURG	87.30	34.3	12 45	-3	23 23	-3	16 10 PP
BESANCON	87.51	41.2	12 44	-5			16 9 PP
COPENHAGEN	87.65	31.8	12 50A	1	23 43	14	16 10 PP
RELIZANE	87.79	53.4	12 49	-1	23 50	20	16 14 PP
LUND	88.01	31.6	13 0	9			
UPPSALA	88.04	26.8	12 49	-2	23 41	8	16 22 PP
STRASBOURG	88.10	39.5	12 50A	-2	23 41	8	16 11 PP
NEUCHATEL	88.22	41.1	12 53	1			16 24
SUVA	88.30	250.6	12 48	-5	23 18	-17	24 23 PS
KARLSRUHE	88.31	38.9	12 53A	0	23 49	14	16 30 PP
BASLE	88.40	40.5	12 59	6			23 33
APATITY	88.81	16.4	12 52A	-3	23 34	-6	16 31 PP
STUTTGART	88.88	38.9	12 53	-2			16 33 PP
TUBINGEN	88.90	39.2	12 59	4			
EBINGEN	88.99	39.5	12 56	0	23 49	8	16 29 PP
ZURICH	89.09	40.4	12 59	3	23 53	11	
HALLE	89.29	35.7	12 57	0			16 43 PP
JENA	89.33	36.3	12 57	-1	24 7	22	16 38 PP
ALGIERS UNI.	89.34	51.7	12 54	-4	23 52	7	16 37 PP
OROPA	89.42	42.1	12 54	-4	24 13	28	
POTSDAM	89.50	34.6	12 56	-2	23 47	1	16 41 PP
RAVENSBURG	89.55	39.7	13 11	12	23 48	1	16 19
MONACO	89.82	44.0	13 12	12	24 11	22	16 31 PP
PLAUEN	89.85	36.5	12 56	-4	23 44	-5	16 39 PP
CHUR	89.89	40.6	13 1	1	23 38	-11	
COLLMBERG	89.96	35.6	12 59	-1	24 7	17	16 25 PP
CHEB	90.18	36.8	13 10	9	23 54	2	16 44 PP
PAVIA	90.37	42.2	13 4	2	24 20	26	16 49 PP
HELSINKI	90.89	24.5	12 59	-6	23 46	-13	16 40 PP
PRAGUE	91.35	36.2	13 11	4	23 57	-6	17 4 PP
CUGLIERI	92.04	46.9					16 23 PP
BOLOGNA	92.05	42.1	13 13	3	24 7	-2	13 29
FLORENCE X.	92.31	42.8	13 10	-1	23 33	-38	16 47 PP
TRIESTE	93.05	40.3	13 18	3	24 53	35	17 0 PP
PULKOVO	93.21	23.0	13 13	-2			16 57 PP
VIENNA-H.	93.35	37.2	13 16	0	24 11	-9	16 52 PP
RACIBORZ	93.44	35.0	13 17	1			17 8 PP
ZABRZE	93.65	34.6	13 28	11			
WARSAW	93.77	32.2	13 21A	3	24 17	-7	17 9 PP
BRATISLAVA	93.81	37.0	13 19	1	24 26	2	17 10 PP
DABROWA	93.86	34.4	13 18	0			
ROME	93.96	44.1	13 18A	-1	24 17	-9	16 50 PP
ZAGREB	94.33	39.4	13 37	16			16 52 PP
KRAKOW	94.40	34.4	13 18	-3			17 13 PP
HURBANOVO	94.60	36.9	13 34	12	24 9	-22	17 24 PP
SKALNATE PL.	95.05	35.0	13 38	14			17 28 PP
BUDAPEST	95.31	36.9	13 31	6	24 21	-16	17 4 PP
Y.-SAKHLINSK	95.53	322.6	13 20A	-6			24 8 SKKS
NEMURO	95.65	318.5	13 13	-14			24 56
KALOCSA	95.76	37.7	13 36	9			17 54 PP
TAMANRASSET	96.39	63.9	13 29	-1	24 40	-6	17 15 PP
KUSIRO	96.57	318.6	13 17	-14	24 19	-29	17 30 PP
SZEGED	96.58	37.5	13 41	10			17 36 PP
LWOW	96.70	33.1	13 33	2			17 22 PP
WAKKANAI	96.96	321.7	13 41	8			25 7
AUCKLAND	96.97	233.7			25 3	12	18 3 PP
OBIHIRO	97.36	319.0	13 58	24			
TIMISOARA	97.49	37.5	13 50	15	25 14	18	17 30 PP
BYRD STATION	97.52	183.5	13 26K	-9	24 8	-48	17 41 PP
BELGRADE	97.55	38.6	12 36A	-59	25 25	29	17 37 PP
MESSINA	97.77	46.3	13 33	-3	24 57	-1	17 33 PP
TARANTO	97.81	43.6	13 49	13	24 16	-42	17 36
REGGIO CALA.	97.89	46.3	13 45	8	24 0	-59	16 40 PP
URAKAWA	98.03	318.5	13 38	1	24 33	-27	17 29 PP
LOME	98.07	81.1	13 51	13	24 29	-31	17 55 PP
WELLINGTON	98.19	229.4			24 21	-40	
SAPPORO	98.43	319.8	13 45	6	25 16	13	17 31 PP

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SUTTSU	99.27	320.1	13 58	15	25 17	7	
MORI	99.44	319.3	13 44	0	25 23	12	
SKOPJE	99.68	40.6					18 1 PP
MIYAKO	99.86	316.7	13 33	-13			
CAMPULUNG	99.96	36.4	14 4	18			18 12 PP
AOMORI	100.00	318.2			25 18	1	
IASI	100.17	33.7	13 50	3	24 39	-39	18 5 PP
NOUMEA	100.25	249.8	14 1	14	25 20	1	17 55 PP
SOFIA	100.46	39.2	14 1	13	24 41	-39	18 9 PP
MIZUSAWA	100.69	316.6					18 4 PP
FOCSANI	100.91	35.1	14 17	27			18 23 PP
AKITA	101.04	317.5	13 37	-14			25 39
BUCHAREST	101.08	36.6	13 56	5	24 43	-43	18 11 PP
SENDAI	101.30	315.9	13 53	1			25 34
SAKATA	101.66	316.9					18 27 PP
YAMAGATA	101.67	316.2	14 44	50			
NIIGATA	102.71	316.4					18 23 PP
KAKIOKA	102.87	314.5					18 22 PP
UTUNOMIYA	102.91	314.9					18 27 PP
TUKUBASAN	102.93	314.5	14 5	6	26 16	35	18 15 PP
ROXBURGH	103.02	226.1			24 56	-46	18 20 PP
ATHENS	103.39	43.0					18 23 PP
KUMAGAYA	103.46	314.8	14 15	13			18 50
TOKYO C.M.O.	103.46	314.2	14 11	9	24 45	-61	17 58 PP
MAEBASI	103.53	315.1			25 16	-30	18 4 PP
YOKOHAMA	103.67	314.0					18 25 PP
MERA	103.81	313.5	14 46	43			
OIWAKE	103.92	315.3					16 24
NAGANO	103.97	315.8	14 24	20	25 22	-28	18 15 PP
MATUSIRO	104.02	315.7	14 2	-2	25 44	-6	18 17 PP
HUNATU	104.23	314.5					18 42 PP
KOHU	104.29	314.7					18 45 PP
MISIMA	104.31	314.1					18 29 PP
MATUMOTO	104.36	315.5			25 31	-22	18 19 PP
SVERDLOVSK	104.46	11.3	14 3	-3			
TOYAMA	104.62	316.3					18 28 PP
SHIZUOKA	104.77	314.2					19 35 PP
IIDA	104.86	315.0					18 32 PP
ISTANBUL	104.86	37.9	14 5A	-3	26 16	19	
SIMFEROPOL	105.08	32.4	14 7A	777			25 5 SKKS
OMAESAKI	105.10	314.0			25 44	64	
NAGOYA	105.64	315.1					19 39 PP
GIHU	105.64	315.4			25 45	2	18 41 PP
TRUK	105.73	283.1	18 43	777	25 12	-30	33 50 SS
HIKONE	106.06	315.5					18 41 PP
KAMEYAMA	106.15	315.0					18 35 PP
CAPE HALLETT	106.29	198.6	14 26	777			
KYOTO	106.56	315.5	14 15A	777	26 41	28	
OWASE	106.78	314.5					26 28
TOYOOKA	106.86	316.4					18 42 PP
KOBE	107.12	315.5					19 7 PP
SCOTT BASE	107.43	192.8	14 33	777			28 19 PS
IRKUTSK	108.00	345.1	14 21	777			18 48 PP
TAKAMATU	108.09	315.8			24 50	-11	18 58 PP
KOTI	108.89	315.4					19 23 PP
HAMADA	109.04	317.3					19 4 PP
RABAUL	109.07	271.4	18 7	777			19 8 PP
HIROSIMA	109.13	316.7					19 3 PP
GUAM	109.99	291.6	14 33	777			19 16 PP
OOITA	110.36	316.2					18 58 PP
HUKUOKA	110.93	317.1			25 29	17	19 15 PP
KUMAMOTO	111.22	316.3					19 56
ULAN-BATOR	111.23	341.5	14 36	-238			19 29 PP
TIFLIS	112.68	28.5	14 42	-234			
SEMIPALATNSK	112.83	0.4	14 43	-234			19 18 PP
BRISBANE	113.20	247.0	18 34	-3	25 34	13	
HELWAN	113.25	46.0	14 59	-219	29 17	236	
KSARA	113.69	40.0	14 49	-229			19 22 PP
PEKING	114.35	330.8					19 45 PP
JERUSALEM	114.63	42.0	15 6	-214			
GORIS	115.15	29.0	18 27	-14	25 7	-22	23 3 PKS
RIVERVIEW	115.47	240.2	18 27K	-15	25 49	19	19 55 PP
NANKING	119.10	323.3	18 53	4			20 21 PP
MELBOURNE	120.58	235.8					20 24 PP
TASHKENT	120.93	10.1	18 53	1			15 25 P
ASHKABAD	121.33	20.7	19 0	7	25 54	4	19 55 PP
KOROR	121.71	290.1	19 10	16			20 38 PP
TAIPEI	122.37	315.6					20 36 PP

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HERMANUS	122.69	120.2	19 8	12			20 30 PP
LANCHOW	122.84	337.9	18 56	0			
LWIRO	126.81	79.8	19 5	1			38 30 SS
WILKES	127.14	194.6	15 49K	-195	26 13	5	21 14 PP
KIMBERLEY	127.48	113.4	19 4	-1			
CHENGTU	127.57	334.7	18 55	-10			
WARSAK DAM	128.45	9.9	19 9	2			
BAGUIO CITY	128.61	308.3	19 7	0			
CANTON	129.03	320.5	19 9	1			21 30 PP
HONG KONG	129.06	319.1	19 21	13			21 39 PP
OASIS-BUNG.	129.20	190.3	19 23	15			
MANILA	129.42	306.1	19 10	1			36 14 SS
MIRNY	129.91	186.3					21 29 PP
PRETORIA	130.48	109.5	18 15	-56			
QUETTA	131.15	16.0	19 13	1	26 21	2	21 40 PP
LAHORE	131.26	7.4	19 13K	1			21 39 PP
PIETERMZBURG	132.36	114.7	19 24	10			
LHASA	132.56	348.0	19 15	0			21 51 PP
DEHRA DUN	132.81	3.3	19 25	10			28 43
KUNMING	133.04	332.5	19 16	0			
TOCKLAI	134.39	342.5					20 28
KARACHI	135.29	17.8	19 20	0			22 1 PP
SHILLONG	136.28	345.5	19 11	-11			22 14 PP
BOKARO	139.06	353.1	19 34	7			23 8
CALCUTTA	139.97	349.2	19 43	15			22 52 PP
BOMBAY	143.39	12.8	19 33	-1	26 57	16	23 24 PP
POONA	143.96	11.3	19 36	1			22 52 PP
PERTH	145.07	238.3	19 39	2			22 58
HYDERABAD	145.64	4.1	19 35	-3			23 9 PP
TANANARIVE	148.30	98.5	19 48K	5			23 32 PP
PORT BLAIR	149.13	336.9	19 47	3			20 16
MADRAS	150.11	1.3	20 1	16			21 59
KODAIKANAL	152.67	7.3	20 7	18			24 1 PP
COLOMBO	156.16	2.4					20 18

JULY 29 17.H 15.M 19.S EPICENTRE -23.37 -71.07 DEPTH= 11.KM

A= 0.29810 B=-0.86926 C=-0.39437 D=-0.9459 E=-0.3244
G=-0.1279 H= 0.3730 K=-0.9190 HT= 3.8

SE= 1.93

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
ANTOFAGASTA	0.66	115.4	0 15	0				
LA PAZ	7.37	22.6	1 51A	1	3 15	1		2 2 PP
HUANCAYO	11.96	339.5	2 54	1	5 50	43		
LA PLATA	16.23	138.0	3 45	-4	6 55	7		
BOGOTA	27.97	353.6	5 52	0	10 36	3		
CHINCHINA	28.51	350.5	5 55	-2	10 43	1		6 31 PP
PUNTA ARENAS	29.74	179.8			10 57	-5		
BALBOA HTS.	33.18	344.5	6 39	1	11 59	4		
GALERAZAMBA	34.18	352.6	6 49	3	12 18	7		
TRINIDAD	35.09	16.5	6 55	1				
ST. VINCENT	37.56	15.8	7 13	-2				
ST. LUCIA	38.45	15.8	7 21	-2				8 56 PP
FORT FRANCE	39.09	15.3	7 25	-3	13 19	-7		8 55 PP
ST. CLAUDE	40.21	14.0	7 36	-1	13 15	-28		9 12 PP
SANTIAGO MA.	40.39	333.3	7 41	3				
SAN SALVADOR	40.93	332.5	7 46	3				
ANTIGUA	41.30	14.5	7 43	-3				
SAN JUAN	41.77	7.1	7 48	-2	13 59	-7		9 27 PP
COMITAN	44.43	330.5	8 17	5	14 47	2		10 4 PP
MERIDA	47.61	336.3	8 43A	6	15 29	-1		10 12
VERA CRUZ	48.87	327.9	8 50	3	15 58	10		11 52 PPP
TACUBAYA	50.60	324.8	9 0K	0	16 12	0		12 7 PPP
GUADALAJARA	53.89	321.8			17 3	6		19 31 SCS
BERMUDA	55.77	6.5	9 41A	3	17 22	0		11 53 PP
COLUMBIA	57.83	350.2	9 51	-2	17 33	-16		19 34 SCS
CHAPEL HILL	59.44	352.5	10 2	-2				
BYRD STATION	60.35	188.6	10 10K	0	18 25	3		10 56 PCP
CHIHUAHUA	61.73	325.1	10 23K	3	18 48	8		
FAYETTEVILLE	63.05	339.1	10 26A	-2	18 56	0		
PHILADELPHIA	63.10	356.5	10 27	-2	18 55	-2		20 12 SCS
LUBBOCK	63.77	331.6	10 32	-1	19 5	0		
FORDHAM	63.94	357.6	10 34	0	18 56	-11		

PITTSBURGH	64.01	352.5	10 32A	-3	19 6	-2		
PALISADES	64.10	357.6	10 33A	-2	19 0	-9		11 2 PCP
PENNSYLVANIA	64.15	354.3	10 37	1	19 12	2		13 2 PP
ST. LOUIS 1	64.24	343.4	10 34A	-2	19 8	-3		12 57 PP
MBOUR	64.86	60.1	10 40	0				12 59 PP
CLEVELAND	65.24	351.4	10 40A	-3	19 22	-1		
WESTON	65.41	359.8	10 43K	-1	19 25	-1		
CHICAGO CGS.	66.60	346.6	10 51	0	19 35	-5		24 23 SS
TUCSON	67.10	324.0	10 54	-1	19 49	3		23 55 SS
HALIFAX	68.00	5.7	11 59	59				19 57
OTTAWA	68.56	356.5	11 2A	-2	20 2	-2	11 12	13 47 PP
BREBEUF	68.57	358.1	11 2	-2				
SHAWINIGAN	69.60	358.7	11 8A	-2	20 17	1		13 45 PP
SEVEN FALLS	70.15	0.2	11 13A	0	20 23	1	11 23	13 57 PP
BOULDER	70.69	332.8	11 16	-1				
BARRETT	70.71	320.3	11 17A	0	20 32	3		11 35
HAYFIELD	70.85	321.7	11 18A	0	20 35	5		11 36
PALOMAR	71.30	320.7	11 20	0	20 42	6		39 8 PKPPKP
RIVERSIDE	72.06	320.8	11 25A	0	20 45	1		39 18 PKPPKP
BOULDER CITY	72.08	323.9	11 24A	-1	20 50	5		25 43 SS
PASADENA	72.64	320.5	11 29A	1	20 53	2		25 29 SS
RAPID CITY	73.29	336.4	11 32	0				
CHINA LAKE	73.50	322.0	11 34A	1				39 11 PKPPKP
SCOTT BASE	73.64	190.8	11 34	0	21 9	7		
ISABELLA	73.88	321.4	11 35A	-1	21 9	4		39 14 PKPPKP
WOODY	74.13	321.2	11 37	0				39 14 PKPPKP
SALT LAKE C.	74.22	329.0	11 38	0	21 12	3		26 4 SS
KING RANCH	74.38	320.4	11 39A	0				
TINEMAHA	74.74	322.6	11 40	-1	21 21	6		
EUREKA	75.28	325.6	11 44	0				38 50 PKPPKP
FRESNO	75.42	321.4	11 39A	-6				
CAPE HALLETT	76.07	196.1	11 46	-2				
LICK	76.88	320.8	11 54A	1				21 55
SANTA CLARA	77.07	320.6	11 57A	3	21 46	6		27 0
RENO	77.37	323.4	11 56A	0	21 47	4		
HERMANUS	77.41	122.1			21 48	4		
BERKELEY	77.60	320.8	11 57A	0	21 48	2		14 58 PP
BOZEMAN	77.73	332.5	11 57A	0	21 51	4		13 2
BUTTE	78.65	331.9	12 1	-2	21 58	1		22 52 SCS
MINERAL	78.92	323.0	12 4A	0				
UKIAH	79.01	321.3	12 5	0				
HUNGRY HORSE	81.09	332.6	12 15A	-1	22 23	0		39 0 PKPPKP
CORVALLIS	82.74	325.3	12 25A	1				19 42
GRAHAMSTOWN	83.49	123.4	12 28A	0				
BANFF	83.89	333.7	12 27	-3				
KIMBERLEY	83.89	118.5	12 31K	1				
SEATTLE	84.35	328.0	12 33	1	22 59	3		36 11
LISBON	84.68	43.9	12 36A	2	23 1	2		15 49 PP
COIMBRA	85.99	43.0	12 41	0	23 15	3		
HORSESHOE B.	86.01	328.8	11 39	-62	22 5	-67		
IVIGTUT	86.28	10.9	12 41	-1	23 20	6		24 11 PS
LILLOOET	86.29	330.4	12 39	-3				
MALAGA	86.70	47.6	12 43A	-1	23 39	21		16 7 PP
TAMANRASSET	87.43	64.0	12 48A	0	23 31	6		16 14 PP
GRANADA	87.48	47.6	12 51A	3	23 48	22		16 18 PP
PRETORIA	87.37	117.0	12 38	-12				
ALMERIA	88.08	48.4	12 49	-2	23 48	16		16 17 PP
TOLEDO	88.61	45.1	12 54A	1	23 50	14		16 19 PP
ALICANTE	90.20	47.9	13 3	2	24 1	10		30 9 SS
OASIS-BUNG.	90.53	176.7	13 2	0	23 54	0		
WILKES	90.70	180.6	13 4	1	23 34	-22		24 49 PS
ALGIERS UNI.	91.90	50.6	13 8	-1	24 22	16		16 48 PP
TONGARIRO	92.02	225.5	13 11	2				
TORTOSA	92.08	46.1	13 10	1	23 41	-27		
ROXBURGH	92.20	217.7			23 43	-26		25 21 PS
RATHFARNHAM	94.62	33.0	13 20A	-1				13 50
JERSEY	94.66	37.9	13 23	2				25 56 PS
REYKJAVIK	95.21	19.5	13 26K	2				
CLERMONT-FD.	96.11	42.6	13 30	2	24 7	-35		17 19 PP
KEW	96.79	36.5	13 31A	0	24 7	-41		17 24 PP
PARIS	97.12	39.7	13 33	1	24 9	-42		17 18 PP
DURHAM	97.75	33.2	13 36K	1	24 13	-43		17 59 PP
MONACO	97.98	45.8						17 29 PP
LWIRO	98.17	96.0	13 40A	3				
ABERDEEN	98.69	31.0	13 38A	-1	24 29	-35		17 38 PP
RESOLUTE	99.01	353.8	13 40A	-1	24 29	-38		17 39 PP
NEUCHATEL	99.03	42.7	13 41	0				17 42
OROPA	99.11	44.3	13 49	8				17 52 PP

BASLE	99.64	42.4	13 45	1			17 49	
PAVIA	99.71	45.0	13 46A	2			17 47	PP
SCORESBY SD.	99.74	14.9	13 45	1	24 25	-48	17 43	PP
DE BILT	100.12	37.5	13 47	1			17 45	PP
STRASBOURG	100.18	41.4	13 45A	-1	24 12	-65	17 47	PP
PRATO	100.48	46.8	14 37	49				
FLORENCE X.	100.54	46.9	13 49A	1	24 24	-56	17 52	PP
ROME	100.69	49.0	13 49A	0	24 29	-52	17 53	PP
KARLSRUHE	100.74	41.2			24 23	-58	17 52	PP
EBINGEN	100.76	42.1	13 48	-1			17 6	
BOLOGNA	100.87	46.2	14 3	14			18 3	PP
STUTTGART	101.13	41.6	13 49	-2	24 29	-56	14 0	PCP
MESSINA	101.55	53.4	13 52	0	24 28	-60	18 1	PP
REGGIO CALA.	101.59	53.5	14 6	13				
TRIESTE	102.88	45.8	14 0	2	24 37	-62	18 8	PP
JENA	103.35	40.2	14 0	0			18 8	PP
HAMBURG	103.37	37.3	14 1	1	24 40	-63	18 14	PP
CHEB	103.54	41.2			24 38	-67	18 15	PP
PLAUEN	103.54	40.7	13 59	-2			18 5	PP
TARANTO	103.56	51.7			24 14	-91	15 44	
COLLMBERG	104.32	40.1	14 3	-2			18 19	PP
POTSDAM	104.72	39.1	14 9	3			18 23	PP
PRAGUE	104.78	41.6			24 48	-67	18 20	PP
COPENHAGEN	105.44	35.7	14 12A	777	24 48	-77	18 29	PP
COLLEGE	105.47	334.5	14 7	777	25 49	-16	25 0	SKS
LUND	105.84	35.8	18 32	777				
BRATISLAVA	105.86	44.1	14 12	777			18 31	PP
BUDAPEST	106.94	45.2					18 56	PKS
SKOPJE	107.00	51.2	19 35	777			25 47	SKKS
RACIBORZ	107.10	42.4					17 37	
BELGRADE	107.12	48.1	18 21	777	24 55	-5	28 7	PS
ATHENS	107.59	55.7					28 7	PS
KRAKOW	108.17	42.7					14 6	
SOFIA	108.57	50.8	17 55	777				
UPPSALA	109.26	32.3	18 37	777	26 35	86	18 57	PP
WARSAW	109.36	40.7	14 34K	777			18 59	PP
MELBOURNE	110.34	209.8					29 36	PPS
RIVERVIEW	110.36	216.6			25 20	12	28 33	PS
LWOW	110.69	43.6					19 9	PP
BUCHAREST	110.93	49.6	18 27	-5			19 13	PP
HELWAN	111.52	65.8					18 2	
KIRUNA	111.96	24.1	14 37	-237	26 59	104	19 16	PP
ISTANBUL	112.36	53.6	18 36K	1	27 22	126		
HELSINKI	112.95	32.7	18 37	1				
BRISBANE	113.91	222.6			29 14	232	20 0	
SODANKYLA	114.29	24.9	18 39	0			29 20	PKKP
PULKOVO	115.59	33.4					19 41	PP
KSARA	116.20	62.6	15 1	-221			19 48	PP
SIMFEROPOL	116.66	50.1	18 45	2			15 1	P
APATITY	116.90	24.6	18 45	1	25 36	2	19 51	PP
TIFLIS	124.17	54.5	19 0	2				
RABAUL	129.72	242.7	19 11	3			22 31	PKS
TIKSI	130.39	351.8	19 8	-2	26 0	-15	21 27	PP
SVERDLOVSK	131.72	33.4	19 14	2			31 42	PS
PETROPAVLOVK	132.28	321.6	19 14	1			28 31	SKKS
MAGADAN	133.47	332.1	19 17	1			22 46	PKS
ASHKABAD	134.65	59.1	19 20	2			22 52	PKS
KARACHI	141.95	77.5	19 28	-3			20 22	
QUETTA	142.07	70.4	19 28	-3			22 37	PP
TASHKENT	142.41	52.0	19 26	-6			29 18	SKKS
Y.-SAKHLINSK	144.14	319.4	19 32	-3			25 54	PPP
GUAM	144.70	260.2	19 37	1			21 20	
SEMIPALATNSK	144.98	32.4					22 54	SKP
FRUNSE	145.60	47.2	19 39	2			22 58	SKP
WARSAK DAM	145.71	63.5	19 39	2				
BOMBAY	146.08	90.6	19 41	3			23 3	PP
POONA	146.94	91.7	19 42	2			23 26	PP
KODAIKANAL	147.26	108.2	19 47	7				
COLOMBO	147.63	115.7	19 47	6				
LAHORE	148.34	67.4	19 44A	2			23 15	PP
TUKUBASAN	150.21	302.6	19 47K	2			21 41	
DJAKARTA	150.56	175.8	19 45	0			23 48	
KOROR	150.74	241.1	19 48	3			33 32	SKSP
MADRAS	150.86	105.7	19 53	7			24 41	
HYDERABAD	150.86	96.0	19 53	7			33 53	PPP
IRKUTSK	150.93	5.8	19 47	1			30 29	SKKS
MATUSIRO	151.55	304.2	19 48A	1			23 34	PP
DEHRA DUN	151.65	69.2	19 54	7			23 33	
VLADIVOSTOK	152.64	321.6	19 50	2			23 17	PKS

KYOTO	153.96	302.5	19 53A	3	
ULAN-BATOR	155.45	3.3	19 49	-3	23 48 PP
CHANGCHUN	155.54	330.5	19 54	2	23 58 PP
BOKARO	158.80	84.1	20 1	5	24 21
CALCUTTA	161.02	88.5	20 0	1	24 36
PEKING	162.29	341.4	20 2A	2	24 31 PP
LHASA	162.82	64.8	20 7A	6	24 39 PP
SHILLONG	164.31	78.5	20 5A	3	21 1
MANILA	165.65	234.6	20 6	3	
LANCHOW	166.58	18.1	20 7A	3	24 54 PP
ZO-SE	166.66	307.9	20 8A	4	24 57 PP
BAGUIO CITY	167.05	239.9	20 7	3	
NANKING	167.71	316.9	20 8A	3	25 0 PP
CHENGTU	171.52	30.1	20 10A	3	25 18 PP
KUNMING	174.05	72.4	20 12A	4	25 35 PP
HONG KONG	175.05	258.6	20 11A	2	25 47 PP
CANTON	175.99	266.8	20 13A	4	25 44 PP

AUGUST 1 17.H 53.M 17.S EPICENTRE 29.91 139.31 DEPTH= 433.KM

DEPTH OF FOCUS= 0.063R

A=-0.65836 B= 0.56613 C= 0.49604 D= 0.6520 E= 0.7582
G=-0.3761 H= 0.3234 K=-0.8683 HT= 1.9

SE= 2.01

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
TORISIMA	1.03	56.1	0 53	-2	1 36	-2		
SIOMISAKI	4.65	320.4	1 21	0	2 25	1		
OMAESAKI	4.77	349.1	1 22	0	2 26	0		
OSIMA	4.85	0.7	1 25	3	2 26	-2		
OWASE	4.92	328.4	1 23A	0	2 29	0		
MERA	5.02	4.9	1 22A	-2	2 27	-4		
SHIZUOKA	5.11	351.6	1 25A	0	2 32	0		
AJIRO	5.13	358.1	1 24	-1	2 29	-4		
MISIMA	5.21	356.8	1 26	0	2 32	-2		
TU	5.36	334.6	1 51	23				
KAMEYAMA	5.48	334.8	1 31A	2	2 40	1		
YOKOHAMA	5.52	2.9	1 30	1	2 37	-3		1 46
HUNATU	5.60	355.5	1 31	1	2 40	-1		
NAGOYA	5.61	340.0	1 31	1	2 42	1		
OSAKA	5.71	326.9	1 32A	1	2 47	4		
KOHU	5.74	354.0	1 31	-1	2 47	3		3 27
TOKYO C.M.O.	5.77	3.6	1 30A	-2	2 41	-3		
SUMOTO	5.81	320.9	1 32A	0	2 45	0		
GIHU	5.88	339.3	1 33	0	2 47	1		
KOBE	5.91	324.8	1 34	1	2 48	1		
KYOTO	5.93	330.3	2 33A	60	3 47	60		
HIKONE	5.94	335.1	1 35A	1	2 48	1		
TYOSI	5.94	12.2	2 45	71				
TITIBU	6.06	358.3	1 31	-4	2 47	-3		
KOTI	6.12	307.9	1 36	1	2 51	0		
KUMAGAYA	6.23	0.5	1 36	-1	2 49	-4		
TUKUBASAN	6.33	5.8	1 31	-7	2 50	-5		1 42 PP
KAKIOKA	6.35	6.4	1 34	-4	2 52	-3		
MATUMOTO	6.43	350.3	1 36	-3	2 55	-2		
OIWAKE	6.44	354.5	1 39	0	3 1	4		
MAEBASI	6.48	358.3	1 38	-1	2 52	-6		
MITO	6.53	8.3	1 41	1	2 54	-5		
HUKUI	6.64	338.2	1 41	0				
UTUNOMIYA	6.64	3.9	1 40	-1	2 54	-7		
MATUSIRO	6.69	352.5	1 40A	-2	2 57	-5		4 57
NAGANO	6.81	352.5	1 42	-1	3 3	-1		1 53
TOYAMA	7.00	346.0	1 46	1				
ONAHAMA	7.15	10.3	1 45	-2	3 7	-4		3 21
OOITA	7.35	298.8	1 52	3	3 19	4		
WAZIMA	7.72	345.6	1 52	-1				
HUKUSIMA	7.88	6.7	1 55	0	3 26	0		
NIIGATA	8.00	358.5	2 1	5				
YAMAGATA	8.37	5.6	2 2	2				
SAGA	8.38	295.8			3 38	2		
HUKUOKA	8.41	298.1	2 8	7	3 38	2		
SENDAI	8.45	8.6	1 59	-2	3 35	-2		
ISINOMAKI	8.67	10.5	2 2	-2	3 39	-3		

SAKATA	8.98	2.6	2 11	4				
MIZUSAWA	9.32	8.8	2 11	0	3 55	0		
AKITA	9.81	3.6	2 17A	1				5 2
MORIOKA	9.89	8.4	2 17	0	4 7	1		
AOMORI	10.96	5.9	2 29	0				
MORI	12.21	4.4	2 43	0				
URAKAWA	12.54	12.0	2 49	2				3 35
SAPPORO	13.24	6.5	2 53A	-1				
OBIHIRO	13.36	12.5	2 57	1				3 53
KUSIRO	13.67	16.0	3 2	3				5 37
GUAM	17.11	161.7	3 36	2	6 35	7		
NANKING	17.72	282.1	3 38K	-2	6 39	1		
CHANGCHUN	17.81	325.1	3 41K	0	6 44	4		
PEKING	21.43	304.3	4 15	-1				
BAGUIO CITY	21.79	236.1	4 17	-2				
KOROR	22.91	192.4	4 30	0				
TRUK	25.24	149.7	4 50	-1				
LANCHOW	30.28	291.1	5 33K	-2				
CHENGTU	30.42	280.4	5 31K	-5				
KUNMING	32.76	270.5	5 55	-1				
RABAUL	36.08	157.9	6 24	0				
SHILLONG	41.98	276.0	6 46K	-26				
LAHORE	55.12	289.4	8 49K	-2				
COLLEGE	56.10	29.4	8 58	0			10 23	
QUETTA	61.58	290.2	9 33K	-2				
KARACHI	63.05	285.6	9 18	-27				
SODANKYLA	70.86	337.8	10 31	-2				
KIRUNA	72.56	339.6	10 42	-1				
HELSINKI	75.48	331.9	10 59	0				
UPPSALA	78.58	334.0	11 15	-1				
EUREKA	81.76	49.1	11 34	1				
WOODY	81.76	53.6	11 34	1				12 34
RIVERSIDE	83.69	54.4	11 45	3				
PALOMAR	84.40	54.8	11 48	2				
BARRETT	84.89	55.2	11 50	2				
HAYFIELD	85.07	53.9	11 51	2				
SOUTH POLE	119.74	180.0	17 56	-3				
BYRD STATION	121.18	168.5	18 2	0				

AUGUST 4 0.H 39.M 12.S EPICENTRE -3.62 144.95 DEPTH= 0.KM

A=-0.81705 B= 0.57315 C=-0.06272 D= 0.5743 E= 0.8187
G= 0.0513 H=-0.0360 K=-0.9980 HT= 7.1

SE= 2.83

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
RABAUL	7.23	94.8	1 46	-3	3 10	-3		2 1 PPP
MADANG	8.83	5.5	0 32	-99	0 56	-177		1 32
TRUK	12.99	32.0	3 2	-6	5 49	14		
GUAM	16.98	359.3	3 58	-2	7 8	-1		4 56
BRISBANE	24.95	162.8	5 27A	1	9 52	4		
NOUMEA	27.92	133.5	5 53	0	10 38	2		6 50 PP
MANILA	29.86	307.8	6 10	-1	10 28	-40		
RIVERVIEW	30.61	169.8	6 26	9	11 26	7		
BAGUIO CITY	31.25	310.2	6 22	-1	11 32	2		
MELBOURNE	34.05	180.0	6 48	1				
TORISIMA	34.20	352.8	7 2	13				
SUVA	35.81	116.3			12 49	8		
TAIPEI	36.45	322.6			13 10	19		15 54
OMAESAKI	38.54	351.1	7 37	11				
OSIMA	38.54	352.6	7 28	2	13 16	-6		
MERA	38.64	353.3	7 26	0				
OOITA	38.76	342.0	7 37	10	13 32	7		16 14
SUMOTO	38.94	346.7	7 31	2	13 25	-3		9 12
MISIMA	38.94	352.2	7 26	-3	13 12	-16		
KAMEYAMA	39.09	348.9	7 27	-3				
YOKOHAMA	39.16	353.1	7 32	1	13 34	3		9 2
PERTH	39.27	220.8			13 56	23		9 42
TOKYO C.M.O.	39.40	353.3	7 35	2	13 31	-4		14 46
KYOTO	39.40	348.0	7 30K	-3	13 28	-7		
KOHU	39.50	351.8	7 35	1	13 41	4		
HIKONE	39.54	348.8	7 33	-1				9 13 PP
GIHU	39.57	349.5	7 35	1				9 16 PP
HONG KONG	39.61	312.0	7 34K	0	13 40	2		9 8 PP

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TUKUBASAN	39.89	353.9	7 34	-3	13 43	1	9 8	PP
HAMADA	40.18	343.5	7 47	8	13 49	2	16 48	
MAEBASI	40.19	352.6	7 39	0	13 39	-8	8 4	
OIWAKE	40.19	352.0	7 44	5	13 52	5		
UTUNOMIYA	40.24	353.7	7 40	0	13 37	-11	8 17	
MATUSIRO	40.45	351.6	7 38K	-3	13 33	-18		
NAGANO	40.57	351.6	7 44	2	13 51	-2		
CANTON	40.73	312.2	7 44	0	14 1	6	9 22	PP
TOYAMA	40.76	350.4	7 49	5				
ZO-SE	41.30	328.4	7 45	-3			9 21	PP
NIIGATA	41.69	353.0					8 57	
MIZUSAWA	42.68	355.6	8 0	0	14 20	-4		
MORIOKA	43.25	355.7	8 3	-1	14 31	-1		
NANKING	43.31	326.9	8 4	-1	14 37	4		
AKITA	43.36	354.5	8 7	2	14 35	1	8 34	
TONGARIRO	45.00	146.0	8 21	3				
URAKAWA	45.60	357.7	8 19	-4	15 8	2	10 50	
MORI	45.68	355.4	8 36	12	15 10	3	10 17	
WELLINGTON	46.06	148.6			15 18	5	15 51	
KUSIRO	46.39	359.4	8 34	5	15 18	1		
SUTTSU	46.40	355.2	8 34	4	15 17	-1		
SAPPORO	46.59	356.4	8 31A	0	15 18	-2	9 58	
NEMURO	46.74	0.6					9 23	
ROXBURGH	46.89	156.6			15 0	-25		
VLADIVOSTOK	48.00	347.1	8 45	3	15 42	2		
KUNMING	49.95	307.2	8 57	0	16 9	2	10 53	PP
CHANGCHUN	50.43	341.6	8 59	-2				
PEKING	50.84	331.5	9 4	0	16 23	3	19 55	SS
CHENGTU	51.84	314.1	9 8	-4	16 33	-1	20 9	SS
LANCHOW	55.10	319.5	9 35	-1	17 20	2		
TOCKLAI	57.08	305.1					24 1	
PETROPAVLOVK	57.71	9.7	9 53	-1	17 50	-2		
SHILLONG	59.03	302.6	10 1	-3	18 14	4		
CALCUTTA	61.06	298.1	10 44	27	18 49	13	11 54	
ULAN-BATOR	61.17	331.8	10 19	1	18 46	9		
LHASA	61.25	306.6	10 18	-1	18 43	5		
TERRE ADELIE	63.13	181.6	10 28	-3				
MAGADAN	63.15	3.3	10 32	1	19 8	6		
IRKUTSK	65.42	333.9	10 44	-2	19 31	1		
MADRAS	66.38	285.8					16 30	
WILKES	66.97	194.4			19 57	8		
OASIS-BUNG.	69.64	197.6	11 11	-2				
CAPE HALLETT	70.39	172.0	11 17K	0	20 40	10	13 56	PP
MIRNY	72.32	199.3	11 27	-2				
BOMBAY	74.35	290.6					14 19	
SCOTT BASE	75.07	175.3	11 26	-19				
LAHORE	75.52	303.7	11 50	2			14 43	PP
TIKSI	75.84	354.8	11 47	-2				
SEMIPALATNSK	77.01	323.6	11 55	-1				
FRUNSE	78.23	315.0	12 1	-2				
NAMANGAN	79.84	312.6	12 12	1	22 23	9		
KARACHI	80.72	296.8	13 14	58				
QUETTA	81.47	301.1	12 18	-2	22 30	-1	15 25	PP
COLLEGE	83.79	23.3	12 30	-2	22 51	-4	28 29	SS
SOUTH POLE	86.40	180.0	12 44	-1			16 5	PP
SVERDLOVSK	89.89	326.8	12 30	-32				
BERKELEY	94.40	52.4					25 52	PS
PASADENA	97.71	56.2					20 43	
MAKHACH-KALA	97.91	312.7			26 36	94	15 56	
EUREKA	99.30	50.8	13 49	4				
TIFLIS	99.98	311.6	13 48	0			24 34	SKS
RESOLUTE	101.17	13.6			24 38	-52	27 0	PS
APATITY	101.45	338.6			24 38	-48	19 43	
SOTCHI	103.51	313.8	18 24	260				
TUCSON	103.95	57.8					18 26	PP
PULKOVO	105.34	331.5					23 51	
KIRUNA	105.82	341.0					21 20	
SIMFEROPOL	107.23	316.0	18 33	777	25 6	1		
KSARA	107.83	304.3	14 23	777			28 16	PS
KISHINEV	110.27	319.1	19 21	48			22 39	PKS
UPPSALA	111.08	334.5					29 49	
SCORESBY SD.	112.70	355.3			25 24	1	19 34	PP
WARSAW	113.09	326.3	16 27	-132			27 33	PS
KRAKOW	114.66	324.5					19 47	PP
COPENHAGEN	115.70	332.4					19 50	PP
PRAGUE	117.76	326.4					21 54	PPP
JENA	118.83	328.3					20 16	PP
TRIESTE	120.39	322.3			26 0	9	20 25	PP

ABERDEEN	120.58	339.9						31 58
DE BILT	121.29	332.2						20 6 PP
STUTTGART	121.33	327.3	18 55	0	26 14	20		20 34 PP
STRASBOURG	122.21	327.8						20 36 PP
DURHAM	122.25	337.8						37 15 SS
MESSINA	122.53	313.8						20 47
ROME	123.01	319.0						21 32
PAVIA	123.38	323.8						20 52
PARIS	124.77	330.6	15 46K	-196				31 3 PS
OTTAWA	125.30	34.2	19 5	2				
CLERMONT-FD.	126.44	327.5						30 13 PS
PALISADES	128.99	37.7			25 56	-21		21 12 PP
ALGIERS UNI.	131.92	318.3	19 20	5				21 49 PP
ALICANTE	133.23	322.2	19 18	0				
RELIZANE	134.15	318.7						21 55 PP
TOLEDO	134.30	326.4						28 35
GRANADA	135.87	323.2	20 20	57	27 6	34		22 24 PP
TAMANRASSET	136.37	299.5	19 25	2				22 6 PP
MALAGA	136.65	323.4	19 23	-1				
HUANCAYO	137.04	111.9	19 41	16				
BERMUDA	140.13	40.7						22 26 PP
LA PAZ	141.68	122.4	19 33	0				41 8
SAN JUAN	146.25	61.9	19 40	-1				

AUGUST 4 6.H 6.M 34.S EPICENTRE 16.49 -99.68 DEPTH= 0.KM

A=-0.16127 B=-0.94573 C= 0.28210 D=-0.9858 E= 0.1681
G=-0.0474 H=-0.2781 K=-0.9594 HT= 5.5

SE= 2.74

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
OAXACA	2.83	78.9	0 51	4				1 11
PUEBLA	2.89	28.9	0 53	5				1 26
TACUBAYA	2.93	8.9	0 52A	3				1 24
VERA CRUZ	4.32	50.9	1 11A	2				
GUADALAJARA	5.41	320.9	1 34	10	2 46	18		
COMITAN	7.25	90.8	1 51	1	3 14	0		
SAN SALVADOR	10.46	103.8	2 48	13				
MERIDA	10.51	63.5	2 35	0	4 41	6		3 2
SANTIAGO MA.	11.23	103.9						5 33
CHIHUAHUA	13.45	335.1	3 23	8				
LUBBOCK	17.13	353.8	4 4	2	7 23	10		
TUCSON	18.67	329.2	4 22	0	7 59	11		
FAYETTEVILLE	20.12	13.0	4 35A	-3				8 32
BARRETT	22.28	319.4	5 1A	1				
HAYFIELD	22.37	323.0	5 2A	1				
ST. LOUIS 1	23.57	18.8	5 12	-1	9 33	8		5 34 *SP
RIVERSIDE	23.60	320.9	5 4A	-9	9 47	22		5 27
BOULDER CITY	23.64	328.1	5 15	1				
FLORISSANT	23.68	18.3	5 14	0	9 34	8	5 27	5 36 *SP
COLUMBIA	24.19	40.4	5 18	-1	9 41	6		5 52 PP
PASADENA	24.19	320.1	5 20A	1	9 44	9		
GALERAZAMBA	24.38	100.3						5 56 PP
ISABELLA	25.40	322.3	5 32A	1				
WOODY	25.66	321.9	5 33A	0				
KING RANCH	25.94	320.1	5 36	0				
CHINCHINA	26.22	113.2	5 39	1	10 17	8		
TINEMAHA	26.25	324.9	5 40A	1	10 42	32		
SALT LAKE C.	26.39	338.9	5 39	-1	10 20	8		6 24 PP
CHAPEL HILL	26.67	39.6	5 41	-1				
FRESNO	26.94	322.4	5 44	-1				
EUREKA	26.96	331.4	5 45	0				
CHICAGO CGS.	27.26	20.0	5 44	-4	10 28	2		
RAPID CITY	27.66	354.5	5 51	-1	10 45	12		
BOGOTA	27.75	112.3	6 2	10	10 45	11		6 49 PP
LICK	28.41	321.2	5 58	0				15 47
SANTA CLARA	28.61	320.9			10 56	8		
RENO	28.91	326.6	6 4	1				
BERKELEY	29.13	321.4	6 4	-1	11 2	5		
CLEVELAND	29.41	28.5	6 5A	-2	10 53	-8		
WASHINGTON	29.83	37.1	6 6	-5	11 20	12		8 50 PCP
MINERAL	30.44	325.7	6 16	-1				
UKIAH	30.53	322.3						7 19 PP
BOZEMAN	30.61	344.2	6 18	0				
PENNSYLVANIA	30.70	33.5	6 18	-1	11 29	8		

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BUTTE	31.35	342.6	6 25	1	11 36	4	
SAN JUAN	32.05	81.6	6 34	3			
FORDHAM	32.96	37.4	6 37	-2	12 2	5	
PALISADES	33.04	37.1	6 39A	0	11 58	0	7 24 PP
HUNGRY HORSE	33.88	342.7	6 46	-1	12 14	3	
OTTAWA	35.13	29.8	6 55A	-2	12 36	6	8 12 PP
BERMUDA	35.38	56.9	7 1	2	12 58	24	
WESTON	35.41	37.4	7 3K	3	12 40	5	
SASKATOON	35.98	352.7	7 7	2	12 52	8	
SEATTLE	36.23	333.9	7 13	6	13 15	28	19 56
BANFF	36.85	343.3	7 11A	-1			
FORT FRANCE	37.11	87.3	7 11	-3			
HUANCAYO	37.20	138.2	7 14	-1	13 8	6	
SHAWINIGAN	37.38	31.0	7 14	-2	13 10	5	
VICTORIA	37.38	333.8	7 15A	-1	13 11	6	
HORSESHOE B.	37.99	334.8	7 21	0	13 24	10	
LILLOOET	38.52	337.3	7 56	30			
SEVEN FALLS	38.74	31.8	7 22A	-6	13 27	1	8 55 PP
HALIFAX	41.30	39.6	7 49	0			
LA PAZ	45.19	135.0	8 22A	1	14 56	-5	10 16 PP
SANTA LUCIA	56.84	151.0	9 49	0			10 20
COLLEGE	58.10	338.0	9 53	-5	17 58	0	10 51 PCP
RESOLUTE	58.26	1.5	9 56A	-3	18 3	3	19 47 SCS
SCORESBY SD.	70.47	20.4	11 17	-1	20 32	1	28 2 SSS
RATHFARNHAM	78.96	37.6	12 16	9			
DURHAM	81.28	35.5	12 19K	-1	22 34	4	27 55 SS
KEW	82.96	38.5	12 27	-1			15 42 PP
PETROPAVLOVK	83.79	323.6	12 31	-2			
TOLEDO	83.81	50.4	12 28	-5	22 58	2	
MALAGA	84.43	53.5	12 39A	3	23 9	7	15 47 PP
SKALSTUGAN	84.73	24.6	12 33	-4			
GRANADA	84.92	52.9	12 41A	3	23 33	26	13 3 PCP
MAGADAN	85.44	331.2	12 41	0	23 27	15	
KIRUNA	85.51	19.2	12 39	-2	23 4	-8	15 57 PP
PARIS	85.53	40.4	12 40	-1			15 57 PP
ALMERIA	85.88	52.9	12 44	1			
DE BILT	85.97	36.7	12 44	1	23 26	9	16 0 PP
TIKSI	86.21	346.2	12 42	-3	23 28	9	
ALICANTE	86.92	51.0	12 48	0	23 26	0	23 15 SKS
CLERMONT-FD.	86.98	43.1	12 48	0	23 35	9	29 12 SS
SODANKYLA	87.69	18.2	12 50	-2			16 19 PP
HAMBURG	88.05	34.2	13 8	14			
COPENHAGEN	88.41	31.7	12 54	-1			16 22 PP
UPPSALA	88.78	26.7			23 47	4	16 22 PP
STRASBOURG	88.86	39.3	12 58	1	23 50	6	23 26 SKS
APATITY	89.50	16.3					16 20
STUTTGART	89.65	38.8	13 0	-1			23 59 SCS
EBINGEN	89.75	39.4	13 7	5			13 13 PCP
ALGIERS UNI.	90.09	51.6	13 1	-2	23 57	2	23 30 SKS
JENA	90.10	36.1	13 2	-1	24 8	13	16 35 PP
POTSDAM	90.26	34.4			24 23	26	16 35 PP
PAVIA	91.13	42.0	13 6	-2			25 46 PPS
TRIESTE	93.81	40.2					16 51
PULKOVO	93.94	22.9					14 38
ROME	94.73	43.9	13 23	-2	24 7	-29	17 12 PP
KRAKOW	95.16	34.2					17 26 PP
TAMANRASSET	97.09	63.8	13 36	1			17 30 PP
SVERDLOVSK	105.12	11.1					18 28
SIMFEROPOL	105.84	32.2					18 33
SOTCHI	109.61	30.1					19 1
ULAN-BATOR	111.62	341.1	19 23	47			
QUETTA	131.85	15.6	19 17	1			22 42 PKS

AUGUST 4 14.H 16.M 16.S EPICENTRE 16.81 -99.48 DEPTH= 0.KM

A=-0.15783 B=-0.94472 C= 0.28739 D=-0.9863 E= 0.1648
G=-0.0474 H=-0.2835 K=-0.9578 HT= 5.4

SE= 2.11

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
TACUBAYA	2.59	6.0	0 56	12				
OAXACA	2.61	85.0						1 7
COMITAN	7.08	93.5			3 20	10		
MAZATLAN	9.08	315.4			4 26	26		4 16

MERIDA	10.20	64.7			4 32	4	
SAN SALVADOR	10.36	105.8					1 39
SANTIAGO MA.	11.13	105.7	2 52	9			
LUBBOCK	16.84	353.2	4 3	4			6 30
TUCSON	18.49	328.3	4 21	1	7 6	-38	
FAYETTEVILLE	19.77	12.8	4 34	-1			8 22
BARRETT	22.16	318.7	5 0A	0			
HAYFIELD	22.23	322.2	5 1A	1			
ST. LOUIS 1	23.21	18.6	5 10	0	9 40	21	
FLORISSANT	23.32	18.2	5 11	0	9 36	16	
BOULDER CITY	23.47	327.4	5 14	2			
RIVERSIDE	23.47	320.1	4 54A	-18			
COLUMBIA	23.83	40.6	5 16	0	9 44	15	6 28
PASADENA	24.07	319.3	5 18A	0	9 31	-3	
ISABELLA	25.26	321.6	5 29A	-1			9 6
WOODY	25.52	321.2	5 31	-1			
KING RANCH	25.82	319.5	5 37	2			
TINEMAHA	26.10	324.2	5 39	1			
SALT LAKE C.	26.16	338.4	5 39	1	10 22	13	
CHINCHINA	26.18	114.0	5 40	2	10 28	19	
EUREKA	26.77	330.8	5 44	0			
CHICAGO CGS.	26.90	19.9	5 42	-3	10 22	1	
RAPID CITY	27.37	354.2	5 50	1			
BOGOTA	27.71	113.1	5 59	7	10 39	5	6 28 PP
LICK	28.29	320.6	5 58	0			
SANTA CLARA	28.48	320.3	6 2K	3	11 0	14	
RENO	28.75	326.0	6 4	2			
BERKELEY	29.00	320.8	6 3	-1	11 6	11	
CLEVELAND	29.04	28.5	6 3A	-1			
WASHINGTON	29.47	37.2	6 6	-2			
MINERAL	30.29	325.2	6 14	-2			
BOZEMAN	30.36	343.9	6 16	0			6 36
SHASTA	30.96	324.9	6 25	4			
BUTTE	31.10	342.2	6 23	0	11 38	10	9 22 PCP
SAN JUAN	31.82	82.1	6 31	2			
FORDHAM	32.60	37.5	6 36	0	12 1	10	
PALISADES	32.68	37.2	6 36A	0	11 56	3	7 48 PP
HUNGRY HORSE	33.64	342.4	6 45	0			9 28 PCP
OTTAWA	34.76	29.9	6 53A	-1	12 24	-1	
WESTON	35.05	37.5	6 32A	-25	12 14	-15	
BERMUDA	35.05	57.2	7 2	5	12 28	-1	9 8 PPP
SASKATOON	35.69	352.4	7 2	0	12 55	16	
SEATTLE	36.03	333.5	6 12	-53			
BANFF	36.60	343.0	7 10A	0			
FORT FRANCE	36.91	87.7	6 53	-20			
SHAWINIGAN	37.02	31.0	7 13A	-1	12 57	-3	
VICTORIA	37.18	333.5	7 14A	-1			
HUANCAYO	37.31	138.7	7 14	-2	13 5	1	17 24 SCS
HORSESHOE B.	37.79	334.5	7 20	0			
LILLOOET	38.30	336.9	7 54	30			
SEVEN FALLS	38.38	31.8	7 21	-4	13 26	6	8 53 PP
LA PAZ	45.29	135.4	8 18A	-4	15 2	0	10 4 PP
COLLEGE	57.88	337.9	9 53	-3	17 51	-4	10 46 PCP
RESOLUTE	57.93	1.4			17 57	1	
SCORESBY SD.	70.11	20.4	11 16	-1	20 32	5	25 0 SS
ABERDEEN	79.98	33.3			22 21	4	27 38 SS
COIMBRA	80.14	51.0	12 16	2			
DURHAM	80.92	35.5	12 18K	0	22 29	3	
JERSEY	82.18	41.1			22 47	8	
KEW	82.60	38.5	12 26A	-1			23 6
TOLEDO	83.47	50.4	12 30	-1	22 47	-6	
MALAGA	84.09	53.6	12 35	1	23 9	10	15 53 PP
SKALSTUGAN	84.37	24.7	12 34	-2			
GRANADA	84.58	52.9	12 39K	2	23 21	17	16 35 PP
KIRUNA	85.15	19.3	12 41	1	23 2	-7	15 57 PP
PARIS	85.17	40.5	12 39	-1	23 8	-1	15 57 PP
MAGADAN	85.25	331.2	12 39	-1			
ALMERIA	85.54	53.0	12 48	6			
DE BILT	85.61	36.8	12 44	2	23 22	8	16 2 PP
TIKSI	85.94	346.3	12 40	-4			
ALICANTE	86.58	51.1	12 48	1	23 26	3	16 14 PP
CLERMONT-FD.	86.62	43.2	12 47	0			
SODANKYLA	87.33	18.2	12 48	-2			
COPENHAGEN	88.04	31.7	12 55	1	23 52	15	23 22 SKS
RELIZANE	88.20	53.3	12 56	1			
UPPSALA	88.41	26.7			23 24	-16	16 22 PP
STRASBOURG	88.50	39.4	12 56	0	23 47	6	23 24 SKS
APATITY	89.15	16.3					24 30

STUTTGART	89.28	38.8	12 59	-1	23 34	-14		16 29 PP
EBINGEN	89.39	39.4	12 56	-4				
JENA	89.73	36.2	13 2	0				16 34 PP
ALGIERS UNI.	89.75	51.6	13 0	-2	23 58	5		23 34 SKS
POTSDAM	89.89	34.5						16 36 PP
MONACO	90.23	43.9	13 5	1				
PLAUEN	90.25	36.4	13 4	0				
PULKOVO	93.58	22.9						16 59
WARSAW	94.15	32.1						17 11 PP
BRATISLAVA	94.21	36.9	13 24	1				17 10 PP
TAMANRASSET	96.79	63.9	13 29	-5				17 29 PP
MESSINA	98.18	46.2						25 48
MATUSIRO	103.99	315.5						18 40 PP
SIMFEROPOL	105.47	32.2						18 32
IRKUTSK	108.17	344.9						19 3 PP
ULAN-BATOR	111.38	341.3						19 14
KSARA	114.09	39.8	18 39	-3				19 29 PP
LWIRO	127.17	79.8	19 13A	6				
QUETTA	131.49	15.7	19 16	1				22 44 PKS
TANANARIVE	148.58	98.9	19 51	5				19 56 PKP2

AUGUST 4 21.H 8.M 54.S EPICENTRE -45.63 35.94 DEPTH= 0.KM

A= 0.56812 B= 0.41180 C=-0.71251 D= 0.5869 E=-0.8097
G=-0.5769 H=-0.4182 K=-0.7017 HT= -3.8

SE= 4.00

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
GRAHAMSTOWN	14.25	326.4	2 54	-31				
PIETERMZBURG	16.57	342.9	3 42	-13				
HERMANUS	16.97	305.5	3 47	-13	6 41	-27		
KIMBERLEY	19.02	328.6						4 13 PP
TANANARIVE	28.33	23.7	5 55	-2				6 46 PP
MIRNY	36.33	145.5	7 5	-2				12 16
OASIS-BUNG.	39.42	144.6	7 32K	-1				13 51
WILKES	43.37	145.3	8 14	9	14 45	11		17 6
LWIRO	43.66	349.6	8 2	-6				17 50 SCS
SOUTH POLE	44.56	180.0	8 10	-5				
SCOTT BASE	53.19	168.4	9 19	-3				
BYRD STATION	53.83	185.2	9 24	-2				
TERRE ADELIE	54.53	152.1	9 5	-27	15 15	-115		
CAPE HALLETT	58.11	165.1	9 55	-2	18 18	20		11 4 PCP
PERTH	61.32	107.5						19 23
COLOMBO	65.38	49.3	10 51	5	19 38	8		
KODAIKANAL	66.97	45.2			20 7	18		24 22
MADRAS	70.69	46.1	11 37	18	20 35	2		13 57 PP
BOMBAY	72.43	36.6	11 32	2	20 59	6		
POONA	72.53	37.7	11 28	-2	20 58	3		25 39 SS
TAMANRASSET	73.49	330.8	11 31	-5	20 57	-8		14 15 PP
HYDERABAD	73.64	42.2	11 34	-3	21 13	6		15 46 PPP
MELBOURNE	75.29	129.3						11 49
MBOUR	76.45	307.3	11 59	6	21 39	1		15 13 PP
KARACHI	76.54	28.6						13 24
KSARA	79.08	360.0	12 8	1	22 0	-7		15 12 PP
QUETTA	80.54	26.9	12 13K	-2	22 22	0		27 40 SS
RIVERVIEW	81.60	130.4	12 26A	5				22 46 SKS
BOKARO	82.65	44.9			22 41	-3		
CALCUTTA	82.86	47.6			22 56	10		13 20
LAHORE	84.35	32.2	12 31	-4	22 59	-2		16 1 PP
DEHRA DUN	84.71	35.6	12 32	-5	23 7	3		28 40 SS
GORIS	85.26	8.1	12 39	-1				
REGGIO CALA.	85.33	344.1	12 46	6				
MESSINA	85.44	344.0	12 41	1	23 14	3		15 58 PP
ASHKABAD	85.61	17.6	12 38	-3				13 24
CHATRA	85.83	44.3	12 43	1	23 26	11		
RELIZANE	87.08	331.9	12 44	-5				24 24 PPS
SHILLONG	87.18	48.5	12 45	-4	23 32	4		
ALGIERS UNI.	87.22	334.1	12 47	-2	23 26	-2		16 13 PP
TIFLIS	87.33	6.6	12 48	-2				16 24 PP
BRISBANE	87.53	127.7	13 2	11				23 43 SKS
LA PAZ	87.85	248.6	12 53	1	23 31	-3		16 15 PP
SKOPJE	88.19	349.2	13 0	6				
SOFIA	88.66	350.7	12 52	-4				
ALMERIA	89.11	330.1	13 2	4	23 59	13		

ROME	89.63	342.7	13 5	4	23 57	6	25 2 PS
MALAGA	89.68	328.7	13 2K	1	24 12	21	16 34 PP
ALICANTE	89.79	332.2	12 53	-8	23 39	-13	16 25 PP
GRANADA	89.80	329.4	13 2A	1	24 8	16	23 44 SKS
BUCHAREST	90.09	353.0	13 10	7	24 3	8	23 40 SKS
SIMFEROPOL	90.21	358.7	13 2	-1			16 38 PP
BELGRADE	91.10	349.0	13 28K	20	23 29	-35	23 45 SKKS
TASHKENT	91.55	24.5	12 51	-19			23 47 SCS
FLORENCE X.	91.69	342.4	13 24	14	24 42	33	26 26 PPS
TOLEDO	92.37	330.3	13 18	5	23 57	-18	30 12 SS
TRIESTE	92.99	344.6	13 15	-1	23 53	-28	16 51 PP
LISBON	93.23	326.3	13 24K	7			
PAVIA	93.47	341.4	13 21	3	23 31	-54	25 47 PS
COIMBRA	94.24	327.5	13 16	-6			
HURBANOVO	94.41	348.1					22 22
FRUNSE	94.60	27.4					23 53 SKKS
BRATISLAVA	94.86	347.5	13 28	3			17 12 PP
CLERMONT-FD.	95.52	337.6	13 34	6			26 12 PS
LWOW	95.64	352.3					24 2 SKKS
ZURICH	95.68	341.7					17 40
NEUCHATEL	95.70	340.5					17 18
HUANCAYO	95.81	246.4	13 26	-3			26 6 PS
BASLE	96.06	341.1					17 38
KRAKOW	96.31	349.7			24 10	-39	17 36 PP
EBINGEN	96.36	342.2	13 24	-8			
RACIBORZ	96.57	348.6					15 10
STUTTGART	96.87	342.6	13 32	-2	24 15	-39	17 30 PP
STRASBOURG	97.00	341.6	13 36	1	24 13	-42	17 26 PP
KARLSRUHE	97.27	342.1					18 50
CHEB	97.50	344.9	13 58	21			17 48
HONG KONG	97.83	66.2			24 29	-33	
BAGUIO CITY	97.89	74.7					17 45 PP
WARSAW	98.32	350.8	13 44	4	24 20	-46	17 41 PP
JENA	98.46	344.7	13 42	1			26 36 PS
PARIS	98.49	338.4	13 43	2	25 1	-6	24 21 SKS
HALLE	98.94	345.1			24 29	-42	17 20 PP
POTSDAM	99.59	346.0			24 30	-47	26 52 PS
DE BILT	100.89	341.3	13 58	6	24 36	-52	17 59 PP
HAMBURG	101.28	344.6					17 57
KEW	101.65	337.8	13 47	-9	24 42	-52	18 1 PP
COPENHAGEN	102.87	346.6			24 47	-57	18 16 PP
SEMIPALATNSK	103.07	27.3					17 52 PP
SVERDLOVSK	104.17	13.7					18 22 PP
RATHFARNHAM	104.95	335.3					19 36
DURHAM	104.96	338.6			24 55	-67	18 30 PP
PULKOVO	105.14	357.1			24 22	-100	
UPPSALA	106.19	350.5	18 32	777	24 55	1	18 42 PP
BOGOTA	107.24	258.7					28 8 PS
ABERDEEN	107.25	339.4					25 12
ULAN-BATOR	111.92	43.3					19 21 PP
APATITY	112.87	359.0					19 6
SODANKYLA	112.89	356.1	18 45	6			19 34 PP
KIRUNA	113.74	353.6	18 50	10			19 35 PP
IRKUTSK	113.78	38.6					19 34 PP
BERMUDA	119.28	287.5					28 23
MATUSIRO	122.87	69.5	19 10	12			30 15 PS
SCORESBY SD.	123.07	340.1	19 2	4			20 42 PP
WESTON	129.25	294.0	18 46A	-24			
PALISADES	130.24	291.2					21 28 PP
Y.-SAKHLINSK	131.14	60.6					21 35 PP
MAGADAN	139.77	45.7	19 22	-8			
PETROPAVLOVK	142.86	57.1	19 32	-3			
RESOLUTE	143.98	340.0	19 36	-1			33 11 SKSP
LUBBOCK	145.70	264.5	19 41	1			
TUCSON	151.13	254.1	19 54	5			
RAPID CITY	151.21	281.7	19 50	1			
BOULDER	151.23	272.7	19 49	0			
BARRETT	155.27	248.0	20 8	13			
BOULDER CITY	155.98	256.7	20 9	14			
RIVERSIDE	156.55	249.6	20 4	8			
BOZEMAN	157.01	282.0	19 59	2			
PASADENA	157.16	248.9	20 3	6			34 28 SKSP
BUTTE	158.12	282.4	20 9	11			24 18 PP
ISABELLA	158.26	251.7	20 10	11			24 23 PP
EUREKA	158.48	263.4	20 3	4			
WOODY	158.54	251.3	19 59	0			24 28 PP
TINEMAHA	158.87	255.2	20 13	14			
KING RANCH	158.90	249.3	20 14	15			
HUNGRY HORSE	159.39	288.4	20 5	5			24 37 PP

FRESNO	159.77	252.6						20 13
COLLEGE	160.61	4.8	20 9	8				28 8 SKKS
RENO	161.17	259.7						20 12
LICK	161.31	251.6						20 18
BERKELEY	162.01	252.2						20 54
MINERAL	162.76	260.2	19 55	-8				20 15
SHASTA	163.45	260.4						20 13

AUGUST 5 17.H 34.M 53.S EPICENTRE 15.49 -96.28 DEPTH= 50.KM

DEPTH OF FOCUS= 0.003R

A=-0.10546 B=-0.95833 C= 0.26548 D=-0.9940 E= 0.1094
G=-0.0290 H=-0.2639 K=-0.9641 HT= 5.7

SE= 2.14

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
OAXACA	1.59	342.8	0 38A	12				
VERA CRUZ	3.69	2.2	0 55A	-1				1 7
PUEBLA	3.97	332.7	1 31	31				
COMITAN	4.06	78.8	0 57	-4				
TACUBAYA	4.78	324.8	1 12K	1	2 18	12		1 50
SAN SALVADOR	7.05	103.5	1 42	-1				
MERIDA	8.33	48.4						3 40
GUADALAJARA	8.45	308.6						3 39
CHIHUAHUA	15.91	326.9						4 11
BALBOA HTS.	17.58	109.7	4 1	-2				
LUBBOCK	18.70	345.4	4 14	-2				
FAYETTEVILLE	20.60	4.8	4 36A	-1	8 30	11		
GALERAZAMBA	20.98	100.4			8 38	11		
TUCSON	21.30	324.1	4 44	0				
CHINCHINA	22.84	115.1	5 2	3	9 21	20		
BOGOTA	24.36	114.0	5 18	4	9 43	16		
HAYFIELD	25.19	319.5	5 22	0				8 53 PCP
BARRETT	25.20	316.4	5 22	0				
BOULDER	25.68	343.9	5 27	0				
BOULDER CITY	26.28	324.4	5 32	0				
RIVERSIDE	26.48	317.9	5 34	0				6 3 PCP
PASADENA	27.09	317.2	5 38	-2	10 27	14		8 58 PCP
ISABELLA	28.23	319.4	5 49	-1				9 1 PCP
WOODY	28.50	319.1	5 51	-1				9 2 PCP
SALT LAKE C.	28.59	334.8	5 53	0				
KING RANCH	28.84	317.6	5 54	-1				
TINEMAHA	29.00	321.9	5 57	0				
RAPID CITY	29.09	349.7	6 1	3				
EUREKA	29.46	328.0	6 1	0				
LICK	31.27	318.9	6 17	0				
RENO	31.58	323.9	6 20	0				
BOZEMAN	32.54	340.6	6 29	1				
BERMUDA	33.25	54.0						12 13
SHASTA	33.83	323.1						9 15
HUANCAYO	34.34	141.7						9 17 PCP
OTTAWA	34.47	25.9	6 43A	-2	12 15	6		
BREBEUF	35.47	27.8	6 53	0				
HUNGRY HORSE	35.87	339.7	6 56	-1				
SHAWINIGAN	36.65	27.5	7 2	-1				
HALIFAX	40.06	36.8	7 32	0				
LA PAZ	42.22	137.7	7 47	-3	14 23	17		
RESOLUTE	59.19	0.4			17 53	-7		28 56 PKKP
COLLEGE	60.26	337.3	10 2	-3				
SCORESBY SD.	70.27	20.1	11 14	4	20 33	16		
MALAGA	82.38	54.1	12 20K	2				
GRANADA	82.89	53.5	12 35K	15				
PARIS	84.14	41.1	12 34	7				12 46
SKALSTUGAN	84.25	25.2	12 27	0				
KIRUNA	85.35	19.9	12 32	-1				
RELIZANE	86.49	54.0	12 38	0			13 3	
STRASBOURG	87.53	40.2	12 44	1	23 25	6		13 15
SODANKYLA	87.59	19.0	12 43	-1				
UPPSALA	88.17	27.5	12 45	-1				
TAMANRASSET	94.57	65.0	13 17	1			13 36	17 7 PP
QUETTA	131.80	19.6	19 9	1				
TANANARIVE	145.32	100.9	19 28K	-4				

AUGUST 7 19.H 40.M 50.S EPICENTRE -19.44-177.74 DEPTH= 524.KM

DEPTH OF FOCUS= 0.078R

A=-0.94296 B=-0.03716 C=-0.33082 D=-0.0394 E= 0.9992
G= 0.3306 H= 0.0130 K=-0.9437 HT= 4.8

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
APIA	8.01	46.4	1 57	-1	3 30	-2		
NOUMEA	15.05	256.4	3 16	6	5 52	8		
KARAPIRO	19.32	196.3	3 53	1				
TONGARIRO	20.53	195.0	3 56	-7				
WELLINGTON	22.69	194.8	4 21	-2	7 58	4		
COBB RIVER	23.06	198.6	4 26	0				
KAIMATA	24.77	199.4	4 40	-2	8 0	-27		
GEBBIES PASS	25.50	196.3	4 48	0	7 54	-45		
BRISBANE	27.93	247.8	5 9K	0	9 18	1		
RIVERVIEW	31.14	236.3	5 38K	1	10 5	-2	7 10	
RABAUL	33.02	293.4	5 51	-2	10 40	5		
MELBOURNE	37.20	232.5	6 27K	-1				
TRUK	40.15	308.9	6 51	-1			8 45	
GUAM	49.33	308.7	8 2	-1				
CAPE HALLETT	53.32	184.5	8 30K	-2	15 24	1	10 19	11 13 PP
KOROR	54.05	294.8	8 21	-16			9 58	10 22 PP
TERRE ADELIE	54.10	198.6	8 38	1	15 35	1		
SCOTT BASE	58.94	183.8	9 10	0	16 41	5		
WILKES	65.02	205.2			17 46	-5		21 27 SS
BYRD STATION	65.64	170.6	9 53	0	17 58	0	11 46	10 13 PCP
TUKUBASAN	68.22	324.2	10 10A	0				10 48 PCP
OASIS-BUNG.	68.98	205.5						10 12
MATUSIRO	69.50	323.3	10 17K	0	18 41	-2	12 10	
BAGUIO CITY	70.32	296.2	10 21	-1				
MIRNY	72.06	204.9	10 40	8				
BERKELEY	77.23	42.0	11 1	0				
LICK	77.31	42.7	11 2K	1			13 5	
KING RANCH	77.38	45.3	11 3	1				
VLADIVOSTOK	77.55	324.7						15 12
PASADENA	77.79	47.0	11 4K	0				
BARRETT	78.04	49.0	11 6K	1				
FRESNO	78.17	44.1	11 6K	0				
RIVERSIDE	78.25	47.5	11 7K	1				
HONG KONG	78.38	298.7	11 7A	0				
ISABELLA	78.42	45.6	11 9K	2			13 6	
CHINA LAKE	79.10	45.9	11 12K	1			13 10	
HAYFIELD	79.33	48.6	11 12	0				
TINEMAHA	79.37	44.5	11 13K	1				
RENO	79.77	41.8	11 15	1				
TUCSON	82.07	51.9	11 28	2				
EUREKA	82.19	43.5	11 27	0				
HORSESHOE B.	83.79	32.3	11 35A	0				
COLLEGE	87.13	12.3	11 46	-5	21 39	-6	13 51	
HUNGRY HORSE	88.15	36.8	11 55	-1			14 0	
BOZEMAN	88.51	40.1	11 58	1				
BANFF	88.85	33.9	11 57K	-2				
RAPID CITY	92.76	44.1	12 18	1			14 47	
COPIAPO	95.72	121.5						18 32
HUANCAYO	97.46	105.5						25 56 PS
NAMANGAN	117.86	306.7						17 48
QUETTA	120.98	294.1	17 41	-12			20 2	
SCORESBY SD.	126.93	9.9	18 2	-2				
KIMBERLEY	127.38	205.0						8 5
SODANKYLA	129.62	348.0	18 5	-4				20 38 SKP
KIRUNA	130.27	351.1	18 8	-3				20 42 SKP
SKALSTUGAN	135.36	353.6	18 9	-11				
UPPSALA	138.15	348.4	18 16	-9				
LUND	142.87	349.8	18 32	-2				
COPENHAGEN	143.01	350.4	18 32	-3				
WARSAW	144.14	340.3	18 35	-1				
DURHAM	144.61	3.8	18 36K	-1				
KISHINEV	144.96	327.8	18 36	-2				
LWOW	145.05	335.2	18 37	-1				
HAMBURG	145.41	351.9	18 39	1				
RATHFARNHAM	145.56	9.1	18 39A	0			20 46	

POTSDAM	146.06	348.1	18 38	-1				
LWIRO	146.17	233.3	18 39K	-1				
KRAKOW	146.36	339.3	18 42	2				
WITTEVEEN	146.51	355.1	18 43K	3				
KSARA	146.87	302.5	18 49	9			20 50	
HALLE	147.11	348.8	18 41	0				
DE BILT	147.33	356.7	18 45	4				
JENA	147.72	348.9	18 41	-1			20 52	22 12 PP
PRAGUE	147.93	345.2	18 42	0			21 27	19 44 PKP2
KEW	147.97	3.0	18 46	4			20 53	
PLAUEN	148.02	348.0	18 45	3				19 8
BENSBERG	148.31	354.1	18 46	4				
CHEB	148.38	347.5	18 49	6			20 40	21 17
ISTANBUL KA.	148.57	319.1	18 46	3				
BRATISLAVA	148.92	340.6	18 44	1			20 56	
KARLSRUHE	150.09	351.9	18 44	-1				
STUTTGART	150.21	350.7	18 44	-1				18 50 PKP2
TUBINGEN	150.46	350.8	18 46	0				
STRASBOURG	150.59	352.5	18 45	-1			21 1	19 7 PKP2
PARIS	150.70	359.7	18 47	1			21 4	19 3 PKP2
EBINGEN	150.82	350.8	18 44	-2				18 52 PKP2
HELWAN	151.68	297.2	18 47	0				
BESANCON	152.09	354.6	18 48	0				19 6 PKP2
TRIESTE	152.18	342.6	18 49A	1	24 43	-21	20 52	19 9 PKP2
NEUCHATEL	152.24	353.1	18 48	0				
CLERMONT-FD.	153.73	358.6	18 52	2				
MONACO	155.39	351.0	18 53	0				19 21 PKP2
ALGIERS UNI.	162.72	357.9	19 0	-1				19 52 PKP2
TAMANRASSET	175.49	318.1	19 10	1				24 47 PP

AUGUST 8 1.H 12.M 15.S EPICENTRE 32.40 25.21 DEPTH= 0.KM

A= 0.76537 B= 0.36025 C= 0.53331 D= 0.4259 E=-0.9048
G= 0.4825 H= 0.2271 K=-0.8459 HT= 1.0

SE= 2.78

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
ATHENS	5.68	348.1	1 28	1				
HELWAN	5.83	114.1	1 27	-2	2 27	-11		
KSARA	9.07	78.2	2 5	-10	3 47	-12		4 45 SG
REGGIO CALA.	9.66	308.7	2 21	-2	4 2	-11		
MESSINA	9.78	308.9	2 45	20				
TARANTO	10.28	323.7	1 56	-36				
ROME	13.87	316.7	3 19	-1	6 3	7		
KISHINEV	14.86	9.7			6 28	8		
TRIESTE	15.92	329.5	3 45	-2	6 31	-13		
BRATISLAVA	16.90	341.1	4 2	3	7 16	9		4 49
MONACO	17.95	314.1	4 13	1				
KRAKOW	18.06	349.0	4 11	-3				4 28 PP
RACIBORZ	18.41	345.6						5 43
ALGIERS UNI.	18.75	289.6	4 20	-2	7 47	-2		13 53 PCS
PRAGUE	19.38	338.7	4 29	-1	8 4	1		4 54
TAMANRASSET	19.88	246.1	4 35	0	8 17	3		4 50 PP
EBINGEN	19.98	326.8	4 37	1				5 9
CHEB	20.07	335.4	4 37	0				4 47 PP
NEUCHATEL	20.17	321.6	4 37	-1				
TUBINGEN	20.18	327.6	4 39	0				5 13
STUTTGART	20.30	328.3	4 38	-2	8 25	2		5 18 PPP
MAKHACH-KALA	20.50	52.7	4 46	4				
PLAUEN	20.50	335.7	4 40	-2				5 4 PP
STRASBOURG	20.82	326.0	4 45	0	8 35	2		
KARLSRUHE	20.83	327.7			8 29	-5		5 5 PP
JENA	21.06	335.5	4 47	-1				5 5 PP
HALLE	21.41	336.9	4 29	-22				8 55
CLERMONT-FD.	21.64	314.5	4 57	3				
ALICANTE	21.73	293.0	4 58	4	8 59	8		5 26 PP
POTSDAM	21.83	339.7	5 4	9	8 59	6		
ALMERIA	23.17	288.7	5 9	0				
PARIS	23.65	320.5	5 16	3	9 30	4		5 50 PP
HAMBURG	23.81	337.2	5 12	-3				5 29
GRANADA	24.09	289.4	5 35K	17	9 41	8		6 3 PP
TOLEDO	24.70	295.8	5 21	-3	8 51	-52		
LUND	24.77	343.6	5 37	13				
HELSINKI	27.77	359.7	5 51	-1				
UPPSALA	27.91	351.8	5 52	-1				

DURHAM	29.28	327.7	6 15K	9	11 4	6		
SKALSTUGAN	32.24	349.2	6 30K	-2				
LWIRO	34.63	173.7	6 51	-2				18 22
SODANKYLA	35.01	1.0	6 53	-3				
APATITY	35.51	5.4	6 58	-2				
KIRUNA	35.57	356.9	6 59	-2				
QUETTA	35.58	82.2	7 2	1				
NAMANGAN	37.86	63.4	7 27	7				
HALIFAX	67.30	309.3	10 59	1				
SHAWINIGAN	72.25	314.1	11 29	0				
WESTON	73.33	309.8	12 22K	47				
OTTAWA	74.60	314.1	11 48	6				
COLLEGE	82.90	357.0	12 26	-2				
MATUSIRO	87.14	47.9	12 49	0				
HUNGRY HORSE	91.72	334.2	13 11	1				
SOUTH POLE	122.23	180.0	18 55	-2				

AUGUST 8 22.H 33.M 4.S EPICENTRE -7.33 -13.06 DEPTH= 0.KM

A= 0.96629 B=-0.22411 C=-0.12672 D=-0.2259 E=-0.9741
G=-0.1234 H= 0.0286 K=-0.9919 HT= 6.8

SE= 3.81

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
MBOUR	21.91	349.8	4 54	-2	8 55	1		5 27 PP
TAMANRASSET	35.02	30.8	6 50	-6	12 31	3		8 10 PP
KIMBERLEY	41.54	125.7	7 48	-2				
LWIRO	42.00	85.2	7 50	-4				
MALAGA	44.56	9.9	8 19	4	14 49	-2		9 57 PCP
GRAHAMSTOWN	44.85	130.8	8 15	-2				
GRANADA	45.15	10.7	8 24K	4	15 3	3		10 13 PP
ALGIERS UNI.	46.39	17.9	8 26	-4	15 9	-9		10 11 PP
ALICANTE	46.93	13.6	8 35	1	15 25	0		10 26 PP
TOLEDO	47.70	9.4	8 36	-4	15 36	0		
MESSINA	52.55	28.4	9 18	1	16 44	1		11 18 PP
ROME	54.28	23.4	9 29	-1	17 4	-3		12 25 PPP
LA PAZ	54.51	255.0	9 24	-7	17 16	6		21 2 SS
PAVIA	55.95	18.8	9 39	-3	17 31	2		15 28
NEUCHATEL	56.94	16.2	9 54	5				
JERSEY	57.08	8.5						12 11 PP
PARIS	57.54	12.1	9 49	-4	17 40	-10		13 17 PPP
TRIESTE	57.95	21.9	9 53	-3	18 3	7		12 6 PP
SAN JUAN	58.24	296.8	10 1	3				10 37
EBINGEN	58.58	17.1	9 57	-4				
STRASBOURG	58.60	16.1	10 1	0	18 0	-4		21 50 SS
STUTTGART	59.18	17.0	10 4	-1	18 3	-9		13 37 PPP
KEW	59.58	9.2			18 14	-3		
RATHFARNHAM	60.67	4.7	9 43	-32				10 47
DE BILT	61.22	12.7	10 32	13	18 41	3		22 46 SS
BRATISLAVA	61.31	22.5	10 18	-1				11 14
HUANCAYO	61.46	260.3	10 24	4				
PLAUEN	61.60	18.0	10 21	0				10 40
JENA	61.81	17.4	10 23	0				13 6 PP
PRAGUE	61.96	19.7	10 28	4				11 17 PCP
BOGOTA	62.03	279.2	10 26	2				19 14 PS
HALLE	62.42	17.3	10 33	6				9 49
DURHAM	62.61	7.5	10 33	5	19 15	19		18 55
BERMUDA	63.03	311.9			19 12	11		23 19
POTSDAM	63.52	17.6	10 41	7	19 3	-4		
HAMBURG	63.72	15.1	10 42	7				
KRAKOW	63.93	23.0	11 1	24	19 8	-4		
ABERDEEN	64.90	6.6			19 25	1		21 28
LWOW	65.42	25.4	10 44	-2				
WARSAW	66.08	22.1	10 52	1	19 39	0		13 9 PP
COPENHAGEN	66.26	15.5			19 39	-2		
HALIFAX	68.81	323.7	11 6	-2				
UPPSALA	71.26	15.8	11 20	-3	20 29	-11		
TIFLIS	71.88	41.8	11 25	-1				
WESTON	72.45	318.6	11 30K	0				
SKALSTUGAN	73.28	11.5	11 32	-3				
PALISADES	73.57	316.4	11 26	-10	21 8	2		26 10 SS
HELSINKI	73.69	18.7	11 38	1				
SHAWINIGAN	75.31	322.0	11 47K	0				
OTTAWA	76.64	320.0	11 53	-1				

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SCORESBY SD.	77.87	357.0	11 57	-4	22 2	8	27 38 SS
KIRUNA	78.65	12.3	12 8	3	22 3	1	
SODANKYLA	79.71	14.5	12 14	3			
APATITY	81.64	16.4	12 28	7			
SOUTH POLE	82.72	180.0	12 29	2			
QUETTA	85.09	58.9	12 38	-1	23 4	-4	28 38 SS
BYRD STATION	85.66	189.7	12 42	0			
NAMANGAN	90.79	48.9	13 8	2			
LUBBOCK	93.00	303.3	13 9	-7			17 56
RESOLUTE	94.86	344.7	13 30	5			30 1 SS
WILKES	96.13	160.1			24 43	-5	
TUCSON	100.43	301.4	12 42	-68			
CAPE HALLETT	100.50	181.0	13 57	7			
BOZEMAN	100.78	315.0	15 13	81			
BOULDER CITY	103.78	305.2	13 37	-28			
HAYFIELD	104.48	302.8	13 14	-54			
EUREKA	104.58	308.8	15 55	106			
BARRETT	105.37	301.8	13 6	777			
RIVERSIDE	105.93	303.2	13 34	777			
CHINA LAKE	106.04	305.1	13 49	777			
TINEMAHA	106.48	306.4	14 5	777			
PASADENA	106.58	303.3	13 35	777			33 50 SS
ISABELLA	106.75	304.9	13 51	777			
WOODY	107.07	305.0	13 53	777			
RENO	107.54	309.1	14 34	777			
FRESNO	107.76	306.2	14 8	777			
KING RANCH	107.81	304.6	13 55	777			
LICK	109.18	306.9	14 22	777			
BERKELEY	109.61	307.5	14 29	777			

AUGUST 9 2.H 29.M 21.S EPICENTRE -2.02 136.74 DEPTH= 0.KM

A=-0.72776 B= 0.68494 C=-0.03501 D= 0.6854 E= 0.7282
G= 0.0255 H=-0.0240 K=-0.9994 HT= 7.2

SE= 2.74

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KOROR	9.56	346.4	2 22	0				
RABAUL	15.56	98.4	3 37	-5	5 43	-53		3 49 PP
GUAM	17.32	27.1	4 4	-1				
TRUK	17.78	57.8	4 12	2	11 55	268		4 29
MANILA	22.71	317.1	5 4	0	8 56	-13		
BAGUIO CITY	24.30	319.5	5 21	1	9 44	7		
BRISBANE	29.74	149.8	6 9	-1	10 59	-7		
DJAKARTA	30.11	261.2	6 19K	6	11 33	21		
TAIPEI	30.67	332.2	6 28	10	11 11	-10		
HONG KONG	32.70	318.9	6 35	-1				
CANTON	33.84	318.8	6 45A	-1	12 9	-1		8 0 PP
RIVERVIEW	34.40	158.5	6 51K	0	12 20	1		14 29 SS
NOUMEA	35.21	127.2	7 1	3	12 33	2		9 26 PCP
SAGA	35.60	350.7	7 8	7				
PERTH	35.70	211.3	7 3	1	12 47	8		8 30 PP
HUKUOKA	35.91	351.0	6 57	-7				12 46
ZO-SE	36.11	337.0	7 5K	-1	12 46	1		8 29 PP
SUMOTO	36.22	357.4	7 12	6				12 47
HIROSIMA	36.42	354.0	7 7	-1				12 28
MELBOURNE	36.43	169.0	7 8K	0	12 53	3		8 1
OSAKA	36.49	358.3	7 17	8	13 0	9		8 53
KAMEYAMA	36.68	359.6	7 8	-2				12 24
KYOTO	36.86	358.6	7 9K	-3	12 53	-4		
MERA	36.86	4.2	7 25	13				
NAGOYA	37.00	0.3	7 27	14				
HIKONE	37.10	359.3	7 13	-1				
GIHU	37.22	0.0	7 12	-3				16 24
YOKOHAMA	37.35	3.9						8 30
TOKYO C.M.O.	37.61	4.0	7 25	7	13 39	31		9 3 PP
TITIBU	37.87	3.1	7 21	1				
NANKING	37.91	334.8	7 22K	1	13 12	-1		8 49 PP
TUKUBASAN	38.17	4.4	7 21A	-2	13 9	-8		17 42 SCS
OIWAKE	38.19	2.4	7 24	1				
MAEBASI	38.28	3.0	7 17	-7				10 40
MATUSIRO	38.40	1.9	7 23A	-2	13 18	-2		8 56 PP
UTUNOMIYA	38.48	4.1	7 25	0	13 20	-2		
NAGANO	38.52	1.9	7 26	0	13 22	0		9 1 PP
HUKUSIMA	39.72	4.6	7 36	0	13 41	1		

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NIIGATA	39.80	2.9	7 42	6			
SENDAI	40.27	5.1	7 38	-2			
MIZUSAWA	41.15	5.2	7 51	4	13 55	-7	
AKITA	41.65	3.9	7 52	0	14 11	2	
KUNMING	42.59	311.4	8 1K	2	14 23	0	9 41 PP
SUVA	43.91	114.2	9 19	69	14 45	3	18 11 SS
MORI	44.05	4.1	8 9	-2			14 44
URAKAWA	44.30	6.4	8 15	2	14 12	-36	
CHENGTU	45.03	318.8	8 19	0	14 58	0	18 11 SS
SAPPORO	45.08	4.8	8 18K	-1	15 0	1	
VLADIVOSTOK	45.14	355.0	8 20	0	15 1	1	
KUSIRO	45.32	7.9	8 19	-2	15 1	-2	
PEKING	45.89	337.9	8 24K	-2	15 10	-1	18 31 SS
ABASHIRI	46.33	7.5	8 32	3			
CHANGCHUN	46.78	348.7	8 33	0	15 23	0	10 6 PCP
LANCHOW	48.77	324.2	8 49K	1	15 53	2	10 44 PP
KARAPIRO	50.40	140.0	9 2	1			
COBB RIVER	50.64	144.9	9 2	-1			
KAIMATA	50.87	147.2	9 15	10			
TONGARIRO	51.15	141.3	9 7	0			
SHILLONG	51.34	305.3	9 8K	0	16 26	-1	
ROXBURGH	51.93	151.3			16 41	6	
TUAI	51.94	140.0	9 13	0			
WELLINGTON	51.95	143.9	9 11	-2	16 31	-5	24 2 SSS
GEBBIES PASS	52.33	147.5	9 19	3			
CALCUTTA	53.12	300.2	8 50	-32	16 59	8	21 5
LHASA	53.81	309.5	9 28K	1	17 3	2	10 28 PCP
CHATRA	55.70	304.6	9 37	-3	17 24	-2	
BOKARO	55.76	300.7	9 41	0	17 26	-1	
COLOMBO	57.44	279.4			17 29	-20	12 4
MADRAS	58.06	286.6			17 55	-2	13 58
HYDERABAD	60.59	291.2	10 15K	0	18 24	-6	13 45 PPP
IRKUTSK	60.61	337.8	10 14	-1	18 30	0	
MAGADAN	62.38	8.0	10 26	-1			
DEHRA DUN	64.43	305.0	10 42	2	19 21	2	23 39 SS
TERRE ADELIE	64.76	178.0	10 39	-3	19 19	-3	
POONA	65.10	291.4	10 44	-1	19 23	-4	
WILKES	66.69	191.3	10 55K	0	19 47	1	
WARSAK DAM	70.79	307.0	11 24	4			
SEMIPALATNSK	70.96	325.6	11 20	-1			
MIRNY	71.27	197.0	11 21	-2	20 39	-1	
FRUNSE	71.37	316.7	11 23	-1			
NAMANGAN	72.78	314.0	11 32	0	20 58	0	
CAPE HALLETT	73.26	169.8	11 34	-1			21 3
QUETTA	73.65	302.1	11 37	0	21 9	2	25 48 SS
TIKSI	73.70	357.4	11 36	-1	21 4	-4	
SCOTT BASE	77.44	173.8	11 58	-1			
COLLEGE	85.66	24.5	12 41	-1	23 0	-14	24 42 PPS
SOUTH POLE	87.99	180.0	12 52K	-1			
BYRD STATION	90.40	170.2	13 3K	-2	24 9	11	16 38 PP
MAKHACH-KALA	90.80	312.8	13 5	-1			
TIFLIS	92.78	311.5	13 14	-1			
APATITY	96.93	337.9					22 5 PP
SODANKYLA	99.51	338.4	13 43	-3			14 16
SHASTA	99.56	49.2	13 47	1			
BERKELEY	99.93	52.1	13 51	3	24 28	-52	
PULKOVO	99.97	330.5	13 41	-7	24 23	-57	
MINERAL	100.19	49.5					18 1 PP
SIMFEROPOL	100.35	315.2					17 5
LICK	100.47	52.5	13 52A	2			18 5 PP
RESOLUTE	101.46	12.3	13 53	-2	24 34	-59	27 7 PS
KIRUNA	101.57	339.7	13 53	-2	25 42	9	18 9 PP
RENO	101.65	50.2	14 2	6			
KING RANCH	102.20	54.4	14 4	6			
HELSINKI	102.45	331.6	14 2	3			
WOODY	102.87	54.0	13 59	-2			29 59 PKKP
ISABELLA	103.19	54.0					30 0 PKKP
TINEMAHA	103.20	52.5	14 0	-3			18 22 PP
PASADENA	103.61	55.5	14 6	2	25 58	7	18 3 PP
KISHINEV	103.64	317.9					18 15 PP
CHINA LAKE	103.87	53.7	14 7	1			29 57 PKKP
HUNGRY HORSE	104.22	40.5					29 56 PKKP
RIVERSIDE	104.29	55.6					18 28 PP
HELWAN	104.36	300.2					18 28 PP
ISTANBUL KA.	104.61	311.9					16 40
BARRETT	105.04	56.8					18 35 PP
BUTTE	105.74	42.6					20 21
HAYFIELD	105.77	55.6	14 14	777			18 27 PP

UPPSALA	106.00	332.7	14 12	777	26 16	2	18 36 PP
WARSAW	107.12	324.6					18 54 PP
LWIRO	107.83	267.0					18 54 PP
KRAKOW	108.50	322.6					18 54 PP
RACIBORZ	109.53	323.1					19 23 PP
TUCSON	109.98	56.4					19 11 PP
SCORESBY SD.	110.24	352.5			25 17	4	19 3 PP
COPENHAGEN	110.35	330.1			25 17	3	19 14 PP
BRATISLAVA	110.91	321.5	18 37	2			19 16
POTSDAM	111.55	326.7					19 20
PRAGUE	111.77	324.1	19 23	46			24 11 PPP
RAPID CITY	112.65	42.5					29 27
JENA	113.03	325.8					19 23 PP
TRIESTE	113.99	319.9	19 29	48	26 22	54	20 41 PP
STUTTGART	115.41	324.5	18 27	-17			22 27 PPP
MESSINA	115.42	311.7					19 51 PP
EBINGEN	115.83	324.0	18 21	-24			
DE BILT	115.88	329.1	19 51	66			29 39 PS
ABERDEEN	116.05	336.5					28 45
ROME	116.31	316.5					19 46 PP
STRASBOURG	116.33	324.8					19 59 PP
LUBBOCK	117.01	53.1	18 49	2			20 1 PP
PAVIA	117.11	321.0					19 58 PP
DURHAM	117.45	334.3	18 49	1	25 46	5	20 5 PP
PARIS	119.16	327.2	15 7	-224			20 18 PP
CLERMONT-FD.	120.50	324.0					20 28 PP
ALGIERS UNI.	125.11	314.8	19 2	-1	27 3	57	20 54 PP
TOLEDO	128.19	321.8	19 4	-5			20 34 PP
OTTAWA	128.24	28.8	19 9	0			
TAMANRASSET	128.41	297.6	19 11	2			21 14 PP
SHAWINIGAN	128.73	25.8	19 10	0			
SEVEN FALLS	129.09	24.0	19 2	-8			
GRANADA	129.46	318.7	19 31A	20	26 50	32	21 26 PP
MALAGA	130.25	318.7			26 6	-14	21 32 PP
WASHINGTON	132.06	35.8	19 13	-3			
PALISADES	132.34	31.5	19 18	2			21 37 PP
PHILADELPHIA	132.42	33.4					22 50 PKS
COLUMBIA	132.52	43.7	19 18	1			28 56 SKKS
WESTON	132.61	28.3	19 17	0			22 44
CHAPEL HILL	132.73	40.3	19 18	1			
HALIFAX	133.93	20.2	19 21	2			
BALBOA HTS.	143.24	77.8	18 37	-59			
BERMUDA	143.70	31.5					21 13
HUANCAYO	145.21	114.5	19 44	4			
CHINCHINA	147.58	83.9	19 45	2			
BOGOTA	149.14	84.4	19 53	7			
LA PAZ	149.31	127.8	19 45K	-1			23 35 PP
MBOUR	151.27	296.7	19 57	8			27 51 PCPPKP
SAN JUAN	152.31	52.5	19 59	8			23 43 PP

AUGUST 10 2.H 18.M 42.S EPICENTRE -21.86-179.51 DEPTH= 590.KM

DEPTH OF FOCUS= 0.088R

A=-0.92893 B=-0.00799 C=-0.37016 D=-0.0086 E= 1.0000
G= 0.3701 H= 0.0032 K=-0.9290 HT= 4.2

SE= 1.78

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
SUVA	4.17	331.9	1 27	0	2 38	3		
APIA	10.88	43.8	2 26	-2	4 19	-7		
NOUMEA	13.03	265.4	2 53	4	5 17	12		3 38 PPP
ONERAHI	14.86	199.8	3 12	5	5 46	9		
KARAPIRO	16.57	193.9	3 21	-2	6 12	5		
TUAI	17.13	188.9			6 12	-5		
TONGARIRO	17.80	192.7	3 34	-1	6 32	4		
WELLINGTON	19.96	192.7	3 48	-7	6 58	-6		
COBB RIVER	20.26	197.2			7 4	-5		
KAIMATA	21.96	198.2	4 12	-1	7 33	-3		
GEBBIES PASS	22.73	194.8			7 44	-5		
BRISBANE	25.55	251.8	4 46K	1	8 34	0		
RIVERVIEW	28.45	238.9	5 10K	0				
RABAUL	32.59	298.5	5 43	-3				
MELBOURNE	34.44	234.4	6 1K	0				

TRUK	40.48	312.9	6 51	1				
GUAM	49.62	311.8	8 0	0				
CAPE HALLETT	50.79	184.0	8 9	0				
TERRE ADELIE	51.29	198.7	8 14	2				
KOROR	53.63	297.6	8 24	-5			10 21	9 24 PCP
SCOTT BASE	56.43	183.5	8 49	0				
BYRD STATION	63.54	170.3	9 36	1				
OASIS-BUNG.	66.09	205.9	9 51	0				
SOUTH POLE	68.27	180.0	10 6A	1			12 10	
MANILA	68.67	296.4	10 8	1				
BAGUIO CITY	69.94	297.9	10 14	0				
MATUSIRO	70.49	324.9	10 17K	-1	18 47	2	12 23	
HONG KONG	78.12	299.9	11 1K	1				
BERKELEY	80.13	42.5	11 11	0				
LICK	80.20	43.2	11 11A	0			13 17	
KING RANCH	80.25	45.8	11 12	1				
PASADENA	80.64	47.5	11 13	0				
BARRETT	80.87	49.5	11 15A	1				
FRESNO	81.05	44.6	11 15	0				
WOODY	81.05	45.9	11 14A	-1			13 21	
RIVERSIDE	81.09	48.0	11 15A	-1			13 15	
ISABELLA	81.29	46.1	11 17A	0			13 23	
SHASTA	81.78	40.2	11 19A	0				
CHINA LAKE	81.96	46.4	11 21A	1			13 26	
MINERAL	82.04	40.8	11 21K	1				
HAYFIELD	82.16	49.1	11 21A	0				
TINEMAHA	82.24	45.1	11 22A	1				
RENO	82.66	42.3	11 25	1				
BOULDER CITY	83.93	47.5	11 31	1				
TUCSON	84.86	52.4	11 35	1			13 43	
EUREKA	85.07	44.1	11 35	0			13 57	
VICTORIA	86.10	33.6	11 40A	0				
HORSESHOE B.	86.71	33.0	11 45	2				
HUNGRY HORSE	91.06	37.4	12 3	0				15 49
BANFF	91.77	34.5	12 5A	-2				
APATITY	129.88	344.2						20 31
SODANKYLA	131.61	346.8	18 6	-1				20 39 SKP
KIRUNA	132.37	349.9	18 8	0				20 42 SKP
TIFLIS	137.99	308.6						20 59
HELSINKI	138.01	342.0	18 9	-10				20 58 SKP
UPPSALA	140.14	346.6	18 15A	-8				
SIMFEROPOL	144.09	317.9	18 21	-10				
LWOW	146.47	332.1	18 37	3				
KSARA	146.68	298.7	18 26	-8			20 49	
HAMBURG	147.52	349.5						21 0
KRAKOW	147.96	336.1	18 45	9				21 12 PKS
JENA	149.71	346.0	18 45	7			21 1	
PRAGUE	149.78	342.0					21 8	19 0 PKP2
PLAUEN	149.98	345.1						21 3
BRATISLAVA	150.56	337.1						21 13
STUTTGART	152.26	347.6					20 54	
STRASBOURG	152.71	349.4					21 8	
EBINGEN	152.87	347.5					20 54	
PARIS	153.06	357.1	18 21	-22			20 42	
MBOUR	161.82	111.2	19 46	52				
TAMANRASSET	175.26	282.1	19 5	3			21 26	30 33 SKKS

AUGUST 10 19.H 12.M 58.S EPICENTRE 3.11 124.26 DEPTH= 374.KM

DEPTH OF FOCUS= 0.054R

A=-0.56206 B= 0.82533 C= 0.05396 D= 0.8265 E= 0.5629
G=-0.0304 H= 0.0446 K=-0.9985 HT= 7.1

SE= 1.72

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KOROR	11.01	67.2	2 29	-2	4 31	1		
MANILA	11.84	344.4	2 41	0	4 56	8		
BAGUIO CITY	13.71	345.0	3 0	-2	5 32	5		
DJAKARTA	19.70	242.1	4 2	-2	7 30	10		
HSINKONG	20.06	352.2	4 8	1	7 33	6		
HONG KONG	21.44	333.7	4 21	1	7 57	7	5 14	5 54 *SP
CANTON	22.52	332.8	4 32	1	8 13	5		
GUAM	22.72	61.9	4 33	1	8 16	5	5 20	15 3 SCS
TRUK	27.81	79.9	5 20	2			5 29	11 35 SCP

ZO-SE	27.99	354.4			9 39	3		
RABAUL	28.83	104.4	5 28A	1				
NANKING	29.24	350.5			10 1	5		
KUNMING	30.12	318.3	5 40K	1	10 11	1		
ABUYAMA	33.30	17.1	5 51	-15				
CHENGTU	33.42	327.2	6 8	1	11 1	0		
KYOTO	33.49	17.2	5 51	-16				
SIAN	34.11	337.0			11 14	3		
MATUSIRO	35.68	19.5	6 25A	-1	11 35	0	7 34	16 7 SCS
TOCKLAI	36.74	312.6	6 41A	6				
LANCHOW	37.85	332.6	6 45K	1	12 10	2		
SHILLONG	38.30	308.7	6 47A	-1				
LHASA	41.08	313.5	7 12K	2	13 1	6		
BRISBANE	41.16	139.5	7 11	0	12 56	0		
CHATRA	42.61	307.3	7 20	-2	13 18	1		
RIVERVIEW	44.65	147.6	7 40A	1	13 58	12		9 30 PP
MADRAS	44.66	285.3	7 39K	0				9 35
MELBOURNE	45.04	156.7	7 43A	1				
Y.-SAKHLINSK	46.51	17.4			14 15	2		17 10 SCS
ULAN-BATOR	47.08	344.1			14 40	20		
DEHRA DUN	51.34	306.9	8 31	1	15 21	2		
POONA	51.62	291.1	8 32	0				
IRKUTSK	51.73	344.5	8 33K	0	15 28	4	9 41	11 57 PPP
LAHORE	54.77	306.9	8 54K	0	16 7	2	10 9	9 17
WARSAK DAM	57.81	308.7	9 17	1	16 51	7		
FRUNSE	59.23	319.3	9 25K	0			10 36	
KARACHI	59.29	298.2	9 22	-4			10 42	
QUETTA	60.39	303.1	9 33K	0	17 19	2		18 47 *SS
TASHKENT	62.15	315.8	9 44	-1	17 42	3		19 4 SCS
TIKSI	68.48	1.6					11 40	21 5 *SS
ASHKABAD	69.19	309.5	10 30K	1	19 8	4		19 56 SCS
TERRE ADELIE	70.84	172.9	10 36	-3	19 19	-4		
MIRNY	73.01	192.5	10 52	0				
SVERDLOVSK	73.21	329.0	10 52	-1	19 48	-1		
TANANARIVE	78.46	250.1	11 22A	0			12 40	
GORIS	78.71	309.5	11 24	1	20 52	4		
TIFLIS	80.06	311.7	11 31	1	21 6	4		
SCOTT BASE	84.07	171.7	11 53	2				
COLLEGE	86.32	25.3	12 1	-1				13 19
KSARA	86.94	303.6	12 7	2			13 22	15 38 PP
APATITY	87.46	337.4	12 5	-2				24 27
SODANKYLA	90.09	337.4	12 19	0				
HELWAN	91.00	299.8	12 24	0				
ISTANBUL KA.	91.89	311.1	12 26	-2				
HELSINKI	91.94	330.4	12 26	-2				
KIRUNA	92.33	338.4	12 29	-1				25 15 *SS
SOUTH POLE	93.09	180.0	12 35	2				22 37 SP
UPPSALA	95.60	330.9	12 42	-3				
PRETORIA	96.81	244.6	12 47K	-3				
SKALSTUGAN	96.83	335.3	12 50A	0				
TRIESTE	101.94	317.8	12 24	-49	22 24	-115		31 14 SS
STUTTGART	103.85	321.9	17 38	256				
EBINGEN	104.20	321.4	17 50	267				
PARIS	107.88	323.8	13 42	777				
HUNGRY HORSE	108.06	36.6	20 45	777				
WOODY	109.64	50.4	17 50	777				
EUREKA	110.46	45.8	17 52	4				
TAMANRASSET	114.98	296.8	17 58	1				18 59 PP
SHAWINIGAN	128.31	14.9	18 25A	2				
OTTAWA	128.53	17.9	18 28	5				21 4 SKP
HALIFAX	131.96	7.5	18 34	4				21 27 SKP
WESTON	132.57	15.7						21 28 PP

AUGUST 11 5.H 12.M 41.S EPICENTRE -39.01 176.82 DEPTH= 0.KM

A=-0.77792 B= 0.04318 C=-0.62688 D= 0.0554 E= 0.9985
G= 0.6259 H=-0.0347 K=-0.7791 HT= -1.3

SE= 3.21

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
TUAI	0.33	50.7	0 31	19				
TONGARIRO	1.02	258.9	0 27	5				
KARAPIRO	1.49	316.6	0 34	6	0 49	0		
NEW PLYMOUTH	2.14	267.5	0 39	1	0 59	-6		

AUCKLAND	2.67	322.5	0 49	4	1 15	-4		
WELLINGTON	2.76	214.1	0 49	3	1 19	-2		
COBB RIVER	3.76	235.4	0 59	-2	1 39	-8		
ONERAHI	3.78	328.1	1 6	5	2 6	19		
KAIMATA	5.40	227.8	1 23	-1	2 17	-11		
GEBBIES PASS	5.64	212.5	1 25	-2	2 22	-12		
ROXBURGH	8.57	217.9	2 27	19	3 29	-18		3 53
NOUMEA	18.87	329.0	4 24	0	8 1	9		4 44 PP
MACQUARIE I.	19.66	212.2	4 34	1				
RIVERVIEW	21.27	276.1	4 47K	-3	8 36	-6	4 57	5 8 PP
BRISBANE	22.91	293.0	5 5K	-2	9 6	-7		
MELBOURNE	24.92	262.6	5 22K	-4				5 54
CAPE HALLETT	33.53	183.6	6 45	2				
TERRE ADELIE	34.21	204.1	6 50	1	12 11	-5		
SCOTT BASE	39.18	183.4	7 34	3				
RABAUL	41.25	320.9	7 44	-4				
BYRD STATION	47.35	167.7	8 40	2				9 48
OASIS-BUNG.	49.54	211.2	8 51	-4	15 47	-15		
SOUTH POLE	51.18	180.0	9 18	11				18 43 SCS
TRUK	51.73	327.8	9 8	-3				
MIRNY	52.55	210.1	9 14A	-3	16 33	-11		
GUAM	60.19	323.5	10 7	-5				
MANILA	74.53	303.8	11 38	-4				
BAGUIO CITY	76.15	304.7	11 49	-3	21 37	2		
MATUSIRO	83.19	329.6	12 25A	-4	22 32	-17		28 5 SS
BARRETT	94.30	50.9	13 24A	1				
PASADENA	94.43	48.9	13 23	0	23 47	-46		
RIVERSIDE	94.79	49.5	13 27A	2				17 10 PP
WOODY	95.13	47.4	13 26A	0				17 7 PP
ISABELLA	95.32	47.7	13 27A	0				17 19 PP
HAYFIELD	95.64	50.7	13 30A	1				17 16 PP
CHINA LAKE	95.94	48.1	13 31	1				17 15 PP
TINEMAHA	96.44	46.8						17 28 PP
TUCSON	97.63	54.6	13 40	2				17 39 PP
EUREKA	99.40	46.3	13 46	0				16 42
LUBBOCK	104.30	58.4						18 29 PP
BOULDER	106.02	51.4	18 41	777				
BOZEMAN	106.22	44.0						18 35 PP
HUNGRY HORSE	106.38	40.5						18 26 PP
RAPID CITY	109.69	48.9						19 9 PP
FAYETTEVILLE	110.88	60.1	18 59	24				
NAMANGAN	124.31	297.8						19 34
PALISADES	127.18	63.7	19 4	-3				21 25 PP
OTTAWA	127.56	58.0	19 6A	-1			19 31	21 11 PP
WESTON	129.49	63.0	19 33A	22				
LWIRO	129.49	223.3						23 10
SHAWINIGAN	129.88	57.4	19 9	-3				21 25 PP
BERMUDA	130.44	77.7						14 39
HALIFAX	135.52	62.4	19 24	2				
TIFLIS	143.71	290.0	19 32	-5				
APATITY	144.99	336.5	19 34	-5				
SODANKYLA	147.10	339.3	19 40	-3				
KIRUNA	148.31	343.2	19 44A	-1				
HELWAN	150.26	262.7	19 50	-2				20 35
HELSINKI	152.42	329.4	19 56	5				
SKALSTUGAN	153.71	344.4	19 57K	4				
UPPSALA	155.34	334.5	20 16K	21				
TAMANRASSET	162.20	207.2	20 3	0				24 52 PP
HAMBURG	162.88	332.5	20 50	46				
JENA	164.19	323.7	20 55	50				
RATHFARNHAM	165.55	7.5						41 1
TRIESTE	165.84	303.4	20 5	-2				24 45

AUGUST 11 21.H 38.M 9.S EPICENTRE -17.90 169.03 DEPTH= 17.KM

A=-0.93482 B= 0.18117 C=-0.30545 D= 0.1903 E= 0.9817
G= 0.2999 H=-0.0581 K=-0.9522 HT= 5.2

SE= 3.20

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
NOUMEA	5.01	208.6	1 13A	-3	2 19	5		1 49 PG
SUVA	8.95	93.1	2 14	3	3 46	-6		2 38 PP
RAOUL ISLAND	16.44	135.8	3 48	-3				
BRISBANE	17.56	234.3	4 5A	0	7 26	8		

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ONERAHI	18.42	166.1	4 22	6	7 48	10		
APIA	18.90	80.3	5 1	39				10 21
KARAPIRO	20.74	165.4	4 39	-3				9 39
RABAUL	21.40	307.5	4 46	-2				6 9
TONGARIRO	21.97	166.4	4 50	-4				
RIVERVIEW	22.54	221.8	5 0A	0	9 4	3	5 9	5 34 PP
COBB RIVER	23.32	172.9	5 14	6				
WELLINGTON	23.82	169.2	5 14A	2	8 28	-56		5 35
KAIMATA	24.63	175.8	5 25	5				
ROXBURGH	27.57	179.5			9 56	-30		
MELBOURNE	28.95	221.8	5 58	-2	10 56	8	6 6	6 58 PP
TRUK	30.38	324.6	6 11	-2				6 39
GUAM	39.31	320.8	7 26	-3	13 28	-1		9 0 PP
KOROR	42.34	303.3	7 54	0				
PERTH	49.78	243.1	9 0	7	16 15	15		19 43 SS
HONOLULU	50.54	41.0	8 54	-5				
HAWAII V.OB.	51.04	45.1	9 1	-2	16 28	11		
TERRE ADELIE	52.09	193.5	9 8	-3	16 32	0		
MANILA	57.33	301.2	9 51	2				
BAGUIO CITY	58.65	302.7	9 59	1	18 3	4		
SCOTT BASE	60.00	180.6	10 4	-3	18 22	5		
TUKUBASAN	60.38	333.3	10 13	3				12 26 PP
WILKES	61.25	203.2	10 22	6	18 33	0		
KYOTO	61.40	329.1	10 16A	-1				
MATUSIRO	61.48	332.0	10 14	-3	18 40	4		12 20 PP
DJAKARTA	61.69	272.6	10 20K	1	18 44	6		
OASIS-BUNG.	65.03	204.6	10 38	-3	19 24	5		
ZO-SE	66.98	316.3	10 54	1	19 47	3		
MIRNY	68.17	204.7	10 58	-3	19 59	1		
NANKING	69.15	315.7	11 7	0	20 13	3		
BYRD STATION	69.29	169.8	11 3	-5	20 12	1		13 33 PP
VLADIVOSTOK	69.65	331.9	11 11	1				
PETROPAVLOVK	71.30	353.4	11 25	5	20 33	-2		
SOUTH POLE	72.21	180.0	11 21	-4				
CHANGCHUN	73.31	328.5	11 30	-2				
PEKING	75.77	320.8	11 46	0				
CHENGTU	78.96	307.3	12 2	-2	22 3	3		
LANCHOW	81.70	312.0	12 20	2	22 35	7		
UKIAH	84.92	46.3	12 34	-1				
SANTA CLARA	85.00	48.3						24 6
BERKELEY	85.01	47.7	12 33	-2	23 8	7		28 39 SS
LICK	85.21	48.4	12 35K	-1				
KING RANCH	85.72	50.9	12 30	-9				
ULAN-BATOR	85.79	323.4	12 37	-2	23 3	-6		
SHASTA	86.22	45.2	12 39K	-2				
FRESNO	86.29	49.6	12 40K	-1				13 59
PASADENA	86.40	52.5	12 39	-3	23 23	8		29 12 SS
WOODY	86.52	50.9	12 39	-4				12 47
SHILLONG	86.56	298.1	12 43	0				
MINERAL	86.59	45.8	12 42	-1				
ISABELLA	86.79	51.1	12 42A	-2				
RIVERSIDE	86.93	53.0	12 51A	6	23 36	16		
BARRETT	86.95	54.4	12 46	1	23 23	3		
CORVALLIS	87.43	41.4	12 45	-2				
RENO	87.47	47.1	12 46K	-1				
CHINA LAKE	87.50	51.2	12 45A	-2				
TINEMAHA	87.55	49.9	12 46	-2	23 43	17		
HAYFIELD	88.16	53.8	12 50	0				
LHASA	88.73	301.6	12 59	6				
COLLEGE	88.83	17.0	12 49	-5	23 40	2		23 28 SKS
VICTORIA	89.22	37.9	12 57	1	23 32	-9		
SEATTLE	89.48	39.0	12 56	-1	23 39	-5		
IRKUTSK	89.48	326.2	12 57	0				
BOULDER CITY	89.63	52.0	12 58	1	24 1	16		
HORSESHOE B.	89.71	37.2	13 0	2	23 32	-14		
EUREKA	90.15	48.4	12 58	-2				
LILLOOET	91.10	36.4	13 15	11				
COLOMBO	91.30	276.8			23 40	-20		
TUCSON	91.38	56.6	13 9	3				16 37 PP
SALT LAKE C.	93.56	48.4	13 18	2				
HUNGRY HORSE	94.82	40.7	13 23	2				
BUTTE	94.91	43.2	13 21	-1	24 32	1		17 24 PP
BANFF	94.96	37.7	13 29	7				
BOZEMAN	95.79	43.9	13 28	2				
BOULDER	98.07	50.7						17 37 PP
LUBBOCK	98.97	57.7						17 38 PP
DEHRA DUN	99.64	298.7						24 26
RAPID CITY	100.66	47.1	13 55	7				

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BOMBAY	101.30	286.3					24 32
SEMIPALATNSK	102.81	319.0					18 7 PP
FAYETTEVILLE	105.67	56.7	18 27	777			
NAMANGAN	106.97	308.3					17 15
RESOLUTE	108.74	16.2			24 52	-14	27 43 PS
QUETTA	108.99	296.4	18 33	777	25 13	6	
FLORISSANT	109.11	54.4			26 42	77	18 52 PP
ST. LOUIS 1	109.20	54.6					18 58 PP
LA PAZ	114.15	117.9	17 10	-88			19 33 PP
SVERDLOVSK	114.86	324.9	18 38	-1			
OTTAWA	120.19	47.5	18 47	-2	21 55	-229	20 17 PP
PHILADELPHIA	120.93	53.8			27 29	102	20 31 PP
PALISADES	121.83	52.5					20 22 PP
SHAWINIGAN	122.11	45.9	18 50	-3			
KIMBERLEY	122.17	217.3					18 53
APATITY	122.91	341.3	18 52	-3			24 21
SODANKYLA	125.00	343.2	18 59	0			
KIRUNA	126.23	345.8	18 59	-2			26 53
SCORESBY SD.	127.01	4.6	19 2	-1			38 7 SS
TIFLIS	127.12	309.1	19 6	3			
PULKOVO	128.72	334.7	19 12	6			
HALIFAX	128.80	46.7	19 10	4			
BERMUDA	129.77	62.5					21 35 PP
SOTCHI	130.41	312.4	19 13	4			
SKALSTUGAN	131.65	346.3	19 11	-1			
REYKJAVIK	133.21	6.6	19 18	4			
UPPSALA	133.29	340.6	19 16	1			22 45 PKS
SIMFEROPOL	133.82	315.8	19 15	-1			
KSARA	135.35	300.2	19 24	6			22 8 PP
KISHINEV	136.33	320.6	19 18	-2			
IASI	137.00	321.5	19 31	10			22 56
WARSAW	137.53	331.1	19 27A	5	26 46	17	23 5 PKS
LWOW	137.56	326.6	19 25	3			
ISTANBUL KA.	138.69	312.5	19 22	-3			22 8 PP
BUCHAREST	139.24	318.6	19 33	7			25 23
KRAKOW	139.49	329.4	19 34	8			22 29 PP
HELWAN	139.74	295.2	19 30	4			22 36
RACIBORZ	140.29	330.6	19 31	4			22 19
POTSDAM	140.75	336.8	19 37	9			
HAMBURG	140.86	340.3	19 34	5			20 6
SOFIA	141.84	317.8	19 31	1			22 37 PP
HALLE	141.87	336.8	19 26	-4			22 14
PRAGUE	141.99	333.3	19 38	8			23 19 PKS
BRATISLAVA	142.13	329.1	19 35	4			23 13 PP
BELGRADE	142.46	322.5	19 35K	4			22 39
JENA	142.47	336.5	19 30	-1			22 23 PP
DURHAM	142.50	351.1	19 23A	-8			
PLAUEN	142.59	335.6	19 33	2			20 4
CHEB	142.83	335.0	19 32	0			23 19 PKS
BENSBERG	143.99	340.4	19 35	1			
RATHFARNHAM	144.48	355.2	19 43K	8			19 51 PKP2
STUTTGART	145.12	336.5	19 34K	-2			23 2 PKS
KARLSRUHE	145.22	337.5	19 36K	0			23 3 PP
TUBINGEN	145.37	336.4	19 36	0			
KEW	145.45	348.2	19 39	3			23 14 PKS
TRIESTE	145.53	328.8	19 36K	-1	26 39	-2	23 6 PP
EBINGEN	145.70	336.1	19 37	0			
STRASBOURG	145.81	337.7	19 39A	2			23 35 PP
ZURICH	146.51	335.7	19 40	2			
CHUR	146.54	334.2	19 38	0			
PARIS	147.29	343.5	19 43	3			42 29 SS
NEUCHATEL	147.44	337.0	19 42	2			
BOLOGNA	147.54	329.6	19 51	11			21 52
PAVIA	148.02	332.6	19 47	6			20 46
FLORENCE X.	148.11	328.8	19 42A	1			23 30 PP
PRATO	148.11	329.0	19 37	-4	28 30	105	
OROPA	148.18	334.4	19 40	-1			24 21
ROME	148.80	325.0	19 46	4			19 53 PKP2
REGGIO CALA.	149.24	316.3	19 48	5			20 48
MESSINA	149.25	316.5	19 49	6			24 12 PP
CLERMONT-FD.	149.84	340.2	19 51	7			20 2 PKP2
MONACO	149.93	332.8	19 50	6			
TOLEDO	157.29	346.1	19 57	3			23 57 PP
ALGIERS UNI.	157.50	329.5	19 51	-3			24 11 PP
ALICANTE	157.66	337.9	19 54	0	26 59	3	24 8 PP
RELIZANE	159.49	332.4	19 57	0			24 20 PP
GRANADA	159.73	342.8	20 10A	13	26 44	-14	24 29 PP
MALAGA	160.37	344.1	20 5A	7	26 57	-2	24 31 PP

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TAMANRASSET	163.80	290.2	20 2	1				24 49 PP
MBOUR	173.26	120.4	20 8	1	27 20	14		25 31 PP

AUGUST 12 11.H 19.M 24.S EPICENTRE 33.02 140.09 DEPTH= 126.KM

DEPTH OF FOCUS= 0.015R

A=-0.64449 B= 0.53904 C= 0.54228 D= 0.6416 E= 0.7671
G=-0.4160 H= 0.3479 K=-0.8402 HT= 0.8

SE= 3.09

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
HATIDYOZIMA	0.24	291.2	0 12	-7	0 22	-11		
OSIMA	1.85	341.5	0 32	-1	0 57	0		0 46
MERA	1.91	353.5	0 33K	0	0 56	-3		
AJIRO	2.19	338.2	0 35	-2	1 4	-1		
OMAESAKI	2.22	315.9	0 37K	0	1 7	2		
MISIMA	2.30	336.0	0 38K	0	1 8	1		
SHIZUOKA	2.40	324.7	0 41K	1	1 13	3		1 35
YOKOHAMA	2.44	351.5	0 41	1	1 16	6		0 59
TORISIMA	2.53	175.9	0 38	-3	1 6	-7		
HAMAMATU	2.60	311.4	0 43	1	1 15	1		
TOKYO C.M.O.	2.67	354.0	0 44K	1	1 16	0		0 54
HUNATU	2.71	336.5	0 45	1	1 20	3		
TYOSI	2.77	12.9	0 46	1	1 21	3		
KOHU	2.90	334.7	0 47K	1	1 23	2		
TITIBU	3.07	344.5	0 49	0	1 26	1		
IIDA	3.12	323.8	0 50	1	1 31	5		
KUMAGAYA	3.18	349.6	0 50	0	1 28	0		
TUKUBASAN	3.20	0.1	0 49A	-1				
KAKIOKA	3.21	1.3	0 50	0	1 20	-9		
NAGOYA	3.37	310.5	0 52	0	1 33	1		
MITO	3.37	5.2	0 55	3	1 32	0		
OWASE	3.42	289.0	1 0	7	1 38	5		
TU	3.43	300.9	0 51	-2	1 29	-5		
MAEBASI	3.48	346.3	0 53K	-1	1 37	2		1 21
KAMEYAMA	3.52	302.3	0 53	-2	1 35	-1		
UTUNOMIYA	3.53	357.1	0 53	-2	1 32	-4		1 6
OIWAKE	3.54	339.4	0 58K	3	1 39	2		
GIHU	3.64	311.8	0 56K	0	1 38	-1		1 59
SIOMISAKI	3.65	278.0	0 53	-3	1 35	-4		
MATUMOTO	3.67	332.1	0 57	1	1 43	3		
MATUSIRO	3.85	336.9	0 58K	-1	1 44	0		2 56
IBUKISAN	3.88	308.5	1 0	1	1 46	2		
HIKONE	3.90	306.3	0 59K	-1	1 44	-1		
TAKAYAMA	3.91	323.9	1 0	0				
NARA	3.92	296.3	0 59	-1	1 43	-2		
NAGANO	3.96	337.4	1 1	1	1 52	5		
ONAHAMA	3.98	9.4	0 58	-3	1 42	-5		1 16
SHIRAKAWA	4.10	1.4	1 1	-1	1 47	-3		
OSAKA	4.13	294.5	1 1	-2	1 48	-3		
KYOTO	4.14	300.1	1 2K	-1	1 49	-2		
WAKAYAMA	4.28	287.8	1 3	-2				
TAKADA	4.35	340.2	1 10	4				
HUKUI	4.37	314.9	1 6	0	2 0	4		
TOYAMA	4.38	327.9	1 8	2	1 58	1		
KOBE	4.41	293.5	1 6	0	1 57	0		1 16
KANAZAWA	4.51	322.0	1 10	2				
SUMOTO	4.54	288.5	1 6K	-2	1 57	-4		
TOKUSIMA	4.72	284.4	1 10	-1	2 0	-5		
HUKUSIMA	4.73	3.6	1 9	-2	2 2	-3		
HIMEJI	4.97	288.9	1 11	-3	2 8	-3		
NIIGATA	4.97	350.4	1 36	22	2 12	1		
TOYOOKA	5.03	301.3	1 14	-1	2 7	-5		
WAZIMA	5.08	329.9	1 17	2				
TAKAMATU	5.20	286.1	2 14	57	3 14	58		
AIKAWA	5.21	343.8	1 18	1				
YAMAGATA	5.23	2.2	1 17	0	2 14	-3		
SENDAI	5.28	6.9	1 15	-3	2 13	-5		1 34
TOTTORI	5.45	298.7	1 25	5	2 26	4		
KOTI	5.52	277.3	1 19	-2	2 19	-5		2 53
SAKATA	5.88	358.0	1 34	8				
MIZUSAWA	6.16	7.5	1 30	0	2 34	-6		
MATUYAMA	6.19	279.5	1 27	-3	2 34	-6		
MATSUE	6.30	294.6	1 30	-2	2 43	0		

AKITA	6.69	0.1	1 46	9	2 49	-3		
MORIOKA	6.73	7.1	1 34	-4	2 46	-7		
MIYAKO	6.79	12.4	1 36	-3	2 55	0		
HAMADA	6.93	288.0	1 40	0	2 53	-5		
OOITA	7.11	274.0	1 51	8	3 0	-3		
HATINOHE	7.59	8.3			3 8	-6		
AOMORI	7.81	3.8			3 18	-2		
HAKODATE	8.76	3.1			3 44	1		
MORI	9.08	2.3			3 41	-9		
URAKAWA	9.36	12.4	2 16	3	3 44	-13		
TOMAKOMAI	9.56	6.6			3 57	-5		
SAPPORO	10.09	5.3			4 5	-9		
OBIHIRO	10.19	13.0	2 24	0				
KUSIRO	10.51	17.6	2 31	3	4 16	-8		
NEMURO	11.16	21.1			4 28	-12		
GUAM	19.92	166.6	4 23	-1	8 2	6	4 52	4 42
BAGUIO CITY	24.16	231.6	5 27	21				
ULAN-BATOR	29.05	310.7	5 48	-2				
IRKUTSK	32.14	317.5	6 15	-3				
TIKSI	39.14	354.4	7 15	-2				
COLLEGE	53.08	30.5	9 5	-2				
QUETTA	61.17	288.9	10 0	-4				
APATITY	65.91	336.2	10 32	-3				
RESOLUTE	66.76	13.7	10 37A	-3				20 32 SS
SODANKYLA	68.25	337.5	10 46	-3				
HORSESHOE B.	69.69	43.8	10 54	-4				
KIRUNA	69.89	339.4	10 57	-2				
VICTORIA	70.01	44.7	11 0A	0				
SEATTLE	71.08	45.1	11 9A	3				
CORVALLIS	71.93	48.3	11 12A	1				
BANFF	73.14	39.6	11 27A	8				
MINERAL	75.11	51.5	11 29A	-1				
HUNGRY HORSE	75.48	41.5	11 32	0				
BERKELEY	75.94	54.0	11 34A	-1				
UPPSALA	76.09	334.0	11 33	-2				
LICK	76.63	54.2	11 38A	0				
RENO	76.71	51.5	11 39A	0				
BUTTE	77.62	42.9	11 44	0				
FRESNO	78.18	53.9	11 46A	-1				
BOZEMAN	78.69	42.6	11 51	1				
KING RANCH	78.99	55.1	11 51A	0				
TINEMAHA	79.09	52.9	11 52A	0				
EUREKA	79.24	49.9	11 53	0				12 13
WOODY	79.40	54.4	11 52A	-2				
ISABELLA	79.69	54.2	11 55A	0				
CHINA LAKE	80.19	53.7	11 57A	-1				
PASADENA	80.72	55.4	12 0A	-1				
SALT LAKE C.	81.09	47.0	12 4	1				
RIVERSIDE	81.35	55.1	12 8A	4				
BOULDER CITY	81.96	52.3	12 7	0				
BARRETT	82.58	55.9	12 10A	0				
HAYFIELD	82.71	54.5	12 11A	0				
RAPID CITY	84.04	40.3	12 17	-1				
LARAMIE	84.50	43.6	12 20	0				
JENA	84.91	330.2	12 20	-2				
BOULDER	85.48	44.4	12 26	1				
TUCSON	86.83	53.3	12 31	0				15 56 PP
RATHFARNHAM	89.21	340.6	12 25	-18				
FAYETTEVILLE	94.55	41.3	13 6A	-1				
TERRE ADELIE	99.52	179.5						20 51
TAMANRASSET	109.60	315.7						19 3 PP
HUANCAYO	141.47	65.5	19 11	-5				
LA PAZ	149.69	64.0	19 36	6				

AUGUST 13 12.H 0.M 6.S EPICENTRE 60.97-147.53 DEPTH= 36.KM

DEPTH OF FOCUS= 0.000R

A=-0.41146 B=-0.26185 C= 0.87300 D=-0.5369 E= 0.8437
G=-0.7365 H=-0.4687 K=-0.4877 HT= -9.2

SE= 1.76

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
COLLEGE	3.91	358.2	1 1	2	1 45	0		

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SITKA	7.43	116.6	1 43	-6	2 59	-14		2 24
VICTORIA	18.54	121.4	4 15	-1	7 47	9		
SEATTLE	19.69	121.2	4 29	0	8 15	11		10 7
BANFF	20.17	104.7	4 33	-1				
CORVALLIS	21.80	127.8	4 51	0	8 58	13		
HUNGRY HORSE	22.83	108.4	5 1	0				
RESOLUTE	23.03	32.7	5 5	2	9 14	7		
SASKATOON	23.84	93.2	5 13	2	9 26	5		
BUTTE	25.22	110.4	5 24	0	9 49	4		6 41
SHASTA	25.48	131.3	5 26	-1				
MINERAL	26.07	130.5	5 31	-1				
BOZEMAN	26.18	109.1	4 58	-35				5 50
RENO	27.45	128.7	5 45	0				
BERKELEY	28.03	134.0	5 48	-2				
LICK	28.72	133.6	5 55	-1				
EUREKA	29.02	123.4	5 58	-1				9 5 PCP
MAGADAN	29.64	295.0						13 27
SALT LAKE C.	29.68	116.6	6 6	1				
FRESNO	29.89	131.4	6 7	0				
TINEMAHA	30.22	128.9	6 10	0				
RAPID CITY	31.06	102.5	6 16	-1				
ISABELLA	31.37	130.5	6 19K	-1				9 11 PCP
CHINA LAKE	31.55	129.2	6 21K	0				9 12 PCP
LARAMIE	32.07	108.5	6 44	18				
TIKSI	32.31	323.9	4 37	-111				
BOULDER CITY	32.49	125.3	6 29	-1				
PASADENA	32.82	131.4	6 31	-1	11 54	8		6 54
BOULDER	33.22	109.6	6 36	0				
RIVERSIDE	33.26	130.5	6 40	4				
HAYFIELD	34.17	128.3	6 43	-1				
BARRETT	34.69	130.5	6 48	-1				
TUCSON	37.35	123.4	7 11	0				
LUBBOCK	40.09	112.0	7 34	0				
KIPAPA	40.20	195.2	7 33	-2				
FAYETTEVILLE	41.59	101.8	7 45K	-1				
SCORESBY SD.	43.38	23.5	8 1	0	14 26	0		
OTTAWA	43.38	77.0	7 59K	-2				
SHAWINIGAN	43.93	73.7	8 3K	-2			8 31	9 49 PP
BREBEUF	44.30	75.4	8 6	-2				
PALISADES	47.56	79.7	8 32	-2	15 26	0		19 14 SS
WESTON	47.75	76.5	8 34A	-2				
REYKJAVIK	48.71	28.3	8 43	0				
KIRUNA	51.20	5.8	9 1	-1	16 17	1		
MATUSIRO	51.38	277.2	9 2A	-1	16 19	0		
APATITY	51.78	359.5	9 5	-1				
SODANKYLA	51.89	2.9	9 5	-2				
SKALSTUGAN	54.83	10.9	9 28	-1				
ULAN-BATOR	56.09	308.7	9 42	4				
UPPSALA	58.96	8.7	9 57	-1				
HELSINKI	59.05	4.4	9 59	0				
SVERDLOVSK	60.47	342.7	10 9	0				
RATHFARNHAM	61.97	25.2	10 18	-1				
JENA	67.19	14.2	10 51	-2				
PARIS	67.93	20.9	10 58	1				13 8
STRASBOURG	68.99	17.3	11 22	18				
STUTTGART	69.01	16.3	11 4	0				11 15 PCP
EBINGEN	69.56	16.5	11 7	0				11 19 PCP
NAMANGAN	73.49	330.1	11 30	-1				
TIFLIS	77.17	350.6	12 3	11				
SHILLONG	81.34	308.2	12 16	1				
QUETTA	84.92	330.5	12 32	-1	22 56	-1		
HELWAN	89.48	1.0	12 55	0				
HUANCAYO	92.02	111.3	13 6	-1				
CAPE HALLETT	136.10	197.2	18 49	-29				22 59 PKS
BYRD STATION	141.67	172.4	19 23	-5				
PRETORIA	144.67	6.7	19 34	1				
KIMBERLEY	147.37	12.6	19 40K	2				
PIETERMZBURG	148.61	3.5	19 44	4				
OASIS-BUNG.	150.59	230.2	19 47	4				
SOUTH POLE	150.81	180.0	19 39	-4				

AUGUST 14 18.H 26.M 54.S EPICENTRE -21.05-176.36 DEPTH= 187.KM

DEPTH OF FOCUS= 0.024R

A=-0.93221 B=-0.05932 C=-0.35703 D=-0.0635 E= 0.9980

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

G= 0.3563 H= 0.0227 K=-0.9341 HT= 4.4

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
SUVA	5.70	299.5	1 27	3	2 37	7		
RAOUL ISLAND	8.29	189.5	1 57	-1	3 30	-1		2 57
APIA	8.43	32.0	1 52	-8	3 14	-20		
NOUMEA	16.03	262.4	3 38K	1				8 46 PCP
ONERAHI	16.77	207.0	3 46	0				
KARAPIRO	18.22	200.9	4 2	0	7 18	2		
TONGARIRO	19.39	199.3	4 12	-2	7 36	-2		
WELLINGTON	21.53	198.5	4 37	2	8 13	-4		15 34 SCS
COBB RIVER	22.01	202.4	4 40	0	8 24	-2		
KAIMATA	23.75	202.9	4 58	1	8 56	1		
GEBBIES PASS	24.38	199.6	5 4	1	7 23	-103		
BRISBANE	28.58	251.0	5 41K	0			6 23	
RIVERVIEW	31.38	239.2	6 6A	0				
RABAUL	34.86	294.4	6 28	-8				9 4 PCP
MELBOURNE	37.29	234.7	7 50K	54				
GUAM	51.34	308.5	8 46	-2			9 39	
CAPE HALLETT	51.83	185.2	8 51A	0	15 15	-43	9 38	
TERRE ADELIE	53.01	199.5	8 38	-22				
KOROR	55.90	295.0	9 18	-3				
SCOTT BASE	57.43	184.2	9 32	0				
BYRD STATION	63.85	170.6	10 13	-2				12 39 PP
OASIS-BUNG.	68.09	205.8	10 42	0				
SOUTH POLE	69.08	180.0	10 47A	-1			11 35	
MIRNY	71.15	205.0	11 1	0				
MATUSIRO	71.56	322.8	10 51K	-12	20 2	-3	11 45	20 42
PASADENA	77.95	46.1	11 38	-1			12 27	12 42 *SP
PALOMAR	78.38	47.4	11 42	0			12 32	
RIVERSIDE	78.39	46.6	11 44	2			12 35	
WOODY	78.40	44.5	11 42A	0			12 35	
FRESNO	78.43	43.2	11 42	0				
ISABELLA	78.63	44.7	11 43A	0			12 34	12 47 *SP
SHASTA	79.29	38.7	11 46	-1			12 38	
CHINA LAKE	79.30	45.0	11 47A	0			12 36	12 53 *SP
HAYFIELD	79.43	47.7	11 47	0			12 37	
TINEMAHA	79.61	43.7	11 49	1			12 42	
BOULDER CITY	81.24	46.2	11 57	0				
TUCSON	82.05	51.1	12 2	1			12 55	
EUREKA	82.47	42.7	12 2	-1			12 55	
SALT LAKE C.	85.81	43.4					13 12	
BUTTE	88.20	38.7	12 40	9			13 22	
HUNGRY HORSE	88.66	36.2	12 33	-1			13 24	
BOULDER	89.77	46.6	13 30	51				
LAHORE	116.72	295.6	18 20	-2				
NAMANGAN	119.86	305.9	18 28	0				
QUETTA	122.81	293.0	18 35K	1				20 18 PP
SVERDLOVSK	125.31	325.6	18 38	-1				
SODANKYLA	131.45	348.4	18 55	4				21 57 SKP
KIRUNA	132.05	351.5						22 0 SKP
SKALSTUGAN	137.09	354.3	18 52	-9				22 16 SKP
TIFLIS	139.75	310.3						22 25
UPPSALA	139.97	349.1	19 0	-7				22 24 SKP
LUND	144.67	350.7	19 14K	-1				
COPENHAGEN	144.79	351.3	19 14K	-1				
SIMFEROPOL	145.39	320.6	19 17	1				
RATHFARNHAM	146.91	10.9	19 24	5				
LWOW	147.05	335.5	19 22	3				
HAMBURG	147.17	353.0	19 22	3				
POTSDAM	147.88	349.1	19 24	4				
KRAKOW	148.31	339.9	19 25	4				20 1
RACIBORZ	148.82	341.8	19 31	9				
KSARA	148.82	300.9	19 26	4			20 26	24 14
JENA	149.53	350.1	19 27	4			20 24	
PRAGUE	149.80	346.1	19 29	6			20 25	22 22 PP
PLAUEN	149.85	349.2	19 29	6			20 30	
JERUSALEM	149.87	297.3	19 25	2				
SONNEBERG	150.12	350.3	19 30	6				
CHEB	150.21	348.6	19 30	6				22 25 PP
STUTTGART	151.98	352.2	19 33	7				
PARIS	152.28	1.6	19 34	7			20 33	
STRASBOURG	152.33	354.1	19 44A	17				
EBINGEN	152.59	352.2	19 33	6				
TAMANRASSET	177.55	315.0	19 50	2			20 45	31 59 SKKS

AUGUST 15 20.H 45.M 22.S EPICENTRE -4.84 154.98 DEPTH= 486.KM

DEPTH OF FOCUS= 0.071R

A=-0.90299 B= 0.42142 C=-0.08378 D= 0.4229 E= 0.9062
G= 0.0759 H=-0.0354 K=-0.9965 HT= 7.0

SE= 1.65

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
RABAUL	2.87	282.6	1 10K	1				
TRUK	12.62	345.6	2 45	-1	5 31	31		3 56
MADANG	13.57	317.4	2 13	-43	4 2	-76	2 38	2 55 *SP
NOUMEA	20.60	148.5	4 4	-1	7 24	1	6 16	7 51 PCP
GUAM	20.83	330.9	4 4	-3			6 17	7 47 PCP
BRISBANE	22.59	184.5	5 23	59	7 51	-5		
KOROR	23.76	300.4	4 32	-2				8 11 PCP
RIVERVIEW	29.07	186.6	5 22A	1	9 40	2	6 46	6 51 PP
MELBOURNE	34.09	194.2	6 5K	1	10 58	2	7 34	13 17
BAGUIO CITY	40.04	302.6	6 54	1	12 25	1		
MERA	42.04	341.3	7 8A	-1				
MISIMA	42.51	340.4	7 13	0	12 47	-13		
TOKYO C.M.O.	42.77	341.6	7 8	-7	13 0	-3		
HUNATU	42.92	340.5	7 16	0	13 5	0		
KOHU	43.10	340.3	7 18	1	13 4	-4		
KAMEYAMA	43.16	337.6	7 18	0	13 8	-1		
TOKUSIMA	43.23	335.0	7 19	1	13 7	-3		
KOTI	43.24	333.5	7 20A	2	13 6	-4		16 26 SCS
NAGOYA	43.25	338.3	7 20	2	13 7	-3		
TITIBU	43.25	341.1	7 16	-2				
OSAKA	43.35	336.4	7 21	2	13 19	8		
SUMOTO	43.35	335.5	7 22	3				
GIHU	43.53	338.2	7 21	0	13 14	0		
UTUNOMIYA	43.53	342.3	7 21	0	13 10	-4		8 53
KYOTO	43.59	336.9	7 19	-2				
HIKONE	43.61	337.6	7 22	1	13 12	-3		
MAEBASI	43.64	341.3	7 21	-1				
OIWAKE	43.75	340.7	7 24	2				
OOITA	43.86	331.3	7 25	2				
MATUMOTO	43.87	340.0	7 23	0	13 21	2		
SHIRAKAWA	43.96	342.9	7 25	1	13 19	-1		9 25
KUMAMOTO	43.97	330.1	7 24	0				
MATUSIRO	44.06	340.5	7 23A	-2	13 17	-4	9 7	9 12 PP
NAGANO	44.17	340.5	7 26	0	13 22	-1		
NAGASAKI	44.31	329.2	7 26	-1	13 28	3		
HUKUSIMA	44.47	343.5	7 28	0	13 27	0		
HUKUOKA	44.72	330.5	7 30A	0	13 31	0		
SENDAI	44.84	344.2	7 30	-1	13 31	-1		
YAMAGATA	44.97	343.7			13 34	0		
NIIGATA	45.05	342.1			13 18	-17		
PERTH	45.49	228.8						17 22
SAKATA	45.72	343.4	7 38	0				
AKITA	46.41	344.1	7 44	1	13 56	2		
URAKAWA	48.07	347.8	7 54	-2	14 11	-6		
ZO-SE	48.15	320.2	7 56A	0	14 16	-2		9 52 PP
MORI	48.52	345.7	7 59	0	14 24	0		9 36
NEMURO	48.69	350.9			14 27	1		
SAPPORO	49.26	346.8			14 34	0		9 54
SUTTSU	49.27	345.7			14 32	-2		
CANTON	49.27	306.1			14 38	4		
NANKING	50.30	319.3	8 14A	2	14 49	1		17 11 SCS
VLADIVOSTOK	52.11	338.7	8 26K	0	15 12	0	10 0	
Y.-SAKHLINSK	52.69	349.5	8 30A	0	15 20	0	10 6	17 32 SCS
CHANGCHUN	55.33	334.2	8 48	0	15 55	0	10 24	
PEKING	57.14	325.0	9 1A	0	16 18	0	10 38	18 1 SCS
PETROPAVLOVK	57.83	2.6	9 4	-2	16 25	-2	10 42	18 0 SCS
KUNMING	58.84	303.0	9 13	1	16 44	4	10 53	18 16 SCS
CHENGTU	60.12	309.5	9 21A	0	16 55	-1	11 0	18 25 SCS
TERRE ADELIE	62.59	186.0	9 37	0	17 28	2		
LANCHOW	62.80	314.8	9 40	1	17 32	3		
MAGADAN	64.27	357.6	9 47	1			11 27	
TOCKLAI	66.10	301.9	10 4	5	18 14	5		
ULAN-BATOR	67.31	327.1	10 7	0	18 23	0		
CAPE HALLETT	68.05	175.0	10 12	1	18 36	4	11 58	23 28 SS
SHILLONG	68.22	299.8	10 13K	1	18 36	2		

WILKES	68.59	197.8			18 38	0		22 38 SS
IRKUTSK	71.21	329.9	10 31	1			12 9	19 47 SCS
CHATRA	72.62	299.9	10 34	-4	19 20	-3		
BOKARO	73.10	296.8	10 41	1	19 31	3		
SCOTT BASE	73.23	177.4	10 42	0	19 27	-3		
TIKSI	78.21	351.8	11 9	0	20 19	-5	12 53	20 33 SKS
COLLEGE	81.10	21.3	11 20	-4	20 40	-13	13 8	
POONA	83.15	289.2	11 36	1	21 15	2		
SITKA	83.18	31.1	11 33	-2	21 9	-5	13 19	24 16 *SS
SEMIPALATNSK	84.06	321.6	11 38	-1	21 9	-13		
BYRD STATION	84.48	169.9	11 37	-4				
LAHORE	84.57	302.2	11 39K	-3	21 14	-13	13 30	24 43 *SS
SOUTH POLE	85.19	180.0	11 44	-1				
FRUNSE	86.25	313.4	11 51K	1	21 20	-23	13 40	21 45
BERKELEY	87.24	51.8			21 34	-18	13 42	21 54
WARSAK DAM	87.25	304.3	11 55	0				
SHASTA	87.55	49.0	11 56	0			13 46	
LICK	87.65	52.4					13 55	
SEATTLE	88.64	42.1			21 49	-16	13 55	
KING RANCH	88.92	54.6						12 23
RENO	89.36	50.4					13 55	
WOODY	89.67	54.3	12 7	1			14 0	
TASHKENT	89.93	311.3			22 17	1		21 49 SKS
ISABELLA	89.99	54.4	12 8	1			13 57	
STALINABAD	90.02	308.5	12 8	0	21 50	-27		
PASADENA	90.08	55.9	12 8	0	22 18	0	13 56	23 30 SP
KARACHI	90.23	295.8						13 18
TINEMAHA	90.32	53.0	12 10	1			14 3	
QUETTA	90.70	300.1	12 10K	-1	22 18	-5	14 2	21 57 SKS
CHINA LAKE	90.71	54.3	12 11	0			14 1	
RIVERSIDE	90.72	56.1	12 13	2			14 3	
PALOMAR	91.09	56.8	12 14	2			14 3	
BARRETT	91.19	57.5	12 14	1			14 2	
HAYFIELD	92.14	56.5	12 19	2			14 10	
EUREKA	92.31	50.8	12 18	0			14 8	37 39 PKPPKP
BOULDER CITY	92.96	54.3	12 22	1				
HUNGRY HORSE	94.24	42.0	12 27	0			14 16	37 39 PKPPKP
SVERDLOVSK	96.40	326.5			23 9	-3		22 24 SKS
ASHKABAD	98.18	307.5	12 46	1	22 38	-49		
HALLEY BAY	99.76	179.6	12 49	-3				17 3 PP
RESOLUTE	99.90	14.7			22 40	-61		26 13 PS
RAPID CITY	101.84	46.1						29 6 PKKP
APATITY	106.12	340.1			23 10	-2		
KIROVOBAD	107.23	311.1			23 18	1		
SODANKYLA	108.45	341.3						28 43 PKKP
KIRUNA	110.05	343.3			23 24	-5		28 9 PS
PULKOVO	111.04	333.5			23 32	0		
SCORESBY SD.	114.42	358.9			23 48	2		20 29 *PPP
SKALSTUGAN	115.44	342.5						28 21 PKKP
UPPSALA	116.25	337.6	17 47	0				28 19 PKKP
KSARA	116.74	305.5	17 42	-6				19 6 PP
WARSAW	119.44	329.4						20 46 PP
OTTAWA	120.27	39.1	17 55A	0	24 7	1	19 53	29 16 PS
COPENHAGEN	121.13	336.3			24 17	8		35 13 SS
SHAWINIGAN	121.54	36.8	17 57K	0				
PALISADES	123.41	43.1			24 12	-4		21 26 PKS
PRAGUE	124.05	330.4						20 54 PP
LWIRO	125.77	263.8	18 6A	1				
DE BILT	126.67	337.2						20 38 PP
TRIESTE	127.21	326.5	18 10	2				24 29 SKKS
HUANCAYO	127.24	109.0	18 12	4				
STUTTGART	127.44	332.1	18 9	0			20 6	31 3 PKKS
HALIFAX	127.95	34.4	18 11	1				
EBINGEN	127.97	331.7	18 11	1				
STRASBOURG	128.24	332.8	18 12	2	24 56	26		20 46 SKP
KEW	129.17	340.3						20 50 PP
BOLOGNA	129.26	326.8						21 13 PP
RATHFARNHAM	129.30	345.6					20 30	
CHINCHINA	129.59	87.6	18 12	-1			20 8	21 36 PKS
FLORENCE X.	129.77	326.1	18 23	10			20 52	32 14 PS
PAVIA	129.96	328.8						20 54 PP
ROME	130.24	323.5	18 18	4	24 11	-25	20 54	37 28 SS
PARIS	130.33	336.4						30 45 SP
BOGOTA	131.12	88.1	19 4	48				21 46 PKS
LA PAZ	132.39	117.4	18 22A	4				
CLERMONT-FD.	132.45	333.4						21 2 PP
BERMUDA	133.93	48.6						21 13 PP
SAN JUAN	137.67	68.0	18 28	0				21 16 PP
ALGIERS UNI.	139.11	324.7	18 33	3			20 27	27 25 SKKS

RELIZANE	141.25	325.9					21 5	21 28 PP
GRANADA	142.31	331.5	18 37A	0				21 31 PP
ANTIGUA	142.62	68.2	18 33	-4				
MALAGA	143.06	331.9	18 37A	-1				21 29 PP
TRINIDAD	143.39	78.7	18 36	-3				
ST. LUCIA	143.40	73.0	18 35A	-4				
BARBADOS	144.90	74.1	18 44	3				
TAMANRASSET	145.52	304.1	18 44	2			20 42	22 20 PP

AUGUST 16 23.H 31.M 56.S EPICENTRE 10.29-103.81 DEPTH= 0.KM

A=-0.23486 B=-0.95568 C= 0.17751 D=-0.9711 E= 0.2387
G=-0.0424 H=-0.1724 K=-0.9841 HT= 6.5

SE= 2.90

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
MANZANILLO	8.72	356.7	2 20	11	4 12	24		4 0
OAXACA	9.56	44.9	2 16	-4	4 20	11		
TACUBAYA	10.09	25.6	2 27K	0	4 17	-6		
PUEBLA	10.24	31.3			4 38	13		
GUADALAJARA	10.34	2.5	2 40	9	4 56	28		5 16 SS
VERA CRUZ	11.55	39.1	2 44	-3	5 12	15		5 56
COMITAN	12.81	61.2	3 12	8	5 44	16		7 52
MAZATLAN	13.05	349.4	3 6	-2	5 40	6		
SAN SALVADOR	14.66	75.1	3 28	-1				
SANTIAGO MA.	15.34	76.5	3 40	2				
CHIHUAHUA	18.37	353.6	4 16K	0	7 50	12		4 33 PP
TUCSON	22.79	344.5	5 5	2	9 23	16		6 33
LUBBOCK	23.25	4.1	5 7	-1	9 26	11		
BALBOA HTS.	23.94	91.1	5 14	0	9 36	9		
BARRETT	25.24	333.9	5 24	-3				
SAN DIEGO	25.51	333.0	5 26	-3	8 32	-82		
HAYFIELD	25.71	336.8	5 32	1				
PALOMAR	25.90	334.4	5 31	-2				
RIVERSIDE	26.67	334.2	5 42	2	10 28	15		
FAYETTEVILLE	27.12	17.3	5 41	-3				8 50
PASADENA	27.15	333.2	5 43	-2	10 32	11		7 38
BOULDER CITY	27.46	340.3	5 47	0	10 21	-5		
GALERAZAMBA	28.06	86.4			10 48	13		
CHINA LAKE	28.34	335.9	5 51	-4				
CHINCHINA	28.42	98.6	5 55A	-1	10 49	8		6 44 PP
ISABELLA	28.56	334.5	5 56	-1				
WOODY	28.76	333.9	5 58	-1				
KING RANCH	28.84	332.3	6 1	1				
TINEMAHA	29.66	336.3	6 8	1				
BOGOTA	30.00	98.5	6 10A	0	11 12	6		7 6 PP
FRESNO	30.07	333.8	6 8K	-3				
ST. LOUIS 1	30.73	21.1	6 15A	-2	11 18	0		7 8 PP
FLORISSANT	30.83	20.8	6 16K	-2	11 15	-4		7 8 PP
EUREKA	31.02	341.6	6 16	-3				
SALT LAKE C.	31.18	348.2	6 22	1	11 35	10		
LICK	31.36	332.0	6 21A	-1				
COLUMBIA	31.50	38.0	6 22	-1	11 19	-11		9 28 PCP
BERKELEY	32.08	331.9	6 28A	-1	11 43	4		7 54 PP
RENO	32.43	336.6	6 32K	0				
UKIAH	33.54	332.1	6 42	1	12 14	12		
RAPID CITY	33.67	0.8	6 41	-1	12 11	7		8 6 PP
CHAPEL HILL	34.00	37.4	6 46	1				7 45
CHICAGO CGS.	34.45	21.7	6 48	-1	12 20	4		7 56 PCP
SHASTA	34.46	334.6	6 46	-3				
ARCATA	35.34	333.0	7 4	7				
BOZEMAN	35.79	351.3	7 1	0	12 44	7		
HUANCAYO	35.96	127.4	7 0	-2	12 50	11		8 31 PP
BUTTE	36.38	349.7	7 7	1	12 53	7		8 39 PCP
PITTSBURGH	36.71	31.1	7 10	2	12 59	8		8 27
CLEVELAND	36.74	28.4	7 10	2				
WASHINGTON	37.17	35.5	7 16	4	13 12	14	8 16	
SAN JUAN	37.33	73.2	7 11	-2	13 6	6		
PENNSYLVANIA	38.06	32.6	7 19	-1	13 10	-1		8 39 PP
CORVALLIS	38.08	337.3	7 20A	0				
PHILADELPHIA	38.97	35.9	7 28	1	13 27	2		8 51 PCP
FORDHAM	40.30	35.8	7 36	-2	13 49	4		9 10 PP
SEATTLE	40.37	340.7	7 41	2	13 52	6		
PALISADES	40.39	35.6	7 38K	-1	13 43	-3		9 11 PP

ST. CLAUDE	41.34	77.5	7 46	-1	14 8	7	17 35 SS
VICTORIA	41.50	340.3	7 45	-3	14 6	3	
DOMINICA	41.60	78.6	7 52	3			
SASKATOON	41.78	357.4	7 55	5	14 10	3	17 39 SS
FORT FRANCE	41.83	79.4	7 46	-5	14 11	3	17 16 SS
BANFF	41.88	348.9	7 51	0			
ANTIGUA	41.94	76.0	7 48	-4			
ST. LUCIA	41.97	80.5	7 48	-4			9 53 PCP
HORSESHOE B.	42.20	341.1	7 54	0	14 18	5	
BERMUDA	42.22	52.6	7 58	4	14 18	4	9 33 PP
OTTAWA	42.47	29.4	7 54K	-2	14 8	-9	9 38 PP
ALBERNI	42.62	339.7	7 58	1	14 28	9	
WESTON	42.75	35.9	7 58K	0	14 28	7	9 40 PP
LILLOOET	42.96	343.1	8 0	0			
BREBEUF	43.58	30.9	8 3	-2	14 39	6	
LA PAZ	44.21	126.6	8 9A	-1	14 38	-5	10 0 PP
SHAWINIGAN	44.73	30.4	8 13	-1			10 0 PP
SEVEN FALLS	46.09	31.1	8 7	-18	8 55	-375	10 1 PP
ANTOFAGASTA	46.94	136.3	8 22	-10	15 33	11	
HALIFAX	48.62	37.9	8 44A	-1	15 57	12	10 43 PP
HAWAII V.OB.	50.41	286.7	7 1	-118	12 50	-200	
SITKA	52.62	338.9	9 13	-2	16 47	6	11 4 PP
KIPAPA	53.08	289.0	9 18	-1	16 58	11	20 46 SS
COLLEGE	62.44	340.4	10 23	-2			11 21 PCP
LA PLATA	62.48	138.3	10 22	-3	18 52	2	13 10 PP
RESOLUTE	64.56	2.6	10 35	-4	18 57	-19	13 36 PP
IVIGTUT	64.89	26.2			19 27	7	20 38 SCS
ANGRA DO HO.	73.18	52.7	11 34	2	20 56	-2	
SCORESBY SD.	77.64	19.9	11 57	0	21 53	6	14 55 PP
SUVA	81.76	249.9			22 45	14	
MBOUR	84.47	76.4	12 30	-3	23 7	9	16 0 PP
RATHFARNHAM	86.30	36.6	12 45A	3			16 28 PP
PETROPAVLOVK	86.34	323.2	12 42	-1	23 11	-5	23 2 SKS
LISBON	87.24	51.3	12 52K	5	23 19	-6	16 26 PP
EDINBURGH	87.45	33.6			23 35	8	23 20 SKS
COIMBRA	87.51	49.8	12 46	-2	23 19	-8	
ABERDEEN	87.70	32.3			23 40	11	16 1
DURHAM	88.63	34.5	12 55K	1	23 50	12	16 42 PP
MAGADAN	88.87	330.6	12 55	0			
TONGARIRO	89.29	230.1					12 39
JERSEY	89.83	40.0			24 1	12	18 6
KEW	90.29	37.5	13 2	0	23 59	6	16 39 PP
BERGEN	90.33	28.0					16 26
WELLINGTON	90.35	228.2			24 12	19	
BYRD STATION	90.55	182.7	13 3	0	24 4	9	16 44 PP
TOLEDO	90.86	49.3	13 2	-2	24 0	2	16 40 PP
TIKSI	91.19	345.4	13 5	-1			24 0 SCS
MALAGA	91.35	52.5	13 5A	-1	23 45	-17	16 31 PP
GRANADA	91.86	51.9	13 10A	1	23 52	-15	16 50 PP
SKALSTUGAN	92.00	23.7	13 14	5			16 48 PP
KIRUNA	92.63	18.3	13 17	5	23 48	-26	16 53 PP
ALMERIA	92.82	51.9	13 19	6			16 58 PP
PARIS	92.83	39.4	13 9	-4			16 50 PP
DE BILT	93.31	35.8	13 14	-1	23 54	-26	16 39 PP
ALICANTE	93.94	50.1	13 19	1	24 29	4	30 49 SS
TORTOSA	93.96	47.5	13 25	7	23 59	-26	
CLERMONT-FD.	94.23	42.2			24 39	12	17 15 PP
SODANKYLA	94.78	17.2	13 20	-2			17 10 PP
ROXBURGH	95.07	224.8			24 51	16	24 10 SKS
HAMBURG	95.41	33.2	13 31	6			16 58 PP
RELIZANE	95.47	52.3					17 31 PP
BESANCON	95.57	40.1					26 20 PS
COPENHAGEN	95.76	30.7			24 49	9	17 19 PP
UPPSALA	96.08	25.7			24 1	-42	17 19 PP
STRASBOURG	96.18	38.4	13 29	0	24 14	-30	17 22 PP
KARLSRUHE	96.40	37.8			24 20	-26	17 25 PP
APATITY	96.52	15.2	13 29	-1	24 46	-1	17 20 PP
STUTTGART	96.97	37.8	13 34	2	24 17	-34	17 25 PP
ALGIERS UNI.	97.09	50.7	13 27	-6	24 15	-37	17 23 PP
HALLE	97.40	34.6	13 53	19			17 11 PP
JENA	97.44	35.2	13 36	2	24 18	-37	17 31 PP
SONNEBERG	97.47	35.8	13 34	0			17 31 PP
POTSDAM	97.61	33.5	13 34	-1			17 33 PP
PLAUEN	97.96	35.4					17 35 PP
Y.-SAKHLINSK	98.00	320.6	13 38	1			26 25 PS
PAVIA	98.41	41.2					16 53
CAPE HALLETT	98.48	198.0	13 46	7	25 15	12	17 52 PP
PRAGUE	99.46	35.1			25 21	9	17 47 PP

CUGLIERI	99.96	46.0						30 34
FLORENCE X.	100.34	41.8	13 55	8	24 29	-50		20 16 PPP
TRIESTE	101.12	39.3	13 54	3	25 46	20		18 9 PP
PULKOVO	101.16	21.7	13 48K	-3				24 35 SKKS
WARSAW	101.87	31.1	13 56	2	25 46	14		18 7 PP
BRATISLAVA	101.92	35.9						17 22 PP
ROME	101.96	43.2	13 56	1	25 41	8		17 43 PP
KRAKOW	102.51	33.3						18 9 PP
TAMANRASSET	103.43	63.6	14 5	4	25 54	9		18 19 PP
LWOW	104.81	31.9	14 13	6	24 52	-64		18 28 PP
MATUSIRO	105.45	312.5			26 12	0		18 31 PP
TIMISOARA	105.59	36.5	18 34	777				24 59
BELGRADE	105.64	37.7			26 19	5		18 36 PP
MESSINA	105.71	45.5			25 39	-36		18 12 PP
TARANTO	105.82	42.8						27 47 PS
VLADIVOSTOK	106.57	320.9						18 38 PP
GUAM	107.99	287.8	15 59	777				18 54 PP
RIVERVIEW	108.12	237.8						28 41 PS
BUCHAREST	109.18	35.6	18 34	777				26 9 SKKS
SVERDLOVSK	111.89	9.1						21 35 PPP
ISTANBUL KA.	112.96	37.0	18 16	-20				19 26 PP
IRKUTSK	113.16	341.6						19 30 PP
SIMFEROPOL	113.19	31.2	14 46	-231				19 30 PP
ULAN-BATOR	115.96	337.5	19 51	69				
SEMIPALATNSK	119.46	357.0						20 3 PP
WILKES	119.47	195.2			25 49	5		20 19 PP
TIFLIS	120.74	27.0						20 24 PP
HELWAN	121.19	45.7	19 0	8				
KSARA	121.76	39.3	19 1	7	25 57	6		20 31 PP
KIROVOBAD	122.24	26.5						20 29 PP
JERUSALEM	122.67	41.6	18 59	4				
GORIS	123.22	27.4			25 54	-2		20 40 PP
FRUNSE	127.07	1.5	19 10	6				21 9 PP
TASHKENT	128.25	6.6	19 4	-2				21 9 PP
ASHKABAD	129.19	18.2	19 4	-4				25 10
STALINABAD	130.92	7.7	19 19	8				
LWIRO	132.27	83.7	19 19A	5				
LAHORE	138.36	2.4	19 22	-3				22 38 PP
QUETTA	138.79	12.2	19 29	3	26 31	-2		22 31 PP
DEHRA DUN	139.58	357.5						22 58
SHILLONG	141.22	337.1	19 32	2				
KARACHI	143.01	13.8						21 12
BOKARO	144.81	344.6	19 40	4				
CALCUTTA	145.28	340.0						21 8
BOMBAY	150.80	6.6						21 50
TANANARIVE	151.02	110.5	19 55	9				20 17 PKP2
POONA	151.27	4.6	19 47	0				23 17 PP
COLOMBO	162.53	347.8						22 13

AUGUST 18 8.H 37.M 1.S EPICENTRE 12.18 123.82 DEPTH= 21.KM

A=-0.54424 B= 0.81231 C= 0.20968 D= 0.8308 E= 0.5566
G=-0.1167 H= 0.1742 K=-0.9778 HT= 6.2

SE= 3.59

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
MAMBAJAO	3.40	148.9	0 27	-26	1 17	-16		
MANILA	3.65	311.1	0 42	-15	1 27	-13		
BAGUIO CITY	5.25	323.7	1 17	-2	2 4	-16		
KOROR	11.56	113.7	2 24	-23	4 42	-14		
TAIPEI	12.96	350.7	2 2	-64	3 44	-106		
HONG KONG	13.64	318.8	3 21	6				
ZO-SE	18.98	353.0	4 18A	-5	7 50	0		
YAKUSIMA	19.20	17.8	4 24	-1	8 7	12		
KAGOSIMA	20.27	16.8	4 28	-9	8 4	-14		5 11
NANKING	20.31	347.6	4 34A	-3				
GUAM	20.45	84.1	4 29	-9	7 48	-33		
TOMIE	20.84	11.8	4 41K	-2	8 37	8		
MIYAZAKI	20.85	18.4			8 43	14		
NAGASAKI	21.19	14.2	4 43	-3	8 49	14		
KUMAMOTO	21.49	16.0	4 47	-2	8 37	-4		
ASOSAN	21.66	16.7	5 11	20	8 48	4		
SAGA	21.79	14.8	4 53	1				
HUKUOKA	22.14	14.7	4 53	-3	9 0	7		5 34
SIMIDU	22.15	20.8			9 1	8		

ITUHARA	22.47	11.9	4 45	-14	8 57	-2		
MATUYAMA	23.04	19.3	4 57	-7	9 15	6	10 48	
KOTI	23.05	21.1	5 2	-3	9 11	2		
KUNMING	23.73	305.6	5 12	1	9 27	6		
SIOMISAKI	23.82	25.4	5 11	-1	9 36	13		
HAMADA	23.82	17.0	5 21	9	9 25	2	7 47	
TOKUSIMA	23.89	22.5	5 10	-3	9 25	1		
TAKAMATU	23.92	21.2	5 16	3	9 19	-6		
TSINGTAU	23.99	353.0	5 13	-1				
SUMOTO	24.25	22.7	5 12	-4	9 46	15		
OWASE	24.54	25.4	5 9	-10			6 52	
MATSUE	24.63	18.4	5 21	1	9 46	9		
KOBE	24.66	22.9	5 22	2	9 45	8	10 37	
YONAGO	24.70	18.9					7 41	
OSAKA	24.77	23.5	5 32	11	9 55	16		
DJAKARTA	24.86	223.7	5 21K	-1	10 2	21		
KYOTO	25.17	23.5	5 21	-4				
TOYOOKA	25.29	21.4	5 16	-10			7 23	
KAMEYAMA	25.32	24.9	5 36	9	9 48	0	6 1	
HIKONE	25.60	24.1	5 30	1	10 13	20		
IBUKISAN	25.74	24.1	5 27	-4				
NAGOYA	25.80	25.3	5 30	-1			10 22	
OMAESAKI	25.87	28.0	5 39	7	10 20	22		
GIHU	25.92	24.8	5 31	-1	10 0	2	6 5	
CHENGTU	25.96	318.2	5 30	-3				
SHIZUOKA	26.26	27.9	5 37	2			10 58	
HUKUI	26.29	23.2	5 39	3				
IIDA	26.47	26.3	5 45	8	10 17	10	6 13	
OSIMA	26.56	29.6					9 58	
MISIMA	26.64	28.5	5 39	0			8 6	
HUNATU	26.87	27.8	5 42	1				
KOHU	26.89	27.3	5 41	0				
MERA	26.90	30.1	5 37	-4			10 56	
MATUMOTO	27.15	25.7	5 59	16				
TOYAMA	27.22	24.0	6 0	16			12 11	
YOKOHAMA	27.22	29.1	5 47	3			6 40	
TITIBU	27.41	27.6	5 44	-2				
OIWAKE	27.46	26.4	5 59	13			9 26	
TOKYO C.M.O.	27.47	29.0	5 47	1			10 44	
MATUSIRO	27.51	25.7	5 41A	-6	10 31	7	6 41	PP
NAGANO	27.60	25.5	5 57	9	10 26	0	10 56	
KUMAGAYA	27.68	27.9	5 59	11			12 5	
WAZIMA	27.69	22.8	6 11	23				
TRUK	28.00	97.0	5 48	-3				
TUKUBASAN	28.08	28.8	5 45	-7	10 24	-9	6 38	PP
KAKIOKA	28.12	28.9	5 58	6			12 28	
UTUNOMIYA	28.24	28.1	6 1	8			7 6	
MITO	28.38	29.1	6 48	53				
PEKING	28.55	347.6	5 53A	-3	10 34	-7		
SHIRAKAWA	28.86	27.9	6 0	1			8 46	
NIIGATA	29.02	25.4					7 42	
HUKUSIMA	29.49	27.5	6 9	4	11 14	18		
YAMAGATA	29.85	26.7	6 11	3				
LANCHOW	29.86	326.2	6 6	-2	11 1	-1		
SENDAI	30.11	27.4	6 5	-5	11 13	7		
TOCKLAI	30.89	302.2	6 26	9				
MIZUSAWA	30.92	26.8	6 15	-2			13 24	
AKITA	30.98	24.8	6 14	-4			7 33	
MORIOKA	31.41	26.2	6 21	-1	11 28	2		
CHANGCHUN	31.56	2.1	6 20K	-3	11 31	2		
VLADIVOSTOK	31.61	11.3	6 21A	-2	11 35	6		
MIYAKO	31.72	27.2	6 33	9	11 36	5		
AOMORI	32.18	24.6					7 3	
RABAUL	32.54	118.3	6 28	-3	11 44	0	7 47	PPP
SHILLONG	32.93	298.5	6 32K	-3	11 48	-2	7 44	PP
MORI	33.19	23.1	6 50	13			7 58	
SUTTSU	33.67	22.0					7 35	
URAKAWA	34.12	25.5	6 48	3			12 47	
SAPPORO	34.32	23.0	6 43	-4			7 38	
LHASA	35.03	304.8	6 54	1	12 23	0		
KUSIRO	35.49	26.4	6 56	-1	11 37	-53		
NEMURO	36.29	27.2	7 5	1			13 9	
WAKKANAI	36.46	21.3	7 30	25			13 4	
CHATRA	37.34	298.4	7 11	-1			18 14	
BOKARO	37.85	293.2	7 22	5	13 13	7	8 50	PP
Y.-SAKHLINSK	38.14	21.1	7 12	-7				
ULAN-BATOR	38.34	341.6	7 20	-1	13 22	9		
MADRAS	42.56	276.0	7 59A	3	14 42	26	9 45	PP

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IRKUTSK	42.96	342.5	8 0	1	14 22	0		17 41 SS
COLOMBO	43.62	267.2	8 5	1	14 30	-2		
HYDERABAD	44.10	282.5			14 52	13		10 26 PPP
PERTH	44.54	189.7	8 14	2	14 43	-2		8 45
KODAIKANAL	45.47	272.4	8 24	5	15 12	14		9 9 PP
DEHRA DUN	45.97	300.5	8 26	3	15 7	1		18 35 SS
POONA	48.48	284.0	8 43	0	15 51	10		10 38 PP
BRISBANE	48.55	144.7	8 40	-3	15 37	-5		
LAHORE	49.35	301.2	8 47K	-2				10 17 PCP
PETROPAVLOVK	49.38	27.0	8 46	-4				15 58 PS
BOMBAY	49.45	284.5	8 54	4	16 3	8		10 50 PP
MAGADAN	51.37	17.2	9 7	2				
SEMIPALATNSK	52.09	326.0	9 14	4				
WARSAK DAM	52.14	303.7	9 10	-1				
FRUNSE	52.31	315.3	9 9A	-3	16 32	-2		19 11
RIVERVIEW	52.64	151.3	9 14A	0	16 41	2		11 12 PP
MELBOURNE	53.56	159.2	9 20K	-1	16 55	4	9 51	11 3 PP
KARACHI	55.00	293.0	9 19K	-13	17 0	-10		
STALINABAD	55.30	308.6	9 33	-1	17 16	1		21 11 SS
QUETTA	55.42	298.3	9 33	-2	17 20	4		10 28 PCP
TASHKENT	55.59	312.0	9 35	-1	17 19	1		
TIKSI	59.49	1.9	9 59	-5				12 9 PP
SUVA	61.74	118.3	10 30	11				
ASHKABAD	63.30	306.4	10 28A	-1				19 46 PS
SVERDLOVSK	65.32	327.3	10 39	-3	19 23	0		13 0 PP
KARAPIRO	69.46	138.5	11 15	7				11 47
COBB RIVER	69.60	142.6	11 19	10				
TONGARIRO	70.20	139.6	11 11	-2				
ROXBURGH	70.59	147.9			20 29	3		
WELLINGTON	70.94	141.7			20 33	3		
GEBBIES PASS	71.19	144.8	11 23	4				
GORIS	72.74	307.7	11 28	0	21 30	39		14 18 PP
TIFLIS	73.83	310.1	11 34	0				28 35 SSS
KIPAPA	74.75	70.9	11 42	2				
COLLEGE	78.37	25.8	11 56	-4				
WILKES	78.79	185.5	12 4	2	21 59	2		
APATITY	78.99	337.0	12 0	-4	22 0	1		22 12 SCS
TERRE ADELIE	79.84	173.0	12 3	-5	22 12	4		
SIMFEROPOL	81.30	314.1	12 14	-2	22 23	0		23 11 PS
PULKOVO	81.34	329.3			22 21	-3		22 38 SCS
SODANKYLA	81.61	337.2	12 14	-3	22 33	6		
KSARA	81.64	302.8	12 19	1	22 40	13		15 36 PP
JERUSALEM	82.52	300.8	12 25K	3				
KIRUNA	83.80	338.2	12 26	-3				
HELSINKI	83.89	330.2	12 28	-1				
IASI	85.37	317.2	12 38	1				14 12
SITKA	85.70	32.6	12 41	3	23 7	0		16 10 PP
FOCSANI	85.95	315.7	12 44	5				
BACAU	85.96	316.6	12 37	-2				
HELWAN	86.16	299.6	12 41	1	23 23	11		
BUCHAREST	87.01	314.7	12 46	1	23 41	21		23 19 SKS
LWOW	87.02	320.3	12 44	-1				23 11 SKKS
UPPSALA	87.51	331.0	12 44	-3	23 23	-2		23 9
CAMPULUNG	87.54	315.7	12 57	10				
WARSAW	88.16	323.1	12 55	5	23 37	6		23 22 SKS
SKALSTUGAN	88.46	335.4	12 48	-4				
SOFIA	89.40	313.5	12 55	-1	23 40	-2		16 20 PP
KRAKOW	89.49	321.3	12 35	-21	23 39	-4		16 29 PP
CAPE HALLETT	89.64	167.2	12 57A	0	23 33	-11		16 33 PP
TIMISOARA	89.98	316.9	12 59	0	24 12	24		
RESOLUTE	90.04	9.6	12 56A	-3	23 49	1		29 25 SS
ATHENS	90.41	308.9			24 4	13		
RACIBORZ	90.53	321.6	13 2	1	23 37	-16		18 41 PPP
BELGRADE	90.78	316.2	13 3A	0	24 15	20		23 49 SKS
HURBANOVO	91.27	319.6	13 17	12	24 27	28		23 55 SKS
LUND	91.28	328.0	13 3	-2				
COPENHAGEN	91.66	328.2	13 5	-2				25 2 PS
BRATISLAVA	91.87	320.1	13 7	-1	24 13	9		23 41 SKS
POTSDAM	92.68	325.0	13 12	1	24 22	11		23 45 SKS
PRAGUE	92.80	322.5	13 10	-2	24 19	6		23 46 SKS
BERGEN	92.85	334.1						25 10
SCOTT BASE	93.05	171.7	13 14	1				
ZAGREB	93.42	318.2	13 22	7				23 48 SKS
HALLE	93.67	324.5			23 56	-24		16 38 PP
HAMBURG	93.87	326.9	13 15	-2	24 25	3		23 53 SKS
PLAUEN	93.97	323.5	13 19	2				23 47 SKS
CHEB	94.01	323.0	13 22	5	24 23	0		17 46 PP
JENA	94.12	324.0	13 15	-3	24 19	-5		23 53 SKS

SCORESBY SD.	94.26	349.1	13 21	3	24 30	5	23 59 SKS
TARANTO	94.43	312.8	12 59	-20			18 29 PPP
TRIESTE	94.93	318.6	13 25	3	24 50	19	23 55 SKS
HORSESHOE B.	95.16	37.2	13 26	3			
LILLOOET	95.37	35.6	13 24	0			
VICTORIA	95.45	38.0	13 29	4			
STUTTGART	96.45	322.8	13 27	-1	24 4	-40	24 39 SKKS
MESSINA	96.45	311.2			24 49	5	17 29 PP
SEATTLE	96.50	38.5	13 43	14	24 23	-21	23 35
KARLSRUHE	96.80	323.2	13 55	25	24 5	-42	24 39 SKKS
EBINGEN	96.85	322.3	13 29	-1			
BOLOGNA	96.96	318.2			25 28	40	17 29 PP
CHUR	97.10	320.9	13 30	-1			
DE BILT	97.13	326.9			24 15	-34	17 35 PP
ROME	97.25	315.5	13 37	5	25 5	14	24 20 SKS
FLORENCE X.	97.31	317.6	13 31	-1	24 20	-31	17 33 PP
PRATO	97.37	317.7					17 35 PP
STRASBOURG	97.38	323.0	13 36	3	25 3	11	24 13 SKS
BASLE	97.98	322.1			24 12	-45	12 21
PAVIA	98.06	319.5					16 30
NEUCHATEL	98.61	321.9			24 16	-46	17 37
OROPA	98.62	320.3					15 57
DURHAM	99.05	331.4			24 24	-42	19 34
MONACO	99.83	318.8					17 50 PP
MINERAL	100.11	44.9	13 51	6			
PARIS	100.30	325.0	13 45	-1	25 19	3	24 56 SKKS
KEW	100.35	328.2			25 22	5	24 28 SKS
BERKELEY	100.69	47.4			24 37	-42	16 16 PP
SANTA CLARA	101.13	47.8					30 56
CLERMONT-FD.	101.52	322.1			25 31	5	18 11 PP
JERSEY	102.60	327.0	14 3	7			25 2 SKKS
EUREKA	104.36	43.7	14 6	2			17 29
PASADENA	105.29	49.4	14 53	777			30 48 SS
ALGIERS UNI.	106.06	314.1			26 12	0	18 32 PP
BYRD STATION	106.44	170.6					17 36 PP
IVIGTUT	106.58	356.0					25 26 SKKS
ALICANTE	107.68	317.0	14 23	777	25 3	0	18 58 PP
RELIZANE	108.32	314.2					18 52 PP
TOLEDO	109.15	320.0	14 25	777	25 14	0	18 49 PP
RAPID CITY	109.58	34.0					18 57 PP
ALMERIA	109.82	316.6			25 40	60	19 4 PP
TAMANRASSET	110.31	299.9	18 55	25	25 24	17	19 3 PP
GRANADA	110.39	317.4			25 13	6	19 8 PP
MALAGA	111.18	317.4			26 5	55	19 1 PP
TUCSON	111.59	48.0					19 17 PP
LUBBOCK	117.06	42.1	18 50	7			
SHAWINIGAN	119.67	13.1	18 56	8			
OTTAWA	120.03	15.8	18 54	5	28 3	140	20 14 PP
FAYETTEVILLE	120.07	35.2	18 48	-1			21 5
HALIFAX	123.07	6.3	18 57	2			
WESTON	123.95	13.5					20 48
PALISADES	124.59	16.3	18 58	0			27 48 SKKS
WASHINGTON	125.57	20.0	19 8	8			31 7 PS
CHAPEL HILL	127.50	23.4	19 9	6			
COLUMBIA	128.34	26.4	19 9	4			28 8 SKKS
BERMUDA	134.95	10.2					22 30
SAN JUAN	148.09	18.1	19 44	4			
CHINCHINA	154.23	49.7					21 58
BOGOTA	155.61	47.9					20 17 PKP2
HUANCAYO	161.27	91.6	20 7	9			20 49 PKP2
LA PAZ	167.65	111.7	20 9K	5	27 45	42	21 11 PKP2

AUGUST 18 21.H 10.M 44.S EPICENTRE 16.31 -99.97 DEPTH= 0.KM
CONFUSED WITH AFTERSHOCKS

A=-0.16621 B=-0.94576 C= 0.27913 D=-0.9849 E= 0.1733
G=-0.0483 H=-0.2749 K=-0.9603 HT= 5.5

SE= 3.23

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
OAXACA	3.14	76.6	0 48	-3				1 19
TACUBAYA	3.16	13.3	0 50	-2				
SAN SALVADOR	10.69	102.5	1 45	-52	2 28	-131		
MERIDA	10.84	63.2						3 49
SANTIAGO MA.	11.46	102.6	2 2	-46	2 54	-124		

CHIHUAHUA	13.49	336.3				6	2	15	4 8
LUBBOCK	17.28	354.7	4	1	-3				5 32
TUCSON	18.68	330.1	4	22	1				
FAYETTEVILLE	20.36	13.6	4	32A	-8				
BALBOA HTS.	21.20	107.7	4	8	-41	7	48	-53	
BARRETT	22.23	320.2	5	2K	3				
HAYFIELD	22.34	323.7	5	2	1				
PALOMAR	22.81	321.1	5	8K	3				
RIVERSIDE	23.56	321.5	5	17A	4				
BOULDER CITY	23.64	328.7	5	14	1				6 54
BOULDER	24.08	349.9	5	15	-3				
PASADENA	24.15	320.7	5	21A	3	9	57	23	
COLUMBIA	24.50	40.5	5	19	-3	9	36	-4	
GALERAZAMBA	24.62	99.8				9	50	8	
CHINA LAKE	24.99	324.4	5	28	2				
TERRE HAUTE	25.54	23.0				9	21	-37	2 16
WOODY	25.62	322.5	5	32	0				
KING RANCH	25.90	320.7	5	41	6				
TINEMAHA	26.24	325.5	5	39	1				
CHINCHINA	26.41	112.6	5	18	-22	9	0	-72	
SALT LAKE C.	26.46	339.5	5	40	0				
FRESNO	26.91	323.0	5	44	0				
EUREKA	26.98	331.9	5	45	0				
CHAPEL HILL	26.99	39.7	6	11	26				
CHICAGO CGS.	27.52	20.3	5	39	-11				7 11
RAPID CITY	27.81	355.0	5	50	-3				
BOGOTA	27.95	111.7	5	34	-20	9	29	-68	10 31 SS
LICK	28.38	321.7	5	59	1				
CIUD. TRUJL.	28.74	81.3	5	59	-2	10	36	-14	
RENO	28.90	327.1	6	3	1				
CLEVELAND	29.69	28.7	7	1A	52				
MINERAL	30.44	326.2	6	10	-6				
BOZEMAN	30.71	344.7	6	16	-2				8 10 PCP
PENNSYLVANIA	31.00	33.7	6	51	30	11	43	17	
BUTTE	31.44	343.1	6	22	-3				
PHILADELPHIA	31.94	37.6	6	54	25	11	29	-11	7 27 PP
SAN JUAN	32.35	81.3	6	20	-13				9 51
PALISADES	33.35	37.2	6	31	-11	11	55	-7	7 23 PP
HUNGRY HORSE	33.97	343.1	6	44	-3				
OTTAWA	35.42	30.0	6	52A	-7	12	52	18	8 27 PP
BERMUDA	35.71	56.9	7	11	9	12	16	-23	
WESTON	35.72	37.5	7	28K	26	13	1	22	
SEATTLE	36.27	334.3	8	38K	91	14	58	130	11 4
BREBEUF	36.52	31.6	7	2	-7				
BANFF	36.94	343.7	7	10	-2				
HUANCAYO	37.25	137.6	7	11	-4	12	32	-31	
FORT FRANCE	37.40	87.0				12	31	-34	16 31 SSS
VICTORIA	37.42	334.2	7	14A	-2				
SHAWINIGAN	37.68	31.1	7	12	-6				7 51 *PP
HORSESHOE B.	38.04	335.2	7	19	-2				
LILLOOET	38.57	337.6	7	24	-2				
SEVEN FALLS	39.04	31.9				13	11	-19	9 14 PPP
HALIFAX	41.62	39.6	8	15	24				
LA PAZ	45.27	134.6	8	19	-2				17 22
COLLEGE	58.16	338.1	9	54	-4				
RESOLUTE	58.44	1.6	10	58K	58	19	9	67	
RATHFARNHAM	79.27	37.6	12	37	29				13 14
MALAGA	84.76	53.4	12	33	-4				
SKALSTUGAN	85.01	24.6	13	17	39				
GRANADA	85.24	52.8	12	37A	-2	23	18	9	16 15 PP
KIRUNA	85.77	19.2	13	25	43				
PARIS	85.84	40.3	13	11	29				
ALICANTE	87.25	50.9	12	44	-5	23	22	-7	
CLERMONT-FD.	87.30	43.0	13	19	29				
SODANKYLA	87.95	18.1	13	34	41				
HAMBURG	88.36	34.1	13	29	34				
UPPSALA	89.06	26.6	13	38	40				
STRASBOURG	89.17	39.2	13	30	31	24	6	19	14 28
STUTTGART	89.96	38.7	13	32	30				13 45 PCP
EBINGEN	90.07	39.3	13	34	31				
JENA	90.40	36.1	13	37	33				
ALGIERS UNI.	90.42	51.5	13	10	6	23	46	-12	16 39 PP
FLORENCE X.	93.40	42.6				24	54	30	14 48
TAMANRASSET	97.42	63.8	13	33	-3	24	32	-26	17 34 PP
LWIRO	127.71	80.0	14	39	-268				
KIMBERLEY	127.89	113.9	19	42K	34				
GRAHAMSTOWN	129.15	119.8	19	44	34				
QUETTA	132.09	15.3	19	15	-1				

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AUGUST 18 21.H 42.M 38.S EPICENTRE 50.10 156.41 DEPTH= 75.KM

DEPTH OF FOCUS= 0.007R

A=-0.59018 B= 0.25766 C= 0.76505 D= 0.4001 E= 0.9165
G=-0.7011 H= 0.3061 K=-0.6440 HT= -5.5

SE= 2.28

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
PETROPAVLOVK	3.34	23.8	0 50K	-1	1 30	0		1 6 *SP
KLYUCHI	6.75	21.1	1 40	1				1 56 *SP
KURILSK	7.55	233.0	1 44K	-6	3 14	-1		2 0 *SP
UGLEGORSK	9.38	269.2	2 16K	1	4 7	8		
Y.-SAKHLINSK	9.62	256.1	2 18	0	4 10	5		2 34 *SP
MAGADAN	10.00	343.3	2 24	1				
NEMURO	10.05	231.8	2 18	-6	4 15	-1		2 47
ABASHIRI	10.27	238.3	2 25	-2				3 40
KUSIRO	10.91	233.8	2 36	1	4 37	1		
WAKKANAI	10.96	250.4	2 41	5	4 48	10		
ASAHIGAWA	11.49	242.0	2 41	-2				
OBIHIRO	11.59	236.7	2 50	6				
URAKAWA	12.34	235.1	2 49	-6	5 2	-9		3 25
SAPPORO	12.51	241.6	2 53	-4	5 27	12		4 11
MURORAN	13.20	239.8	3 6	0	5 31	0		
SUTTSU	13.32	242.9	3 14	7	5 38	4		3 47
MORI	13.58	239.9	3 9	-2	5 32	-8		3 30
HAKODATE	13.71	238.6	3 8	-4	5 41	-2		3 22
HATINOHE	14.16	233.2	3 16	-2	5 37	-17		
AOMORI	14.34	235.6	3 28	7	5 54	-4		
MIYAKO	14.60	229.8	3 20	-4	5 55	-9		
MORIOKA	14.96	231.8	3 25	-4	5 57	-16		
MIZUSAWA	15.42	230.5	3 34	-1	6 18	-5		
AKITA	15.50	234.2	3 39	3	6 20	-5		
SENDAI	16.20	229.0	3 46	2	7 20	39		4 23
SAKATA	16.25	232.7	3 51	6				
YAMAGATA	16.49	230.2	3 26	-22				
HUKUSIMA	16.82	228.8	3 51	-1	6 52	-3		
ONAHAMA	17.26	226.3	4 7	9	7 8	3		7 33
NIIGATA	17.39	232.2	4 14	15	7 58	50		9 30
SHIRAKAWA	17.44	228.1	3 59	-1	7 13	4		
AIKAWA	17.73	234.0	4 5	2	7 20	4		
MITO	17.92	226.1	4 4	-2	7 21	1		
UTUNOMIYA	18.06	227.7	4 7	0	7 29	6		4 33
KAKIOKA	18.18	226.4	4 7	-2				8 22
TUKUBASAN	18.22	226.6	4 6A	-3	7 28	1		5 23
TAKADA	18.43	232.0	5 22	70				
MAEBASI	18.57	229.1	4 11	-2	7 33	-1		5 2
NAGANO	18.79	231.3	4 16	0	8 22	43		4 51
TOKYO C.M.O.	18.83	226.3	4 14	-2	7 33	-7		6 4
MATUSIRO	18.87	231.0	4 12A	-5	7 45	4		
OIWAKE	18.88	230.0	4 48	31	8 9	28		
TITIBU	18.90	228.3	4 14	-3				
WAZIMA	18.92	235.2	4 21	4	7 46	4		
YOKOHAMA	19.08	226.1	4 19	0	7 46	0		5 11
MATUMOTO	19.23	230.9	4 18	-3				
TOYAMA	19.27	233.3	4 26	5				7 15
MERA	19.42	224.9	4 23	0	8 22	29		
KOHU	19.43	228.6	3 21	-62	8 8	15		5 7
HUNATU	19.44	228.0	4 23	0	8 0	7		
MISIMA	19.66	227.0	4 24	-1	8 25	27		
TAKAYAMA	19.67	232.1	4 20	-6				
OSIMA	19.75	225.5	4 19	-7				
SUIHWA	19.80	271.2	4 27	0				
IIDA	19.88	229.9	4 28	0	8 19	17		4 47
SHIZUOKA	20.04	227.8	4 28	-2	8 15	9		
HUKUI	20.25	233.7	4 32	0				
OMAESAKI	20.43	227.6	4 40	6				
GIHU	20.50	231.7	4 33	-1	8 13	-1		6 29
NAGOYA	20.58	230.9	4 28	-7				5 24
IBUKISAN	20.71	232.3	4 36	0				
HIKONE	20.87	232.4	4 39	1	8 24	3		
KAMEYAMA	21.08	231.2	4 40	0	8 38	13		11 52
KYOTO	21.33	232.9	4 42	-1				
TOYOOKA	21.41	235.3	4 43	0	8 28	-3		

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OSAKA	21.72	232.6	4 48	2				5 36
OWASE	21.84	230.5	4 47	-1	8 50	11		
KOBE	21.87	233.2	4 51	3	8 46	6		
CHANGCHUN	22.03	265.5	4 45	-5	8 41	-2		
MATSUE	22.41	238.1	4 54	1				
TOKUSIMA	22.66	233.3	4 57	1	8 55	1		
TAKAMATU	22.74	234.6	4 58	1	9 0	5		
HAMADA	23.37	238.7	5 2	-1	9 11	5		
HIROSIMA	23.57	237.2	5 4A	-1	9 5	-5		5 26
KOTI	23.61	234.2	5 6	1	9 18	7		6 0
MATUYAMA	23.81	235.9	5 6	-1	9 5	-9		10 50
TIKSI	24.96	339.7	5 17	-1				5 58 PP
HUKUOKA	25.26	239.0	5 21	0	9 40	2		6 15
SAGA	25.57	238.7	5 22	-2				
KUMAMOTO	25.68	237.5	5 28	3				
KYAKHTA	31.47	290.1	6 15A	-2	11 17	-1		7 31 PPP
ULAN-BATOR	32.08	285.6	6 21	-1	11 11	-17		
IRKUTSK	32.15	294.3	6 22A	-1				7 34 PP
COLLEGE	32.17	41.5	6 22	-1				
ZO-SE	32.39	247.5	6 25A	0	11 35	3		
SITKA	39.55	52.9	7 28	3	13 31	9		9 6 PP
LANCHOW	40.05	270.1	7 29A	-1	13 29	-1		
TRUK	42.66	186.7	7 51	0				
HONG KONG	43.10	245.7	7 54	-1				
BAGUIO CITY	44.28	233.6	8 3	-1				
MADANG	45.60	194.9	9 34	79				
KIPAPA	45.75	111.7	8 16	0	14 55	2		9 57 PP
KOROR	46.41	210.8	8 16	-5				9 32 PCP
RESOLUTE	46.95	20.2	8 25A	0	15 13	3		
KUNMING	48.11	259.2	8 32A	-2	15 28	2		10 25 PP
ALBERNI	48.68	58.8	8 39	0	15 40	6		
HORSESHOE B.	49.46	58.0	8 50A	5	15 52	7		
LILLOOET	49.47	55.9	8 45A	0				
VICTORIA	49.86	59.0	8 48A	0				
SEATTLE	50.98	59.3	8 58	2	16 16	10		
TOCKLAI	51.98	267.3	9 10	6				
CORVALLIS	52.21	63.0	9 6A	1	16 30	7		
LHASA	52.41	272.8	9 8A	1	16 30	4		
BANFF	52.54	52.4	9 8A	0				
SVERDLOVSK	52.89	316.7	9 8	-3	16 32	0		11 10 PP
FRUNSE	54.13	296.1	9 18	-2	16 52	3		10 23 PCP
RABAUL	54.21	185.2	9 18	-2				
SHILLONG	54.66	268.6	9 23A	-1	16 55	-1		
HUNGRY HORSE	55.02	54.5	9 26	0	17 5	4		19 14 SCS
SHASTA	55.12	66.3	9 27A	0				
APATITY	55.13	336.9	9 23A	-4	17 0	-2		10 24 PCP
UKIAH	55.62	68.3	9 32	1	17 18	9		
MINERAL	55.80	66.2	9 32A	0				
SASKATOON	56.34	47.3	9 36	0	17 27	9		
CHATRA	56.81	273.2	9 38	-1				19 22
SODANKYLA	56.91	339.2	9 38	-2	17 33	7		13 23 PPP
BERKELEY	57.01	68.9	9 40A	0	17 31	4		
BUTTE	57.26	55.9	9 42	0	17 37	6		21 17 SS
RENO	57.38	65.9	9 44A	1				
SANTA CLARA	57.53	69.1	9 44A	0				18 2 PS
LICK	57.73	69.0	9 45A	0				12 8 PP
KIRUNA	57.86	341.9	9 44A	-2				
TASHKENT	58.17	297.7	9 48	-1	17 42	0		11 56 PP
BOZEMAN	58.30	55.4	9 50	1	17 34	-10		10 45 PCP
CALCUTTA	59.08	268.7	9 55A	0	17 55	1		24 56 SSS
FRESNO	59.21	68.3	9 56A	0				
EUREKA	59.65	63.6	9 59	0				39 15 PKPPKP
SCORESBY SD.	59.72	359.4	9 58	-1	18 6	3		19 56 SCS
BOKARO	59.79	271.7	10 1A	1	18 5	1		12 16 PP
TINEMAHA	59.95	67.1	10 2A	1	18 13	8	10 16	
KING RANCH	60.21	69.5	10 5A	2			10 20	10 30 *SP
DEHRA DUN	60.23	282.6	10 2	-1	18 3	-6		18 37 PPS
STALINABAD	60.29	295.6	10 3	0	18 8	-2		
WOODY	60.49	68.6	10 3A	-2			10 18	12 35 PP
SALT LAKE C.	61.13	60.1	10 10	1	18 17	-4		10 59 PCP
CHINA LAKE	61.16	67.8	10 9A	0			10 24	39 11 PKPPKP
WARSAK DAM	61.72	290.0	10 11	-2				
PASADENA	61.95	69.5	10 13A	-1	18 30	-1	10 28	18 43 *SS
PULKOVO	62.10	332.4	10 16K	1				19 1 PS
RIVERSIDE	62.54	69.1	10 21A	3			10 35	39 22 PKPPKP
BOULDER CITY	62.69	65.9	10 19A	0	18 48	8		22 42 SS
SKALSTUGAN	63.21	342.9	10 20A	-3				11 39
HELSINKI	63.29	335.2	10 21	-2	18 48	0		12 43 PP

PALOMAR	63.29	69.3	10 23A	0			10 39	12 58 PP
RAPID CITY	63.47	52.4	10 26	2	18 57	7		39 19 PKPPKP
HAYFIELD	63.78	68.2	10 26A	-1			10 41	11 2
BARRETT	63.87	69.7	10 27A	0	19 1	6	10 42	13 3 PP
LARAMIE	64.18	56.0	11 12	43				
BOULDER	65.24	56.8	10 37	1				
UPPSALA	65.43	338.5	10 34A	-3	19 11	-3		14 46
REYKJAVIK	66.10	359.2	10 43A	2				
ASHKABAD	66.60	301.5	10 44A	-1				13 12 PP
QUETTA	67.18	290.0	10 47	-1	19 35	0		11 9 PCP
IVIGTUT	67.31	12.6	10 49	0	19 35	-2		
TUCSON	67.66	66.2	10 52	1	19 49	8		38 59 PKPPKP
LUND	70.21	338.9	11 10	3				
KARACHI	70.25	286.8	11 10	3				21 19 SCS
COPENHAGEN	70.39	339.3	11 9	1	20 15	2		21 6 SCS
DJAKARTA	70.53	233.4	11 7A	-2				
SUVA	70.68	157.8			20 25	8		
TIFLIS	70.75	312.5	11 10	0	20 20	2		24 28 SS
WARSAW	71.26	332.9	11 13A	0	20 29	6		15 38 PPP
POONA	71.29	276.6	11 13	0	20 22	-2		11 43 PCP
ABERDEEN	71.63	347.9			20 54	26		29 27
BOMBAY	71.68	277.7	11 15	-1	21 9	41		21 37 PS
GORIS	71.73	310.1	11 16	0	20 34	5		21 20 SKS
LUBBOCK	71.83	59.3	11 17	0	20 37	7		21 5
LWOW	72.44	329.9	11 20	0	20 40	3		13 55 PP
SIMFEROPOL	72.88	321.1	11 22A	-1	20 46	4		15 48 PPP
HAMBURG	72.90	339.8	11 24	1	20 43	1		13 47
CHIHUAHUA	73.10	65.6						18 40
POTSDAM	73.28	337.5	11 26	1	20 50	4		12 45
IASI	73.49	326.4	11 25	-1				12 33
FLORISSANT	73.80	48.4	11 28A	0	20 56	4		21 22 SKS
DURHAM	73.89	346.9	11 29A	0	20 52	-1		21 36 SKS
ST. LOUIS 1	73.99	48.4	11 28A	-1	20 58	4		21 23 SKS
RACIBORZ	73.99	333.5	11 31K	2	20 59	5		21 33 PS
FAYETTEVILLE	74.01	52.6	11 29	0	20 57	3		
SKALNATE PL.	74.19	331.8	11 32	2	21 3	7		
BACAU	74.27	326.4	11 31	0				
HALLE	74.36	337.8	11 28	-3				21 1 PS
OTTAWA	74.67	35.2	11 33A	0	21 2	0		14 38 PP
SHAWINIGAN	74.74	32.8	11 33A	-1	21 4	1	11 53	14 42 PP
FOCSANI	74.91	325.8	11 36	1				
SEVEN FALLS	74.91	31.3	11 14	-21	20 49	-16		14 1 PP
JENA	74.98	337.8	11 35	0	21 7	2		14 25 PP
PRAGUE	75.04	335.7	11 36	1	21 7	1		14 0 PP
PLAUEN	75.23	337.3	11 33	-3	21 8	0		11 52
DE BILT	75.29	342.1	11 35	-2	21 12	3		25 52 SS
BREBEUF	75.35	33.9	11 37	0				
CHEB	75.56	337.0	11 41	3	21 15	3		21 58 PS
SONNEBERG	75.58	337.8	11 38	0	21 9	-3		13 53
CLEVELAND	75.64	41.1	11 40A	1	21 17	4		
RATHFARNHAM	75.94	349.4	11 40A	-1	21 34	18		
BENSBERG	75.96	340.5	11 40	-1				
HURBANOVO	75.97	332.5	11 42	1	21 18	2		14 56
BRATISLAVA	76.03	333.3	11 41	0	21 20	3		17 41
CAMPULUNG	76.05	326.9	11 43	2				
BUDAPEST	76.06	331.7	11 43	2	21 22	5		21 37 SKS
COLOMBO	76.11	264.1	11 43	2	21 23	5		
VIENNA-H.	76.17	333.8	11 42A	0	21 22	4		22 22 PPS
BUCHAREST	76.40	325.8	11 42	-1	21 51	30		14 26
SZEGED	76.83	330.5	11 44	-2	21 55	29		
KEW	76.89	345.3	11 46A	0	21 28	2		21 50 SKS
TIMISOARA	76.92	329.6	11 49	3	21 34	7		22 27
KALOCSA	76.94	331.4	11 47	1				
BRISBANE	77.29	183.1	11 47	-1	21 37	6		
KARLSRUHE	77.51	339.1	11 50A	1	21 38	5		14 48 PP
STUTTGART	77.56	338.5	11 48A	-2	21 33	0		14 35 PP
PENNSYLVANIA	77.73	39.1	11 53	3	22 1	26		
TUBINGEN	77.81	338.5	11 51	0				
BELGRADE	78.00	329.6	11 53A	1	21 39	1		22 32 PS
STRASBOURG	78.06	339.3	11 53	1	21 45	6		13 29
ISTANBUL KA.	78.15	322.1	11 50	-3	21 40	0		
EBINGEN	78.16	338.4	11 53	0				12 10 PCP
WESTON	78.88	34.0	11 58A	1	21 51	3		26 47 SS
SOFIA	78.89	326.7	11 57	0	21 54	6		15 2 PP
PARIS	78.95	342.8	11 58A	1	21 52	4		22 37 PS
ZURICH	79.01	338.4	11 59	1				
PALISADES	79.11	36.4	11 57A	-1	22 5	15		21 45 SKS
FORDHAM	79.26	36.4	11 58	-1	21 51	-1		

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CHUR	79.27	337.6	11 56A	-3				
TRIESTE	79.27	334.3	11 58	-1	21 55	3		27 14 SS
JERSEY	79.39	345.8						14 40 PP
HALIFAX	79.44	27.8	12 0A	0	21 56	3		
PHILADELPHIA	79.53	37.8	11 59	-1	21 54	0		26 48 SS
WASHINGTON	79.66	39.6	12 4	3	21 57	1		27 26 SS
NEUCHATEL	79.74	339.3	12 1	0	21 57	0		
SKOPJE	80.20	327.7	12 6K	2				16 7
OROPA	80.80	338.2	12 11	4	22 16	8		
PAVIA	80.92	337.2	12 9A	1	22 15	6		18 39
BOLOGNA	81.00	335.5	12 0	-8	22 15	5		12 52
KSARA	81.29	313.5	12 9A	-1	22 20	7		15 19 PP
PRATO	81.63	335.4	12 2	-9	22 22	6		
FLORENCE X.	81.69	335.3	12 9	-3	22 19	2	13 12	15 43 PP
CLERMONT-FD.	81.74	341.5	12 14A	2	22 24	7		23 39 PPS
COLUMBIA	82.07	45.0	12 13	-1	22 22	1		22 48 SCS
MONACO	82.71	337.9	12 17A	0				14 33
ATHENS	82.90	324.2	12 15K	-3	22 30	1		
TARANTO	82.94	329.8	11 29	-49				22 22 PS
ROME	83.08	333.7	12 18A	-1	22 31	0	13 16	15 45 PP
JERUSALEM	83.29	312.8	12 22K	2				17 37 PPP
RIVERVIEW	83.69	184.4	12 22A	0	22 44	7		28 2 SS
TACUBAYA	84.17	66.8	12 40	16	22 48	6		18 40
MESSINA	85.55	330.1	12 29A	-2	22 41	-14	13 26	15 55 PP
CUGLIERI	85.76	335.9	13 18	46				29 22
BARCELONA	86.11	340.9			23 2	1		
VERA CRUZ	86.13	64.6			22 58	-3		
HELWAN	86.70	314.6	12 37A	0	22 54	-14		
MELBOURNE	88.14	189.0	12 45A	1			12 58	
MERIDA	88.43	58.7						13 58
TOLEDO	88.76	345.1	12 48A	1	23 13	-13		16 18 PP
COIMBRA	89.10	348.4			23 12	-17		
KARAPIRO	89.25	165.0	12 50	1				
PERTH	89.26	213.6	12 51	2				
ALICANTE	89.60	342.0	12 54	3	23 44	11		23 24 SKS
BERMUDA	90.17	33.8	12 58	5	23 50	12		16 32 PP
ALGIERS UNI.	90.36	338.9	12 53A	-1	23 42	2		23 18 SKS
LISBON	90.65	348.8			23 25	-18		24 33 PS
GRANADA	91.32	344.2	13 0K	1	23 24	-25		16 8 PP
ALMERIA	91.43	343.2	12 57	-2	23 29	-21		
RELIZANE	91.89	340.6	13 2	1	24 4	10		23 45 SKS
MALAGA	91.91	344.7	13 0A	-1	23 21	-33		16 23 PP
WELLINGTON	92.42	166.3			24 2	2		
ROXBURGH	95.93	170.9			24 42	12		
SAN JUAN	102.17	41.1	13 49	1				17 59 PP
TAMANRASSET	102.99	332.6	13 52A	0	24 32	-56		29 49 PKKP
LWIRO	115.00	299.2	18 35	3				19 38 PP
CAPE HALLETT	122.49	175.0	18 48A	1	27 18	98		28 32 PKKP
HUANCAYO	123.28	66.8	18 53	4				20 44 PP
SCOTT BASE	127.84	177.2	18 57	0				
LA PAZ	131.01	63.1	19 6	3				22 30 PKS
PRETORIA	133.63	281.9	18 50	-18				19 9
PIETERMZBURG	134.90	276.1	19 13	2				
BYRD STATION	137.88	165.0	19 6	-10				22 52 SKP
KIMBERLEY	137.88	281.9	19 6	-10				
GRAHAMSTOWN	139.80	275.2	19 23A	3				
HALLEY BAY	154.46	178.2	19 52	9	27 1	20		

AUGUST 19 11.H 34.M 42.S EPICENTRE -10.30 160.77 DEPTH= 27.KM

A=-0.92920 B= 0.32410 C=-0.17760 D= 0.3293 E= 0.9442
G= 0.1677 H=-0.0585 K=-0.9841 HT= 6.5

SE= 2.55

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
RABAUL	10.46	304.8	2 43	12				5 22
NOUMEA	13.12	156.2	3 3K	-3	5 35	3	3 11	3 17 PP
BRISBANE	18.58	202.1	4 16	0	7 36	-3		
SUVA	18.80	116.5	4 21	2	7 53	9		4 40 PP
TRUK	19.76	332.9	4 29	-1	8 14	9		
MADANG	21.45	315.3						3 52
RIVERVIEW	25.03	199.2	5 25	3	9 47	5		10 13
ONERAHI	28.21	156.1	5 52	0				
GUAM	28.47	325.7	5 53	-1				
AUCKLAND	29.34	156.6						16 58 SCS

KARAPIRO	30.54	156.6	6 12	0				
MELBOURNE	30.88	204.8	6 18	2	11 21	5	6 27	7 31
KOROR	31.50	302.8	6 20	-1				
TONGARIRO	31.65	157.8	6 22	0				
WELLINGTON	33.24	160.6						12 28
ROXBURGH	35.89	169.7			12 39	5		
PERTH	46.71	235.6	8 37	9				10 24
MATUSIRO	51.20	336.7	8 48	-14				16 55
DJAKARTA	53.49	269.9	11 42	143	19 4	135		
TERRE ADELIE	57.95	188.9	9 49	-2	17 55	7		
Y.-SAKMLINSK	59.23	345.7	9 56	-4				
VLADIVOSTOK	59.33	335.7	10 0	-1				
CAPE HALLETT	62.23	176.7	10 19	-2	18 52	9		22 48 SS
PETROPAVLOVK	63.20	358.6	10 27	0	18 56	1		
SCOTT BASE	67.61	178.6	10 55	0				
OASIS-BUNG.	68.78	202.2	11 1	-2	21 5	62		
MAGADAN	70.07	354.6	11 14	3				
MIRNY	71.84	202.9			20 44	6		
ULAN-BATOR	75.00	325.8	11 41	1	21 18	4		
SHILLONG	75.89	299.7	11 43	-2				
BYRD STATION	78.14	169.9	11 56	-1	21 44	-5		26 38 SS
IRKUTSK	78.81	328.5	12 3	2				
COLOMBO	82.34	278.4	11 9	-71	22 39	7		
COLLEGE	84.17	19.6	12 27	-2				13 1
TIKSI	84.46	350.3	12 28	-3				
BERKELEY	86.16	50.6	12 40	1	24 8	58		23 14 SKS
LICK	86.48	51.2	12 46A	5				
SHASTA	86.85	47.9	12 42	0				
MINERAL	87.33	48.4	12 44A	-1				
KING RANCH	87.45	53.6	12 49	4				
FRESNO	87.76	52.2	12 47	0				
WOODY	88.23	53.4	12 48A	-1				
VICTORIA	88.41	40.2	12 49	-1				
PASADENA	88.42	55.0	12 50A	0	23 43	12		16 19 PP
RENO	88.44	49.5	12 50	0				
SEATTLE	88.87	41.2			24 36	60		23 24 SKS
DEHRA DUN	88.93	300.9			23 40	4		
RIVERSIDE	89.02	55.3	12 55A	2				
TINEMAHA	89.05	52.2	12 52	-1				
CHINA LAKE	89.26	53.5	12 55A	1				
PALOMAR	89.30	56.1	12 55A	1				
BARRETT	89.31	56.8	12 54	0				
HAYFIELD	90.38	55.9	12 58	-1				
EUREKA	91.32	50.2	13 3	-1				
BOULDER CITY	91.49	53.9	13 4	0				
TUCSON	94.07	58.1	13 26	10				
HUNGRY HORSE	94.44	41.8	13 32	14				14 17
NAMANGAN	95.99	310.4	13 24	-1				
QUETTA	98.37	299.2			24 1	-57		26 43 PS
RESOLUTE	103.65	15.4						27 58 PPS
FLORISSANT	111.06	52.4			26 17	69		19 10 PP
ST. LOUIS 1	111.18	52.6						28 39 SP
APATITY	113.16	340.6						23 43
PULKOVO	118.44	334.0						20 10 PP
SCORESBY SD.	119.85	1.1						36 18 SS
SIMFEROPOL	122.83	317.3						20 33 PP
PALISADES	123.14	47.5						20 29 PP
UPPSALA	123.42	338.7						33 3
KSARA	124.54	304.0	18 55	-1				20 47 PP
LA PAZ	124.78	118.3	18 58	1				21 26
KISHINEV	125.42	321.4						20 51 PP
WARSAW	127.01	330.2						21 3
ISTANBUL KA.	127.68	314.5						21 3
COPENHAGEN	128.37	337.7						21 16 PP
POTSDAM	130.56	334.5						21 24
JENA	132.25	334.0	19 10	-1				21 41 PP
BERMUDA	132.75	55.2						21 40 PP
DURHAM	133.48	346.0	19 22	9				22 9 PP
DE BILT	133.83	339.3						21 48 PP
STUTTGART	134.89	333.6	19 20	4				23 4 PKS
STRASBOURG	135.65	334.5	19 20	3				21 58 PP
TARANTO	135.93	319.3						20 18
KEW	136.13	343.0						22 0 PP
FLORENCE X.	137.46	327.1						22 16 PP
PARIS	137.53	338.8	19 24	3				22 14 PP
PAVIA	137.55	330.1	17 33	-108				
ROME	138.00	324.1						23 1 PKS
MESSINA	138.26	317.5	18 5	-77				22 11 PP

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CLERMONT-FD.	139.81	335.6						23 13 SKP
ALGIERS UNI.	146.83	326.2	19 41	4				23 9 PP
ALICANTE	147.40	332.0	19 36	-2	26 43	2		23 6 PP
TOLEDO	147.60	337.9	19 42	4				
GRANADA	149.75	334.7	20 2A	20	26 39	-6		29 49 SKKS
MALAGA	150.47	335.3	19 40K	-3				
TAMANRASSET	153.28	300.8	19 51	4				23 45 PP
MBOUR	175.38	331.7	20 8	2	26 16	-48		25 38 PP

AUGUST 19 21.H 31.M 55.S EPICENTRE 51.17-171.16 DEPTH= 0.KM

A=-0.62214 B=-0.09681 C= 0.77690 D=-0.1538 E= 0.9881
G=-0.7677 H=-0.1195 K=-0.6296 HT= -5.8

SE= 1.68

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
COLLEGE	18.31	32.6	4 17	1	7 41	4		
PETROPAVLOVK	18.57	287.9	4 19	0				
SITKA	21.63	60.2	4 55	3				5 23 PP
MAGADAN	22.91	306.3	5 3	-2				
SEATTLE	31.52	76.9	6 26	2	11 47	16		
CORVALLIS	32.29	82.7	6 32	1				
BANFF	34.16	67.7	6 46	-1				
SHASTA	34.90	88.0	6 54	1				
HUNGRY HORSE	36.22	71.5	7 4	-1				
BERKELEY	36.63	91.9	7 8K	0	12 58	8		
RENO	37.18	87.7	7 14	1				
LICK	37.34	92.1	7 14K	0				9 33 PCP
TUKUBASAN	37.55	265.9	7 16K	0				
RESOLUTE	37.93	24.8	7 7	-12	13 7	-3		
BUTTE	38.20	74.1	7 20	-1				
MATUSIRO	38.53	267.8	7 23K	-1				
FRESNO	38.85	91.3	7 27K	0				
BOZEMAN	39.29	73.7	7 30	0				
EUREKA	39.63	85.0	7 33	0				9 39 PCP
TINEMAHA	39.66	89.7	7 35K	2				9 40 PCP
KING RANCH	39.80	93.0	7 35	0				9 40 PCP
WOODY	40.11	91.9	7 37K	0				7 52
ISABELLA	40.38	91.6	7 38K	-1				
CHINA LAKE	40.83	90.7	7 44K	1				9 44 PCP
SALT LAKE C.	41.46	80.6	7 49	1				
PASADENA	41.54	93.1	7 49K	0	13 35	-29		17 47
RIVERSIDE	42.14	92.7	7 55K	1				9 49 PCP
BOULDER CITY	42.47	88.4	7 57	0				
HAYFIELD	43.43	91.6	8 4K	0				9 52 PCP
BARRETT	43.45	93.5	8 4K	-1				9 51 PCP
THULE	43.80	19.4	8 0	-7				
RAPID CITY	44.86	71.3	8 15	-1				
BOULDER	45.94	77.2	8 24	0				
TUCSON	47.41	89.3	8 36	0				
IRKUTSK	49.47	306.4	8 51	-1				
ULAN-BATOR	50.64	300.5	8 59	-2				
LUBBOCK	52.16	81.4	9 12	0				
TRUK	53.20	228.2	9 19	-1				
FAYETTEVILLE	55.21	73.9	9 33K	-2				
SCORESBY SD.	56.64	11.9	9 45	0	17 37	2		19 42 SCS
OTTAWA	59.38	54.6	10 3K	-2	18 13	2		
SHAWINIGAN	60.08	52.0	10 7K	-2				
APATITY	60.17	349.4	10 10	0	18 18	-3		
BREBEUF	60.38	53.3	10 10	-1				
KIRUNA	61.01	355.0	10 14K	-2				10 29
SODANKYLA	61.03	352.2	10 14	-2				
KOROR	62.46	245.4	10 24	-1				11 5 PCP
PALISADES	63.40	57.1	10 30A	-2	18 59	-3		10 53 PCP
WESTON	63.77	54.5	10 33	-1				
SVERDLOVSK	64.22	331.3	10 36	-1				
COLUMBIA	64.45	67.0	10 37	-1				
SKALSTUGAN	65.56	358.3	10 45	-1				
HALIFAX	65.91	48.2	10 47	-1				
HELSINKI	68.26	351.4	11 3	0				11 35 PCP
UPPSALA	69.11	355.3	11 7K	-1				11 22
FRUNSE	70.33	314.6	11 16	1	20 29	3		
NAMANGAN	73.15	315.3	11 32	0	20 59	1		
COPENHAGEN	73.48	357.9	11 35K	1				

DURHAM	74.08	6.3	11 18K	-20				
SHILLONG	74.67	291.6	11 44K	3				
BERMUDA	74.75	57.2	11 42	0	21 20	4		14 35 PP
RATHFARNHAM	75.13	9.3	11 45A	1			12 0	
HAMBURG	75.63	359.3	11 49	2				
WITTEVEEN	76.37	1.4	11 53	2				
WARSAW	76.47	352.3	11 51K	0	21 38	3		12 12
POTSDAM	76.77	357.3	11 53	0	21 42	2		
KEW	77.45	5.9	11 57	0	21 49	3		
HALLE	77.68	358.0	11 59	1	21 51	3		12 24
BENSBERG	78.24	1.1	12 2	1				12 17
JENA	78.26	358.2	12 1	0				
LWOW	78.55	350.0	12 3	0	21 58	0		
PLAUEN	78.67	357.8	12 2	-2				12 16
WARSAK DAM	78.90	311.2	12 5	0				
PRAGUE	79.03	356.3	12 5	-1				13 24
CHEB	79.09	357.7	12 7	1	22 9	6		13 54
LAHORE	79.54	307.8	12 6K	-2				
PARIS	80.26	4.3	12 14K	2	22 19	4		22 31 SCS
STUTTGART	80.44	359.8	12 13K	0	22 20	3		12 29 PCP
STRASBOURG	80.63	0.7	12 15	1	22 23	4		12 21 PCP
KISHINEV	80.69	346.3	12 14	0				
BRATISLAVA	80.79	354.4	12 15	0				12 30
EBINGEN	81.03	359.9	12 17	1				12 32 PCP
SIMFEROPOL	81.79	342.2	12 21	1	22 36	5		
SOTCHI	81.90	337.9	12 20	-1	22 34	2		
TIFLIS	82.33	333.7	12 24	1	22 41	4		
ZAGREB	83.20	355.0			22 38	-8		32 26
CLERMONT-FD.	83.32	4.0	12 29K	1				
BUCHAREST	83.63	347.6	12 36	6	22 55	5		
BELGRADE	83.87	351.7	12 31A	0				
QUETTA	84.23	312.4	12 33K	0	22 56	0		15 51 PP
FLORENCE X.	85.41	358.3	12 37K	-2	23 16	8		13 22
MONACO	85.48	1.0	12 39	0				
ISTANBUL KA.	86.46	344.8	12 44	0	23 20	2		
ROME	87.26	357.3			23 28	3		
KARACHI	87.85	310.0	13 5	15				
TOLEDO	88.63	9.9	12 54	0				16 18 PP
MESSINA	90.82	354.7			23 12	-46		
MALAGA	91.72	10.6	13 8K	-1				
KSARA	92.09	337.7	13 18	8				25 18 PS
JERUSALEM	94.20	337.7	13 21	1				
HELWAN	96.91	340.5	13 33	1				13 48
CAPE HALLETT	123.85	186.7	18 56K	-2				
LWIRO	128.44	334.2	19 10A	3				
SCOTT BASE	129.47	185.9	16 38	-151				
BYRD STATION	134.17	169.0	19 14	-4				
PRETORIA	150.63	322.5	19 50	4				

AUGUST 20 6.H 27.M 8.S EPICENTRE -10.24 160.76 DEPTH= 0.KM

A=-0.92933 B= 0.32427 C=-0.17664 D= 0.3295 E= 0.9442
G= 0.1668 H=-0.0582 K=-0.9843 HT= 6.5

SE= 2.48

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
RABAUL	10.42	304.5	2 54	20				5 27
NOUMEA	13.17	156.3	3 11K	0	5 42	3		3 26 PP
BRISBANE	18.63	202.0	4 19	-2	7 56	9		
SUVA	18.83	116.6	4 22	-1	7 55	4		8 19 SS
TRUK	19.71	332.9	4 35	1	8 8	-3		8 31 PCP
MADANG	21.41	315.2	3 52	-59				
RIVERVIEW	25.08	199.1	5 27	0	9 54	4		6 21 PPP
ONERAHI	28.26	156.2	5 58	1				
GUAM	28.42	325.7	6 0	2				8 42 PCP
AUCKLAND	29.39	156.7			11 27	27		
MELBOURNE	30.93	204.8	6 23	2	11 27	2		7 52 PPP
KOROR	31.46	302.7	6 27	2				
WELLINGTON	33.29	160.6			14 30	148		
ROXBURGH	35.94	169.7	8 37	93	12 41	-2		
PERTH	46.74	235.5	8 37	4				18 54 SS
BAGUIO CITY	47.77	303.3	8 42	1	8 58	-399		
TUKUBASAN	50.15	338.2	8 55	-4				10 40 PCP
MATUSIRO	51.15	336.6	9 3	-4	16 21	-3		21 14

DJAKARTA	53.49	269.9	9 24	0	16 51	-5	
TERRE ADELIE	58.01	188.9	9 54	-3	17 56	-1	
VLADIVOSTOK	59.28	335.7	10 19	13			
CAPE HALLETT	62.28	176.7	10 23A	-3			
CHANGCHUN	62.72	331.8	10 26	-3			
PETROPAVLOVK	63.14	358.6	10 28	-4	18 57	-5	
KUNMING	66.57	303.0	10 56	2			
SCOTT BASE	67.67	178.6	10 59	-2			
OASIS-BUNG.	68.83	202.2	11 8	0	20 12	0	
MAGADAN	70.02	354.6	11 12	-3			
LANCHOW	70.65	314.0	11 22	3			
MIRNY	71.88	202.9	11 26	-1	20 48	1	
ULAN-BATOR	74.95	325.8	11 41	-4	21 19	-3	
LHASA	77.88	303.4	12 2	1	21 52	-2	
BYRD STATION	78.19	169.9	12 1	-2	21 58	1	14 0
IRKUTSK	78.76	328.5	12 4	-2	22 1	-2	
COLOMBO	82.32	278.4			22 42	2	
COLLEGE	84.12	19.6	12 34	0			
TIKSI	84.41	350.3	12 31	-4	22 56	-5	
SITKA	84.92	29.5	13 6	28			
BERKELEY	86.13	50.6	12 46	2	23 10	-8	38 52
LICK	86.45	51.3	12 49	3			
SHASTA	86.81	47.9	12 45	-2			
MINERAL	87.30	48.4	12 57	7			
FRESNO	87.73	52.2	12 52	0			
WOODY	88.20	53.4	12 53	-1			
VICTORIA	88.37	40.2	12 53A	-2			
PASADENA	88.39	55.0	12 54A	-1	23 51	11	16 26 PP
ISABELLA	88.50	53.5	12 55	-1			13 10
HORSESHOE B.	88.72	39.4			23 29	-14	
DEHRA DUN	88.90	300.9			23 42	-2	
RIVERSIDE	88.99	55.3	12 59A	1			
TINEMAHA	89.02	52.2	12 57A	-1			
CHINA LAKE	89.23	53.5	12 58A	-1			13 15
BARRETT	89.28	56.8	13 1	2			
HAYFIELD	90.35	55.9	13 8	4			
EUREKA	91.29	50.2	13 7	-2			
BOMBAY	91.34	288.8					18 26
BOULDER CITY	91.46	53.9	13 11	2			
BANFF	93.97	38.8	13 23	2			
FRUNSE	94.11	312.7					13 54
HUNGRY HORSE	94.40	41.8	13 26	3			
KARACHI	97.71	294.8					15 26
QUETTA	98.34	299.2	13 43	2	25 7	1	17 48 PP
RESOLUTE	103.60	15.4			25 52	2	18 16 PP
SVERDLOVSK	104.05	326.1			25 50	-4	
MAKHACH-KALA	113.91	312.5					19 11
TIFLIS	116.09	311.5					20 26
SCORESBY SD.	119.79	1.1					19 57 PP
OTTAWA	120.55	43.0	18 59	5	25 54	2	20 20 PP
SIMFEROPOL	122.79	317.3					20 12
PALISADES	123.10	47.5			26 4	4	20 32 PP
KSARA	124.51	304.0	19 2	1			20 52 PP
KISHINEV	125.37	321.4					21 18
LWOW	126.79	326.4					21 41
WARSAW	126.96	330.2			26 18	6	22 31 PKS
ISTANBUL KA.	127.63	314.5					21 20
COPENHAGEN	128.31	337.7					38 29 SS
HELWAN	129.09	300.2					21 19
POTSDAM	130.51	334.5					21 28
LWIRO	130.60	258.1					24 15
JENA	132.20	334.0	19 20	4			21 35 PP
BERMUDA	132.72	55.2					21 40 PP
DURHAM	133.43	346.0					23 17
DE BILT	133.78	339.3					21 46 PP
STUTTGART	134.84	333.6	19 24	3			22 5 PP
EBINGEN	135.38	333.2	19 18	-4			
STRASBOURG	135.60	334.5					22 28 PP
TARANTO	135.88	319.3			26 52	20	22 7 PP
KEW	136.07	343.0					21 20 PP
FLORENCE X.	137.41	327.1					23 6 PKS
PARIS	137.48	338.8	19 18	-8			21 24 PP
PAVIA	137.49	330.1					22 43 SKP
ROME	137.95	324.1					22 48 SKP
MESSINA	138.22	317.6					23 8 PKS
CLERMONT-FD.	139.76	335.7					23 9 SKP
ALGIERS UNI.	146.78	326.2	19 44	2			19 53 PKP2
TOLEDO	147.54	337.9	19 48	5			

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GRANADA	149.69	334.7	20 24	37	27 51	58	31 18 SKKS
MALAGA	150.42	335.4					24 23 PP
TAMANRASSET	153.24	300.9	19 57	5			20 33 PKP2
MBOUR	175.33	331.9			27 14	1	25 40 PP

AUGUST 20 12.H 1.M 55.S EPICENTRE -10.35 161.08 DEPTH= 0.KM

A=-0.93076 B= 0.31910 C=-0.17849 D= 0.3243 E= 0.9460
G= 0.1688 H=-0.0579 K=-0.9839 HT= 6.5

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
RABAUL	10.74	304.0	2 45	7				3 2 PP
NOUMEA	12.95	157.2	3 9K	1	5 43	9		3 24 PP
SUVA	18.51	116.7	4 20	1	8 0	16		
BRISBANE	18.65	202.9	4 19	-2	7 56	9		
TRUK	19.94	332.2	4 33	-3	8 15	-1		8 37 PCP
MADANG	21.70	314.8	3 49	-65				
RIVERVIEW	25.08	199.8	5 27K	-1	9 49	-1		6 5 PP
ONERAHI	28.04	156.6	5 57	2				
GUAM	28.68	325.3	6 1	0				6 36 PP
AUCKLAND	29.17	157.0	6 55	50	10 56	-1		
KARAPIRO	30.37	157.0	6 19	3				
MELBOURNE	30.96	205.3	6 22	1	11 26	1		7 48 PPP
TONGARIRO	31.49	158.2	6 26	0				
WELLINGTON	33.09	160.9	6 37	-3				
GEBBIES PASS	34.71	165.2	6 55	1				
ROXBURGH	35.78	170.1			12 37	-3		
PERTH	46.93	235.7	8 38	4				15 36
BAGUIO CITY	48.09	303.1	8 44	1				
TUKUBASAN	50.36	337.9	8 58	-3	16 16	2		16 25 PPS
ABUYAMA	51.05	332.9	9 4	-2				
KIPAPA	51.09	51.6	9 6	0				
KYOTO	51.11	333.2	9 7	1				
MATUSIRO	51.37	336.4	9 2	-6	16 23	-4		11 27
TERRE ADELIE	57.95	189.0	9 53	-3	17 51	-5		
CAPE HALLETT	62.16	176.8	10 20A	-5	18 28	-22		26 11
CHANGCHUN	62.96	331.6	10 32	1				
PEKING	65.12	323.3			19 24	-3		
KUNMING	66.89	302.9	10 59	3	19 49	0		
OASIS-BUNG.	68.85	202.2	11 8	0	20 10	-2		
MAGADAN	70.15	354.5	11 13	-3	20 26	-1		
LANCHOW	70.95	313.9	11 23	2	20 32	-4		
MIRNY	71.90	203.0	11 25K	-2	20 46	-2		
ULAN-BATOR	75.21	325.7	11 47	1				
BYRD STATION	78.04	169.9	11 59	-3	21 57	1		15 9 PP
IRKUTSK	79.01	328.4	12 3	-4	22 2	-4		
COLOMBO	82.64	278.4						14 7
COLLEGE	84.12	19.5	12 33	-1				
TIKSI	84.57	350.2	12 37	1				
UKIAH	85.60	49.1	12 44	3				
BERKELEY	85.96	50.5	12 41A	-2	23 13	-4		28 35 SS
SANTA CLARA	86.05	51.1						33 18
LICK	86.28	51.2	12 45A	0				16 34 PP
SHASTA	86.66	47.8	12 46A	-1				13 0
MINERAL	87.14	48.3	12 48	-1				16 37 PP
CORVALLIS	87.15	43.9	12 50	1	23 29	1		
KING RANCH	87.24	53.5	13 1	12				
FRESNO	87.55	52.1	12 54A	3				
WOODY	88.02	53.3	12 52	-1				13 6
PASADENA	88.20	55.0	12 54A	0	23 34	-4		16 22 PP
RENO	88.25	49.4	12 56	2				
VICTORIA	88.26	40.1	12 52A	-2				
ISABELLA	88.32	53.5	12 53	-2				13 6
HORSESHOE B.	88.60	39.3	12 55	-1				23 24
SEATTLE	88.72	41.1	12 59	2	23 29	-14		25 29
RIVERSIDE	88.80	55.3	12 57	0				
TINEMAHA	88.84	52.1	13 12A	15				
CHINA LAKE	89.05	53.5	12 57	-1				13 10
BARRETT	89.09	56.7	12 58	0				13 8
DEHRA DUN	89.22	300.9			23 43	-4		
EUREKA	91.12	50.2	13 5	-3				16 57 PP
BOULDER CITY	91.28	53.8	13 8	-1				16 48 PP
BOMBAY	91.67	288.8			23 42	-27		

TUCSON	93.84	58.1	13 21	1	24 23	-5		25 45 PS
BANFF	93.86	38.8	13 19	-1				
HUNGRY HORSE	94.28	41.8	13 25	3				
FRUNSE	94.41	312.6	13 24	1				
SALT LAKE C.	94.47	49.5	13 27	4				
BUTTE	94.84	44.3	13 27	2				
BOZEMAN	95.83	44.8	13 33	4				
NAMANGAN	96.25	310.4	13 27	-4				
QUETTA	98.66	299.1	13 43	1	24 15	-54		26 40 PS
RAPID CITY	101.21	47.0	13 55	1				
RESOLUTE	103.62	15.4			24 4	-107		17 59 PP
SVERDLOVSK	104.31	326.1						18 27 PP
FAYETTEVILLE	107.90	55.4	18 31	777				
ST. LOUIS 1	110.97	52.6	18 33	-2				19 12 PP
TIFLIS	116.39	311.5						19 30 PP
BOSQUE ALEG.	119.62	135.4	17 51	-61				
HUANCAYO	119.71	110.3	19 9	17				30 20 PS
SCORESBY SD.	119.89	1.2						20 33 PP
OTTAWA	120.42	43.1	18 56	3				30 7 PS
SHAWINIGAN	121.99	41.1	18 59	2				19 10
PALISADES	122.95	47.6			25 47	-13		20 31 PP
FORDHAM	123.02	47.8						43 22
LA PAZ	124.49	118.2	19 17	16				20 57 PP
KSARA	124.82	304.0	19 2	0				20 58 PP
KISHINEV	125.65	321.4						21 36
WARSAW	127.21	330.3						21 12 PP
ISTANBUL KA.	127.93	314.6	19 13	5				23 42 PKS
COPENHAGEN	128.53	337.9						21 19 PP
HELWAN	129.41	300.2						19 13
LWIRO	130.88	257.9	19 21	7				21 34 PP
BRATISLAVA	131.71	328.2	19 18	3				22 22 PP
JENA	132.43	334.2	19 20	3				22 2 PP
BERMUDA	132.53	55.3	19 23	6	27 33	67		21 41 PP
SONNEBERG	133.00	333.9	19 18	0				
DURHAM	133.61	346.2	19 34K	15	26 30	2		22 28 PP
DE BILT	133.99	339.5						22 35 PKS
STUTTGART	135.07	333.8	19 21	0	35 39	548		22 1 PP
TRIESTE	135.09	327.6						23 0 PKS
KARLSRUHE	135.22	334.6	19 23	1				21 31
EBINGEN	135.61	333.4	19 23	1				
STRASBOURG	135.83	334.7	19 25	2	26 55	23		21 57 PP
RATHFARNHAM	135.97	349.1	19 22A	-1				22 48 SKP
KEW	136.27	343.2	19 27	3				21 53 PP
FLORENCE X.	137.66	327.3	19 38	12	26 35	0		23 0 PKS
PARIS	137.69	339.0	19 24	-2	26 42	7		22 22 PP
ROME	138.22	324.3			26 39	3		22 21 PP
MESSINA	138.50	317.7			26 9	-28		22 19 PP
CLERMONT-FD.	139.98	335.9						23 19 SKP
CUGLIERI	141.58	325.3						24 25
ALGIERS UNI.	147.04	326.5	19 44	1				23 23 PP
ALICANTE	147.59	332.4	19 41	-2	26 48	-2		26 30 PPP
TOLEDO	147.75	338.3	19 46	2				23 22 PP
RELIZANE	149.14	328.1	19 50	4				19 59 PKP2
GRANADA	149.92	335.1	21 22K	95				23 36 PP
MALAGA	150.64	335.7	19 57K	9				28 31 PP
TAMANRASSET	153.56	300.9	19 53	0	27 40	42		23 45 PP
MBOUR	175.56	334.7	20 18	6	27 17	4		25 35 PP

AUGUST 20 15.H 21.M 9.S EPICENTRE 36.67 71.24 DEPTH= 227.KM

DEPTH OF FOCUS= 0.031R

A= 0.25855 B= 0.76126 C= 0.59467 D= 0.9469 E=-0.3216
G= 0.1912 H= 0.5631 K=-0.8040 HT= -0.5

SE= 1.93

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KHOROG	0.85	19.5	0 34	2	0 57	-1		
KULYAB	1.69	316.8	0 39	0	1 7	-1		
OBI-GARM	2.36	329.3	0 44	-1	1 16	-4		
YALMICH	2.47	345.6	0 45	-1	1 18	-4		
DZHERGETAL	2.54	359.6	0 48	1	1 21	-2		
KARA-SU	2.54	315.8	0 47	0	1 19	-4		
WARSAK DAM	2.68	174.5	0 46	-2	1 19	-7		
STALINABAD	2.71	314.4	0 47	-2	1 20	-6		

MURGAB	2.73	50.8	0 50	1	1 28	1		
GISSAR	2.78	311.0	0 53	4	1 27	-1		
FERGANA	3.72	6.4	1 1	1	1 46	-1		
ANDIJAN	4.16	11.9	1 7	1	1 55	-1		
NAMANGAN	4.31	4.3	1 9	2	1 58	-2		
SAMARKAND	4.50	313.0	1 9	-1	1 51	-13		
TASHKENT	4.88	342.4	1 15	0	2 9	-3		
LAHORE	5.72	152.5	1 22K	-3	2 24	-7		2 13 *SP
TCHIMKENT	5.76	347.8	1 25	-1	2 28	-4		1 40
NARYN	6.02	36.5	1 28	-1	2 34	-4		2 18
FRUNSE	6.71	21.5	1 38	0	2 53	-1		2 33
RYBACHE	6.87	31.5	1 40	0	2 55	-3		1 54
BAIRAM-ALI	7.34	280.0			3 1	-7		2 32
QUETTA	7.40	210.2	1 45A	-2	3 5	-5		
FABRICHNAYA	7.61	29.8	1 49	0	3 13	-1		
PRZHEVALSK	8.01	41.4	1 55	1				
ALMATA-2	8.09	33.6	1 52	-3	3 23	-3		
DEHRA DUN	8.51	136.2	2 0	-1	3 33	-2		3 43 SS
ILI	8.52	29.7	1 59	-2				2 29
ASHKABAD	10.35	280.9	2 22	-2	4 11	-6		4 40
KARACHI	11.39	199.5	2 46	8	4 54	13		3 29 *SP
KIZYL-ARVAT	12.07	285.8	2 43	-3	4 50	-7		3 26
SEMIPALATNSK	15.18	22.5	3 25	0				
CHATRA	16.71	121.5	3 42	-1	6 47	7		
BAKU	17.10	289.0	3 51	4				7 0
POONA	18.22	172.1	3 58	-1	7 20	9		7 36 SS
MAKHACH-KALA	19.26	296.4	4 10	1				5 4
GORIS	19.79	285.8	4 15	0				5 18
SHILLONG	20.80	116.3	4 26K	1	8 6	8		4 48 PP
TIFLIS	21.06	292.0	4 28	1				5 6
SVERDLOVSK	21.38	343.9	4 33	3	8 15	6		9 19
TOCKLAI	22.28	109.7	4 38	-1				
SOTCHI	24.97	295.8	5 4	-1			5 46	10 33 SS
IRKUTSK	27.98	45.6	5 32K	0				11 39 SS
ULAN-BATOR	28.43	55.5	5 38	2				
KYAKHTA	28.67	50.3	5 38K	0			6 25	
KSARA	28.92	274.9	5 44	4	9 19	-54	6 28	6 48 PP
SIMFEROPOL	29.08	298.2	5 41	-1			6 24	12 3 SS
JERUSALEM	30.07	271.3	5 51	1				
ISTANBUL KA.	32.89	290.8	6 13	-2			6 53	
IASI	33.75	302.0	6 28	6				8 2
HELWAN	33.87	270.2	6 23A	0				7 51
PULKOVO	34.88	324.6	6 31	-1	11 44	-1		7 45 PP
LWOW	36.22	306.4	6 44	1				7 56
APATITY	37.53	337.3	6 54	0	12 28	2		
KRAKOW	38.87	306.7	7 5	0				8 43 PP
SODANKYLA	39.66	334.8	7 12	0			7 59	
HONG KONG	39.69	99.0	7 13	1				
BRATISLAVA	40.80	303.9	7 21	0				8 35
UPPSALA	41.05	321.8	7 22A	-1				
KIRUNA	42.01	333.9	7 31A	0				
PRAGUE	42.41	306.9	7 35	1				8 29 *SP
POTSDAM	43.13	310.4	7 41	1				8 29
CHEB	43.73	307.1	7 38	-7				9 5
PLAUEN	43.83	307.7	7 43	-2				10 12
JENA	44.16	308.4	7 47	-1			8 36	9 27 PP
SKALSTUGAN	44.17	326.6	7 48A	0			8 36	
SONNEBERG	44.45	307.6	7 50	0			8 39	9 4
HAMBURG	44.94	312.2	7 55	1				
FLORENCE X.	45.47	298.4	7 58	0				9 11
TIKSI	45.54	22.0	7 57	-2				9 43 PP
STUTTGART	45.95	305.6	8 1	-1			8 52	9 15
EBINGEN	46.19	304.8	8 4A	0			8 58	
STRASBOURG	46.92	305.6	8 10	0			9 2	10 5 PP
BENSBERG	46.92	308.9	8 10	0				
PARIS	50.30	306.8	8 35	-1				9 50 PCP
CLERMONT-FD.	50.62	302.8	8 38	0				
KEW	51.46	310.7	8 44	0				
MATUSIRO	52.72	68.7	8 53	0				9 44
MAGADAN	54.13	38.2						9 55
RATHFARNHAM	54.56	314.0	8 12	-55				
LWIRO	55.27	235.1	9 12K	0				
TOLEDO	57.53	298.1	9 27	-1				10 19
TAMANRASSET	57.72	275.7	9 28	-1			10 20	11 41 PP
COLLEGE	74.27	16.2	11 17	3			12 12	
HUNGRY HORSE	95.22	3.5	13 56	57				
RIVERVIEW	102.26	123.0			25 22	32		
HUANCAYO	141.24	300.6						21 57 PP

AUGUST 22 7.H 55.M 6.S EPICENTRE 1.06 126.11 DEPTH= 0.KM

A=-0.58928 B= 0.80772 C= 0.01845 D= 0.8079 E= 0.5894
G=-0.0109 H= 0.0149 K=-0.9998 HT= 7.2

SE= 2.53

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
MAMBAJAO	8.15	356.4	1 24	-39	3 2	-35		
KOROR	10.41	53.0	2 36	2	4 42	9		3 2
MANILA	14.36	339.6	3 35	8	6 29	21		
BAGUIO CITY	16.20	340.6	3 54	3	7 19	28		
DJAKARTA	20.55	249.3	5 12	29	9 46	77		
GUAM	22.19	55.4	4 59	-1	9 11	11		
HONG KONG	24.10	332.0	5 18	0				5 37
CANTON	25.18	331.3	5 30	1	9 53	1		
TRUK	26.43	75.3	5 38	-2				
RABAUL	26.56	101.5	5 41	-1				6 57
NAGASAKI	31.70	6.1	6 22	-6				
KUNMING	32.88	318.4	6 40	2	11 55	-1		
ABUYAMA	34.77	13.7	6 54	0	12 26	1		
KYOTO	34.95	13.8	6 54A	-2	12 26	-2		
CHENGTU	36.14	326.6	7 5	-1	12 40	-6		
MATUSIRO	37.05	16.3	7 13A	-1	12 54	-6		8 40 PP
TUKUBASAN	37.31	18.8	7 15	-1	12 58	-6		
BRISBANE	38.41	139.7			12 59	-22		8 59 PP
SENDAI	39.44	18.4	7 35	1				
PEKING	39.83	348.1	7 37	0				
LANCHOW	40.52	331.8	7 43	0	13 48	-5		17 48 SCS
SHILLONG	41.03	309.3	7 49A	2				
RIVERVIEW	41.94	148.2	8 5K	11	14 13	-1		17 12 SS
MELBOURNE	42.44	157.7	7 59	1				
CHANGCHUN	42.59	359.1	8 0	0				
LHASA	43.82	313.7	8 11A	1	14 39	-2		18 8 SCS
CHATRA	45.32	307.8	8 23	1				
Y.-SAKHLINSK	47.94	15.3	8 43	0				
ULAN-BATOR	49.55	343.1	8 55	0	16 0	-3		
DEHRA DUN	54.05	307.4	9 31	2				19 13
IRKUTSK	54.19	343.7	9 29	-1				
LAHORE	57.47	307.3	9 52K	-1	17 45	-5		
WARSAK DAM	60.54	309.0	10 15	0				
MAGADAN	61.41	14.0	10 21	0	18 43	2		
KARACHI	61.89	298.8	10 19	-5				
FRUNSE	61.99	319.3	10 23	-2	18 39	-9		
SEMIPALATNSK	62.63	328.9	10 26	-3				
QUETTA	63.06	303.5	10 29K	-3	18 53	-9		11 8 PCP
NAMANGAN	63.11	316.3	10 31	-1				
TERRE ADELIE	68.60	173.6	12 1	54				
OASIS-BUNG.	69.50	190.7	11 11	-2				
TIKSI	70.48	0.9	11 16	-3	20 23	-9		
MIRNY	71.44	193.3	11 23	-2				
KIPAPA	76.46	68.3	11 57	3				
CAPE HALLETT	78.36	167.4	12 2K	-2				
SCOTT BASE	81.80	172.0	12 22	0				
TIFLIS	82.80	311.8	12 28	0	22 47	1		
SOTCHI	86.65	313.4	12 46	-1				
COLLEGE	87.37	25.2	12 49	-1				
KSARA	89.61	303.6	13 2	1				16 29 PP
APATITY	90.05	337.4	13 1	-2				
JERUSALEM	90.21	301.6	13 4	0				
SODANKYLA	92.68	337.5	13 13	-2				
KIRUNA	94.91	338.5	13 25	-1				
UPPSALA	98.28	331.1	13 50K	9				
SKALSTUGAN	99.45	335.5	13 52	6				
RESOLUTE	100.53	10.2			24 23	-62		
HALLEY BAY	103.97	186.8	14 8	2				18 39 PP
SHASTA	105.46	47.2						18 33 PP
MINERAL	106.13	47.4	14 23	777				18 32 PP
STRASBOURG	107.54	322.2			26 24	82		19 0 PP
RENO	107.68	47.8						18 51
HUNGRY HORSE	108.56	37.6	13 29	777				18 34
TINEMAHA	109.59	49.9						18 54
BUTTE	110.42	39.4	18 25	-9				
CHINA LAKE	110.43	51.0	18 39	5				19 10

PASADENA	110.46	52.9	18 39	5	26 51	97		28 43 PS
EUREKA	110.52	46.9	18 51	16				14 38 P
PARIS	110.62	324.0						28 42 PS
RIVERSIDE	111.13	52.9						19 5
BOZEMAN	111.53	39.3	18 39	2				
BARRETT	112.07	54.0	18 43	5				
BOULDER CITY	112.52	50.1	18 41	3				
TUCSON	116.89	52.8	18 49	2				20 4 PP
RAPID CITY	117.19	37.9	18 47	-1				19 57 PP
RELIZANE	117.53	311.7	18 50	2				19 35 PP
TAMANRASSET	117.55	296.4	18 51	3				20 2 PP
BOULDER	117.84	42.7	18 50	1				
LUBBOCK	123.28	47.9	19 2	3				
FAYETTEVILLE	127.36	41.2	19 5K	-2				21 2
SHAWINIGAN	129.76	16.9	19 13K	1				
OTTAWA	129.85	20.0	19 12	0				
WESTON	133.98	18.0	19 22K	2				
PALISADES	134.34	21.2						22 37 PKS
BERMUDA	145.20	16.1	19 42	2				
HUANCAYO	156.09	118.1	20 1	5				20 30 PKP2
SAN JUAN	157.24	31.3	20 30	32				

AUGUST 22 16.H 43.M 37.S EPICENTRE -15.30 167.72 DEPTH= 0.KM

A=-0.94293 B= 0.20519 C=-0.26227 D= 0.2126 E= 0.9771
G= 0.2563 H=-0.0558 K=-0.9650 HT= 5.7

SE= 2.35

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
NOUMEA	7.06	189.6	1 54K	7	3 8	-1		2 10 PG
SUVA	10.64	106.9	2 55	18	4 51	13		
BRISBANE	18.25	226.0	4 18	2	7 40	2		
RABAUL	18.87	304.2	4 28	4	8 1	9		8 49 PCP
RAOUL ISLAND	19.18	138.7	4 33	5				
APIA	19.90	88.3	4 42	6				
KARAPIRO	23.56	164.4	5 13	0	9 29	5		
RIVERVIEW	23.76	216.1	5 16A	1	9 21	-7	5 39	5 58 PP
TONGARIRO	24.77	165.4	5 25A	1	9 37	-8		
TUAI	24.83	162.3	5 25	0	9 33	-13		
COBB RIVER	26.05	171.4	5 40	4				
WELLINGTON	26.60	168.1	5 40	-2	9 52	-23		
KAIMATA	27.31	174.0	5 47	-1				
GEBBIES PASS	28.61	172.5	5 57	-3				
MELBOURNE	30.14	217.6	6 14K	0				
KOROR	39.89	302.0	7 39	2				9 7 PP
KIPAPA	49.61	43.5	8 57	2				
TERRE ADELIE	54.32	192.5	9 30	0				
BAGUIO CITY	56.20	302.2			17 24	-9		
CAPE HALLETT	57.00	179.1	9 46A	-4	17 39	-4		
MATUSIRO	58.61	332.3	10 0	-1	17 50	-14		10 51 PCP
HONG KONG	64.41	304.3			19 12	-6		
CANTON	65.51	304.6			19 25	-7		
NANKING	66.43	315.7			19 37	-6		
OASIS-BUNG.	66.87	204.0	10 51	-5				
MIRNY	69.99	204.3	11 12	-3				
CHANGCHUN	70.45	328.8	11 17A	-1				
BYRD STATION	72.05	169.9	11 24	-4				12 19
PEKING	72.98	321.0	11 35A	2	20 51	-9		
KUNMING	75.00	301.6	11 44A	-1	21 14	-8		
MAGADAN	75.85	351.2	11 48	-2				
CHENGTU	76.40	307.4	11 53	0	21 27	-11		
LANCHOW	79.04	312.2	12 8A	1	21 58	-8		
ULAN-BATOR	82.97	323.7	12 27	-1				
BERKELEY	84.22	48.4	12 36	2				
SHILLONG	84.24	298.3	12 32A	-3				22 49
LICK	84.46	49.1	12 35K	-1				13 11
KING RANCH	85.08	51.5	12 39	0				13 11
SHASTA	85.30	45.8	12 39	-1				
FRESNO	85.58	50.2	12 42	1				
PASADENA	85.84	53.1	12 43	0	23 20	5		16 4 PP
WOODY	85.88	51.5	12 42A	-1				16 9 PP
LHASA	86.30	301.9	12 45	0				
RIVERSIDE	86.39	53.5	12 48	3				13 18
BARRETT	86.48	54.9	12 45	-1				13 18

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COLLEGE	86.73	17.4	12 43	-4				
TINEMAHA	86.86	50.4	15 49A	181				16 21
CHINA LAKE	86.88	51.7	12 48A	0				16 12 PP
BOULDER CITY	89.04	52.4	12 57	-1				13 32
EUREKA	89.39	48.8	12 59	-1				16 32 PP
TIKSI	90.60	348.5	13 1	-4				
QUETTA	106.70	297.4	18 28	777				
GRAHAMSTOWN	119.07	216.9	18 54	3				
OTTAWA	119.35	46.3	18 49	-2				
APATITY	120.07	341.5						18 50
SHAWINIGAN	121.19	44.6	18 53	-2				
PALISADES	121.23	51.1	18 41	-14				20 23 PP
SODANKYLA	122.17	343.3	18 54	-3				
KIMBERLEY	123.42	219.3	18 58K	-1				
KIRUNA	123.42	345.8	18 56	-3				
SAN JUAN	128.52	78.5	19 5	-4				
SKALSTUGAN	128.85	346.2	19 8	-2				22 18 PKS
UPPSALA	130.44	340.7	19 10	-3				22 24 PKS
KSARA	132.94	302.1	19 20	3				21 49 PP
JERUSALEM	133.85	299.5	19 14	-5				
HAMBURG	138.00	340.3	19 25	-2				
STUTTGART	142.26	336.7	19 29	-5				
EBINGEN	142.83	336.3	19 33	-2				
STRASBOURG	142.95	337.8	19 32K	-3				22 46 PP
BASLE	143.90	337.0	19 35K	-2				20 20
PARIS	144.45	343.2	19 37	-1				22 56 PP
NEUCHATEL	144.57	337.1	19 36	-2				20 36
BOLOGNA	144.68	330.3	19 34	-4				20 6
BESANCON	144.72	338.3	19 35	-4				22 55 PP
PAVIA	145.15	333.1	19 38	-1				35 14 PPS
FLORENCE X.	145.25	329.5	19 36A	-3				41 49 SS
OROPA	145.31	334.7	19 37	-3				20 45
ROME	145.97	326.0	19 40A	-1			20 14	42 36 SS
MESSINA	146.50	318.2	19 41	-1	26 49	0	19 56	23 17 PKS
CLERMONT-FD.	146.98	340.1	19 42	0				
MONACO	147.06	333.3	19 43	0				
GRANADA	156.89	342.1	20 28K	31				24 49 PP
MALAGA	157.55	343.2	19 54	-4				24 11 PP
TAMANRASSET	161.62	296.6	20 2A	0				24 25 PP

AUGUST 23 2.H 0.M 19.S EPICENTRE -5.51 153.96 DEPTH= 106.KM

DEPTH OF FOCUS= 0.011R

A=-0.89435 B= 0.43707 C=-0.09543 D= 0.4391 E= 0.8985
G= 0.0857 H=-0.0419 K=-0.9954 HT= 7.0

SE= 2.50

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
RABAUL	2.21	306.2	0 38	2				
TRUK	13.07	350.7	2 59	-3	5 13	-13		
NOUMEA	20.60	145.3	4 29	-3	8 9	-3		4 40 PP
GUAM	20.96	334.2	4 37	1	8 53	35	4 58	8 25 PCP
BRISBANE	21.86	182.2	4 44	-1	8 41	6		
KOROR	23.25	303.1	4 57	-1	9 12	13	5 21	6 25
SUVA	27.00	119.8	5 33	-1	9 59	-2		6 41 PP
RIVERVIEW	28.30	184.9	5 45	0				8 53
MELBOURNE	33.19	193.1	6 28K	0	12 22	43	6 37	6 43 *SP
ONERAHI	35.49	150.8	6 49	1	12 59	44		
AUCKLAND	36.58	151.4	7 1	4	12 31	0		13 15
KARAPIRO	37.77	151.7	7 5	-2	12 51	2		
MANILA	38.31	301.8	7 11	-1	13 3	5		
TONGARIRO	38.80	152.9	7 15	-1				
COBB RIVER	39.20	157.4	7 19	0	13 7	-4		
TUAI	39.24	150.9	7 20	1	13 45	33		
BAGUIO CITY	39.56	304.0	7 22	0	13 18	2		
KAIMATA	39.98	159.8	7 28	3	13 0	-23		
WELLINGTON	40.18	155.5	7 28K	1	13 52	26		9 28 PCP
GEBBIES PASS	41.45	159.4	7 34	-3				
ROXBURGH	42.07	163.9	7 43	0	13 32	-22		10 1 PP
HWALIEN	43.04	314.2	7 55	4	13 14	-54		
TUKUBASAN	43.50	343.7	7 55	1	14 17	3	8 24	
ABUYAMA	43.75	338.0	7 56	0	13 12	-66		
KYOTO	43.82	338.2	7 56	-1	14 12	-7		
PERTH	44.28	228.7	8 10	9	14 55	29		8 35

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MATUSIRO	44.36	341.8	7 54	-7	14 17	-10		
NAGASAKI	44.38	330.6	8 1	0	13 27	-60		
MIZUSAWA	45.98	346.1	8 36	22				
DJAKARTA	46.87	266.7	8 19A	-2	15 42	39		
HONG KONG	47.75	306.8	8 30	2	15 21	6		
ZO-SE	48.02	321.3	8 28	-2	15 20	1	8 52	15 56 *SS
CANTON	48.85	307.1	8 38A	2	15 38	8	9 1	16 19 *SS
NANKING	50.15	320.4	8 47A	1	15 53	4	9 10	10 1 PCP
VLADIVOSTOK	52.37	339.7	9 6	3				
Y.-SAKHLINSK	53.17	350.4	9 13	4				
KIPAPA	54.15	58.7	9 41	25				
CHANGCHUN	55.50	335.1	9 23A	-3	17 1	0	9 47	
PEKING	57.12	325.9	9 35A	-3	17 24	2		10 26 PCP
SIAN	58 05	316.3			17 37	2		
KUNMING	58 36	303.8	9 47A	1	17 45	6	10 11	10 34 PCP
PETROPAVLOVK	58.56	3.3	9 44	-4			10 8	18 27 *SS
CHENGTU	59 76	310.2	9 54	-2	18 0	3	10 18	10 38 PCP
LANCHOW	62.55	315.5	10 15	0	18 37	5	10 39	12 35 PP
MAGADAN	64.91	358.2	10 31	1				
ULAN-BATOR	67.32	327.7	10 44	-1				
CAPE HALLETT	67.48	174.7	10 45K	-1	19 58	25	11 22	13 16 PP
WILKES	67.64	197.6	10 46	-1	19 41	6		
SHILLONG	67.67	300.4	10 47A	-1	19 36	1		
LHASA	69.66	304.2	11 2A	2	20 2	4	11 26	20 46 *SS
IRKUTSK	71.28	330.4	11 7A	-3				
CHATRA	72.07	300.3	11 17	3	20 38	12		
SCOTT BASE	72.61	177.2	11 16	-1				
COLOMBO	74.95	278.6	11 33	2				21 43
HYDERABAD	77.91	289.0	13 14	86				16 44
TIKSI	78.74	352.1	11 48	-4	21 36	-3		14 50 PP
DEHRA DUN	80.70	301.8	12 14	11	22 45	45		23 34 PS
COLLEGE	82.09	21.5	12 6	-4	22 4	-10		22 53 PS
POONA	82.41	289.4	12 12	0	22 17	0		22 57 PS
BOMBAY	83.42	289.7	12 14	-3	22 29	1		15 54 PP
BYRD STATION	84.00	169.9	12 17	-3			12 42	13 3 *SP
LAHORE	84.07	302.4	12 24	4				
FRUNSE	85.97	313.6	12 29A	0	22 56	3	12 55	23 35 *SS
BERKELEY	88.46	51.9	12 43	2	22 58	-18		
SANTA CLARA	88.63	52.5	11 14	-88	23 1	-17		
SHASTA	88.76	49.1	12 43	0				
LICK	88.87	52.5	12 45A	2				
VICTORIA	89.22	41.3	12 48	3	23 27	4		24 29
MINERAL	89.31	49.5	12 43	-2				
HORSESHOE B.	89.44	40.4	12 43	-3	23 4	-21		29 29 SS
KARACHI	89.60	295.8	13 9	22	24 13	46		
TASHKENT	89.61	311.4	12 43	-4				23 28 SCS
STALINABAD	89.64	308.6	12 48	1	23 34	7		
SEATTLE	89.83	42.2	13 3	15	24 23	54		23 5 SKS
KING RANCH	90.14	54.7	12 52	3				13 17
QUETTA	90.15	300.1	12 48	-1	23 30	-2	13 14	16 12 PP
FRESNO	90.26	53.3	13 14	24				
LILLOOET	90.51	39.2	12 52	1				
RENO	90.57	50.5	13 16	25				
WOODY	90.90	54.4	12 52	-1				16 55 PP
ISABELLA	91.21	54.5	12 55	1				16 58 PP
PASADENA	91.30	56.0	12 56	1	23 48	6		16 53 PP
TINEMAHA	91.54	53.1	12 58	2				13 22
CHINA LAKE	91.93	54.4	12 59	1				17 2 PP
RIVERSIDE	91.94	56.2	12 57	-1				13 15
BARRETT	92.41	57.6	12 59	-1				13 16
HAYFIELD	93.37	56.6	13 7	3				13 21
EUREKA	93.52	50.8	13 3	-2				29 55 PKKP
BOULDER CITY	94.18	54.4	13 9	1				13 31
BANFF	94.57	39.2	13 10	0				
HUNGRY HORSE	95.42	42.0	13 11	-2				30 26 PKKP
SVERDLOVSK	96.40	326.5			24 21	-5	13 40	24 59 *SS
TUCSON	97.32	58.3	13 26	4				27 57
ASHKABAD	97.78	307.4	13 19	-5				17 21 PP
RESOLUTE	100.80	14.6						18 6 PP
BOULDER	101.75	50.4	17 6	204				
TIFLIS	107.93	312.0					14 36	25 26 SKKS
FAYETTEVILLE	110.86	53.6	18 35	15				
FLORISSANT	113.36	50.1			26 13	73		
ST. LOUIS 1	113.50	50.2			26 27	86		29 19 PKKP
SIMFEROPOL	114.76	317.3						19 30 PP
SCORESBY SD.	115.06	358.5						28 59 PS
KSARA	116.29	305.0	18 21	-10				19 43 PP
UPPSALA	116.48	337.1						35 33 SS
WARSAW	119.49	328.8						19 52

ISTANBUL KA.	119.53	314.5						19 54
BUCHAREST	120.29	319.1						22 35
KIMBERLEY	120.43	232.1	18 41	2				18 49
HELWAN	120.89	301.5						20 14
COPENHAGEN	121.33	335.6						20 19 PP
OTTAWA	121.44	39.0	18 40	-1				26 23 SKKS
SHAWINIGAN	122.68	36.7	18 45	2				
SEVEN FALLS	123.52	35.2			25 51	15		20 22 PP
PRAGUE	124.12	329.7	19 25	39				21 29
PALISADES	124.59	43.0	18 39	-8	25 35	-4		20 55 PP
JENA	124.95	331.9						21 2 PP
ABERDEEN	125.14	344.3						37 46
WESTON	125.67	40.4						20 55 PP
DE BILT	126.88	336.4						20 53 PP
DURHAM	127.07	342.5						21 0
TRIESTE	127.19	325.7						37 56 SS
STUTTGART	127.55	331.2	18 55	2				20 54 PP
HUANCAYO	127.98	109.8	18 58	5				
EBINGEN	128.06	330.8	18 55	1				
STRASBOURG	128.36	331.9			29 1	191		21 1 PP
HALIFAX	129.08	34.1	18 54	-2				30 53
KEW	129.45	339.4						22 7 PKS
RATHFARNHAM	129.69	344.7	18 53K	-4				
FLORENCE X.	129.75	325.2	18 54	-3				21 15 PP
PAVIA	129.99	327.8						21 11 PP
ROME	130.16	322.5	19 1	3				21 10 PP
MESSINA	130.19	316.8			26 39	44		23 4
PARIS	130.52	335.5	18 49	-9	26 6	10		21 18 PP
CHINCHINA	130.64	88.2	19 27	28				22 25 SKP
BOGOTA	132.16	88.8						22 33 SKP
CLERMONT-FD.	132.58	332.4	20 0	58				39 11 SS
LA PAZ	132.98	118.5	19 6K	3				21 57 PP
BERMUDA	135.14	48.5	19 37	30				22 6 PP
TORTOSA	137.56	329.8						22 50
SAN JUAN	138.87	68.4	19 16	2				22 51 PP
ALGIERS UNI.	139.05	323.4	19 2	-12				22 11 PP
RELIZANE	141.22	324.4	19 17	-1				22 36 PP
GRANADA	142.40	330.0	20 12K	52	27 11	54		22 29 PP
MALAGA	143.15	330.4	19 40A	19	26 48	30		22 32 PP
ANTIGUA	143.81	68.7	19 24	1				
ST. VINCENT	144.45	75.1	19 23	-1				
TRINIDAD	144.53	79.4	19 22	-2				
ST. LUCIA	144.57	73.6	19 24	0				
TAMANRASSET	145.04	302.5	19 25A	0				22 53 PP
BARBADOS	146.07	74.7	19 33	6				
MBOUR	167.45	315.3	19 56	3	27 34	42		24 53 PP

AUGUST 23 11.H 42.M 34.S EPICENTRE 24.15 121.89 DEPTH= 0.KM

A=-0.48254 B= 0.77563 C= 0.40688 D= 0.8491 E= 0.5282
G=-0.2149 H= 0.3455 K=-0.9135 HT= 3.6

SE= 3.13

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
HWALIEN	0.30	233.2	0 9K	-2	0 11	-7		
ILAN	0.63	348.6	0 18A	2	0 28	1		
TAIPEI	0.93	339.2	0 23A	3	0 38	4		
HSINCHU	1.05	307.8	0 25	3	0 38	0		
TAICHUNG	1.10	270.1	0 23K	0	0 34	-5		
HSINKONG	1.15	204.4	0 22	-1	0 42	2		
ALISHAN	1.18	237.9	0 22	-2	0 36	-5		
TAITUNG	1.55	206.0	0 31	2	0 47	-3		
TAINAN	1.91	233.4	0 36	2	0 58	-1		
TAWU	2.01	207.0	0 38	2	1 5	3		
KAOHSIUNG	2.13	224.5	0 49	12	1 27	22		
PENGHU	2.23	254.3	0 36	-3	1 0	-7		
HENGCHUN	2.39	206.3	0 47	6	1 19	8		
ZO-SE	6.95	355.0	1 43A	-3				
HONG KONG	7.33	257.0	1 46	-5				
BAGUIO CITY	7.79	189.3	1 59	2	4 5	38		
CANTON	7.96	264.0	1 55	-5	3 21	-11		
NANKING	8.33	341.6	2 3A	-2				
MANILA	9.56	185.3	2 32	10				
LINFEN	14.89	325.5	3 43	9				

SIAN	15.13	314.6	3 46	9			
TAIYUAN	15.74	331.9	3 49	4			
KYOTO	16.18	44.8	3 54	4			
PEKING	16.55	344.4	3 57	2	7 5	6	
KWANTING	16.88	343.2	4 4	5			
CHENGTU	17.14	296.1	4 1	-1	7 15	2	
TIENSHUI	17.46	310.2	4 8	1			
TATUNG	17.47	337.5	4 12	5			
KUNMING	17.49	276.9	4 6	-1	7 25	4	
MATUSIRO	18.71	44.9	4 20	-2	7 52	4	
PAOTOW	19.17	331.5	4 29	2			
YINCHUAN	19.50	320.7	4 31	0			
LANCHOW	19.60	311.5	4 33A	1	8 15	7	
TUKUBASAN	19.77	48.3	4 33	-1	8 30	18	5 28
CHANGCHUN	19.83	7.3	4 35	0			
KOROR	20.63	142.1	4 44	0	8 40	10	5 20
VLADIVOSTOK	20.64	21.2	4 45	1			
SINING	21.29	310.4	4 51	1			
WUWEI	21.40	314.4	4 52	0			
GUAM	24.07	112.1	5 18	0	9 19	-14	5 50 PP
TOCKLAI	24.61	281.8	6 27	64			
ULAN-BATOR	26.54	337.1	5 39	-2			
SHILLONG	27.25	279.3	5 57K	9			
IRKUTSK	31.11	339.0	6 19	-3	14 31	183	
CHATRA	31.39	282.3	6 20	-5			
TRUK	33.14	115.1	6 38	-2			
DEHRA DUN	39.27	288.9	7 34	2			13 27
RABAUL	40.79	129.7	7 42	-3			
SEMIPALATNSK	41.45	320.0	7 47	-3			
LAHORE	42.42	290.9	7 54	-4			
FRUNSE	43.02	307.6	8 2	-1	14 31	2	
WARSAK DAM	44.70	294.6	8 22	6			
NAMANGAN	44.90	304.5	8 17	-1	14 57	1	
TIKSI	47.67	3.0	8 36	-4	15 34	-2	
QUETTA	48.86	289.8	8 47	-2	15 53	0	10 13 PCP
KARACHI	49.43	284.1	8 50	-4			
SVERDLOVSK	54.45	323.7	9 27	-4	17 7	-3	
TIFLIS	65.00	306.4	10 43	-1			
APATITY	67.35	335.4	10 55	-4			
SOTCHI	68.29	309.2	11 1	-4	20 5	0	
COLLEGE	68.54	27.3	11 4	-2			
SODANKYLA	69.95	335.8	11 12	-3			11 32 PCP
KIRUNA	72.09	337.0	11 26A	-2			
HELSINKI	72.70	328.7	11 34	2			11 43
KSARA	73.84	300.2	11 39	1			14 18 PP
UPPSALA	76.25	329.8	11 49	-3			
SKALSTUGAN	76.89	334.4	11 54	-2			
HELWAN	78.82	297.7	12 4A	-2			12 11
RACIBORZ	80.10	320.5	12 26	13			
PRAGUE	82.27	321.7	12 41	16			13 49
JENA	83.43	323.3	12 28	-3			15 47
STUTTGART	85.87	322.3	12 38	-5			
HORSESHOE B.	86.72	36.4	12 46	-1			
VICTORIA	87.12	37.2	12 49	0			
FLORENCE X.	87.29	317.3	12 47	-3			
ROME	87.47	315.2					16 15 PP
SEATTLE	88.23	37.5	12 57A	3			
BANFF	89.63	32.0	13 1A	0			
TERRE ADELIE	91.88	172.4	12 33	-38			
SHASTA	92.13	43.3	13 13K	0			13 44
MINERAL	92.82	43.2	13 16	0			
RENO	94.41	43.1	13 24	1			
BUTTE	94.49	34.7	13 23	0			
LICK	94.52	45.7	13 24K	0			
FRESNO	96.05	45.3	13 31	0			
EUREKA	96.80	41.3	13 35	1			
TINEMAHA	96.89	44.3	13 36	2			
KING RANCH	96.93	46.4	13 38	3			
WOODY	97.29	45.7	13 34	-2			
ISABELLA	97.57	45.6	13 38	1			
CHINA LAKE	98.04	45.0	13 40	0			
PASADENA	98.67	46.6	13 44	2			
TAMANRASSET	102.58	302.1	14 24	24			18 8 PP
PALISADES	113.53	13.0					19 28 PP
HUANCAYO	159.71	56.6					20 43 PKP2

AUGUST 23 22.H 51.M 11.S EPICENTRE -7.15 111.77 DEPTH= 86.KM

DEPTH OF FOCUS= 0.008R

A=-0.36795 B= 0.92158 C=-0.12373 D= 0.9287 E= 0.3708
G= 0.0459 H=-0.1 49 K=-0.9923 HT= 6.9

SE= 2.75

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
DJAKARTA	5.00	280.9	1 11	-3	2 32	21		
MEDAN	16.86	308.8	3 55	4	6 52	-3		
MANILA	23.45	22.9	5 2	0	7 11	-114		
BAGUIO CITY	24.99	20.4	5 16	-1	9 54	23		
KOROR	26.84	58.0	5 32	-2			5 51	6 44 PP
HONG KONG	29.37	4.5	5 57A	1	11 6	24		
CANTON	30.08	2.8	6 4	1				
KUNMING	33.21	344.8	6 34A	4				
COLOMBO	34.74	293.0						16 9
SHILLONG	37.85	329.9	7 24A	15	13 15	21		
CHENGTU	38.33	349.2	7 15A	2	13 10	9		
GUAM	38.64	58.0	7 14	-2				
ZO-SE	39.09	12.9	7 21A	1				
NANKING	39.56	9.4	7 25	1	13 28	8		
CHATRA	41.35	325.7	7 35	-3				
LHASA	41.66	332.4	7 43A	2	14 1	10		
TRUK	42.53	70.8	7 46	-2				
MELBOURNE	42.86	140.4	7 52	1				
NAGASAKI	43.25	22.5	9 28	94				
LANCHOW	43.65	350.7	8 0A	3	14 31	11		
BRISBANE	43.99	122.5	8 1A	1				
RIVERVIEW	45.01	131.7	8 16	8				
PEKING	47.12	4.6	8 26A	1				
DEHRA DUN	49.34	320.7	8 48	6				19 26
MATUSIRO	50.06	27.9	8 45A	-2	16 6	15		19 57 SS
CHANGCHUN	52.21	12.4	9 3	-1				
LAHORE	52.53	319.2	9 0	-6				
VLADIVOSTOK	53.28	18.3	9 11	-1				
ULAN-BATOR	55.00	356.0	9 24	0				
WARSAK DAM	55.90	319.6	9 28	-3				
QUETTA	56.79	313.2	9 34A	-3	17 24	2		11 44 PP
WILKES	58.97	180.6			18 3	13		
OASIS-BUNG.	59.42	185.2	9 52	-3				
IRKUTSK	59.53	354.7	9 55	-1				
FRUNSE	60.18	329.2	10 0	-1	18 6	0		
NAMANGAN	60.40	325.9	10 1	-1	18 13	5		
MIRNY	60.70	188.5	10 2	-2				
TERRE ADELIE	62.93	167.3	10 14	-5				
TANANARIVE	63.35	252.5	10 24A	2				10 56 PCP
SEMIPALATNSK	63.49	338.0	10 21	-2				
PETROPAVLOVK	71.94	27.6	11 15	0				
MAGADAN	73.37	19.6	11 24	0				
SCOTT BASE	76.02	169.7	11 39	0				
SVERDLOVSK	76.18	333.8	11 36	-4				
TIFLIS	77.96	315.2	11 50	0	21 42	7		
TIKSI	79.43	5.4	9 55	-123				
PRETORIA	81.17	245.1	12 8	1				
GRAHAMSTOWN	82.11	237.4	12 18	6				
KSARA	82.36	305.5	12 14	1	22 15	-6		
LWIRO	82.75	268.6	11 19	-56				11 36
SOUTH POLE	82.89	180.0	12 16	0			12 33	
KIMBERLEY	83.97	241.9	12 20	-1				
HELWAN	85.30	300.7	12 27	-1				
SIMFEROPOL	86.35	316.0	12 43	10				
BYRD STATION	89.22	172.2	12 48	1				13 46
HELSINKI	94.55	330.0	13 13	2				
KIRUNA	97.08	337.5	13 19	-4				
UPPSALA	98.22	329.4	13 27A	-1				
SKALSTUGAN	100.59	333.3	13 39	0				
TAMANRASSET	107.69	291.6						18 43 PP
PARIS	108.02	319.0						12 44
SHASTA	121.48	46.3	16 11	-152				
LICK	123.11	49.8	18 49K	3				
HUNGRY HORSE	123.62	35.0	18 49	2				16 20 P
KING RANCH	125.19	51.5	18 53	3				
WOODY	125.75	50.8	15 42	-189			16 2	20 45 PP
TINEMAHA	125.77	49.0	18 54	2				15 46 P

ISABELLA	126.06	50.7	18 54	2				15 41 P
EUREKA	126.50	45.4	18 56	3				15 50 P
CHINA LAKE	126.68	50.3	15 39	-194				20 49 PP
BOZEMAN	126.77	36.5	18 57	4				
PASADENA	126.79	52.4	18 56	3				
DALTON	127.06	52.3	19 1	7				15 33 P
RIVERSIDE	127.46	52.3	15 32	-203				20 56 PP
PALOMAR	128.08	52.9						21 1 PP
BARRETT	128.44	53.7	15 23	-213			15 43	21 2 PP
BOULDER CITY	128.71	49.0	19 9	12				
SALT LAKE C.	128.77	42.2	19 0	3				
HAYFIELD	128.92	52.1	15 24	-213				21 2 PP
RAPID CITY	132.21	33.9	19 6	2				15 59 P
TUCSON	133.21	51.9	19 9	4				21 29 PP
SHAWINIGAN	140.56	4.9	19 17	-2				
OTTAWA	141.35	8.5	19 16	-4				
FAYETTEVILLE	142.68	35.8	19 19K	-4				
WESTON	144.81	4.0	19 27A	1				
PALISADES	145.91	7.7	19 26	-2			19 37	22 47 PKS
CHAPEL HILL	149.70	17.6	19 34	0				
HUANCAYO	159.66	159.7	19 53	5				20 32 PKP2

AUGUST 26 11.H 28.M 52.S EPICENTRE -18.74 -63.73 DEPTH= 0.KM

A= 0.41946 B=-0.84973 C=-0.31938 D=-0.8967 E=-0.4426
G=-0.1414 H= 0.2864 K=-0.9476 HT= 5.0

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
LA PAZ	4.75	297.3	1 20A	5	2 22	11		1 30 PP
ANTOFAGASTA	7.93	230.8	1 59	0	3 25	-6		
HUANCAYO	13.01	299.1	3 10	1	6 27	51		
SANTA LUCIA	15.90	201.7	3 44	-3	6 58	14		
LA PLATA	16.90	163.4	3 58	-1	7 15	8		8 26 SSS
BOGOTA	25.35	335.3	5 32	2	10 12	17		
CHINCHINA	26.32	332.4	5 39	0	10 16	5		6 19 PP
TRINIDAD	29.31	4.4	6 10	4				15 26
GALERAZAMBA	31.47	337.9	6 33	8	11 43	10		
BALBOA HTS.	31.65	329.1	6 27	0	11 35	-1		
ST. VINCENT	31.80	4.5	6 29	1				
BARBADOS	31.92	7.6	6 29	0				
ST. LUCIA	32.68	4.9	6 36A	0				8 27
FORT FRANCE	33.36	4.5	6 42	0	12 1	-2		14 33 SSS
DOMINICA	33.90	4.0	6 47	0				
ST. CLAUDE	34.61	3.4	6 55	2				10 39
ANTIGUA	35.63	4.3	7 0	-1				
SAN JUAN	36.96	356.2	7 11	-2	12 52	-6		8 39 PP
SANTIAGO MA.	40.26	320.9	7 35	-5				
SAN SALVADOR	40.90	320.3	7 45	0				9 58
COMITAN	44.61	319.4						10 14 PP
MERIDA	46.90	326.0						9 53 PCP
OAXACA	48.16	315.6						11 29 PPP
VERA CRUZ	49.33	318.1	8 52	-1				10 10 PCP
BERMUDA	50.84	359.0	9 4A	0	16 22	2		10 58 PP
TACUBAYA	51.46	315.5	9 14A	5	16 26	-3		10 53 PP
COLUMBIA	54.98	342.4	9 35	0	17 12	-5		11 49 PP
CHAPEL HILL	56.27	345.1	9 43	-2				
MBOUR	56.61	57.7	9 48	1	17 41	3		10 39 PCP
WASHINGTON	58.69	347.8	9 59	-3	18 11	5		
PHILADELPHIA	59.35	349.8	10 5	-1	18 11	-3		13 51 PPP
FORDHAM	60.03	351.1	10 10	-1	18 23	0		14 55 PCS
HALLEY BAY	60.05	169.9	10 10	-1				12 24 PP
PALISADES	60.19	351.1	10 5A	-7	18 20	-5		12 14 PP
WAYNESBURG	60.32	345.5	10 10	-3				
PENNSYLVANIA	60.68	347.7	10 15	0	18 39	8		12 32 PP
CINCINNATI	60.78	341.6	10 12	-4	18 18	-15		
PITTSBURGH	60.78	345.9	10 15A	-1	18 24	-9		
WESTON	61.22	353.6	10 18A	-1	18 36	-2		20 12 SCS
FAYETTEVILLE	61.69	332.2	10 20	-2	18 37	-7		20 18 SCS
CLEVELAND	62.15	344.9	10 23A	-2	18 38	-12		
ST. LOUIS 1	62.26	336.7	10 22A	-4	18 51	0		12 41 PP
CHIHUAHUA	62.39	318.1	10 33	6	18 48	-5		
FLORISSANT	62.45	336.7	10 24A	-3	18 51	-3		12 41 PP
HALIFAX	63.05	0.1	10 29A	-2	19 0	-1		

LUBBOCK	63.48	324.8	10 32	-2	19 10	3	
CHICAGO CGS.	64.14	340.3	10 35	-3	19 5	-10	20 35
BREBEUF	64.56	352.3	10 41	0	19 30	10	
OTTAWA	64.76	350.7	10 42A	0	19 21	-2	14 58 PPP
SHAWINIGAN	65.50	353.2	10 46A	-1			
SEVEN FALLS	65.86	354.7	10 25	-25	19 12	-24	
BYRD STATION	65.96	189.1	10 49	-1	19 25	-12	39 15 PKKP
TUCSON	67.85	317.9	11 2	0	20 36	36	39 27 PKPPKP
LOME	68.58	75.4	11 15	8	20 12	3	24 36 SS
BOULDER	70.14	327.2	11 16	0			
LARAMIE	71.23	327.9	11 21	-2			
SOUTH POLE	71.37	180.0	11 24A	0			21 22 SCS
HAYFIELD	71.88	316.4	11 27A	0			
BARRETT	71.94	314.9	11 28A	1	20 55	7	
RAPID CITY	72.19	331.2	11 28	-1			39 8 PKPPKP
BOULDER CITY	72.79	318.6	11 33	1	21 7	9	
RIVERSIDE	73.21	315.7	11 35A	0			
DALTON	73.60	315.6	11 38A	1			
PASADENA	73.83	315.4	11 39A	1	21 11	2	12 6 PCP
SALT LAKE C.	74.18	324.0	11 41A	1	21 24	11	12 11
CHINA LAKE	74.46	317.0	11 43A	1			13 49 PP
ISABELLA	74.92	316.5	11 45A	0			14 19 PP
WOODY	75.20	316.3	11 47A	1			14 13 PP
KING RANCH	75.57	315.6	11 50A	2			12 34 PCP
TINEMAHA	75.61	317.7	11 49A	1			
EUREKA	75.71	320.8	11 50	1	19 54	-96	39 10 PKPPKP
FRESNO	76.45	316.7	11 53A	0			
LISBON	76.66	40.9	11 55	1			
BOZEMAN	77.13	328.1	11 56	-1			
LICK	77.98	316.3	12 3A	1			39 14 PKPPKP
COIMBRA	78.00	40.1	12 4	2	21 56	1	
RENO	78.09	319.0	12 4	2			
BUTTE	78.14	327.6	12 2	-1	22 2	5	
SANTA CLARA	78.18	316.2	12 3A	0	22 4	7	
MALAGA	78.56	44.8	12 8A	3	22 3	2	14 45 PP
BERKELEY	78.68	316.5	12 7A	1	22 6	3	27 26 SS
TAMANRASSET	79.23	61.5	12 9A	0	22 0	-8	15 7 PP
GRANADA	79.35	44.8	12 10A	1	22 19	9	15 28 PP
SCOTT BASE	79.37	189.6	12 10	1			
MINERAL	79.68	318.9	12 10A	-1			
SASKATOON	79.84	334.8	12 10	-2	22 39	24	
ALMERIA	79.93	45.6	12 11	-1	22 18	2	
KIMBERLEY	79.95	116.9	12 13	0			
UKIAH	80.01	317.1	12 13	0			
GRAHAMSTOWN	80.18	121.8	12 14A	0			
SHASTA	80.37	318.8	12 14A	-1			
TOLEDO	80.55	42.3	12 17A	1	22 25	3	24 13 PPS
RELIZANE	81.44	47.8	12 22A	2	22 33	2	
ALICANTE	82.06	45.1	12 21	-3	22 34	-4	15 33 PP
CAPE HALLETT	82.31	194.5	12 26	1	22 38	-2	15 53 PP
BANFF	83.07	330.1	12 27A	-2			14 14
CORVALLIS	83.13	321.6	12 31A	2			
ALGIERS UNI.	83.70	47.9	12 32A	0	22 53	-1	15 50 PP
PRETORIA	83.71	114.9	12 33	1			
SEATTLE	84.33	324.6	12 36	1	23 11	10	
PIETERMZBURG	84.40	119.2	12 36	0			
VICTORIA	85.45	324.8	12 40A	-1	23 10	-2	
HORSESHOE B.	85.86	325.6	12 43	0	23 16	0	
LILLOOET	85.92	327.2	12 42	-1			
ALBERNI	86.63	324.9	12 47	0			
JERSEY	86.88	35.3	12 44	-4			24 34 PS
RATHFARNHAM	87.10	30.4	12 49	0			14 37
CLERMONT-FD.	88.13	40.1	12 54	0	23 48	11	16 26 PP
REYKJAVIK	88.69	17.0	12 58A	1			
KEW	89.07	34.0	13 1	3	23 49	3	23 24 SKS
PARIS	89.26	37.2	12 59A	0	23 53	5	16 33 PP
MONACO	89.89	43.3	13 4K	2			
DURHAM	90.21	30.8	13 11	7	23 55	-1	
NEUCHATEL	91.04	40.2	13 7	0	23 37	-27	
OROPA	91.07	41.8	13 8	0			24 58
ABERDEEN	91.29	28.6			23 43	-23	25 46 PPS
PAVIA	91.64	42.6	13 6	-4			25 27 PPS
LWIRO	91.68	92.9	13 13	3			
STRASBOURG	92.24	39.1	13 13	0	23 49	-25	16 56 PP
FLORENCE X.	92.42	44.4	13 13K	-1	23 49	-27	16 50 PP
ROME	92.51	46.5	13 14A	0	24 24	7	23 47 SKS
TERRE ADELIE	92.66	189.7	13 15	0			
BOLOGNA	92.76	43.8	13 1	-14			24 41 PS
EBINGEN	92.79	39.8	13 8	-8			

KARLSRUHE	92.81	38.9	13 16	0			17 20
STUTTGART	93.18	39.3	13 16	-1	24 28	5	17 21 PP
MESSINA	93.31	50.8	13 14	-4	24 18	-6	16 19 PP
REGGIO CALA.	93.35	51.0	12 58	-20	23 20	-64	
WITTEVEEN	93.49	34.9	13 19	0			
SCORESBY SD.	93.63	13.0	13 19	0	24 34	8	23 54 SKS
TRIESTE	94.79	43.4	13 24	-1	24 38	2	23 57 SKS
THULE	95.00	358.9	13 26	0	24 52	14	23 59 SKS
WILKES	95.20	177.7			24 38	-2	26 2 PS
RESOLUTE	95.30	352.1	13 26A	-1	24 45	4	24 10 SKKS
TARANTO	95.34	49.2	13 3	-24			26 3 PPS
JENA	95.46	37.9	13 25	-3			
CHEB	95.61	38.9			24 19	-24	28 45
HAMBURG	95.61	35.1			24 10	-33	
PLAUEN	95.63	38.5	13 27	-2			
HALLE	95.90	37.5			25 5	19	
PRAGUE	96.83	39.4	13 39	5			26 29 PS
COPENHAGEN	97.76	33.7	13 39	1	24 19	-43	17 55 PP
BRATISLAVA	97.82	41.8	13 40	1	24 58	-4	24 16 SKS
HURBANOVO	98.43	42.4			24 22	-45	
SKOPJE	98.79	48.7			24 1	-69	
BELGRADE	98.97	45.8	13 48A	4	24 23	-49	17 50 PP
ATHENS	99.34	53.1			24 21	-54	
ROXBURGH	99.96	214.8					26 56 PSS
KRAKOW	100.18	40.6	13 53	4	24 14	-68	17 15 PP
SKALSTUGAN	100.55	26.2	13 51	0			
WARSAW	101.45	38.7					24 35 SKS
UPPSALA	101.76	30.6			25 29	-6	24 30 SKS
BUCHAREST	102.75	47.3			25 15	-28	24 40 SKS
TANANARIVE	102.86	115.2					18 22 PP
BACAU	103.79	45.3					24 44 SKS
COLLEGE	104.31	334.0	14 9	1	26 0	4	37 48 SSS
IASI	104.37	44.7					24 44 SKS
KIRUNA	105.00	23.0			25 59	-3	18 29 PP
JERUSALEM	107.03	61.6	17 51	777			18 52
KSARA	107.97	59.7	14 21	777	26 28	85	18 58 PP
PULKOVO	108.02	32.1					28 22 PS
SIMFEROPOL	108.47	47.9	14 26	777			18 56 PP
APATITY	109.89	23.9					27 41
TIFLIS	115.92	52.1	18 47	2	25 37	2	20 0 PP
GORIS	116.99	54.6			25 34	-5	19 53 PP
RIVERVIEW	118.04	212.6					29 53 PS
SVERDLOVSK	124.11	33.2	19 6	5			27 42 SKKS
ASHKABAD	126.40	56.3	19 7	2			21 3 PP
TIKSI	126.59	355.1					21 0 PP
MAGADAN	132.26	337.0	19 16	0			21 35 PP
PETROPAVLOVK	132.59	326.5	19 17	0			21 38 PP
QUETTA	133.99	65.9	19 22A	3			28 55 SKKS
KARACHI	134.11	71.9	19 36	16			22 2 PP
TASHKENT	134.18	50.2	19 22	2			21 52 PP
STALINABAD	134.44	54.1	19 22	2			21 53 PP
FRUNSE	137.45	46.3	19 29	3			23 2
WARSAK DAM	137.49	59.9	19 29	3			
RABAUL	137.93	240.8	19 17	-10			23 11 PKS
BOMBAY	138.95	82.5					23 9
POONA	139.87	83.3	19 23	-7			23 14 PP
LAHORE	140.18	63.0	19 26	-5			22 30 PP
COLOMBO	142.69	103.6					23 18
DEHRA DUN	143.53	64.2	19 38	1			29 41
TRUK	143.66	256.8	19 37	0			
HYDERABAD	144.06	86.0	19 39	1			
MADRAS	144.86	94.0	19 39	0			
IRKUTSK	145.25	12.9	19 40	0			33 10 SKSP
ULAN-BATOR	149.91	12.6					23 26 PP
MIZUSAWA	150.40	318.6	19 52	4			20 11
CHATRA	152.04	67.9	19 50	0			
GUAM	152.16	263.4	19 48	-3			23 47 PP
VLADIVOSTOK	152.34	334.9	19 53	2			23 34 PP
TUKUBASAN	152.73	314.5	19 54	3			23 48 PP
MATUSIRO	153.79	317.1	19 55A	2			30 35 SKKS
CHANGCHUN	153.86	345.0	19 54A	1			20 16 PKP2
LHASA	154.61	59.9	19 59A	5			23 58 PP
KYOTO	156.32	317.1	19 59A	3			
SHILLONG	156.42	68.9	19 59A	3			
ABUYAMA	156.52	317.0	19 59	2			
PEKING	158.79	0.2	20 2A	3			24 10 PP
KOROR	158.97	239.7	20 2K	2			20 39 PKP2
NAGASAKI	161.47	321.4	20 5	3			45 0 SS

CHENGTU	163.74	40.8	20 8A	3		24 47 PP
KUNMING	165.91	61.1	20 9A	2		25 0 PP
NANKING	166.55	350.7	20 10A	3		24 56 PP
ZO-SE	166.92	341.1	20 9A	2		24 58 PP
MANILA	173.88	228.2	19 43	-28		21 13 PP
CANTON	174.86	32.4	20 15A	4		25 19 PP
BAGUIO CITY	175.29	241.3	20 14	2	26 8 -65	
HONG KONG	175.95	28.8				22 32 PKP2

AUGUST 26 13.H 58.M 51.S EPICENTRE -2.06 -80.96 DEPTH= 34.KM

DEPTH OF FOCUS= 0.000R

A= 0.15703 B=-0.98695 C=-0.03569 D=-0.9876 E=-0.1571
G=-0.0056 H= 0.0352 K=-0.9994 HT= 7.2

SE= 2.95

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
CHINCHINA	8.79	37.4	2 6	-2				
BALBOA HTS.	11.03	7.2	2 41	2	4 46	4		
HUANCAYO	11.39	150.9	2 42	-1	4 38	-13		
GALERAZAMBA	13.95	23.8	3 26	8	5 54	2		
SANTIAGO MA.	17.15	334.5	4 13	14				
SAN SALVADOR	17.70	332.6	4 4	-2				
LA PAZ	19.11	139.4	4 23	0	8 2	11		8 35 SS
COMITAN	21.28	329.2	4 37	-9	8 37	2		
CIUD. TRUJL.	23.10	27.6	5 4	0				
TRINIDAD	23.11	56.5	5 3	-1			5 15	7 9 PP
MERIDA	24.39	340.1	5 9	-7	9 22	-9		11 37
ST. VINCENT	24.71	51.7	5 26	7			5 38	
SAN JUAN	25.02	35.1	5 20	-2	9 53	11		
ST. LUCIA	25.43	50.5	5 27	1				
FORT FRANCE	25.75	49.0	5 26	-3	10 12	18		
VERA CRUZ	25.86	325.5	5 49	19	10 41	46		
DOMINICA	25.92	47.6	5 29	-2			5 41	
BARBADOS	26.01	54.0	5 31	-1			5 41	
ST. CLAUDE	26.18	46.0	5 35	2				9 13 PCP
ANTIGUA	27.24	45.2	5 37	-6			5 53	
TACUBAYA	27.85	320.8	5 51	2				6 58
MANZANILLO	31.11	313.4						7 17 PP
GUADALAJARA	31.48	317.0						14 17
SANTA LUCIA	32.66	163.9	6 31	0	11 58	14		
COLUMBIA	35.87	359.9	6 59	0	12 25	-9		
BERMUDA	37.56	22.9	7 12	-1	13 7	7		8 30 PP
CHAPEL HILL	37.82	2.5	7 12	-3				
CHIHUAHUA	38.88	323.5						8 42
LA PLATA	39.08	149.3	7 27	0				
FAYETTEVILLE	39.91	343.2	7 30A	-3	13 35	0	7 39	
LUBBOCK	40.55	332.8	7 38	0	13 50	5		16 54 SS
WASHINGTON	40.91	4.6	7 48	7				
PHILADELPHIA	42.14	6.6	7 51	0	14 8	0		
PITTSBURGH	42.30	1.1	7 19	-33	14 12	1		
PENNSYLVANIA	42.75	3.5	8 5	9	14 18	1		9 34 PP
CLEVELAND	43.34	359.4	7 55	-6	14 23	-3		
PALISADES	43.34	7.8	7 58A	-3	14 18	-8		9 40 PP
CHICAGO CGS.	44.05	352.9	8 14	8	14 30	-6		
TUCSON	44.33	322.8	8 9	0	14 41	1		10 14
WESTON	45.09	10.1	8 14K	-1	14 51	0		18 9 SCS
BOULDER	47.45	334.6	8 32	-1				
OTTAWA	47.48	5.0	8 30K	-4	15 24	-1		10 34 PP
HAYFIELD	48.29	320.6	8 40	0				
BARRETT	48.30	318.8	8 40	0				
SHAWINIGAN	48.94	7.5	8 41	-4				10 51 PP
HALIFAX	48.99	16.4	8 44	-1	15 47	1		
BOULDER CITY	49.30	323.4	8 47	-1				
RIVERSIDE	49.59	319.6	8 50	0				
SEVEN FALLS	49.78	9.1	8 28	-23	15 29	-28		18 20 SCS
RAPID CITY	50.06	339.2	8 53	-1	16 12	11		
PASADENA	50.20	319.2	8 55	0	16 0	-3		
CHINA LAKE	50.88	321.3	9 0K	0				
SALT LAKE C.	51.09	329.9	9 1	0	16 21	6		
ISABELLA	51.33	320.6	9 3K	0				
WOODY	51.60	320.4	9 5	0				
KING RANCH	51.94	319.4	9 7	-1				

TINEMAHA	52.06	322.1	9 9	0			
EUREKA	52.35	325.9	9 10	-1			11 19 PP
FRESNO	52.86	320.8	9 13	-2			
LICK	54.37	320.3	9 25K	-1			
BOZEMAN	54.49	334.4	9 24	-3			
SANTA CLARA	54.58	320.1	9 35	8			17 7
RENO	54.60	323.5	9 28	0			
BERKELEY	55.09	320.4	9 27	-4			
BUTTE	55.43	333.7	9 39	5	17 13	-1	
MINERAL	56.18	323.2	9 44K	5			
SHASTA	56.87	323.1	9 41	-3			
CORVALLIS	59.81	326.2	10 5K	1			
BANFF	60.64	335.8	10 8	-2			
SEATTLE	61.25	329.4	10 16	2	18 33	3	10 40
VICTORIA	62.38	329.6	10 20	-2	18 49	5	
HORSESHOE B.	62.88	330.4	10 24	-1	18 54	3	
ALBERNI	63.58	329.5	10 36	6			
MBOUR	65.42	73.3	10 42	0	19 36	14	13 3 PP
RESOLUTE	77.09	356.2	11 47	-5	21 37	0	
LISBON	77.18	49.7	12 26A	34			
REYKJAVIK	78.85	22.6	12 2	1			
BYRD STATION	80.13	186.3	12 8	0	22 16	7	13 29
MALAGA	80.48	52.4	12 10A	0	22 4	-9	15 6 PP
GRANADA	81.19	52.1	11 55A	-19	22 17	-3	14 40 PP
TOLEDO	81.29	49.3	12 13	-1	22 21	0	13 41
SCORESBY SD.	81.99	16.9	12 17	-1	22 28	0	27 29 SS
COLLEGE	82.22	336.7	12 19	0	22 29	-2	23 36 PPS
LOME	82.45	83.6	12 34	14	22 44	11	17 39 PPP
RATHFARNHAM	82.53	35.7	12 20	-1			
ALICANTE	83.81	51.3	13 0	33	23 51	64	18 35 PPP
JERSEY	84.27	40.3	12 35	5	22 50	-1	
RELIZANE	84.30	54.0	12 31	1			15 59 PP
ABERDEEN	85.68	32.4	12 44	7	24 2	57	25 9 PS
KEW	85.77	38.2	12 37	0			16 18 PP
ALGIERS UNI.	86.42	53.1	12 39	-1	23 9	-3	15 47 PCP
PARIS	87.22	41.1	12 46	2	23 29	9	16 6 PP
CLERMONT-FD.	87.33	44.2	12 45	0	24 0	39	23 17 SKS
TAMANRASSET	87.54	67.2	12 46	0	23 24	1	16 14 PP
SOUTH POLE	87.95	180.0	12 47	-1			14 4
DE BILT	89.23	38.0	12 57	3	23 39	0	
NEUCHATEL	90.06	43.2	10 57	-121			21 42
MONACO	90.24	46.4	13 0	1			
STRASBOURG	90.69	41.6	13 0	-1	23 58	6	23 37 SKS
CUGLIERI	90.95	50.0					15 19
KARLSRUHE	91.12	41.2	13 0A	-3			
EBINGEN	91.47	42.0	13 3	-1			13 34
PAVIA	91.54	45.0	14 2	57			37 15 SSS
STUTTGART	91.64	41.4	13 5	0	24 4	4	17 7 PP
HAMBURG	92.20	36.6			24 7	2	23 29 SKS
SCOTT BASE	92.60	191.3	13 11	1			
FLORENCE X.	93.01	46.5	13 25A	14	23 54	-18	25 39 PS
JENA	93.19	39.3	13 11	-1	23 45	-29	
HALLE	93.42	38.7	13 13	0	23 45	-31	14 0
PLAUEN	93.56	39.7	13 12	-2			13 42
COPENHAGEN	93.62	34.5	13 18	4	24 29	12	23 51 SKS
CAPE HALLETT	93.68	196.9	13 16	2	23 45	-33	30 51 SS
CHEB	93.72	40.1			24 28	10	23 54 SKS
ROME	93.93	48.3	13 12A	-4	24 34	14	23 41 SKS
POTSDAM	94.09	37.8			24 32	11	
PRAGUE	95.04	40.1	13 21	0			23 59 SKS
UPPSALA	96.09	30.1			24 37	-2	23 58 SKS
KIRUNA	96.20	22.0	13 25	-1	24 43	4	24 0 SKS
MESSINA	96.39	52.0			25 35	54	24 23 SKS
BRATISLAVA	96.91	41.9	13 34	5	24 49	4	24 25 SKS
TARANTO	97.58	49.6			23 54	-57	32 4 SS
KRAKOW	98.57	39.8	13 39	2	25 12	13	14 11
SODANKYLA	98.61	21.9	13 36	-1			
SKALNATE PL.	98.88	40.7	14 1	23	25 18	16	26 38
WARSAW	98.96	37.5	13 35	-3	24 15	-48	17 56 PP
BELGRADE	99.54	45.0			24 24	-44	26 45
BUCHAREST	103.59	44.8			24 50	-51	18 30
TERRE ADELIE	105.04	196.0	14 4	777			
TIKSI	107.98	350.5					18 46 PP
SIMFEROPOL	109.02	42.9					18 51 PP
LWIRO	109.65	93.1	18 33	777			19 3
WILKES	111.39	185.0			25 13	4	34 51 SS
KSARA	113.29	54.0	18 34	0			19 28 PP
SVERDLOVSK	117.41	22.6					19 51 PP
TIFLIS	117.44	43.2					19 53 PP

RIVERVIEW	119.41	229.0						27 18 SKKS
RABAUL	126.54	263.3	19 2	2				
ASHKABAD	128.38	41.1	19 5	1				21 4
MATUSIRO	130.16	318.3	19 8	1				38 42 SS
TASHKENT	132.61	30.5	19 15	3				28 9 SKKS
KYOTO	132.70	318.1	19 31	19				
ULAN-BATOR	133.81	352.7	19 27	13				
FRUNSE	133.86	25.0	19 15	1				21 40 PP
STALINABAD	134.34	33.5	19 28	13				
QUETTA	138.68	44.2	19 26	3				22 5 PP
WARSAK DAM	139.15	35.9	19 25	1				
KARACHI	141.19	49.6	19 10	-17				19 38 PKP2
LAHORE	142.53	35.9	19 27	-3				
DEHRA DUN	145.56	33.2	19 38	3				33 10
BOMBAY	149.35	55.1						20 36
POONA	150.38	54.8	19 46	3	25 31	-74		23 37 PP
CHATRA	152.86	23.8	19 46	0				
BAGUIO CITY	154.44	305.2						20 29
HONG KONG	155.08	325.0						
SHILLONG	155.63	15.9	19 52	2				
COLOMBO	160.30	75.3						24 14

AUGUST 27 20.H 56.M 29.S EPICENTRE -25.60 178.22 DEPTH= 600.KM

DEPTH OF FOCUS= 0.089R

A=-0.90250 B= 0.02799 C=-0.42979 D= 0.0310 E= 0.9995
G= 0.4296 H=-0.0133 K=-0.9029 HT= 3.2

SE= 1.23

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
RAOUL ISLAND	4.99	137.5	1 33	-1	2 51	3		
SUVA	7.42	1.5	2 1	5				
ONERAHI	10.66	197.2	2 28	2	4 31	9		
KARAPIRO	12.49	189.9	2 45	1	5 2	7		
TUAI	13.19	183.7			5 3	-4		
TONGARIRO	13.74	188.8	2 55	-1	5 24	7		
APIA	15.04	40.5	3 8	-1	5 40	0		
WELLINGTON	15.89	189.5	3 15	-2				3 56
COBB RIVER	16.10	195.1	3 18	-1	5 58	0		
KAIMATA	17.78	196.7	3 35	0	6 36	9		
GEBBIES PASS	18.62	192.7	3 40	-2	6 40	-1		
BRISBANE	22.61	259.7	4 21	2				
RIVERVIEW	24.85	244.4	4 40A	1				8 23 PCP
MELBOURNE	30.64	238.4	5 30K	1	9 51	0		5 33
RABAUL	32.83	306.1	5 46	-1				8 9 PCP
TRUK	41.70	318.5	7 0	1				
CAPE HALLETT	46.94	183.3	7 40A	0				11 57
TERRE ADELIE	47.09	198.9	7 28	-13				
KOROR	53.66	301.6	8 27	-2				11 20 *SP
SOUTH POLE	64.55	180.0	9 40	-1				
BAGUIO CITY	69.94	300.3	10 13	-1				
MATUSIRO	72.42	327.1	10 27K	-1	19 4	-1	12 29	13 27 PP
ABUYAMA	72.46	324.2	10 27	-1				
NAGASAKI	74.06	319.1	10 37	0	19 22	-1		
BERKELEY	84.27	43.3	11 31A	0				
KING RANCH	84.33	46.5	11 29A	-2				
LICK	84.33	44.0	11 32A	1				
PASADENA	84.68	48.3	11 33A	0				
BARRETT	84.86	50.2	11 33A	-1				
PALOMAR	85.11	49.5	11 37A	2				
RIVERSIDE	85.12	48.8	11 34A	-1				
WOODY	85.13	46.7	11 35A	0			13 47	
FRESNO	85.15	45.3	11 35A	0				
ISABELLA	85.36	46.9	11 38A	2			13 44	
SHASTA	85.96	41.0	11 39A	0				
CHINA LAKE	86.03	47.2	11 40A	1			13 54	
HAYFIELD	86.16	49.8	11 41A	1				
TINEMAHA	86.34	45.9	11 41	0				
BOULDER CITY	87.97	48.3	11 48	0				
TUCSON	88.77	53.2	11 53	1				
EUREKA	89.18	44.9	11 54	0				
ULAN-BATOR	97.10	320.0						16 35 PP
SHILLONG	97.62	294.6						16 15

NAMANGAN	118.39	304.4						19 17
QUETTA	119.91	291.4	17 45A	2				
KIMBERLEY	120.24	207.0	17 45	1				
SCORESBY SD.	133.60	9.2					20 42	
SODANKYLA	134.72	345.0	18 9	-3				20 46 SKP
KIRUNA	135.64	348.2	18 12	-1				20 49 SKP
HELSINKI	140.84	339.1	18 18	-6				
SKALSTUGAN	140.92	350.1	18 18	-6				21 4 SKP
UPPSALA	143.22	343.7	18 25	-3				
SIMFEROPOL	145.29	313.0						18 33
KSARA	146.43	293.1	18 38	5			20 55	25 30 PPP
JERUSALEM	147.08	289.4	20 35	122				
KISHINEV	147.69	319.3					20 57	
HELWAN	150.45	285.9	18 46	8				
JENA	152.71	341.4	21 7	145				
TAMANRASSET	172.77	248.6	19 3	2				24 19 PP

AUGUST 28 23.H 22.M 22.S EPICENTRE 20.66 145.18 DEPTH= 0.KM

A=-0.76877 B= 0.53477 C= 0.35073 D= 0.5710 E= 0.8209
G=-0.2879 H= 0.2003 K=-0.9365 HT= 4.5

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
GUAM	7.16	183.3	1 52	3				
TORISIMA	10.72	336.8						6 56
TRUK	14.62	152.8	3 31	1	6 1	-13		
MERA	14.97	342.8	2 49	-46				
OMAESAKI	15.19	337.6	4 20	42				
MISIMA	15.41	340.5	3 41	0	6 41	8		
SHIZUOKA	15.46	338.7	3 46	5				8 20
YOKOHAMA	15.50	342.9	3 41	-1				8 58
TOKYO C.M.O.	15.71	343.5	3 53	8	7 6	26		4 43
HUNATU	15.82	340.5	3 50	4				
KOHU	16.00	340.1	3 55	6	7 5	18		
KAMEYAMA	16.09	333.3	4 0	10				
KAKIOKA	16.12	345.3	3 50	0	6 49	-1		
TUKUBASAN	16.13	345.1	3 48	-2	6 40	-10		8 42
TITIBU	16.17	342.0	3 44	-7				
KUMAGAYA	16.25	343.0	3 45	-7	7 1	8		
OSAKA	16.33	330.6	4 0	7				
SUMOTO	16.40	328.4	4 0	6				
UTUNOMIYA	16.50	344.8	3 58	3	6 44	-14		
KOBE	16.52	329.8	4 16	21				9 36
HIKONE	16.54	333.5	4 10	15	7 28	29		
KYOTO	16.55	331.8	3 54	-1				
MAEBASI	16.57	342.5	4 16	20	7 12	12		
OIWAKE	16.66	341.0	3 7	-50				
MATUMOTO	16.77	339.4	3 59	1				
KOROR	16.82	219.5	4 4	5				
MATUSIRO	16.96	340.5	3 58	-3	7 8	-1		
SHIRAKAWA	16.96	346.3	3 50	-11	7 8	-1		
NAGANO	17.08	340.6	4 4	2	7 13	1		
OOITA	17.38	318.9	4 13	7				6 45
TOYAMA	17.43	338.1	4 16	9				
HUKUSIMA	17.51	347.5	4 7	-1	7 8	-14		
HIROSIMA	17.71	323.1	4 10A	0	7 31	5		
SENDAI	17.94	349.0	4 18	5	7 48	17		7 26
NIIGATA	18.00	344.2	3 48	-26				
SAGA	18.22	316.5	4 20	4				
HUKUOKA	18.36	317.5	4 18	0	7 38	-3		
TOMIE	18.87	312.5	4 14	-10				
URAKAWA	21.52	355.1	4 55	2	8 54	6		10 4
SAPPORO	22.57	352.7	4 41	-23				9 13
BAGUIO CITY	23.69	263.9	5 6	-8				
WAKKANAI	24.86	354.1						6 40
RABAUL	25.64	163.7	5 34	1				6 28 PP
HONG KONG	28.88	278.9						7 2
PETROPAVLOVK	34.04	14.5	6 36	-12				
ULAN-BATOR	41.06	320.6	7 45	-2				
DJAKARTA	46.15	238.8	8 28	0	15 16	1		
SHILLONG	49.01	286.4	8 49	-2				10 44
TIKSI	51.86	353.5	9 9	-4				
KIPAPA	52.76	78.3	9 21	2				

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CHATRA	53.07	288.6	9 18	-4				
SEMIPALATNSK	58.43	317.1	9 56	-4				
COLLEGE	61.75	26.5	10 20	-3				
FRUNSE	62.19	308.4	10 23	-3				
LAHORE	63.58	295.8	10 30	-5				
BOMBAY	67.56	282.6	11 4	3			20 12	
QUETTA	70.07	295.6	11 13	-3				
KARACHI	71.00	291.1	11 43	21				
ALBERNI	74.63	42.8	11 44K	1				
HORSESHOE B.	75.58	42.4	11 49K	0				
VICTORIA	75.72	43.3	11 49A	-1				
LILLOOET	76.08	40.9	11 53K	1				
SEATTLE	76.67	44.0	11 57	2	21 56	15		
CORVALLIS	76.85	47.2	11 57	1				
RESOLUTE	77.65	13.6	11 58A	-2	21 50	-2		
SHASTA	78.60	50.8	12 5K	-1			17 48	
APATITY	79.01	338.7	12 5	-3	22 2	-5		
BERKELEY	79.56	53.5	12 11K	0				
BANFF	79.78	39.1	12 10K	-2				
LICK	80.19	53.9	12 15K	1			12 22	
THULE	81.01	7.6	12 12	-7				
SODANKYLA	81.36	339.9	12 17	-3			12 23	
MAKHACH-KALA	81.58	312.7	12 10	-12				
HUNGRY HORSE	81.70	41.5	12 34	12			17 37	PPP
FRESNO	81.77	53.9	12 23	1				
KING RANCH	82.30	55.3	12 27	2				
WOODY	82.84	54.7	12 28	0				
TINEMAHA	82.85	53.2	12 30	2				
KIRUNA	83.00	341.7	12 26	-3	22 41	-7	22 10	
ISABELLA	83.16	54.6	12 30	0				
EUREKA	83.65	50.3	12 32	0				
CHINA LAKE	83.76	54.2	12 33	0				
TIFLIS	83.90	312.2	12 33	0				
PASADENA	83.92	55.9	12 34	0	22 56	-1		
PULKOVO	84.07	332.5	12 19	-15				
RIVERSIDE	84.59	55.8	12 37	0				
PALOMAR	85.22	56.3	12 42	2				
BARRETT	85.61	56.9	12 43	1				
BOULDER CITY	85.79	53.2	12 44	1				
HELSINKI	86.09	334.3	12 40	-4				
SKALSTUGAN	88.37	340.9	12 52	-3			16 15	PP
SCORESBY SD.	88.66	355.7	12 52	-5	23 25	-18	24 42	PS
UPPSALA	89.16	336.4	12 55	-4				
SIMFEROPOL	89.54	318.5	13 10	9				
RAPID CITY	90.32	42.1	13 4	-1				
TUCSON	90.32	55.3	13 5	0				
WILKES	90.46	193.3			23 58	-1	25 12	PS
BOULDER	90.89	46.4	13 8	1				
KISHINEV	91.64	322.2	13 18	7				
WARSAW	92.69	329.4	13 18	2			18 48	PPP
KSARA	93.63	308.1	13 10	-10	24 14	-13	25 30	PS
COPENHAGEN	94.06	335.3			23 50	-41	17 7	PP
CAPE HALLETT	94.28	172.5	12 17	-66				
KRAKOW	94.60	328.1	13 22	-2			41 23	
BUCHAREST	94.67	321.1					15 18	
LUBBOCK	96.43	50.7	13 34	1				
STRASBOURG	101.28	332.7			25 8	-24	18 3	PP
PARIS	103.25	335.7			24 46	-62	18 15	PP
ROME	103.93	325.6			25 20	-34	24 24	SKS
MESSINA	104.75	321.1					13 36	
CLERMONT-FD.	105.45	333.5					29 7	PPS
WESTON	108.80	27.7	10 34	777			10 51	
ALGIERS UNI.	112.62	327.7					19 20	PP
GRANADA	115.38	332.7	15 38K	-186			31 8	PPS
MALAGA	116.11	333.1	12 38K	-368				
BERMUDA	120.02	29.1					23 6	
TAMANRASSET	121.58	315.5	18 50K	-6			20 26	PP
LA PAZ	148.19	88.2	19 48	3				

AUGUST 30 16.H 18.M 3.S EPICENTRE 39.34 72.88 DEPTH= 56.KM

DEPTH OF FOCUS= 0.004R

A= 0.22828 B= 0.74107 C= 0.63143 D= 0.9557 E=-0.2944
G= 0.1859 H= 0.6034 K=-0.7754 HT= -1.4

SE= 2.24

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
MURGAB	1.27	139.5						0 21 PG
DZHERGETAL	1.29	265.0						0 21 PG
FERGANA	1.34	321.1						0 21 PG
ANDIJAN	1.46	344.6						0 23 PG
NAMANGAN	1.88	330.8						0 31 PG
KHOROG	2.12	208.8						0 35 PG
OBI-GARM	2.56	256.4	0 42	2				1 21 S*
KULYAB	2.82	240.2	0 44	0				
AURAKHMAT	3.07	317.6	0 48	1				1 28 S*
KARA-SU	3.16	255.4	0 49	1				
NARYN	3.17	47.9	0 51	3				1 32 S*
NAPAI	3.17	319.3	0 53	4				
KHODCHIKENT	3.18	316.6	0 46	-3				
STALINABAD	3.30	257.4	0 50	0				1 32 S*
TASHKENT	3.39	306.8	0 51	-1				1 51 SG
TURBAT	3.42	315.1	0 40	-12				1 4
FRUNSE	3.76	19.4	0 57	0	1 42	7		1 20
TCHIMKENT	3.86	320.9	0 57	-1				
RYBACHE	3.94	37.0	1 4	5	1 48	3		1 13
SAMARKAND	4.57	275.9	1 6	-2	2 10	9		1 17
ALMATA-2	5.18	39.3	1 16	-1				1 35
PRZHEVALSK	5.22	51.4	1 17	0				2 40
WARSAK DAM	5.44	191.7	1 21	1				
KURMENTY	5.50	46.0						2 45 S*
ILI	5.57	33.0	1 20	-2				2 47 S*
LAHORE	7.87	170.9	1 52	-2	3 21	-2		2 27
DEHRA DUN	9.95	153.2	2 20	-3	4 8	-6		2 31 PP
QUETTA	10.36	209.8	2 26A	-2	4 25	1		3 18
ASHKABAD	11.45	267.6	2 38	-5	4 40	-10		6 26
SEMIPALATNSK	12.22	22.8	2 49	-4				5 18
KARACHI	14.34	201.7	3 30	9	6 21	22		
CHATRA	17.27	132.0	3 55	-3				10 23
BAKU	17.67	280.7	4 5	2				7 27
LHASA	17.80	117.4	4 4A	-1	7 26	7		
BOKARO	18.95	140.9	4 17	-2	7 47	3		4 32 PP
SVERDLOVSK	19.26	339.3	4 30	8	7 56	5		
MAKHACH-KALA	19.43	288.9			8 1	6		4 51 PP
KIROVOBAD	20.32	282.4	4 32	-2	8 16	3		8 31
BOMBAY	20.37	180.2	4 41	7	8 28	14		4 47 PP
GORIS	20.49	278.9	4 36	1	8 22	6		8 39 SS
POONA	20.76	177.4	4 37	-1	7 57	-25		4 47 PP
SHILLONG	21.05	125.1	4 39A	-2	8 33	6		5 1 PP
CALCUTTA	21.32	137.3	4 53A	9	8 47	15		5 17 PP
TIFLIS	21.44	285.4	4 45	0				8 40
TOCKLAI	22.17	117.9	4 48	-4				
HYDERABAD	22.37	165.9	4 53A	-1				5 32 PP
VIZIANAGRAM	23.06	153.5						6 1
WUWEI	23.25	84.0	5 6	3				
IRKUTSK	25.22	48.8	5 21	-1	9 47	6		6 32
ULAN-BATOR	25.90	59.5	5 28	0	9 59	7		
KYAKHTA	26.01	53.9	5 29	0	10 1	7		
KABANSK	26.53	50.2	5 33	-1				
CHENGTU	26.83	99.2	5 37	0	10 14	7		
MADRAS	27.02	164.2			9 38	-32		14 11
KUNMING	28.81	110.7	5 55A	0	10 47	8		
SIMFEROPOL	29.08	293.8	5 57K	0				10 49
KODAIKANAL	29.28	170.7			11 48	62		15 12
KSARA	30.07	271.1	6 8	2	11 5	6		7 5 PP
JERUSALEM	31.38	267.9	6 16	-1				
COLOMBO	32.91	167.1						13 2
PEKING	33.08	74.7	6 32	0				
ISTANBUL KA.	33.24	287.3	6 34	0	14 12	143		
IASI	33.52	298.6	6 55	19	14 12	139	7 31	
PULKOVO	33.53	321.7	6 36	0	11 55	2		7 43 PP
BUCHAREST	34.82	293.9	7 25	38	14 24	131		11 9
HELWAN	35.22	267.4	6 51A	0				7 3
APATITY	35.61	335.2	6 52K	-2	12 22	-3		8 10 PP
LWOW	35.76	303.4	6 55	0				12 22
HELSINKI	36.22	321.1	6 58	-1	12 19	-16		8 19 PP
WARSAW	37.59	307.5	7 10	0	13 2	7		8 37 PP
NANKING	37.67	86.6	7 12	1				
CANTON	37.82	103.3	7 14	2				
SODANKYLA	37.84	332.9	7 11	-2	13 8	9		7 46 PP
SKALNATE PL.	38.25	302.6						8 44
KRAKOW	38.38	304.0	7 16	-1				9 8 PPP

BELGRADE	38.73	295.6	7 21K	1				8 57
HONG KONG	38.94	103.5	7 23	1				
RACIBORZ	39.49	304.2	7 26	0				9 0 PP
HURBANOVO	39.76	300.8						10 31
UPPSALA	39.81	319.6	7 28K	-1	13 27	-2		8 55 PP
ZO-SE	39.91	86.6	7 31	1	13 40	9		
KIRUNA	40.22	332.2	7 32K	0	13 38	3		9 3 PP
BRATISLAVA	40.45	301.4	7 35	1	13 25	-13		9 10
PRAGUE	41.90	304.7	7 51	5	14 7	7		9 36 PP
TARANTO	42.08	290.0	7 59	11				
POTSDAM	42.45	308.3	7 51	0				9 37
COPENHAGEN	42.51	313.2	7 52A	1	14 14	5		9 33 PP
SKALSTUGAN	42.69	324.9	7 52	-1				9 21 PP
CHEB	43.20	305.0						9 52
HALLE	43.25	307.1	7 54	-3				9 33
PLAUEN	43.28	305.6	7 55	-2				9 35 PP
JENA	43.57	306.4	8 0	0				9 44 PP
SONNEBERG	43.90	305.6	8 3	1				10 1 PPP
MESSINA	44.06	287.5	8 5	1	14 35	4		9 43 PP
HAMBURG	44.15	310.3						9 50 PP
ROME	45.08	293.6	8 11	-1	14 54	8		18 18 SS
FLORENCE X.	45.39	296.5	8 14	0	15 0	9		
STUTTGART	45.50	303.8	8 15K	0	14 57	5		18 6 SCS
EBINGEN	45.78	303.0	8 17K	0				
KARLSRUHE	45.95	304.2	8 18	-1	15 6	7		18 34 SS
BERGEN	45.98	320.3						9 37
BENSBERG	46.30	307.1	8 22	0				8 31
PAVIA	46.42	298.9						7 40
STRASBOURG	46.46	303.8	8 23	0	15 7	1		18 35 SS
BASLE	46.85	302.4	8 25	-1				10 19
DE BILT	47.27	309.0	8 27	-2	15 27	10		18 57 SS
BAGUIO CITY	47.29	105.0						18 57 SS
BESANCON	47.97	302.5	8 32	-3				10 26 PP
UGLEGORSK	48.94	54.6	8 42	0				
PARIS	49.77	305.3	8 47	-2	15 56	4	8 53	10 50 PP
CLERMONT-FD.	50.30	301.4	8 51	-2	16 5	5		19 40 SS
MATUSIRO	50.59	71.3	8 54A	-1	16 8	4		14 4 SCP
KEW	50.74	309.3	8 54	-2	16 9	3		19 51 SS
MAGADAN	51.24	39.7	8 59	-1				26 51
NORD	51.28	349.1	9 0	0				
RATHFARNHAM	53.66	313.0	9 17A	-1	16 51	5		9 22
RELIZANE	56.03	290.8	9 35	0				10 35 PCP
KLYUCHI	57.30	41.4	9 42	-2	17 38	4		
PETROPAVLOVK	57.43	45.5	9 43	-2				17 47 PS
TOLEDO	57.44	297.2	9 43	-2				12 4 PP
TAMANRASSET	58.76	275.0	9 56	2	18 1	8		12 13 PP
MALAGA	59.13	294.1	9 53	-4				
TANANARIVE	62.61	207.1	10 20A	0				11 4 PCP
COLLEGE	71.34	17.1	11 15	0				12 41
TRUK	76.78	91.2	11 48	1				
PIETERMZBURG	79.19	216.8	12 0	-1				
MBOUR	80.92	281.1	12 12	3				
KIMBERLEY	81.22	221.4	12 11	1				
RABAUL	84.39	100.0	12 29	2				
HALIFAX	87.68	330.5	12 58	15				
SHAWINIGAN	89.14	337.1	12 51A	1				
LILLOOET	89.40	9.3	12 56A	5				
BANFF	89.56	5.3	12 51	-1				
HORSESHOE B.	90.51	10.5	12 57A	0				
OTTAWA	91.04	338.5	13 0A	1				
HUNGRY HORSE	92.47	4.6	13 7	1				
BUTTE	94.88	3.8	13 16	-1				
BOZEMAN	95.29	2.8	13 21	2				
RAPID CITY	96.88	357.2	13 27	1				17 16 PP
EUREKA	101.14	7.0	13 47	2				
SOUTH POLE	129.16	180.0	19 3	1				22 23
CAPE HALLETT	129.18	157.0	19 4K	2				
HUANCAYO	140.87	305.2	19 29	5				23 3 PKS

SEPTEMBER 1   12.H 50.M 3.5 EPICENTRE 39.03 74.34 DEPTH= 87.KM

DEPTH OF FOCUS= 0.009R

A= 0.21019 B= 0.75004 C= 0.62710 D= 0.9629 E=-0.2698
G= 0.1692 H= 0.6038 K=-0.7789 HT= -1.3

SE= 2.81

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
MURGAB	0.73	206.5						0 4 PG
ANDIJAN	2.30	319.2	0 35	-2				1 10 SG
FERGANA	2.40	305.2	0 36	-2				1 14 SG
DZHERGETAL	2.44	275.5	0 38	0				1 15 SG
KHOROG	2.66	235.3	0 42	1				1 18 SG
NARYN	2.72	27.3	0 38	-4	1 12	-2		
NAMANGAN	2.83	314.4	0 42	-2				1 25 SG
OBI-GARM	3.64	266.3	0 54	-1				1 54 SG
FRUNSE	3.85	2.6	0 54	-4	1 45	2		
STALINABAD	4.38	265.5	1 2	-3				2 13 SG
FABRICHNAYA	4.43	19.8			2 7	10		
LUNACHARSKOE	4.48	302.5	1 1	-6				2 13 S*
TASHKENT	4.51	302.2	1 7	0				2 14
PRZHEVALSK	4.62	40.5	1 15	6				
ALMATA-2	4.82	27.3						2 20 S*
TCHIMKENT	4.87	313.7	1 9	-3				2 40 SG
KURMENTY	5.00	35.2						2 26 S*
ILI	5.33	21.8	1 15	-3				2 35 S*
WARSAK DAM	5.50	205.0	1 18	-3	2 28	5		
SAMARKAND	5.75	278.7	1 20	-4				3 0 SG
LAHORE	7.46	180.1	1 43A	-5	3 11	0		2 26
DEHRA DUN	9.20	159.6	2 10	-1	3 54	0		2 18 PP
QUETTA	10.72	216.8	2 26A	-6	4 22	-9		3 19
SEMIPALATNSK	12.12	18.3	2 52	1				
ASHKABAD	12.58	270.1	2 51	-6	5 17	0		
KIZYL-ARVAT	14.06	275.7	3 10	-6				6 49
KARACHI	14.52	207.2	3 27	5	6 25	24		4 7
CHATRA	16.22	134.8	3 37	-6	6 43	3		
LHASA	16.65	119.2	3 46A	-3				
BOKARO	18.00	144.0	4 2	-3	7 16	-4		7 40 SS
BAKU	18.85	281.9	4 16	1				7 59
SHILLONG	19.94	127.1	4 21	-6	7 55	-6		8 20 SS
SVERDLOVSK	19.98	337.6	4 24	-3	8 6	4		
BOMBAY	20.10	184.2	4 31	2	8 23	19		4 46 PP
CALCUTTA	20.33	139.9	4 33	2	8 13	4		
POONA	20.43	181.3	4 37	5	8 24	13		4 54 PP
MAKHACH-KALA	20.61	289.6						8 31
TOCKLAI	21.02	119.5	4 34	-4				
KIROVOBAD	21.50	283.5	4 43	0				8 46 PCP
GORIS	21.67	280.2	4 47	3	8 40	6		
HYDERABAD	21.81	169.4	4 52	6	8 52	16		5 34 PPP
VIZIANAGRAM	22.29	156.6	4 52	2				9 5
TIFLIS	22.62	286.3	4 55	1	8 57	6		9 43
LANCHOW	23.51	87.9	5 3	1	9 17	11		
IRKUTSK	24.58	47.6	5 13	0	9 36	12		
ULAN-BATOR	25.09	58.6	5 15	-3	9 37	4		
KYAKHTA	25.29	52.8	5 17	-3	9 55	19		
CHENGTU	25.65	99.9	5 21	-2	9 49	7		
SOTCHI	26.29	291.2	5 29	0				6 10 PP
MADRAS	26.43	167.1	5 28	-2	9 54	-1		6 21 PPP
KUNMING	27.64	111.9	5 41	0				
KODAIKANAL	28.81	173.6						15 11
SIMFEROPOL	30.25	294.4	6 5K	1	11 5	10		
KSARA	31.22	272.5	6 18	5	11 30	19		7 24 PP
JERUSALEM	32.51	269.4	6 26	2				9 49
PULKOVO	34.48	321.6	6 41	0	12 7	5		7 53 PP
IASI	34.67	299.1	6 44	1				7 26
BUCHAREST	35.99	294.5	6 3	-51				7 3
HELWAN	36.35	268.8	6 57	0				9 22
APATITY	36.38	334.9	6 56	-1	12 38	7		14 57 SS
LWOW	36.88	303.8	7 3	2				8 26 PP
HELSINKI	37.19	321.1	7 4	0				7 13
HONG KONG	37.76	104.4	7 9	0				
CHANGCHUN	38.02	65.9	7 10	-1				
SODANKYLA	38.64	332.7	7 15	-1	13 12	6		8 50 PP
WARSAW	38.68	307.9						9 42 PCP
KRAKOW	39.50	304.5	7 24	1				9 36 PCP
RACIBORZ	40.61	304.7	7 17	-15				
UPPSALA	40.79	319.8	7 34K	0				9 8 PP
KIRUNA	41.03	332.1	7 36K	0	13 47	6		
BRATISLAVA	41.58	302.0	7 42	2				9 16 PP
TIKSI	42.43	22.5	7 47	0	14 7	5		9 26 PP
COPENHAGEN	43.56	313.5			14 28	10		9 44 PP
SKALSTUGAN	43.61	325.0	7 57K	0				
TRIESTE	44.34	299.0	8 3K	0	14 36	6		9 46 PP

HALLE	44.35	307.6	8 4	1	14 43	13		9 46 PP
PLAUEN	44.39	306.1	8 1	-2				
JENA	44.67	306.8	8 6	1				9 45 PP
SONNEBERG	45.01	306.1	8 9	1				9 32
MESSINA	45.24	288.4	8 12	2	14 55	12	9 49	
FLORENCE X.	46.55	297.2	8 20K	0	15 16	15	10 1	
STUTTGART	46.62	304.3	8 21K	0				9 55 PCP
EBINGEN	46.91	303.6	8 24K	1				
STRASBOURG	47.58	304.4	8 29K	1				10 22 PP
BASLE	47.98	303.0	8 6	-25				24 13
NEUCHATEL	48.54	302.5	8 35	-1				
MONACO	49.20	298.2	8 41K	0				
MATUSIRO	49.61	71.7	8 45	1				
MAGADAN	50.76	39.7						23 4
PARIS	50.88	305.9	8 53	-1				10 53 PP
CLERMONT-FD.	51.44	302.1	9 0K	2				
DURHAM	51.62	314.2	8 59K	0				
KEW	51.82	309.9	9 2	1				
RELIZANE	57.21	291.7	9 41	1				11 40 PP
TOLEDO	58.60	298.0	9 49A	-1				
TAMANRASSET	59.93	276.0	9 59K	0				12 15 PP
COLLEGE	71.31	17.6	11 12	0				
HUNGRY HORSE	92.69	5.6	13 8	5				
EUREKA	101.30	8.1	13 33	-9				
SOUTH POLE	128.84	180.0	19 0	3				22 21 PKS
HALLEY BAY	130.10	198.8	19 6	6				21 32 PP

SEPTEMBER 1 23.H 59.M 55.S EPICENTRE 18.08 147.16 DEPTH= 0.KM

A=-0.79923 B= 0.51582 C= 0.30849 D= 0.5423 E= 0.8402
G=-0.2592 H= 0.1673 K=-0.9512 HT= 5.1

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
GUAM	5.14	207.2	1 20	0				
TRUK	11.49	156.0	2 41	-7	4 36	-23		
KOROR	16.33	230.7	3 54	2				
TUKUBASAN	19.12	342.3	4 28K	1	8 16	18		5 18
KYOTO	19.70	331.1	4 32K	-2	8 13	3		
MATUSIRO	20.02	338.6	4 37K	0	8 24	6		
SENDAI	20.85	346.0	4 47	1	8 36	2		
NAGASAKI	21.32	316.5	4 57	6	8 35	-8		
MIZUSAWA	21.62	347.2	4 57	3	9 0	11		
RABAUL	22.68	167.0	5 4A	0				5 26
MANILA	25.36	266.0	5 34	4	10 0	5		
BAGUIO CITY	25.43	270.3	5 32	1	11 18	82		
Y.-SAKHLINSK	29.02	353.7	6 10	6				
PETROPAVLOVK	36.11	11.8	7 2	-4				
PHU-LIEN	38.25	280.8	7 14	-10	13 22	4		
MAGADAN	41.50	2.8	7 51	1	14 10	3		
ULAN-BATOR	44.23	321.4	7 14	-59	14 44	-3		
BRISBANE	45.65	172.7	7 23K	-61	15 4	-3		
IRKUTSK	47.78	325.7	7 42	-59	15 37	-1		
HONOLULU	51.43	76.9	9 8	-1				
KIPAPA	51.49	76.7	8 8	-61				
SHILLONG	51.57	288.6	9 9K	-1	16 29	-1		19 6
RIVERVIEW	51.76	175.8	9 21	10	16 41	8		
TIKSI	54.62	353.0	9 31	-2	17 11	-1		
CHATRA	55.70	290.5	9 40	0	17 22	-4		
SEMIPALATNSK	61.59	318.0	10 17	-5	18 38	-5		
COLLEGE	63.22	25.7	10 31	-1	19 1	-3		10 53
DEHRA DUN	63.37	295.3	10 35	2	19 6	1		20 56
LAHORE	66.40	297.1	10 50	-3	19 39	-4		12 33
NAMANGAN	67.55	307.5	11 1	1				
POONA	69.11	283.4	11 9	-1				
BOMBAY	69.98	284.0			20 22	-3		25 5
STALINABAD	70.03	305.2	11 18	2				
QUETTA	72.88	296.8	11 32	-1	20 55	-4		11 41 PCP
SVERDLOVSK	73.18	325.0	11 32	-3	20 58	-4		
HORSESHOE B.	76.21	42.3	11 52K	0				
VICTORIA	76.30	43.2	11 51K	-1				
LILLOOET	76.80	40.8	11 56K	1				
CORVALLIS	77.22	47.1	11 59	1				
SEATTLE	77.22	43.9	11 59K	1	21 47	0		

SHASTA	78.77	50.8	12 6K	0			
MINERAL	79.44	51.0	12 10K	0			
BERKELEY	79.57	53.6	12 11K	1	22 10	-2	
RESOLUTE	79.69	13.8	12 11K	0			
NORD	80.17	357.6	12 12K	-2			
LICK	80.19	54.0	12 14K	0			12 30
BANFF	80.58	39.3	12 11K	-5			
FRESNO	81.76	54.1	12 22K	0			
APATITY	82.08	339.2	12 22K	-2	22 35	-3	12 34
KING RANCH	82.21	55.5	12 26K	2			
HUNGRY HORSE	82.38	41.7	12 26	1			
WOODY	82.79	54.9	12 28K	1			
TINEMAHA	82.88	53.5	12 29K	1			
ISABELLA	83.11	54.9	12 29K	0			
THULE	83.30	7.9	12 23	-7	22 40	-10	
CHINA LAKE	83.73	54.5	12 33K	1			
PASADENA	83.79	56.2	12 33K	1	23 2	7	12 47
EUREKA	83.84	50.6	12 33	0			
BUTTE	84.08	43.6	12 34	0	22 59	1	13 29
SODANKYLA	84.41	340.4	12 34	-2	22 51	-10	
RIVERSIDE	84.46	56.2	12 35K	-1			
MAKHACH-KALA	84.70	313.4	13 31	54			
TERRE ADELIE	84.76	182.3	12 33	-4			
PALOMAR	85.07	56.7	12 40K	1			
BOZEMAN	85.20	43.5	12 42	2			
BARRETT	85.44	57.3	12 42K	1			
BOULDER CITY	85.82	53.6	12 44	1			16 2 PP
KIRUNA	86.02	342.2	12 42	-2	23 11	-6	
SALT LAKE C.	86.39	48.3	12 45	0			13 16
TIFLIS	87.02	312.9	12 51	2	23 16	-11	
PULKOVO	87.21	333.1	12 48	-1			
WILKES	88.42	194.0			23 39	-1	29 45 SS
HELSINKI	89.21	335.0	12 57	-2	23 41	-6	
TUCSON	90.22	56.0	13 6	2			16 37 PP
BOULDER	91.29	47.1	13 12	3			
SCORESBY SD.	91.34	356.4	13 8	-1	24 12	5	23 36 SKS
SKALSTUGAN	91.40	341.5	13 8	-1			16 47 PP
UPPSALA	92.25	337.1	13 1'K	-2	24 6	-9	23 41 SKS
SIMFEROPOL	92.70	319.1	13 15	0	23 47	-31	
MIRNY	93.43	199.0	13 18	-1			13 58
WARSAW	95.84	330.0	13 29	-1	24 43	-2	16 56
SCOTT BASE	96.41	175.9	13 32	0			
KSARA	96.69	308.6	13 37	4			
COPENHAGEN	97.17	336.1			24 12	-45	31 35 SS
KRAKOW	97.77	328.8	13 38	0			
BUCHAREST	97.85	321.7					20 38
HAMBURG	99.70	335.7	13 49	2			17 42 PP
HALLE	100.44	333.4	17 55	245			17 55
FAYETTEVILLE	100.86	46.4	13 52	0			17 53
JENA	101.02	333.2	17 56	243			18 28 PP
PLAUEN	101.08	332.6	17 59	246			18 17
SONNEBERG	101.59	333.0	18 6	250			
DURHAM	102.70	342.0					18 19 PP
BENSBERG	102.82	335.4					18 1'
STUTTGART	103.66	332.9	14 3	-2	25 53	2	18 25 PP
TRIESTE	103.81	328.4	17 34	209			33 1
STRASBOURG	104.41	333.5			25 59	2	18 33 PP
OTTAWA	105.79	29.9	19 2	777			
PARIS	106.35	336.5	18 31	777			18 43 PP
FLORENCE X.	106.39	328.3	18 34	777			32 32 PS
MESSINA	107.92	321.7					19 4
CLERMONT-FD.	108.58	334.3					19 10
PALISADES	109.94	31.9			25 11	-1	28 31 PS
ALGIERS UNI.	115.78	328.5			25 29	-6	19 34
ALICANTE	116.18	332.0	18 42	-3	25 31	-5	
RELIZANE	117.82	329.6					19 52 PP
GRANADA	118.51	333.6			27 52	127	20 17 PP
BERMUDA	121.29	31.5			25 53	-1	20 25 PP
TAMANRASSET	124.73	315.8	19 4	2			20 50 PP
HUANCAYO	138.60	87.8	19 31	3			22 27 PP
LA PAZ	146.30	92.8	19 49	8			20 17

SEPTEMBER 2 9.H 46.M 29.S EPICENTRE -14.92-173.35 DEPTH= 0.KM

A=-0.96022 B=-0.1'194 C=-0.25581 D=-0.1158 E= 0.9933
G= 0.2541 H= 0.0296 K=-0.9667 HT= 5.8

The scanned images of the bulletins of the International Seismological Summary (ISS) have been obtained thanks to funding provided by the US National Science Foundation through grant EAR-9725140 (Villaseñor et al., 1997) and collected by SGA Storia Geofisica Ambiente (Bologna) on behalf of the Istituto Nazionale di Geofisica e Vulcanologia (Rome), in the frame of the EUROSEISMOS project.
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SE= 1.87

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
APIA	1.88	54.1	0 29	-5	0 49	-10		
SUVA	8.51	246.7	2 10	2	3 51	5		3 21
ONERAHI	23.50	205.7	5 25	12				
KARAPIRO	24.94	201.2	5 31	5				
BRISBANE	33.63	242.6	6 43A	-2	12 0	-7		
RIVERVIEW	37.17	233.1	7 10A	-5	12 51	-11		8 37 PP
KIPAPA	39.12	23.0	7 33	2				
TRUK	41.05	300.5	7 47	0				
MELBOURNE	43.28	230.2	8 2	-3				
GUAM	50.15	302.2	8 59	0				10 28 PCP
KOROR	56.24	289.5	9 45	0				
CAPE HALLETT	58.18	185.8	9 58	0	18 0	1		16 21
SCOTT BASE	63.73	184.6	10 36	0	19 15	5		
TUKUBASAN	67.22	320.5	10 47K	-11				
MATUSIRO	68.60	319.7	11 6A	-1	20 9	0		20 38
BYRD STATION	69.43	171.3	11 13	1	20 16	-3		17 38 PKP
WILKES	70.86	204.6			20 35	-1		
BERKELEY	71.09	40.6	11 22A	0	20 40	1		
LICK	71.16	41.4	11 23A	0				12 5
KING RANCH	71.23	44.0	11 24	1				
UKIAH	71.26	39.1	11 23	0				
PASADENA	71.65	45.8	11 25K	-1	20 48	3		18 50
BARRETT	71.92	47.8	11 28K	1				
PETROPAVLOVK	71.93	342.7	11 27	0	20 50	2		
FRESNO	72.02	42.8	11 29A	1				
WOODY	72.04	44.1	11 28	0				
RIVERSIDE	72.11	46.3	11 28K	0				
PALOMAR	72.14	47.2	11 29K	0				
ISABELLA	72.28	44.4	11 30	1				
SHASTA	72.74	38.2	11 32A	0				
CHINA LAKE	72.95	44.6	11 33	0				
MINERAL	73.00	38.9	11 34A	0				
Y.-SAKHLINSK	73.10	330.2	11 34	0	21 5	3		
TINEMAHA	73.22	43.3	11 35K	0				
BOULDER CITY	74.94	45.8	11 46	1				
TUCSON	75.99	50.8	11 51	0	22 10	36		
EUREKA	76.04	42.2	11 52	1				
VICTORIA	77.13	31.5	11 57	0				
SEATTLE	77.15	32.6	12 0	3	21 49	3		
ZO-SE	77.71	307.0	12 1	0	21 53	1		
HORSESHOE B.	77.77	30.9	12 7	6				
MIRNY	77.89	204.1	11 59	-2	21 50	-4		
SALT LAKE C.	79.40	42.8	12 10	0				
MAGADAN	79.69	342.4	13 9	58	22 11	-3		
NANKING	79.95	307.0	12 12	-1				
HONG KONG	80.04	296.3			22 26	9		
TACUBAYA	80.52	67.0	12 11	-5	22 19	-3		16 58 PP
CHANGCHUN	80.85	320.0	12 16	-1				
CANTON	81.08	296.7	12 20	1	22 33	5		
BUTTE	81.64	37.9	12 22	0	22 33	-1		
COLLEGE	81.88	10.7	12 22	-1	22 23	-13		16 20 PP
HUNGRY HORSE	82.04	35.4	12 23	-1				13 17
BOZEMAN	82.37	38.8	12 27	2				
BANFF	82.79	32.5	12 27	-1				
BOULDER	83.48	45.8	12 29	-2				
PEKING	85.17	313.4	12 39A	-1				
RAPID CITY	86.60	42.8	12 47	0				13 46
DALLAS	87.08	55.1	12 51	2				
FAYETTEVILLE	90.16	52.7	13 4	0	23 58	2		
KUNMING	90.89	295.6	13 9	2	23 44	-19		
CHENGTU	91.32	301.3	13 9	0				
LANCHOW	92.99	306.4	13 18	1	23 51	-30		
ULAN-BATOR	94.22	318.4	13 22	0	23 58	-34		
IRKUTSK	97.04	322.1	13 34	-1	24 59	3		
LA PAZ	99.86	110.0			24 28	-52		32 31 SS
BOGOTA	100.13	87.9			24 28	-54		
RESOLUTE	101.25	15.4			24 38	-53		
LHASA	102.01	297.6			24 42	-55		
PALISADES	106.69	51.2			24 59	-6		18 39 PP
DEHRA DUN	113.27	296.9	15 8	-212				
BERMUDA	113.47	60.9			25 7	-19		19 31 PP
BOMBAY	116.88	283.8						25 39
SCORESBY SD.	121.75	10.9			26 3	7		
QUETTA	122.87	296.4			26 6	7		20 36 PP

KIRUNA	126.37	353.6	19 7	2				38 2 SS
PULKOVO	131.96	344.1						22 41 PKS
UPPSALA	134.42	352.3						22 49 PKS
TIFLIS	137.62	316.7	19 29	3				23 5 PKS
COPENHAGEN	139.08	355.0						29 19 SKKS
DURHAM	139.72	7.4	19 32	2				
SOTCHI	139.86	322.0	19 32	1				
WARSAW	141.05	345.9						22 38
HAMBURG	141.35	356.8						23 17 PKS
SIMFEROPOL	142.11	327.8	19 31	-3				23 17 PKS
HALLE	143.26	354.5	19 31	-5				26 22
KRAKOW	143.33	345.6	19 33	-4				20 19
RACIBORZ	143.69	347.4	19 37	0				
JENA	143.86	354.7	19 34	-3				23 3 PP
BENSBERG	144.05	359.4	19 38	0				
PLAUEN	144.23	354.0	19 47	9				22 2
BRATISLAVA	145.74	347.5	19 43A	2				23 5 PP
KARLSRUHE	145.97	357.9	19 47A	6				22 52
CAMPULUNG	145.99	336.5	19 57	16				20 2
PARIS	146.03	4.9	19 43A	2				23 19 PP
STUTTGART	146.18	357.0	19 44K	3				28 26 PKKP
BUCHAREST	146.27	334.6	19 43	1				23 21
STRASBOURG	146.42	358.7	19 43	1				22 54 PP
EBINGEN	146.78	357.2	19 47	4				
ISTANBUL KA.	147.47	327.6	19 35K	-9				
BASLE	147.48	358.8	19 49	5				21 48
BESANCON	147.76	0.9	19 46	2				
BELGRADE	147.98	341.3	19 49	5				
TRIESTE	148.79	350.4	19 49K	3	26 54	2		23 18 PP
SOFIA	148.82	335.9	19 52	6				
JERUSALEM	149.00	307.7	19 46	0				
CLERMONT-FD.	149.10	4.8	19 54K	8				
FLORENCE X.	150.97	353.1	19 43	-6				20 39
MONACO	151.28	358.8	20 0	10				20 19 PKP2
HELWAN	152.84	307.4	19 52	0				23 46 PP
MESSINA	155.51	342.9	19 24	-31				23 30 PKS
GRANADA	156.03	20.5	20 21A	25				
MBOUR	157.14	88.3			27 7	5		23 37 SKP
ALGIERS UNI.	158.00	7.7	20 1	2				24 57 PP
TAMANRASSET	172.11	7.6	20 13	2				25 21 PP

SEPTEMBER 2 14.H 20.M 14.S EPICENTRE 51.69-168.01 DEPTH= 0.KM

A=-0.60885 B=-0.12934 C= 0.78267 D=-0.2078 E= 0.9782
G=-0.7656 H=-0.1626 K=-0.6224 HT= -6.0

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
COLLEGE	16.83	30.6	3 52	-4	6 43	-19		4 41
SITKA	19.65	61.3	4 31	0	7 58	-8		
PETROPAVLOVK	20.29	287.2	4 39	2	8 26	7		
MAGADAN	24.20	305.1	5 16	0				
ALBERNI	27.29	77.8	5 46K	1				
HORSESHOE B.	28.19	76.8			10 41	4		
VICTORIA	28.44	78.6	5 56K	0				9 7 PCP
SEATTLE	29.48	79.6	6 7A	2	11 4	6		7 1 PP
CORVALLIS	30.28	85.7	6 13K	1				
KIPAPA	31.20	161.8	6 20	0				7 40 PP
HONOLULU	31.30	162.0	6 21	0				
Y.-SAKHLINSK	31.97	281.3	6 26	-1				
BANFF	32.13	69.8	6 27K	-2				
SHASTA	32.92	91.3	6 36K	0				
UKIAH	33.33	94.3	6 41	2				
MINERAL	33.62	91.1	6 42K	0				9 25
TIKSI	33.75	329.4	6 40	-3	12 2	-3		
HUNGRY HORSE	34.18	73.8	6 46	0	12 12	1		17 36 SCS
BERKELEY	34.70	95.2	6 50K	-1	12 17	-2		7 12
BRANNER	35.03	95.8	6 54K	0				
RENO	35.20	90.9	6 56K	1				
LICK	35.41	95.4	6 57K	0				7 7
BUTTE	36.16	76.6	7 2	-1	12 46	4		
RESOLUTE	36.62	25.2	7 7K	0	12 50	1		17 16 SCS
FRESNO	36.91	94.6	7 10K	0				
BOZEMAN	37.25	76.2	7 13	1				8 1

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EUREKA	37.63	88.0	7 16	0				
TINEMAHA	37.70	92.9	7 17K	1				
KING RANCH	37.87	96.3	7 19	1				
WOODY	38.18	95.1	7 21K	1				7 32
ISABELLA	38.45	94.8	7 23K	1				
CHINA LAKE	38.88	93.9	7 26K	0				
SALT LAKE C.	39.43	83.3	7 30	-1				
TUKUBASAN	39.55	267.8	7 31	-1				
PASADENA	39.62	96.4	7 33K	1	13 35	0		8 0
RIVERSIDE	40.22	95.9	7 36K	-1				
BOULDER CITY	40.50	91.4	7 40	0	13 35	-13		
MATUSIRO	40.51	269.7	7 40K	0	13 54	6		
PALOMAR	40.97	96.2	7 45K	2				
BARRETT	41.54	96.7	7 49K	1				8 0
RAPID CITY	42.82	73.6	7 58	-1				
LARAMIE	42.97	78.5	7 59	-1				
BOULDER	43.90	79.8	8 8	1				
CHANGCHUN	44.08	287.2	8 8K	-1	14 45	5		
TUCSON	45.45	92.3	8 20	0	15 5	5		9 13
IRKUTSK	50.73	307.5	9 1	0	16 15	1		
PEKING	51.80	288.7	9 8K	-1	16 31	2		11 10 PP
ULAN-BATOR	52.05	301.8	9 9	-2	16 32	-1		
GUAM	53.69	242.4	9 20	-3				
FAYETTEVILLE	53.16	76.4	9 16	-3	16 51	3		19 4 SCS
ZO-SE	54.71	277.0	9 30K	0	17 12	3		
TRUK	55.05	231.3	9 3	-30				
NANKING	55.52	279.5	9 35	-1	17 23	4		
SCORESBY SD.	55.70	13.1	9 34	-4	17 25	3		21 26 SS
OTTAWA	57.46	56.6	9 48K	-2	17 48	3		21 50 SS
IVIGTUT	57.67	29.8	9 51	-1	17 56	8		
SHAWINIGAN	58.19	54.0	9 52K	-3				10 4
BREBEUF	58.47	55.4	9 54	-3	17 58	0		
APATITY	59.99	350.7	10 6K	-2	18 12	-6		12 22 PP
KIRUNA	60.63	356.3	10 11K	-1	18 27	1		10 23
SODANKYLA	60.75	353.6	10 12	-1	18 27	-1		39 32 PKPPKP
PALISADES	61.45	59.2	10 16K	-2	18 36	-1		12 30 PP
LANCHOW	61.64	293.1	10 19K	0	18 43	4		
CHAPEL HILL	62.20	66.6	9 20	-63				
COLUMBIA	62.43	69.4	10 22	-2	18 50	1		20 9 SCS
SEMIPALATNSK	63.01	318.2	10 37	9				
HALIFAX	64.07	50.3	10 32K	-3				
KOROR	64.48	248.0	10 35	-3				
SVERDLOVSK	64.68	332.8	10 39	0	19 19	2		
SKALSTUGAN	65.07	359.9	10 41K	-1				
CANTON	65.34	276.4	10 43	0	19 28	3		
HONG KONG	65.36	275.2			19 28	2		
CHENGTU	65.42	288.7	10 44K	0	19 31	5		13 8 PP
BAGUIO CITY	65.78	265.9	10 44	-2	19 37	6		
PULKOVO	67.91	350.1	11 0	0	19 57	1		
HELSINKI	68.00	353.0	10 59	-1	19 58	1		13 27 PP
UPPSALA	68.72	356.9	11 4K	-1	20 5	-1		11 15
KUNMING	70.35	285.6	11 14K	-1	20 27	2		13 54 PP
BERMUDA	72.80	59.5	11 29	0	20 53	0		25 46 SS
COPENHAGEN	72.99	359.7	11 31	1	21 1	5		12 7
DURHAM	73.30	8.2	11 17K	-15	21 0	1		
LHASA	73.61	297.0	11 26K	-8	21 10	7		
NAMANGAN	74.14	317.2	11 37	0	21 11	3		
RATHFARNHAM	74.26	11.3	11 37K	-1			12 1	
HAMBURG	75.10	1.2	11 44	1				
WITTEVEEN	75.76	3.3	11 53	7				
WARSAW	76.17	354.3	11 49K	0	21 32	1		22 5 PS
SHILLONG	76.28	293.8	11 47K	-2				
KEW	76.69	7.9	11 53	1	21 41	4		14 37 PP
HALLE	77.18	0.0	11 55	1	21 47	5		12 14 PCP
STALINABAD	77.39	317.8	11 57	1	21 49	5		
BENSBERG	77.64	3.1	11 58K	1				12 12
JENA	77.75	0.3	11 58	0				14 50 PP
PLAUEN	78.18	359.9	12 14	14				12 44
SONNEBERG	78.30	0.5	12 1	0				12 56
KRAKOW	78.41	354.8	12 2	1	21 58	3		13 1
RACIBORZ	78.47	355.9	12 3	1	22 0	4		
PRAGUE	78.59	358.4	12 4	2	22 4	7		15 3
PARIS	79.55	6.4	12 9K	2				
KARLSRUHE	79.63	2.4	12 10A	2				12 29
STUTTGART	79.89	1.9	12 10K	1	22 18	7		
DEHRA DUN	79.94	306.6	12 10	0				
WARSAK DAM	80.00	313.3	12 9	-1				
STRASBOURG	80.04	2.8	12 11	1				
TUBINGEN	80.12	2.0	12 12	1				

BRATISLAVA	80.42	356.5	12 14A	2	22 21	5		15 6
EBINGEN	80.47	2.1	12 14K	2				12 26 PCP
IASI	80.58	349.3	12 15	2				
KISHINEV	80.61	348.4	12 12	-1				
HURBANOVO	80.67	355.8	12 15	2	22 7	-12		
LAHORE	80.75	310.0	12 13K	-1	22 23	3		
BASLE	81.08	3.0	12 16K	0				14 5
ZURICH	81.27	2.3	12 18	1				
BESANCON	81.30	4.1	12 15	-2				
NEUCHATEL	81.59	3.5	12 20	2				
SIMFEROPOL	81.86	344.3	12 21	1	22 35	4		
SOTCHI	82.11	340.0	12 22	1				
CLERMONT-FD.	82.62	6.3	12 26K	2				
TIFLIS	82.69	335.9	12 26	2				
SAN JUAN	82.90	69.5	12 24	-1				
TRIESTE	83.03	358.8	12 26	0	22 52	9		23 46 PS
BUCHAREST	83.49	349.9	12 28K	0	22 53	5		24 12
BELGRADE	83.59	354.0	12 30K	1	22 56	7		12 59
MONACO	84.87	3.3	12 36K	1				
FLORENCE X.	84.91	0.5	12 30K	-5	23 3	1		15 52 PP
QUETTA	85.30	314.7	12 38K	1	23 9	3		15 54 PP
BRISBANE	85.94	214.1	12 42	2				
ROME	86.79	359.6	12 45K	1	23 26	6		
TORTOSA	87.32	8.7	12 51	4				
TOLEDO	87.73	12.3	12 50K	1				16 9 PP
LISBON	88.08	16.4	12 48K	-3				
KARACHI	88.98	312.4	13 0	5				
ST. LUCIA	89.32	68.2	12 56	-1				
ALICANTE	89.67	9.8	13 0	2	23 51	4		16 34 PP
ST. VINCENT	89.85	68.9	12 58	-1				
MESSINA	90.43	357.2	13 2	0	23 34	-20		16 40 PP
GRANADA	90.45	12.4	12 59A	-3				16 41 PP
ALGIERS UNI.	91.56	7.2	13 7	0	23 40	-24		16 42 PP
TRINIDAD	91.70	70.6	13 6	-2				
RELIZANE	92.35	9.3	13 11	0				16 45 PP
JERUSALEM	94.41	340.3	13 20A	0				
HELWAN	97.03	343.2	13 33A	1				17 31 PP
TAMANRASSET	105.63	6.2	14 11	777	24 44	-54		18 27 PP
CAPE HALLETT	124.63	187.9	18 57	-2				28 42 PKKP
SCOTT BASE	130.21	186.8	19 9	0				22 30 PKS
TANANARIVE	137.02	306.1	19 24	2				22 6 PP
PRETORIA	151.31	328.4	19 51	5				
PIETERMZBURG	154.04	321.1	20 0A	10				
KIMBERLEY	155.16	332.4	19 53K	1				

SEPTEMBER 2 21.H 27.M 38.S EPICENTRE 36.51 71.18 DEPTH= 222.KM

DEPTH OF FOCUS= 0.030R

A= 0.25993 B= 0.76262 C= 0.59232 D= 0.9465 E=-0.3226
G= 0.1911 H= 0.5606 K=-0.8057 HT= -0.4

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
KHOROG	1.03	19.0	0 33	1	0 56	-2		
OBI-GARM	2.48	332.2	0 45	-1	1 21	0		
WARSAK DAM	2.52	173.0	0 41	-5				
DZHERGETAL	2.71	[illegible].7	[illegible]	0	[illegible]	0		
STALINABAD	2.80	317.5	0 54	5	1 27	0		
MURGAB	2.87	48.8	0 51	1				
FERGANA	3.90	6.8	1 2	0	1 49	-1		
ANDIJAN	4.34	12.1	1 7	0	1 56	-4		
NAMANGAN	4.48	4.8	1 9	0	1 59	-4		
LUNACHARSKOE	5.03	343.9	1 16	0	2 13	-2		
TASHKENT	5.03	343.5	1 16	0	2 15	0		2 2
LAHORE	5.59	151.2	1 19K	-4	2 15	-13		1 47 *SP
TCHIMKENT	5.91	348.6	1 27	0	2 32	-3		
NARYN	6.19	35.9	1 30	-1	2 31	-10		1 53
FRUNSE	6.88	21.3	1 40	0	2 55	-2		2 32
RYBACHE	7.04	31.1	1 40	-2	2 55	-6		2 32
QUETTA	7.23	210.5	1 42K	-2	2 59	-7		2 18 *SP
FABRICHNAYA	7.78	29.5	1 50	-1				2 49
PRZHEVALSK	8.17	40.9	1 57	1				3 8
ALMATA-2	8.26	33.2	1 58	1				2 50

DEHRA DUN	8.43	135.1	1 58	-2	3 28	-5		2 6 PP
KURMENTY	8.52	37.7	1 58	-3				
ILI	8.69	29.4	2 1	-2				3 20
ASHKABAD	10.33	281.9	2 27	3				3 16
KARACHI	11.22	199.5	2 45K	10	4 53	16		3 34 *SP
KIZYL-ARVAT	12.07	286.5	2 48	2				3 30
SEMIPALATNSK	15.35	22.4	3 26	-1	6 9	-2		5 21
CHATRA	16.66	120.9	3 35	-7	6 45	5		
BAKU	17.11	289.5	3 51	4	6 51	2		
BOMBAY	17.60	174.9	3 55	3	7 4	5		4 45
BOKARO	17.84	131.0	3 55K	0	7 8	4		7 34 SS
LHASA	17.98	106.7	4 0A	3	7 13	6		
POONA	18.06	171.8	3 56	-1	7 15	7		4 7 PP
MAKHACH-KALA	19.29	296.8	4 6	-4				
GORIS	19.79	286.2	4 14	-1				
KIROVOBAD	19.82	289.8	4 14	-1				
HYDERABAD	20.06	159.4	4 19K	1	7 49	3		4 42 PP
YUMEN	20.58	71.5	4 24	1				
SHILLONG	20.77	115.9	4 26A	1	8 5	7	5 0	5 27 *SP
TIFLIS	21.08	292.4	4 29	1	8 9	5		9 13
VIZIANAGRAM	21.28	146.2	4 29	-1				5 35
SVERDLOVSK	21.53	344.1	4 33	1	8 17	5		5 5 PP
TOCKLAI	22.27	109.2	4 38	-1				
MADRAS	24.76	158.7	5 22	19	9 49	42		6 10 PP
LANCHOW	26.25	81.1	5 18A	1	9 36	5		
KODAIKANAL	26.77	166.1						10 49
CHENGTU	27.88	92.5	5 32A	1	10 1	4		
IRKUTSK	28.13	45.4	5 34A	0				11 46 SS
ULAN-BATOR	28.56	55.2	5 39	2	10 11	3		
KYAKHTA	28.82	50.1	5 39A	-1	10 10	-2		11 52 SS
KSARA	28.89	275.2	5 48	8	10 10	-3		
SIMFEROPOL	29.12	298.4	5 42	0	10 22	5	6 28	11 36 *SS
KUNMING	29.25	104.1	5 44A	1	10 21	2		6 51 *SP
KABANSK	29.41	46.9	5 45A	0				10 22
JERUSALEM	30.02	271.6	5 48	-2			7 1	
PAOTOW	30.49	70.3	5 57	3				
COLOMBO	30.52	162.8						6 43
PORT BLAIR	31.44	136.4	5 58	-5	10 56	3		7 2 PP
ISTANBUL KA.	32.90	291.0	5 54	-21				
IASI	33.79	302.3	6 24	1				7 24
HELWAN	33.82	270.4	6 22	-1				7 32 PP
PHU-LIEN	34.60	107.1	6 29	-1	11 41	-1		
BUCHAREST	34.83	297.3	6 33	1	11 44	-1	7 42	17 8
PEKING	35.22	70.3	6 38A	3	11 48	-3	7 22	13 15 *SS
LWOW	36.28	306.6	6 44	0	12 13	6		7 54
SOFIA	36.98	294.7	6 49	-1			7 34	9 30
HELSINKI	37.65	323.8	6 55	0	12 36	8		8 30 PP
APATITY	37.67	337.4	6 55A	0	12 33	5	7 38	8 5 PP
TIMISOARA	38.20	299.9	8 12	72				16 1
WARSAW	38.32	310.4	7 0A	-1	12 45	7		8 33 PP
CANTON	38.61	98.4	7 6A	3	12 47	4		8 16 *SP
SKALNATE PL.	38.72	305.5	7 5	1	12 57	13		8 43 PP
BELGRADE	38.83	298.5	7 6A	1	12 44	-2		8 35 PPP
KRAKOW	38.93	306.9	7 5	-1				8 40 PP
NANKING	39.29	82.2	7 10A	1	12 59	6		8 19 *SP
HONG KONG	39.71	98.8	7 14	2	13 5	6		
SODANKYLA	39.79	334.9	7 13	0	13 3	3		8 46 PP
RACIBORZ	40.04	306.9	7 16	1				7 44 PP
HURBANOVO	40.13	303.5	7 19	3				9 49
BRATISLAVA	40.85	304.0	7 20	-2			8 9	9 2 PP
UPPSALA	41.15	321.9	7 23A	-1	13 20	0	8 14	8 35 *SP
CHANGCHUN	41.37	62.5	7 27A	1			8 14	
ZO-SE	41.52	82.4	7 28A	1	13 29	3	8 14	8 39 *SP
KIRUNA	42.14	334.0	7 32A	0	13 35	0		8 42 *SP
PRAGUE	42.47	307.1	7 35	0	13 46	7		8 44 PP
TRIESTE	43.41	300.7	7 41	-1	13 50	-3		9 29 PP
COPENHAGEN	43.53	315.3	7 44A	1	13 58	3	8 33	9 30 PP
MESSINA	43.69	289.7	7 44	-1	13 53	-4	8 30	9 27 PP
CHEB	43.79	307.2	7 50	5				8 55 *SP
PLAUEN	43.90	307.8	7 44	-2			8 35	9 32 PP
HALLE	43.95	309.3	7 45	-2			8 35	9 33 PP
JENA	44.22	308.5	7 48	-1			8 37	9 36 PP
JENA	44.22	308.5	7 48	-1			8 37	9 36 PP
SKALSTUGAN	44.28	326.7	7 49A	0				
SONNEBERG	44.51	307.7	7 51	0			8 40	9 2
HAMBURG	45.01	312.4	7 56	1				10 55
ROME	45.04	295.7	7 54	-1				10 52
FLORENCE X.	45.51	298.5	7 57	-2	14 43	20	9 9	9 37 PP
TIKSI	45.71	22.0	7 59	-2				8 48

STUTTGART	46.01	305.7	8 2A	-1	14 22	-8	8 54	10 0 PP
EBINGEN	46.25	304.9	8 4	-1			8 52	9 15 *SP
KARLSRUHE	46.48	306.2	8 6	-1				10 5 PP
STRASBOURG	46.97	305.7	8 9A	-1	14 46	2	8 58	10 4 PP
BENSBERG	46.99	309.0	8 10A	-1			9 1	
WITTEVEEN	47.06	311.6	8 11	0				
NEUCHATEL	47.81	303.7	8 18	1				
BAGUIO CITY	47.96	101.1	8 21	3				
DE BILT	48.06	310.7			15 2	3		
MONACO	48.21	299.3	8 20	0			9 8	9 32 *SP
BESANCON	48.41	304.2	8 18	-4			9 6	10 16 PP
MANILA	49.33	102.8	8 29	0				
PARIS	50.36	306.9	8 36K	0	15 34	3	9 26	10 34 PP
CLERMONT-FD.	50.67	302.9	8 40	1	15 38	3		9 52 *SP
KEW	51.53	310.7	8 45A	0	15 52	5	9 35	17 11 *SS
DURHAM	51.60	315.1	8 54	8	15 56	8	9 38	17 13 *SS
MATUSIRO	52.82	68.5	8 54A	-1	16 10	6	9 44	17 31 *SS
ALGIERS UNI.	53.56	292.1	8 56	-4	16 16	2	9 46	10 8 *SP
NORD	53.82	349.5	9 2A	0				
TORTOSA	53.98	297.7						10 21
SENDAI	54.19	65.6	9 4	-1			9 44	
TUKUBASAN	54.35	68.2	9 4K	-2				10 2 *SP
RATHFARNHAM	54.64	314.1	9 5A	-3	16 28	-1	9 56	
LWIRO	55.14	235.2	9 14A	3				
ALICANTE	55.57	295.2	9 6	-9	16 31	-10		11 12 PP
RELIZANE	55.81	291.9	9 8	-8			9 56	11 30 PP
SCORESBY SD.	57.11	336.4	9 25	0	16 58	-3		12 37
TOLEDO	57.56	298.2	9 27A	-2			10 17	10 48
ALMERIA	57.61	294.3	9 30	1				10 42
TAMANRASSET	57.69	275.8	9 28A	-1			10 17	11 41 PP
GRANADA	58.31	295.1	9 30	-4	17 24	7	10 45	18 46 *SS
TANANARIVE	59.48	206.1	9 42A	0			10 33	10 53 *SP
LISBON	61.65	298.8	10 4K	8				
THULE	64.48	350.2	10 7	-8	18 14	-21	10 37	12 41 PP
RESOLUTE	68.71	356.1	10 42A	1	19 32	7		11 53 *SP
PRETORIA	74.01	219.8	11 13A	0				
COLLEGE	74.44	16.2	11 15	-1			12 6	
PIETERMZBURG	76.11	215.9	11 24A	-1				
KIMBERLEY	78.20	220.5	11 35K	-1				
HALIFAX	89.47	329.5	14 0	87				
SHAWINIGAN	91.20	336.0	13 12	31				
OTTAWA	93.16	337.3	12 51	1				24 38 PS
HUNGRY HORSE	95.39	3.5	13 1	1				14 44
PALISADES	96.48	334.2			24 50	47		18 10 PPP
BUTTE	97.78	2.6	13 11	0				
RAPID CITY	99.63	355.9	13 21	2			14 15	17 26 PP
BERMUDA	99.99	323.2			25 16	44		27 42
EUREKA	104.10	5.7	13 42	3				
TINEMAHA	106.29	7.8						18 12 PP
FAYETTEVILLE	106.50	347.7						18 8 PP
WOODY	107.56	8.6						18 29 PP
CHINA LAKE	107.58	7.5						18 17
ISABELLA	107.64	8.2						18 28 PP
BOULDER CITY	107.67	5.1	13 16	777				
PASADENA	109.17	8.2						27 34 PS
DALTON	109.19	7.9						18 38 PP
RIVERSIDE	109.41	7.5						18 42 PP
PALOMAR	110.10	7.2						18 46 PP
SCOTT BASE	126.54	164.8	18 35	-2				
CAPE HALLETT	127.08	157.8	18 39K	1				
HUANCAYO	141.28	300.4	19 7	2				20 38

SEPTEMBER 5 11.H 36.M 5.S EPICENTRE 28.51 53.61 DEPTH= 0.KM

A= 0.52207 B= 0.70848 C= 0.47486 D= 0.8050 E=-0.5932
G= 0.2817 H= 0.3823 K=-0.8801 HT= 2.3

SE= 2.75

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
ASHKABAD	10.21	21.6	2 33	2				4 40
KIZYL-ARVAT	10.72	11.2	2 38	0				4 30
QUETTA	11.75	78.7	2 51K	-1	5 0	-5		4 0
BAKU	12.23	346.5	3 3	5	5 25	8		
KARACHI	12.25	99.5	3 3	4				

GORIS	12.51	333.1	3 3	1	5 29	6	
KIROVOBAD	13.56	335.9	3 15	-1			
TIFLIS	15.01	333.7	3 35	0	6 27	4	
KSARA	16.07	293.6	3 49	0	6 53	5	7 11 SS
STALINABAD	16.10	47.7	3 48	-1			
JERUSALEM	16.24	286.1	3 53	2	8 7	75	
WARSAK DAM	16.28	65.9	3 31	-21			
TASHKENT	18.08	40.9	4 15	1	7 42	8	
LAHORE	18.19	75.3	4 11	-5			
HELWAN	19.50	279.4	4 30K	-1	8 7	1	
BOMBAY	20.00	114.4	4 41	4	8 29	12	
POONA	21.02	113.8	4 48	0			
DEHRA DUN	21.36	79.2	4 58	7	9 4	20	9 50
FRUNSE	22.18	44.2	4 59	0	9 6	7	5 51 PPP
SIMFEROPOL	22.56	321.9	5 1	-2	9 8	2	10 31 SSS
BUCHAREST	27.06	313.3	5 45	-1	10 48	25	
IASI	27.56	319.7	5 53	2	10 43	12	
BOKARO	29.21	91.7					11 50
CHATRA	29.71	85.2	6 8	-2			
SEMIPALATNSK	29.74	35.3	6 8	-2			
MESSINA	33.03	297.0					20 48
KRAKOW	33.37	319.5	6 41	-1			7 55
WARSAW	33.85	323.5	6 45	-1	12 12	2	15 0
SHILLONG	34.11	85.8	6 47	-1			
PULKOVO	35.06	339.6	6 57	0			
TRIESTE	35.68	309.6	7 6	4			17 31
HELSINKI	37.12	336.6	7 12	-2			
HALLE	38.59	318.2	7 23	-3	13 17	-6	9 7 PP
STUTTGART	39.47	313.2	7 25	-9			16 42 SS
ZURICH	39.55	311.0	7 32	-2			
UPPSALA	39.70	332.3	7 33	-3			
MONACO	39.75	305.1	7 41	5			
COPENHAGEN	39.95	324.5	7 38	0	13 37	-7	
BASLE	40.25	311.0	7 20	-20			9 19
NEUCHATEL	40.57	310.1	7 41	-2			
APATITY	40.91	348.3	7 44A	-2	13 58	0	9 19 PP
BESANCON	41.27	310.3	7 49	1			9 18 PP
WITTEVEEN	42.09	318.6	8 1	6			
SODANKYLA	42.15	344.8	7 54	-2			9 29 PP
DE BILT	42.78	317.2	8 1	0			
CLERMONT-FD.	43.03	307.7	8 8	5	14 42	13	18 5 SS
TAMANRASSET	43.51	273.8	8 5	-2	14 40	4	
SKALSTUGAN	43.92	334.8	8 14	4			
KIRUNA	44.04	342.6	8 9A	-2			
IRKUTSK	44.18	43.0	8 12	0			
RELIZANE	45.06	293.3	8 23	4			9 6
ULAN-BATOR	45.15	49.5	8 17	-3			
KEW	46.01	315.3	8 31	4			
TANANARIVE	47.52	187.8	8 40	1			
GRANADA	48.21	295.8	9 26K	42	17 6	82	
TIKSI	58.58	21.1	9 58	-3	18 3	-1	13 36 PPP
NORD	59.11	350.7	10 1A	-4			
PRETORIA	59.23	206.8	10 3K	-2			
BAGUIO CITY	62.36	85.5	10 27	0			
KIMBERLEY	63.27	208.3	10 30	-3			
GRAHAMSTOWN	66.63	204.5	10 54	0			
MATUSIRO	69.62	58.8	11 13	0			
COLLEGE	85.44	9.0	12 41	0			
EUREKA	111.67	351.3	18 8	-28			
SOUTH POLE	118.35	180.0	18 48	-1			
SCOTT BASE	122.50	166.6	19 1	3			

SEPTEMBER 6 0.H 17.M 58.S EPICENTRE -20.06 -69.09 DEPTH= 1'3.KM

DEPTH OF FOCUS= 0.013R

A= 0.33549 B=-0.87817 C=-0.34098 D=-0.9341 E=-0.3569
G=-0.1217 H= 0.3185 K=-0.9401 HT= 4.7

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
LA PAZ	3.66	14.6	1 0K	4	1 42	3		1 58 SG
ANTOFAGASTA	3.78	198.8	0 56	-2	1 48	6		
HUANCAYO	9.97	322.1	2 19	-2	4 48	36		3 44

LA PLATA	17.77	148.6						3 32
BOGOTA	25.01	348.2	5 15	0	10 15	47		
CHINCHINA	25.69	344.9	5 21	0	9 50	11		5 56 PP
BALBOA HTS.	30.62	339.4	6 5	-1				
GALERAZAMBA	31.24	348.2			12 14	66		
TRINIDAD	31.43	14.4	6 13	0				
ST. LUCIA	34.80	13.8	6 41	-1			7 6	
FORT FRANCE	35.44	13.3	6 43	-4				
SAN JUAN	38.31	4.6	7 8	-3			7 33	12 57 PCS
TACUBAYA	49.08	321.2	8 41	3				11 43 PPP
BERMUDA	52.31	4.7	9 2	0	16 18	1	9 37	19 49 SS
COLUMBIA	54.95	347.9	9 20	-1				9 56 PP
CHAPEL HILL	56.47	350.3	8 31	-61				
HALLEY BAY	59.71	168.6	9 53	-2				11 8 PP
FAYETTEVILLE	60.69	336.8	9 55K	-7				
PALISADES	60.92	355.8	10 3	0	18 8	-2		10 34 PCP
MBOUR	61.63	60.4	10 8	0	18 26	7		10 58 PCP
LUBBOCK	61.82	329.2	10 3	-6				10 39 PCP
BREBEUF	65.37	356.5	10 32	-1				
OTTAWA	65.42	354.9	10 32K	-1	19 8	1	10 59	11 9 PCP
TUCSON	65.59	321.7	10 35	1			11 11	
SHAWINIGAN	66.38	357.2	10 39	0				
BOULDER	68.66	330.9	10 53	0				
HAYFIELD	69.47	319.8	10 59K	1			11 26	11 36 *SP
LARAMIE	69.81	331.5	10 54	-6				
PALOMAR	69.98	318.7	11 1	0				11 39 *SP
SOUTH POLE	70.06	180.0	11 2	0				
BOULDER CITY	70.57	322.0	11 5	0				
RIVERSIDE	70.73	318.9	11 7K	1			11 33	11 44 *SP
RAPID CITY	71.06	334.7	11 3	-5				13 32
DALTON	71.12	318.8	11 9K	1			11 35	13 33 PP
PASADENA	71.33	318.6	11 11	2			11 36	11 47 *SP
CHINA LAKE	72.09	320.2	11 14K	0				13 55 PP
SALT LAKE C.	72.40	327.3	11 17	1				
ISABELLA	72.51	319.6	11 18K	2			11 44	11 56 *SP
KING RANCH	73.08	318.6	11 22K	2			11 48	11 59 *SP
TINEMAHA	73.30	320.8	11 22K	1			11 48	
EUREKA	73.66	323.9	11 24	1			12 1	
FRESNO	74.05	319.7	11 26A	1				
LICK	75.54	319.2	11 35K	1			12 2	17 47
BOZEMAN	75.70	331.1	11 36	1			12 12	
RENO	75.87	321.9	11 38	2				
BERKELEY	76.26	319.3	11 39K	1				
BUTTE	76.66	330.5	11 41	1				
SCOTT BASE	77.21	190.4	11 44	1				
MINERAL	77.45	321.6	11 45A	1				
UKIAH	77.64	319.8	11 47	2			12 23	
SHASTA	78.13	321.5	11 47K	-1				17 54
HUNGRY HORSE	79.05	331.3	11 54	1				17 17 PPP
CAPE HALLETT	79.73	195.5	11 57K	0			12 26	15 59
CORVALLIS	81.12	324.1	12 6	2				
BANFF	81.79	332.5	12 7K	-1				
SEATTLE	82.56	326.9	12 14A	2				
VICTORIA	83.70	327.1	12 18	1				
GRANADA	83.90	47.0			22 39	8		
HORSESHOE B.	84.18	327.8	12 20K	0				
TAMANRASSET	84.32	63.4	12 21	0	22 22	-13	12 47	23 27 PS
LILLOOET	84.37	329.4	12 21K	0				
ALGIERS UNI.	88.38	49.9	12 44	4	23 30	16	13 12	23 5 SKS
COLLEGE	103.29	334.5	13 40	-8				17 55 PP
QUETTA	139.16	66.8	19 17	3				22 28 PP
POONA	145.03	86.1	19 55	31				
LAHORE	145.29	63.3	19 26	2			19 54	
GUAM	146.98	263.9	19 20	-7				20 19
MATUSIRO	151.02	310.3	19 41	8			20 9	
SHILLONG	161.62	69.1	19 50	3				

SEPTEMBER 6 4.H 54.M 39.S EPICENTRE 50.50-177.28 DEPTH= 0.KM

A=-0.63791 B=-0.03028 C= 0.76951 D=-0.0474 E= 0.9989
G=-0.7686 H=-0.0365 K=-0.6386 HT= -5.6

SE= 2.03

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

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

PETROPAVLOVK	15.10	289.3	3 33	-1				
MAGADAN	20.23	308.9	3 36	-61				
COLLEGE	21.05	35.8	4 44	-1	8 2	-32		5 31
Y.-SAKHLINSK	26.40	277.9	5 35	-2				
TIKSI	31.87	331.0	6 23	-3	13 0	85		
MATUSIRO	34.61	263.6	6 49K	-1	12 21	3		9 23 PCP
SHASTA	38.82	82.8	7 25K	-1				
UKIAH	39.18	85.4	7 29	0				
MINERAL	39.52	82.7	7 32K	1				
HUNGRY HORSE	40.09	67.7	7 37	1				
RESOLUTE	40.15	24.1	7 33	-4	14 10	27		9 54 PCP
BERKELEY	40.52	86.4	7 40	0				
RENO	41.11	82.6	7 46	1				
LICK	41.24	86.6	7 46K	0				
BUTTE	42.10	70.0	8 8	15				
BOZEMAN	43.19	69.7	8 2	0				
EUREKA	43.57	80.1	8 5	0				
TINEMAHA	43.57	84.5	8 6	1				9 53 PCP
KING RANCH	43.68	87.5	8 6	0				
ISABELLA	44.28	86.2	8 11K	1				9 56 PCP
CHINA LAKE	44.74	85.4	8 14K	0				9 55 PCP
SALT LAKE C.	45.39	76.0	9 20	61				9 55
PASADENA	45.42	87.6	8 20	0	15 6	6		
RIVERSIDE	46.03	87.2	8 24	0				
BOULDER CITY	46.40	83.3	8 27	0				
IRKUTSK	46.69	304.2	8 31	1				
PALOMAR	46.77	87.5	8 29	-1				
HAYFIELD	47.32	86.2	8 35	0				
ULAN-BATOR	47.57	297.9	8 48	11	15 34	4		
RAPID CITY	48.72	67.3	8 45	-1				
LARAMIE	48.92	71.6	8 46	-1				
BOULDER	49.86	72.8	8 55	1				
TRUK	49.99	221.6	8 55	0				
TUCSON	51.33	84.2	9 4	-1				9 27
FAYETTEVILLE	59.10	69.6	9 59K	-3				
APATITY	60.03	346.9	10 8	0	18 18	-1		
SODANKYLA	61.08	349.7	10 12	-3				
KIRUNA	61.25	352.4	10 14	-2	18 35	1		
SVERDLOVSK	62.85	328.4	10 30	3				
OTTAWA	62.88	50.9	10 26	-1	18 59	4		
SHAWINIGAN	63.49	48.3	10 33	2				
BREBEUF	63.84	49.6	10 36	2				
SKALSTUGAN	66.02	355.3	10 46	-2				11 10
PALISADES	66.97	53.1	10 52	-2	19 45	0		13 39 PP
PHILADELPHIA	67.10	54.7	10 44	-11	19 54	7		
CHAPEL HILL	67.96	60.1	10 0	-60				
HELSINKI	68.23	348.2	11 1	-1				11 24
COLUMBIA	68.25	62.8	11 1	-1				
UPPSALA	69.34	352.0	11 7	-2	20 11	-2		
NAMANGAN	70.79	311.6	11 17	0				
SHILLONG	71.23	287.5	11 18K	-2				
COPENHAGEN	73.88	354.3	11 36	0	21 8	2		
DURHAM	75.04	2.6	11 31	-11	20 48	-31		10 44
HAMBURG	76.12	355.5			21 37	6		
RATHFARNHAM	76.30	5.5	11 50	0			12 3	
WARSAW	76.48	348.5	11 53	2	21 35	1		14 36 PP
LAHORE	76.78	303.7	11 51	-1				
WITTEVEEN	77.00	357.5	11 55	1				
DE BILT	77.76	358.4	12 3	5	21 51	3		
HALLE	78.08	354.1	11 59	0	21 53	1		15 12 PP
BERMUDA	78.32	52.9	12 5	4	22 1	7		27 1 SS
KEW	78.38	1.9			21 58	3		
JENA	78.67	354.3	12 4	1				
BENSBERG	78.85	357.1	12 4	0				
MAKHACH-KALA	79.05	328.2	12 8	3	22 2	0		
SONNEBERG	79.24	354.5	12 6	0				
KISHINEV	80.28	342.2	12 13	2				
IASI	80.35	343.1	12 12	0	22 14	-2		
STUTTGART	80.95	355.7	12 13	-2	22 27	5		22 40 SKS
TIFLIS	81.06	329.5	12 16	0				
PARIS	81.07	0.2	12 17A	1	22 24	1		22 42 SCS
SIMFEROPOL	81.10	338.0	12 19	3	22 26	3		
STRASBOURG	81.21	356.6	12 19	3	22 29	4		23 14 PS
EBINGEN	81.55	355.8	12 13A	-5				
QUETTA	81.69	308.0	12 19K	0	22 25	-5		15 23 PP
BASLE	82.26	356.7	12 23	1				19 19
NEUCHATEL	82.81	357.1	12 24	-1				
BUCHAREST	83.30	343.4	12 14	-13	22 50	4		12 41
TRIESTE	83.76	352.2	12 32	3	22 47	-3		17 44 PPP

BELGRADE	83.82	347.4	12 31K	1	22 53	2		
CLERMONT-FD.	84.11	359.7	12 31	0	23 1	7		
FLORENCE X.	85.81	353.8	12 41	1	23 5	-6		15 56 PP
ISTANBUL KA.	85.93	340.3	12 29	-11				
MONACO	86.06	356.6	12 41	0				
ROME	87.59	352.7	12 53	5	23 17	-11		
SAN JUAN	88.73	62.3	12 53	-1				
MESSINA	90.96	349.9			23 44	-15		
KSARA	91.08	332.9	13 1	-4	23 59	-1		
GRANADA	92.52	5.0	13 27K	16	24 15	3		31 9 SS
CAPE HALLETT	122.81	184.5	18 52	-3				32 51 PKKS
SCOTT BASE	128.46	184.3	19 5	-1				
KIMBERLEY	152.61	314.2	19 55	7				
GRAHAMSTOWN	155.47	305.3	20 20	28				

SEPTEMBER 7 6.H 48.M 42.S EPICENTRE 50.12 156.28 DEPTH= 69.KM

DEPTH OF FOCUS= 0.006R

A=-0.58938 B= 0.25897 C= 0.76522 D= 0.4023 E= 0.9155
G=-0.7006 H= 0.3078 K=-0.6438 HT= -5.5

SE= 2.14

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
PETROPAVLOVK	3.36	25.2	0 50	-2	1 30	-1		1 7 *SP
KLYUCHI	6.77	21.7	1 39	0	3 0	5		2 16
KURILSK	7.49	232.5	1 47	-2	3 14	1		
UGLEGORSK	9.29	269.0	2 16K	2	4 6	9		
Y.-SAKHLINSK	9.54	255.8	2 18K	1	4 10	7		
MAGADAN	9.96	343.7	2 26	3	4 24	10		
NEMURO	10.00	231.3	2 18	-5	4 4	-11		
ABASHIRI	10.20	237.9	2 28	2	4 21	1		
KUSIRO	10.85	233.4	2 33	-2	4 25	-10		4 58
WAKKANAI	10.89	250.0	2 42	7	4 53	17		
ASAHIGAWA	11.42	241.6	2 43	1				
OBIHIRO	11.52	236.3	2 47	3				
URAKAWA	12.28	234.7	2 53	-1	5 2	-8		4 14
SAPPORO	12.44	241.2	2 55K	-1				5 25
TOMAKOMAI	12.67	238.8	3 7	8	5 24	5		
MURORAN	13.14	239.5	3 2	-3				5 32
SUTTSU	13.25	242.6	3 13	6	5 37	4		3 46
MORI	13.51	239.6	3 9	-1				5 41
HAKODATE	13.64	238.3	3 9	-3				5 45
AOMORI	14.28	235.3	3 32	12	5 55	-2		
MORIOKA	14.91	231.4	3 31	3	5 54	-18		
MIZUSAWA	15.36	230.1	3 34	0	6 16	-6		
AKITA	15.44	233.8	3 32	-3				6 20
SENDAI	16.14	228.7	3 46	2	6 27	-13		6 46
YAMAGATA	16.43	229.8	3 49	2				
HUKUSIMA	16.76	228.5	3 54	2	6 49	-6		
ONAHAMA	17.20	225.9	4 15	18				
SHIRAKAWA	17.39	227.7	4 0	1	7 7	-2		
AIKAWA	17.67	233.7			7 18	3		
MITO	17.87	225.8	4 11	6	7 12	-7		
UTUNOMIYA	18.01	227.4	4 3	-4				[illegible]
VLADIVOSTOK	18.10	256.6	4 4	-4	7 26	1		
KAKIOKA	18.12	226.1	4 0	-8	7 27	2		
TUKUBASAN	18.17	226.3	4 7	-2	7 16	-10		
MAEBASI	18.51	228.7	4 17	4	7 48	14		
KUMAGAYA	18.57	227.6	4 10	-4	7 37	2		
NAGANO	18.73	231.0	4 15	-1	7 51	12		
MATUSIRO	18.81	230.7	4 14A	-3	7 43	3		8 51
OIWAKE	18.82	229.7	4 18	1				
TITIBU	18.85	227.9	4 18	1	7 44	3		
MATUMOTO	19.17	230.6	4 19	-2	8 4	16		
KOHU	19.37	228.3	4 22	-1	7 51	-1		8 31
HUNATU	19.38	227.7	4 22	-1	8 1	8		
MISIMA	19.61	226.7	4 26	1	7 53	-4		
IIDA	19.82	229.6	4 32	4	8 13	11		
GIHU	20.44	231.4	4 33	-1	8 19	5		
NAGOYA	20.52	230.6	4 36	1				8 47
KYOTO	21.27	232.6	4 43A	1	7 46	-44		
KOBE	21.81	233.0			8 38	-2		
CHANGCHUN	21.94	265.3	4 48	-1				

TOKUSIMA	22.60	233.0	4 56	0				
TIKSI	24.91	339.7	5 16	-2				10 36 SS
SAGA	25.51	238.5	5 28	4				
KUMAMOTO	25.61	237.2	5 28	3				
NAGASAKI	26.13	238.3	5 30	1				
KAGOSIMA	26.66	235.7	5 36	2				6 5
PEKING	29.74	265.7	6 2	0				
ULAN-BATOR	31.99	285.5	6 20	-2	11 18	-9		
IRKUTSK	32.06	294.3	6 21	-1				
COLLEGE	32.21	41.6	6 23	-1	10 48	-43		
LANCHOW	39.97	270.0	7 30K	1				
TRUK	42.67	186.5	7 50	-2				
CANTON	42.96	247.2	7 54A	0	14 14	0		
HONG KONG	43.03	245.5	7 55A	1	14 18	3		
CHENGTU	43.30	263.6	7 56	-1				
BAGUIO CITY	44.22	233.4	8 1	-3	14 31	-1		
MANILA	45.56	231.6	8 14	-1	14 50	-1		
KIPAPA	45.83	111.6	8 19	2				
KOROR	46.38	210.6	8 20	-1				10 25 PCP
SEMIPALATNSK	46.57	301.2	8 22	-1				
RESOLUTE	46.96	20.1	8 26A	0	15 18	7		
KUNMING	48.03	259.1	8 34A	0				
PHU-LIEN	48.69	251.7	8 39	0	14 14	-81		
HORSESHOE B.	49.53	57.9	8 45	-1				
THULE	50.57	12.4	8 38	-16	15 49	-12		18 9 SCS
SEATTLE	51.04	59.3	8 59	2				
BANFF	52.60	52.4	8 59A	-10				
SVERDLOVSK	52.81	316.6	9 9	-2				
FRUNSE	54.05	296.0	9 20A	0	16 52	3		10 24 PCP
RABAUL	54.22	185.1	9 20A	-1				
SHILLONG	54.58	268.4	9 20A	-4				
APATITY	55.08	336.8	9 26	-1				
HUNGRY HORSE	55.08	54.4	9 26	-1	17 6	3		19 14 SCS
SHASTA	55.19	66.3	9 28A	0				
UKIAH	55.70	68.2	9 46	14				
MINERAL	55.88	66.1	9 33A	0				
CHATRA	56.73	273.1	9 41	2				
SODANKYLA	56.86	339.2	9 38	-2				
BERKELEY	57.08	68.8					9 56	
BUTTE	57.33	55.9	9 43	0				
RENO	57.45	65.8	9 45	1				
LICK	57.80	68.9	9 46A	-1				
KIRUNA	57.82	341.8	9 45A	-2				10 38 PCP
TASHKENT	58.08	297.6	9 48	-1	17 43	1		22 24 SS
BOZEMAN	58.36	55.4	9 51	1				
FRESNO	59.28	68.2	9 57	0				
SCORESBY SD.	59.71	359.3	9 59	-1				
EUREKA	59.73	63.6	10 0	0				12 22 PP
TINEMAHA	60.02	67.0	10 3	1			10 17	
DEHRA DUN	60.14	282.5	10 17	14	18 47	38		
STALINABAD	60.21	295.5	10 3	0				
KING RANCH	60.28	69.4	10 3	-1			10 18	
ISABELLA	60.82	68.4	10 6	-1			10 21	39 18 PKPPKP
SALT LAKE C.	61.20	60.0	10 11	1				10 57 PCP
CHINA LAKE	61.23	67.7	10 11	1			10 24	39 22 PKPPKP
LAHORE	61.61	286.1	10 12	-1				20 3 SCS
WARSAK DAM	61.64	289.9	10 12	-1				
PASADENA	62.03	69.4	10 14	-2	18 47	14	10 29	39 23 PKPPKP
RIVERSIDE	62.62	69.0	10 20	1			10 34	39 23 PKPPKP
BOULDER CITY	62.76	65.8	10 20	0				
SKALSTUGAN	63.17	342.9	10 22	-1				
HELSINKI	63.24	335.1	10 22	-2				10 59 PCP
PALOMAR	63.37	69.2	10 23	-1			10 38	
RAPID CITY	63.53	52.3	10 26	1	18 55	3		39 22 PKPPKP
LARAMIE	64.24	55.9	10 28	-2				
BOULDER	65.30	56.7	10 39	2				
UPPSALA	65.38	338.5	10 36	-1				
ASHKABAD	66.52	301.4	10 45A	0	19 32	3		
QUETTA	67.09	289.9	10 48A	0	19 36	1		11 17 PCP
TUCSON	67.74	66.1	10 52	0				13 32 PP
KARACHI	70.17	286.7	11 14A	7				
COPENHAGEN	70.35	339.2	11 10	2				21 8
TIFLIS	70.68	312.4	11 11	1				21 12 SCS
POONA	71.20	276.5	11 16	2				
WARSAW	71.21	332.8			20 29	5		17 27
BOMBAY	71.59	277.6	11 18	2				21 2
GORIS	71.65	310.0	11 16	0	20 35	6		13 58 PP
LUBBOCK	71.90	59.3	11 18	0	20 38	6		21 1
LWOW	72.38	329.8	11 20	0				

SIMFEROPOL	72.81	321.0	11 23	0	20 49	7		21 21 SCS
HAMBURG	72.86	339.7	11 23	0				
IASI	73.43	326.3	11 27	0				
KRAKOW	73.46	332.3	11 27	0				11 53 PCP
DURHAM	73.85	346.9	11 28	-1	20 48	-6		
RACIBORZ	73.94	333.4	11 30	0				
FAYETTEVILLE	74.07	52.5	11 31A	1				
HALLE	74.31	337.8	11 31	-1				12 5
OTTAWA	74.70	35.1	11 34	0				
SHAWINIGAN	74.78	32.7	11 34	0				
JENA	74.93	337.7	11 35	0				
PLAUEN	75.19	337.2	11 33	-4				
BREBEUF	75.38	33.8	11 39	1				
SONNEBERG	75.53	337.8	11 35	-4				
CLEVELAND	75.69	41.0	11 39	-1				
RATHFARNHAM	75.91	349.3	11 41K	0				15 45
BENSBERG	75.91	340.4	11 42K	1				
BRATISLAVA	75.98	333.2	11 42	1	21 46	29		
BUCHAREST	76.34	325.7	11 43	0	21 46	25		14 54 PP
KEW	76.85	345.2	11 47	1				
STUTTGART	77.51	338.4	11 49	-1				
BELGRADE	77.94	329.5	11 53A	1				
STRASBOURG	78.02	339.2	11 54A	1				12 43
EBINGEN	78.12	338.3	11 54	1				12 21
PARIS	78.91	342.7	12 0A	2				12 40
BASLE	79.05	339.0	11 58A	0				14 48
PALISADES	79.15	36.3	11 59A	0	22 12	20		21 48 SKS
TRIESTE	79.22	334.3	11 59A	0	21 58	6		15 0 PP
NEUCHATEL	79.69	339.2	12 3	1				
WASHINGTON	79.71	39.5	12 3	1				12 34
KSARA	81.22	313.4	12 14A	4				
CHAPEL HILL	81.39	42.5	11 11	-60				
FLORENCE X.	81.64	335.2	12 12A	0	22 25	8		13 1
CLERMONT-FD.	81.69	341.4	12 14A	2				
COLUMBIA	82.12	44.9	12 15	0				12 29 PCP
MONACO	82.66	337.8	12 18A	1				
ROME	83.03	333.6	12 21	2				19 5
JERUSALEM	83.21	312.7	12 21	1				
TOLEDO	88.73	345.0	12 47A	0	23 40	14		
ALICANTE	89.56	341.9	12 55	4	23 46	12		
GRANADA	91.28	344.0	13 28K	29	24 34	44		
TAMANRASSET	102.94	332.4			24 34	-54		24 53
CAPE HALLETT	122.51	175.0	18 48	0				28 24 PCPPKP
MIRNY	125.83	206.2	18 55	1				
SCOTT BASE	127.86	177.2	18 58	0				
LA PAZ	131.08	63.0	19 8A	4				

SEPTEMBER 7 10.H 6.M 45.S EPICENTRE 51.2N 178.5W DEPTH= 0.KM

A=-0.62861 B=-0.01554 C= 0.77756 D=-0.0247 E= 0.9997
G=-0.7773 H=-0.0192 K=-0.6288 HT= -5.9

SE= 2.66

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KLYUCHI	13.21	300.7	3 13	2				4 13
PETROPAVLOVK	14.09	286.7	3 22A	-1	5 59	-2		
MAGADAN	19.13	307.7	4 27A	0				
COLLEGE	20.96	37.6	4 44	-3	8 33	-3		5 14
Y.-SAKHLINSK	25.49	275.6	5 31A	0	9 57	0		
SITKA	25.65	59.9	5 36	3	10 27	28		11 1
TIKSI	30.83	330.6	6 15	-4				16 47 SCS
TUKUBASAN	32.93	259.1	6 38K	0	12 7	11		11 15
ALBERNI	33.80	71.8	6 47A	2	12 11	2		
KIPAPA	33.81	144.0	6 46	1				7 18
MATUSIRO	33.88	261.4	6 47A	1	12 11	0		7 50 PP
HONOLULU	33.89	144.2	6 47	1				
VLADIVOSTOK	34.06	276.0	6 47	-1	12 12	-1		8 10 PP
HORSESHOE B.	34.67	70.8	6 52A	-1	12 23	0		9 25 PCP
LILLOOET	34.93	68.1	7 22A	27				
VICTORIA	34.95	72.3	6 56A	1				
SEATTLE	36.01	73.0	7 7	3	12 49	5		
KYOTO	36.42	261.6	7 9A	1	12 51	1		
HAWAII V.OB.	36.67	141.3	7 10	0				
CORVALLIS	36.89	78.1	7 13A	1				

CHANGCHUN	37.78	281.3	7 17A	-2			
BANFF	38.41	64.6	7 24A	0			
SHASTA	39.55	82.8	7 33K	-1	13 31	-6	
RESOLUTE	39.83	24.4	7 42K	6	13 26	-16	9 18 PP
UKIAH	39.94	85.4	7 38	1	13 42	-1	
MINERAL	40.24	82.7	7 40K	0	13 33	-15	
HUNGRY HORSE	40.58	67.8	7 44	2	13 44	-9	39 37 PKPPKP
BERKELEY	41.30	86.3	7 49K	1	14 4	1	9 39 PP
NAGASAKI	41.58	264.0	7 52	1	14 5	-3	
SANTA CLARA	41.81	86.6	8 2K	9	14 11	0	
RENO	41.83	82.5	7 50	-3	14 12	1	8 24
LICK	42.01	86.4	7 55K	1			13 40
BUTTE	42.62	70.1	7 59	0	14 10	-13	8 32
SASKATOON	42.92	59.4	8 26	24	14 19	-8	
FRESNO	43.52	85.7	8 8K	1			
BOZEMAN	43.71	69.7	8 8	0	14 36	-3	
EUREKA	44.25	80.0	8 12	0			
TINEMAHA	44.32	84.3	8 15K	2	14 51	3	13 57 SCP
KING RANCH	44.47	87.3	8 15	1			
ISABELLA	45.05	86.0	8 19K	0	14 57	-1	13 57 SCP
THULE	45.25	18.2	8 8	-13	14 41	-20	9 56 PP
CHINA LAKE	45.50	85.2	8 22K	0	15 3	-2	14 0 SCP
PEKING	45.55	282.4	8 24A	1	15 4	-1	10 13 PP
IRKUTSK	45.60	303.0	8 22A	-1	15 2	-4	18 9 SS
SALT LAKE C.	46.02	75.9	8 27	0	15 10	-2	9 55 PCP
PASADENA	46.22	87.4	8 29	1	15 14	-1	10 26 PP
ULAN-BATOR	46.51	296.7	8 31	1	15 15	-4	
RIVERSIDE	46.82	87.0	8 35K	2	15 23	-1	
NORD	47.06	3.6			15 31	4	9 42 PP
BOULDER CITY	47.13	83.0	8 36	1	15 29	1	
PALOMAR	47.56	87.2	8 38K	-1	15 36	2	
GUAM	47.88	231.6	8 39	-2			10 23 PP
HAYFIELD	48.10	85.9	8 42	-1			14 10 SCP
ZO-SE	48.13	269.4	8 44	1	15 42	0	
NANKING	48.99	272.2	8 49	-1	15 49	-5	
RAPID CITY	49.20	67.1	8 52	1	15 54	-3	10 51 PP
LARAMIE	49.47	71.4	9 49	55			
TRUK	50.00	219.7	8 57	-1			
BOULDER	50.43	72.6	9 3	2			
TUCSON	52.07	83.9	9 13	0	16 37	0	39 39 PKPPKP
WUWEI	55.06	288.9	9 37	2			
LANCHOW	55.58	286.4	9 39A	0	17 21	-3	11 47 PP
LUBBOCK	56.73	76.4	9 47	-1	17 39	-1	
SCORESBY SD.	57.43	9.1	9 48	-4	17 48	-1	24 28
CHIHUAHUA	57.53	83.6	9 53	0	17 38	-12	14 30
KOROR	58.37	238.3	9 56	-3			12 2 PP
SEMIPALATNSK	58.70	312.7	9 58	-3	17 57	-8	
CANTON	58.75	268.6	10 0	-2	18 0	-6	
HONG KONG	58.76	267.2	10 1A	-1	18 6	0	
APATITY	59.13	346.3	10 1A	-3	18 4	-7	11 57 PP
CHENGTU	59.16	281.6	10 4	-1	18 7	-4	
BAGUIO CITY	59.17	257.4	10 2	-3	18 6	-6	
CHICAGO CGS.	59.47	60.3	10 1	-6	18 9	-6	
FAYETTEVILLE	59.62	69.1	10 6K	-2	18 13	-4	
SODANKYLA	60.21	349.0	10 8	-4	18 29	4	12 26 PP
DALLAS	60.31	73.5	10 13	1	18 25	-1	
MANILA	60.34	255.7	10 13	0	18 22	-5	
KIRUNA	60.41	351.8	10 10K	-3	18 35	7	12 30 PP
RABAUL	60.62	214.0	10 0	-+15			
CLEVELAND	62.93	56.9	10 29	-1			
OTTAWA	63.05	50.4	10 28A	-3	18 53	-8	20 18 SCS
SHAWINIGAN	63.61	47.8	10 32A	-3			
KUNMING	63.97	278.1	10 36	-1	19 6	-6	12 57 PP
BREBEUF	63.99	49.1					11 44
SEVEN FALLS	64.08	46.3			19 1	-13	19 38 PS
PITTSBURGH	64.51	56.7	10 43	3	19 18	-1	20 33
PHU-LIEN	64.60	272.0	10 21	-20	15 50	-210	
SKALSTUGAN	65.22	354.7	10 42	-3			11 14 PCP
PENNSYLVANIA	65.33	55.2			19 26	-3	20 38 SCS
MANZANILLO	65.56	89.7					12 29
FRUNSE	66.84	310.1	10 55	0			13 21 PP
WASHINGTON	67.15	56.1	11 5	8	20 20	29	12 16
PALISADES	67.19	52.6	10 56	-2	19 39	-13	13 49 PP
HELSINKI	67.34	347.5	10 56	-3			11 24 PCP
PHILADELPHIA	67.35	54.1			19 47	-7	23 54
TOCKLAI	67.60	285.1	11 34	34			
LHASA	67.73	289.8	11 2	1	19 57	-1	13 36 PP
CHAPEL HILL	68.31	59.5	10 3	-62			
UPPSALA	68.50	351.3	11 3K	-3	19 56	-12	39 12 PKPPKP

TACUBAYA	68.53	85.5	11 9A	3	20 5	-3	13 33 PP
COLUMBIA	68.65	62.2	11 5	-2	19 58	-11	11 40 PCP
SUVA	69.12	183.0			20 37	22	
SHILLONG	70.23	286.3	11 12A	-4	20 19	-9	12 25
TASHKENT	70.55	312.3	11 16	-2	20 25	-7	21 15 SCS
STALINABAD	72.98	310.8			20 52	-8	
COPENHAGEN	73.07	353.5	11 33	0	20 56	-5	14 23 PP
MERIDA	73.32	77.3					25 23 SS
DEHRA DUN	74.64	299.3	11 45	2	21 16	-2	
BOKARO	75.17	289.5	11 46A	0			21 51
WARSAK DAM	75.21	306.1	11 46	0			
HAMBURG	75.33	354.7	11 55	8			
WARSAW	75.60	347.7			21 21	-8	22 5 PS
RATHFARNHAM	75.65	4.8	11 46	-2			
LAHORE	75.69	302.6	11 47	-2	21 26	-4	
WITTEVEEN	76.23	356.7	11 52	0			
HALLE	77.26	353.3	12 2	5			22 34 PS
LWOW	77.49	345.2	11 58	-1	21 58	9	15 1 PP
KEW	77.67	1.1	12 5	5			
JENA	77.86	353.4	12 0	-1			14 56 PP
KRAKOW	77.88	347.9	12 1	0			22 35 PS
RACIBORZ	78.06	349.0	11 57	-5			13 27
BENSBERG	78.07	356.3	12 1	-1			
ASHKABAD	78.17	317.4	12 3	1	21 51	-6	22 18 SCS
PLAUEN	78.24	353.0	11 57	-6			
SONNEBERG	78.43	353.6	12 10	6			
PRAGUE	78.47	351.5	12 30	26			23 31
CHEB	78.64	352.8					18 32
IASI	79.41	342.2	12 10	1	22 24	14	
TIFLIS	80.01	328.5	12 11	-1			22 30 SCS
BRATISLAVA	80.07	349.4	12 11	-2	22 33	16	
SIMFEROPOL	80.11	337.1	12 12	-1			22 27 SCS
BACAU	80.14	342.5	12 19	6			
STUTTGART	80.16	354.8	12 12A	-1	22 11	-7	15 19 PP
HURBANOVO	80.24	348.6			22 42	23	27 54
PARIS	80.34	359.3	12 15	1			13 21
STRASBOURG	80.42	355.7	12 14	-1	22 34	13	27 51 SS
BUDAPEST	80.51	348.0	12 6	-9			12 36
QUETTA	80.59	307.0	12 15K	0	22 19	-3	15 25 PP
EBINGEN	80.76	354.9	12 15	-1			13 31
BASLE	81.48	355.8	12 20	0			17 52
GORIS	81.49	326.5	12 19	-1	22 29	-3	15 29 PP
CAMPULUNG	81.74	343.4	12 27	6			
NEUCHATEL	82.04	356.2	12 23	0			
BRISBANE	82.27	205.2	12 24K	0	22 26	-14	
BUCHAREST	82.36	342.4	12 23	-2	22 39	-2	23 25 PS
TRIESTE	82.92	351.3	12 25	-3	22 40	-6	15 40 PP
BELGRADE	82.92	346.5	12 28K	0	23 0	14	15 47 PP
CLERMONT-FD.	83.37	358.8	12 29	-1			
KARACHI	84.09	304.4	12 38K	4			
HYDERABAD	84.45	290.8			22 51	-10	
SOFIA	84.53	344.0	12 36	0	22 53	-9	
ISTANBUL KA.	84.97	339.4	12 36	-2	23 0	-7	
FLORENCE X.	84.99	352.9	12 37	-1	23 25	18	16 4 PP
MONACO	85.28	355.6	12 39	-1			
SKOPJE	85.55	345.2	12 43K	2			16 32 PP
POONA	86.24	295.0	12 45	1	23 6	-13	23 20 SKS
BOMBAY	86.53	296.0	12 44	-2	23 20	-2	23 9 SKS
ROME	86.75	351.8	12 54	7	23 22	-2	24 36 PPS
BALBOA HTS.	88.69	77.4	12 56	0	23 20	-22	
RIVERVIEW	88.78	204.8	12 57K	0			
KARAPIRO	88.92	184.7	12 56	-1			
SAN JUAN	89.11	61.4	12 58	0	23 33	-13	
TOLEDO	89.15	4.2	12 58	0	23 16	-30	
GALERAZAMBA	89.87	73.0			23 58	5	
KSARA	90.05	331.9	13 8	5	23 56	1	16 44 PP
MESSINA	90.09	348.9	13 0	-3	23 50	-5	23 30 SKS
TONGARIRO	90.20	184.6	13 1	-2			
ALICANTE	90.78	1.5	13 6	0	23 58	-3	16 42 PP
COLOMBO	91.84	283.3			24 7	-4	
GRANADA	91.86	4.0	13 19A	8			17 2 PP
JERUSALEM	92.15	331.7	13 12	0			
COBB RIVER	92.24	186.6	13 11	-2			
ALGIERS,UNI.	92.37	358.7	13 19	6	23 39	-36	17 9 PP
RELIZANE	93.39	0.7	13 24	6	23 55	-29	16 15
CHINCHINA	94.22	76.8	13 23	1	24 30	-1	
FORT FRANCE	94.81	59.5	13 25	1	24 33	-3	
HELWAN	95.06	334.2	13 24	-2	23 57	-41	

BOGOTA	95.44	75.8	13 38	11				17 20 PP
ST. LUCIA	95.47	59.8	13 26	-1				
ST. VINCENT	96.03	60.5	13 30	0				
ROXBURGH	96.96	188.5			24 56	2		24 5 SKS
TRINIDAD	97.94	62.1	13 36	-3				
TAMANRASSET	106.23	356.1			24 51	-5		18 13 PP
HUANCAYO	107.60	87.4						19 6 PP
LA PAZ	115.49	84.7			25 35	2		19 59 PP
CAPE HALLETT	123.47	184.1	18 43	-16				20 40
WILKES	128.85	209.5						38 59 SS
SCOTT BASE	129.13	184.0	19 9	-1				22 29 PKS
TANANARIVE	131.54	294.2						22 30 SKP
MIRNY	134.88	214.4						22 48 PKS
PRETORIA	147.38	311.1	19 46	3				
KIMBERLEY	151.51	313.1	19 38	-11				19 52
GRAHAMSTOWN	154.38	304.6	20 3	10				

SEPTEMBER 9 O.H 13.M 30.S EPICENTRE -47.96 99.67 DEPTH= O.KM

A=-0.11290 B= 0.66263 C=-0.74039 D= 0.9858 E= 0.1680
G= 0.1244 H=-0.7299 K=-0.6722 HT= -4.7

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
MIRNY	18.97	188.2	4 25A	0				7 59
WILKES	19.17	166.6	4 29A	1	8 6	7		
PERTH	20.16	43.4	4 24	-15				7 48
MELBOURNE	34.25	89.8	6 48	-2	12 15	-2		8 10 PP
SCOTT BASE	38.83	161.9	7 28A	-1	13 35	8		
CAPE HALLETT	39.37	152.9	7 38	5				9 22
RIVERVIEW	40.65	89.0			13 58	4		9 11 PP
DJAKARTA	42.07	10.7	7 58	3	14 21	5		
SOUTH POLE	42.24	180.0	7 56	-1				9 42 PCP
BRISBANE	45.88	83.3	8 23	-3	15 9	-2		
ROXBURGH	46.29	114.3			15 19	2		18 53 SS
BYRD STATION	50.35	171.8	9 0	-1				
TANANARIVE	51.00	286.0	9 5	-1				
WELLINGTON	51.91	112.3			16 30	-5		
HALLEY BAY	51.94	194.9	9 12	-1	16 40	4		
PIETERMZBURG	55.16	262.8	9 41	4				
COLOMBO	57.35	336.5			17 24	-24		11 49
HERMANUS	59.41	251.3			18 20	5		18 28
KIMBERLEY	59.46	259.8	10 1	-6				6 37
PORT BLAIR	59.68	352.1	10 28	19	18 22	3		
RABAUL	62.49	63.1	10 26	-2				10 56 PCP
KOROR	63.03	39.4	10 29	-2				
MADRAS	63.12	338.6						16 55
BAGUIO CITY	66.76	21.9	11 30	34				
VIZIANAGRAM	67.36	343.3	11 4	5				
HYDERABAD	67.80	338.1	10 58	-4	20 0	0		15 2 PPP
POONA	70.11	333.9	11 7	-9	20 30	3		13 58 PP
BOMBAY	70.77	333.1	11 56	36	21 2	27		25 7
TRUK	71.75	55.6	11 33	7				
BOKARO	72.53	346.7	11 42	11	21 0	5		12 31
KUNMING	72.72	2.9	11 32	0	21 1	4		
GUAM	73.12	46.0	11 33	-1				
SHILLONG	73.52	352.7	11 34A	-3	21 3	-3		
CHATRA	75.28	348.5	11 45	-2				
LHASA	77.63	352.3	11 58	-2	21 49	-3		
CHENGTU	78.35	3.8	12 1	-3	21 53	-6		15 2 PP
DEHRA DUN	80.30	341.1	12 21	6	22 23	3		
ZO-SE	81.03	18.6	12 17	-2	22 28	0		
LAHORE	82.35	338.4	12 21	-4				15 31 PP
QUETTA	83.14	331.9	12 26A	-3	22 51	2		15 38 PP
LANCHOW	83.74	3.4	12 31	-2	23 9	14		22 54 SKS
NAGASAKI	84.77	25.2	12 35	-3	23 3	-2		
STALINABAD	90.42	336.3	13 6	1				23 38 SKKS
MATUSIRO	90.90	30.1	13 8K	1	23 43	-20		24 3 SCS
TASHKENT	92.88	337.6	13 11	-5				23 52 SKKS
ASHKABAD	93.11	328.5	13 18	1				24 3 SKKS
FRUNSE	93.12	341.8	13 20	3				25 39 PS
ULAN-BATOR	95.70	4.9						17 27 PP
GORIS	99.12	321.1						24 32 SKKS
KSARA	99.38	310.8	13 45	-1				20 55 PPP

IRKUTSK	99.93	2.9						17 56 PP
TIFLIS	101.61	321.3	13 58	2				24 46 SKKS
ISTANBUL KA.	108.40	311.3						31 51
SIMFEROPOL	108.89	316.9						19 4 PP
TAMANRASSET	109.26	282.8			25 24	15		26 53 S
SVERDLOVSK	109.36	338.5						19 4 PP
BUCHAREST	112.34	312.0						29 1
MESSINA	113.68	301.2	18 46	5	25 39	12		19 55 PP
ROME	117.90	302.5						21 31
MBOUR	118.34	259.8			26 6	21		20 8 PP
BRATISLAVA	119.46	310.3						48 2
TRIESTE	119.61	306.4	19 3	11				20 27 PP
ALGIERS UNI.	120.23	292.6						20 33 PP
TIKSI	121.07	10.4						19 22 PP
ALICANTE	123.41	292.0	18 59	-1	26 3	2		22 37 PKS
EBINGEN	123.75	306.4	19 8	8				
STUTTGART	123.97	307.1	19 6	5				32 30 PKKS
STRASBOURG	124.64	306.2	19 11	9				37 18 SS
GRANADA	124.66	289.1			26 13	8		21 13 PP
APATITY	125.42	334.4	19 8	4				36 44 SS
CLERMONT-FD.	125.62	301.2						38 3 SS
PARIS	127.67	304.0	18 56	-12				
KEW	130.59	305.8						38 56 SS
DURHAM	132.80	309.2						22 50
TACUBAYA	147.66	145.2	18 42	-62	26 52	1		20 46
BERKELEY	148.03	92.7	19 51	6				
LICK	148.17	94.1	19 52A	7				
SAN JUAN	148.30	206.3	19 51	6				
KING RANCH	148.31	98.8	19 55	10				
PASADENA	148.64	102.1	19 54	8	26 9	-43		42 48 SS
PALOMAR	149.01	104.6	19 53	7				20 2
RIVERSIDE	149.06	103.1	19 53	7				20 9
FRESNO	149.09	96.5	19 59	13				
ISABELLA	149.34	99.5	19 50	3				19 58
SHASTA	149.36	87.9	19 56	9				
MINERAL	149.72	89.1	19 56	9				
CHINA LAKE	150.01	100.0	19 53	5				20 0
TINEMAHA	150.29	97.4	19 54	6				20 7
RENO	150.53	91.8	20 1	12				
ALBERNI	150.87	70.6	20 2	13				
VICTORIA	151.57	72.6	19 56	6				
HORSESHOE B.	151.88	70.9	19 56	5				
BOULDER CITY	151.93	102.5	19 57	6				
SEATTLE	152.06	74.8	20 1	10				20 32 PKP2
TUCSON	152.12	113.1	19 59	8				20 34
RESOLUTE	152.46	8.3	20 4A	13				24 36 PP
EUREKA	153.08	95.1	19 58	6				
SALT LAKE C.	156.47	96.1	20 13	16				20 40
BANFF	157.07	68.7	20 5	7				20 29
HUNGRY HORSE	157.61	76.4	20 17	19				24 31 PKS
BUTTE	158.00	83.0	20 29	30				
BOZEMAN	158.92	84.7	20 16	16				20 41
BOULDER	160.43	104.7	20 19	17				
BERMUDA	160.44	223.0	20 8	6	26 45	-20		24 30 PP
RAPID CITY	163.66	95.2	20 20	15				21 12
WASHINGTON	170.64	195.8	20 21	11				25 30
PALISADES	171.68	215.8	20 3	-8				24 55 PP
OTTAWA	175.92	232.8	20 4	-8				25 50 PP

SEPTEMBER 9 9.H 0.M 34.S EPICENTRE -15.18-176.51 DEPTH= 0.KM

A=-0.96374 B=-0.05880 C=-0.26027 D=-0.0609 E= 0.9981
G= 0.2598 H= 0.0158 K=-0.9655 HT= 5.7

SE= 2.01

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
APIA	4.78	73.9	1 9	-6	2 26	14		1 41
SUVA	5.68	238.0	1 21	-7				
NOUMEA	17.61	243.8	4 9A	1				7 49 SSS
KARAPIRO	23.72	195.8	5 14	0	9 37	10		
WELLINGTON	27.08	194.5	5 46	0				6 26 PP
BRISBANE	30.81	241.6	6 19A	-1				
RIVERVIEW	34.59	231.7	6 53A	0	12 24	2		8 24 PP
KIPAPA	40.65	27.0	7 44	1				
MELBOURNE	40.79	229.0	7 43K	-2				8 37

GUAM	47.75	304.7	8 38	-3			
KOROR	53.47	291.3	9 24	0			
CAPE HALLETT	57.63	184.7	9 55K	1	18 3	11	24 27
TERRE ADELIE	58.49	198.1	10 0	0			20 27
SCOTT BASE	63.24	183.9	10 32A	-1			
MATUSIRO	66.87	321.5	10 54K	-2	19 51	3	
KYOTO	67.42	318.8	11 1A	2	20 4	9	
NAGASAKI	69.95	313.8	11 13	-2	20 27	2	
Y.-SAKHLINSK	71.86	331.9	11 26	-1	20 56	9	
BERKELEY	73.30	42.1	11 35	0	21 16	12	
LICK	73.40	42.9	11 36K	0			11 48
KING RANCH	73.57	45.5	11 37	0			11 48
PASADENA	74.05	47.2	11 40	0	21 19	7	11 52
FRESNO	74.31	44.2	11 42	1			
WOODY	74.38	45.6	11 40	-1			
RIVERSIDE	74.53	47.7	11 42	0			11 54
PALOMAR	74.58	48.5	11 43	0			11 54
ISABELLA	74.62	45.8	11 43	0			11 54
SHASTA	74.86	39.7	11 44K	0			
MINERAL	75.15	40.3	11 46	0			
CHINA LAKE	75.31	46.0	11 48	1			11 58
ZO-SE	75.46	308.3	11 48	0	21 31	3	26 32 SS
TINEMAHA	75.53	44.6	11 49	1			
DJAKARTA	75.56	267.4	11 54	6	21 34	5	
HAYFIELD	75.65	48.7	11 50	1			12 0
RENO	75.82	41.8	11 51	1			
MIRNY	76.40	204.3	11 51	-2	21 40	2	
BOULDER CITY	77.33	47.0	11 59	1			
HONG KONG	77.43	297.4	12 1A	2			
NANKING	77.70	308.2	12 0	0	22 2	10	
EUREKA	78.30	43.5	12 3	-1			39 8 PKPPKP
CANTON	78.49	297.8	12 7A	2			
TUCSON	78.54	52.0	12 5	0			
VICTORIA	78.98	32.8	12 7	0			
SEATTLE	79.04	34.0	12 10A	2			23 14
MAGADAN	79.05	343.7	12 4	-4	22 10	3	
CHANGCHUN	79.12	321.2	12 7K	-1			
HORSESHOE B.	79.59	32.2	12 9	-2	22 21	9	
SALT LAKE C.	81.69	43.9	12 23	1			
COLLEGE	82.74	11.9	12 23	-4	22 36	-9	15 46 PP
PEKING	83.16	314.5	12 29K	0	22 54	5	
PHU-LIEN	83.48	293.5	12 32	1			
BUTTE	83.75	39.0	12 32	0	23 2	7	15 42 PP
HUNGRY HORSE	84.05	36.5	12 32	-2			
BOZEMAN	84.51	39.9	12 38	2			13 5
BANFF	84.68	33.6	12 37A	0			
BOULDER	85.87	46.8	12 44	1			
HALLEY BAY	87.61	172.7	12 57	6			24 51 PS
KUNMING	88.27	296.4	12 57K	2	23 45	6	
CHENGTU	88.86	302.1	12 58	1	23 50	6	
RAPID CITY	88.89	43.7	12 58	0			16 25 PP
LANCHOW	90.71	307.2	13 7K	1			
ULAN-BATOR	92.41	319.1	13 14	0	24 22	6	
FAYETTEVILLE	92.76	53.5	13 15	0			16 55
TIKSI	93.99	345.0	13 18	-3			
LHASA	99.44	298.1	13 49	3			
CHATRA	102.23	294.7	13 48	-10			
RESOLUTE	102.32	15.6			25 45	5	32 28 SS
COLOMBO	104.88	273.2					26 45
WASHINGTON	106.64	53.5					22 45 PKS
OTTAWA	108.18	46.8					18 52 PP
PALISADES	109.24	51.5			25 13	1	18 47 PP
DEHRA DUN	110.67	297.0					19 56
BERMUDA	116.26	61.2	19 54	68			20 51 PP
QUETTA	120.25	296.3	18 54	1	25 49	-2	20 18
APATITY	124.17	346.6					45 18
KIRUNA	126.25	352.1	19 1	-4			
PULKOVO	131.34	342.3					22 12
MAKHACH-KALA	133.35	315.5					22 50
TIFLIS	135.69	315.0	19 25	2			
SIMFEROPOL	140.64	325.2					19 56
KISHINEV	141.89	331.7	19 48	14			
IASI	142.32	332.9	19 48	13			
DE BILT	143.15	358.3	19 44	8			
JENA	143.75	351.3	19 47	10			23 17 PP
PLAUEN	144.08	350.6	20 19	41			23 14 PP
PRAGUE	144.09	348.0	19 48	10			21 19
BENSBERG	144.19	356.0	19 36	-2			

CAMPULUNG	144.93	333.2	19 41	2				20 1
BUCHAREST	145.11	331.2	19 42	3				21 47
BRATISLAVA	145.24	344.0	19 39	-1				
KSARA	145.38	308.3	19 42K	2			20 1	23 3 PP
ISTANBUL KA.	145.98	324.3	19 37	-4				
STUTTGART	146.18	353.2	19 42A	1				19 55 PKP2
PARIS	146.46	1.2	19 46K	4				22 54 PP
STRASBOURG	146.51	354.8	19 46A	4				26 19 PPP
JERUSALEM	146.70	305.3	19 44	2				
EBINGEN	146.79	353.3	19 44	2				
BELGRADE	147.15	337.5	19 46A	3				20 5
BASLE	147.57	354.8	19 38	-6				20 40
SOFIA	147.71	332.1	19 47	3				
CHUR	148.03	352.2	19 52	8				
NEUCHATEL	148.15	355.5	19 48	4				
TRIESTE	148.42	346.2	19 46	1				29 28 SKKS
CLERMONT-FD.	149.51	0.5	19 54	7				
PAVIA	149.72	352.0	19 45	-2				21 4
HELWAN	150.53	304.5	19 50	2				
FLORENCE X.	150.74	348.5	19 50A	1				20 22
MONACO	151.35	354.0	19 56	7				21 4
ROME	152.27	345.5	20 3	12				
TOLEDO	154.53	13.6	19 57	3				20 21
MESSINA	154.72	337.3	19 54	0				23 26 PKS
ALICANTE	156.66	7.9	19 55	-2	27 0	-1		30 55 SKKS
GRANADA	157.20	14.7	20 22A	24				23 54 PP
ALGIERS UNI.	158.50	1.0	19 55	-4				20 36 PKP2
RELIZANE	159.35	6.8	20 9	9				20 40 PKP2
TAMANRASSET	172.20	346.1	20 12	1				25 24 PP

SEPTEMBER 11 23.H 22.M 12.S EPICENTRE -15.89-171.99 DEPTH= 0.KM

A=-0.95290 B=-0.13411 C=-0.27202 D=-0.1394 E= 0.9902
G= 0.2694 H= 0.0379 K=-0.9623 HT= 5.6

SE= 2.07

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
APIA	2.08	5.6	0 34	-1	0 56	-6		
SUVA	9.44	254.8	2 18	-1				
RAOUL ISLAND	14.38	201.3	3 22	-4	5 51	-15		
ONERAHI	23.25	209.1	5 9	1	9 24	8		
KARAPIRO	24.56	204.3	5 23	2	9 52	14		
TONGARIRO	25.67	202.8	5 27	-4	10 18	21		
WELLINGTON	27.78	201.7	5 46	-5	10 39	8		
COBB RIVER	28.38	204.8	6 3	7	10 56	15		
KAIMATA	30.12	204.9	6 15	3				
BRISBANE	34.38	244.4	6 47K	-2				
RIVERVIEW	37.66	234.8	7 18A	1	13 6	0		
HAWAII V.OB.	38.76	25.7	7 27	1				
HONOLULU	39.39	20.7	7 32	1				
KIPAPA	39.52	20.7	7 32	0				
TRUK	42.67	300.3	8 5	7				
MELBOURNE	43.69	231.5	8 7A	0				8 14
GUAM	51.77	301.9	9 10	0				9 27
CAPE HALLETT	57.36	186.3	9 49A	-1	17 46	1		24 30 SSS
KOROR	57.80	289.5	9 53	0				
SCOTT BASE	62.88	185.0	10 28A	0			10 38	
BYRD STATION	68.28	171.4	11 1	-2				14 5 PP
MATUSIRO	70.19	319.2	11 14A	-1	20 25	1	11 30	
WILKES	70.54	204.8						28 2 SSS
KYOTO	70.86	316.6	11 18	-1	20 33	1		
BERKELEY	70.97	39.7	11 20A	1				
KING RANCH	71.03	43.1	11 20	0			11 34	
LICK	71.03	40.5	11 20A	0				39 17 PKPPKP
UKIAH	71.20	38.2	11 21	0				39 15 PKPPKP
PASADENA	71.39	44.9	11 21A	-1	20 45	7	11 31	30 48
WOODY	71.82	43.3	11 24A	0			11 34	
RIVERSIDE	71.84	45.5	11 24A	0			11 32	
PALOMAR	71.84	46.3	11 24A	0			11 33	
FRESNO	71.85	41.9	11 24A	-1				
ISABELLA	72.06	43.5	11 25A	-1			11 35	
CHINA LAKE	72.73	43.8	11 29A	-1			11 38	
HAYFIELD	72.90	46.6	11 31A	0			11 40	
TINEMAHA	73.03	42.4	11 32A	0			11 41	

PETROPAVLOVK	73.24	342.0	11 31	-2	21 0	1		
RENO	73.51	39.6	11 35	1				
Y.-SAKHLINSK	74.60	329.7	11 40	-1	20 54	-20		
BOULDER CITY	74.68	45.0	11 41	0				
CORVALLIS	74.71	33.8	11 47	6				
TUCSON	75.59	50.0	11 47	1				12 40
EUREKA	75.88	41.4	11 47	-1				39 8 PKPPKP
ALBERNI	77.12	29.5	11 54A	-1				
SEATTLE	77.26	31.9	11 57	1	23 33	109		12 22
VICTORIA	77.28	30.7	11 54A	-2				
HORSESHOE B.	77.93	30.1	11 58A	-1				
SALT LAKE C.	79.22	42.1	12 5	-2				
TACUBAYA	79.69	66.4	12 11	2	22 17	7		
BUTTE	81.60	37.3	12 19	0				
HONG KONG	81.64	296.0	12 10	-9				12 21
HUNGRY HORSE	82.07	34.8	12 20	-2				
BOZEMAN	82.31	38.2	12 23	0				12 50
COLLEGE	82.59	10.2	12 22	-2	22 28	-12		12 58
BANFF	82.91	31.9	12 23A	-3				
LUBBOCK	82.92	52.3	12 26	0				
BOULDER	83.22	45.2	12 28	1				
LARAMIE	83.61	44.0	12 9	-21				
RAPID CITY	86.43	42.3	12 44	0				
DALLAS	86.56	54.6	12 45	1				
FAYETTEVILLE	89.70	52.3	12 59A	0				
HUANCAYO	93.02	103.3	13 18	3				
LA PAZ	98.30	109.7	13 40	1				
PALISADES	106.27	51.3						18 48 PP
LAHORE	118.14	297.5	18 45	-2				
NAMANGAN	120.06	308.4	18 50	-1				
SVERDLOVSK	123.26	328.5	19 6	9				
KARACHI	124.34	290.6	19 28	29				
QUETTA	124.47	295.9	19 1A	2				21 0 PP
APATITY	125.80	348.3	18 55	-7				
SODANKYLA	127.14	351.1	19 3	-1				19 14
KIRUNA	127.47	354.1	19 12	7				
TANANARIVE	127.94	229.8	19 7A	1				
KIMBERLEY	132.76	200.2	19 17	2				
TIFLIS	139.22	316.6	19 27	0				
DURHAM	140.49	8.7	19 34	5				
SIMFEROPOL	143.62	328.2	19 32	-3				
HALLE	144.33	355.8	19 35	-1				
COLLMBERG	144.45	354.6	19 35	-1	29 27	165		19 51
KRAKOW	144.58	346.7	19 35	-1				22 54 PP
IASI	144.81	336.7	19 37	0				20 25
RACIBORZ	144.91	348.6	19 38	1				21 14
JENA	144.93	356.1	19 36	-1				23 8 PP
PLAUEN	145.31	355.4	19 34	-4				19 45
PRAGUE	145.51	352.7	19 50	12				22 13
BACAU	145.59	336.7	19 43	5				20 17
CHEB	145.71	355.0	19 50	12				22 59 PP
PARIS	146.86	6.7	19 38	-2			19 58	19 52 PKP2
BRATISLAVA	146.95	348.8	19 43	3				19 55
KARLSRUHE	146.96	359.5	19 42	2				20 21
HURBANOVO	147.02	347.4	19 46	5				24 3 PP
STUTTGART	147.19	358.5	19 42	1				19 53
STRASBOURG	147.40	0.3	19 45A	4				19 55 PKP2
TUBINGEN	147.43	358.7	19 44	3				
BUCHAREST	147.69	335.4	19 44	2				22 8
EBINGEN	147.79	358.8	19 42	0				19 58
BASLE	148.44	0.6	19 44	1				23 15
ZURICH	148.60	359.3	19 47	4				
BESANCON	148.68	2.7	19 46	3				19 56 PKP2
NEUCHATEL	148.96	1.4	19 49	5				
ISTANBUL KA.	148.98	328.2	19 44	0				
CHUR	149.10	358.0	19 47	3				
KSARA	149.19	310.5	19 45	1				23 21 PKS
BELGRADE	149.30	342.5	19 59	15				20 12
ZAGREB	149.42	349.0	19 47	3				
CLERMONT-FD.	149.93	6.8	19 53A	8				
TRIESTE	149.94	352.0	19 45A	0				20 1 PKP2
SOFIA	150.23	336.9	19 52	6				23 38 PP
JERUSALEM	150.62	307.5	19 55	9				
MONACO	152.24	0.9	19 57K	8				
LISBON	152.71	30.2	20 9A	20				20 19 PKP2
TOLEDO	153.88	21.4	19 55	4				20 25
TORTOSA	154.31	13.2	20 5	13				
HELWAN	154.47	307.1	19 52	0				23 50 PP

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GRANADA	156.42	23.7	20 28K	34				24 10 PP
MESSINA	156.80	344.8	19 42	-13				
ALGIERS UNI.	158.74	11.0	19 56	-1				20 37 PKP2
RELIZANE	159.12	17.2	19 58	0				24 27 PP
TAMANRASSET	172.75	18.5	20 9	0				25 28 PP

SEPTEMBER 12 0.H 28.M 3.S EPICENTRE 16.99 -85.60 DEPTH= 0.KM

A= 0.07335 B=-0.95409 C= 0.29039 D=-0.9971 E=-0.0767
G= 0.0223 H=-0.2895 K=-0.9569 HT= 5.4

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
SANTIAGO MA.	4.44	218.9	1 8	0				2 21 S*
SAN SALVADOR	4.77	227.7	1 11	-2	2 20	11		
MERIDA	5.47	316.7	1 14A	-9	2 23	-4		
COMITAN	6.30	264.2	1 32	-3	2 59	12		2 29
BALBOA HTS.	9.92	142.8	2 21	-4	4 38	21		
VERA CRUZ	10.25	284.0	2 30A	0	5 11	46		7 8
OAXACA	10.68	271.8	2 36	1	5 23	47		4 25
GALERAZAMBA	11.78	120.3	2 50	0	5 28	25		2 54 PP
PUEBLA	12.15	281.5	3 0	5				
TACUBAYA	13.14	282.6	3 10A	1	5 53	17		3 28
CHINCHINA	15.44	139.5	3 38A	-1	6 48	18		
BOGOTA	16.70	136.1	3 56A	1	7 11	12		4 12 PP
GUADALAJARA	17.17	285.1	4 1A	0				9 29
COLUMBIA	17.43	12.8	4 1	-3	7 10	-6		4 25
MANZANILLO	17.93	279.4	4 6	-4				7 13
SAN JUAN	18.62	82.8	4 17	-2	7 49	6		5 2
DALLAS	18.74	329.5	4 19	-1	7 56	10		
CHAPEL HILL	19.74	15.9	3 31	-61				
FAYETTEVILLE	20.50	339.8	4 40A	0	8 15	-9		5 5 PP
LUBBOCK	22.06	321.5	4 57	1	8 49	-4		
CHIHUAHUA	22.11	305.2	4 46A	-10				8 46
TERRE HAUTE	22.45	356.3			9 2	1		5 12 PP
ST. CLAUDE	22.94	88.9	5 8	4	9 20	11		
GEORGETOWN	23.07	17.2	5 8	2	9 22	10		
FORT FRANCE	23.63	92.0	5 11	0	9 23	1		10 31
PITTSBURGH	23.88	10.7	5 13K	-1	9 30	4		
TRINIDAD	24.20	101.9	5 18	1				
BERMUDA	24.35	47.1	5 21	3				
PHILADELPHIA	24.61	19.5	5 24	3	9 45	7		6 24
PENNSYLVANIA	24.65	14.2	5 35	14	9 45	6		6 29 PP
CLEVELAND	24.66	7.4	5 23	2	9 46	7		
CHICAGO CGS.	24.77	356.4	5 25	3	9 41	0		
BARBADOS	25.40	95.1	5 30	2				
PALISADES	25.98	20.5	5 34K	0	10 1	0	5 45	6 29 PP
TUCSON	27.41	308.3	5 47	0	10 31	6		
HARVARD	28.13	22.4	5 54	1				
BOULDER	28.62	327.3	5 57	-1				
OTTAWA	29.51	14.2	6 7K	1	11 2	4		7 6 PP
BREBEUF	30.14	16.9	6 12	1	11 12	4		
HUANCAYO	30.59	159.9	6 19	4	11 34	19		7 29 PP
RAPID CITY	30.83	334.8	6 19	2				
SHAWINIGAN	31.34	17.1	6 22K	0	11 33	6		7 27 PP
HAYFIELD	31.68	307.4	6 26A	1			6 34	7 19
BOULDER CITY	32.09	311.8	6 30	2				7 4
SEVEN FALLS	32.43	18.9	6 26K	-5	11 43	-1		7 34 PP
PALOMAR	32.48	306.0	6 33A	1			6 42	7 37 PP
SALT LAKE C.	32.78	321.7	6 33	-1	11 56	6		7 29 PP
RIVERSIDE	33.12	306.8	6 38A	1	11 54	-1	6 51	
HALIFAX	33.19	29.3	6 38K	0	12 1	5		
DALTON	33.52	306.9	6 42A	1			6 53	7 52 PP
PASADENA	33.79	306.6	6 44A	1	12 11	6		7 10 *SP
CHINA LAKE	34.03	309.7	6 45A	0			6 57	
ISABELLA	34.61	308.9	6 51A	1				
EUREKA	34.63	316.5	6 51	1				
WOODY	34.91	308.8	6 54A	1				7 51 PP
TINEMAHA	35.02	311.3	6 55A	1	12 31	6	7 7	8 19
KING RANCH	35.43	307.7	6 59A	2				8 18
BOZEMAN	35.62	328.8	7 0	1				
FRESNO	36.04	309.9	7 2A	0				
BUTTE	36.62	328.0	7 8	1	12 48	-1		
RENO	37.24	314.1	7 14A	1				

LA PAZ	37.47	151.7	7 18A	4	13 7	5		17 17 SCS
LICK	37.62	309.8	7 17A	1				7 36
SANTA CLARA	37.85	309.7	7 19A	1	13 13	5	7 42	
BERKELEY	38.28	310.3	7 23A	2	13 19	5		8 56 PP
MINERAL	38.83	314.2	7 25A	-1				7 37
HUNGRY HORSE	38.95	329.7	7 27	0	13 25	0		17 30 SCS
UKIAH	39.46	311.7	7 33	2				9 11 PP
SHASTA	39.53	314.3	7 29A	-3				8 59 PP
BANFF	41.61	331.8	7 48A	-1				
CORVALLIS	41.91	319.1	7 53A	2				
SEATTLE	42.88	323.6	8 0	1				9 52
VICTORIA	43.99	324.1	8 7A	-1	14 37	-2		18 5 SS
HORSESHOE B.	44.37	325.2	8 9A	-2	14 27	-18		
TALA POZO	49.11	154.7			15 52	0		
IVIGTUT	51.53	22.1			16 24	-2		14 24 PCS
SITKA	54.46	329.2	9 17	-12	17 13	8		18 7
ANGRA DO HO.	55.00	54.5			17 21	8		
RESOLUTE	57.93	357.1	9 55A	1	17 45	-6		19 40 SCS
THULE	60.13	4.6	9 53	-16	17 54	-26		13 28 PPP
COLLEGE	63.06	334.9	10 28	-1	18 57	0		20 14 SCS
REYKJAVIK	63.45	26.1	10 42K	11				
SCORESBY SD.	65.40	19.3	10 43	-1	19 26	0		24 11 SS
HAWAII V.OB.	65.81	284.0	10 46	-1				
MBOUR	65.83	81.6						10 59 PCP
KIPAPA	67.99	286.7	11 0	0				11 23
LISBON	69.13	54.5	11 8K	1				
NORD	70.26	8.4	11 12	-2	20 19	-5		11 25
ABERDEEN	72.39	34.6						25 32 SS
DURHAM	72.88	37.1	11 32	2				11 42
TOLEDO	72.93	52.8	11 30K	0	21 3	8		14 9 PP
GRANADA	73.68	55.5	11 38A	3	21 7	4		14 26 PP
KEW	73.99	40.4	11 35	-1	21 5	-2	11 47	25 51 SS
ALMERIA	74.62	55.7	11 42	2	21 18	4		
ALICANTE	75.91	53.9	11 44	-4	21 22	-6		26 13 SS
PARIS	76.18	42.9	11 45	-4				
TORTOSA	76.21	51.2	11 58	9	21 34	2		
CLERMONT-FD.	77.15	45.9	11 55	0				
RELIZANE	77.23	56.3	11 54K	-1	21 52	9		15 1 PP
SKALSTUGAN	78.40	26.9	12 1K	0				12 14
BESANCON	78.78	44.0	12 1	-2				
ALGIERS UNI.	78.98	54.9	12 1	-4	22 0	-1		
NEUCHATEL	79.48	44.1	12 7	0				15 14
STRASBOURG	79.65	42.4	12 8	0				15 17 PP
BASLE	79.77	43.4	12 18	9				13 15
KARLSRUHE	79.95	41.8	12 9	-1				15 10
KIRUNA	80.31	21.7	12 12K	0	22 15	0		27 26 SS
STUTTGART	80.52	41.9	12 13K	0				15 21 PP
EBINGEN	80.52	42.6	12 12	-1				12 24 PCP
COPENHAGEN	80.60	34.6	12 16A	3	22 19	1		15 19 PP
CHUR	81.23	43.8	12 20	3				
JENA	81.42	39.4	12 14	-4	22 21	-6		15 25 PP
PAVIA	81.43	45.5			22 23	-4		
HALLE	81.49	38.8	12 16	-2				15 26 PP
PLAUEN	81.89	39.7	12 15	-5				12 28
UPPSALA	81.95	29.8	12 20K	0	22 31	-1		22 44 SCS
COLLMBERG	82.17	38.8	12 21	0				15 31 PP
SODANKYLA	82.67	21.2	12 23	-1	22 42	2		15 40 PP
FLORENCE X.	83.25	46.4	12 18	-9	22 49	3		15 39 PP
PRAGUE	83.42	39.7	12 41	13				13 24
TRIESTE	84.38	44.1	12 32K	-1	22 52	-5		23 50 PS
TAMANRASSET	84.58	68.0	12 36	2	23 9	10		15 57 PP
ROME	84.68	47.9	12 32	-2	22 46	-14		15 58 PP
APATITY	84.85	19.7	12 34	-1	23 2	1		
HELSINKI	85.22	28.0	12 37	0				12 51
RACIBORZ	85.70	38.9						12 51 PCP
BRATISLAVA	85.71	40.9	12 40	1	23 12	2		15 52
WARSAW	86.53	36.2	12 42	-1	23 6	-12		13 24
KRAKOW	86.74	38.5	12 43	-1				16 7 PP
SKALNATE PL.	87.27	39.2			23 25	0		16 8 PP
PULKOVO	87.78	27.1	13 2	13				
MESSINA	88.11	50.7	12 39	-12	23 23	-10		16 33 PP
PETROPAVLOVK	91.07	327.1	13 6	1				
BUCHAREST	92.92	41.8	13 2	-12	24 39	23		13 41
ISTANBUL KA.	96.43	43.7						17 15 PP
SIMFEROPOL	97.61	38.5						17 30 PP
SVERDLOVSK	101.23	18.1			24 26	-61		
HELWAN	103.45	52.8			24 39	-66		18 1
KSARA	104.78	47.2	14 3	-4	24 39	-77		18 19 PP
JERUSALEM	105.39	49.3	15 39	777				

TIFLIS	105.77	36.3	17 46	777				
CAPE HALLETT	110.35	198.4	18 32	1	25 41	32		28 31 PKKP
HERMANUS	111.46	120.8						28 53 PS
SEMIPALATNSK	111.76	9.7	19 24	50				
MATUSIRO	112.57	322.9						28 54 PS
KIMBERLEY	115.57	114.2	18 52	11				
NAMANGAN	118.59	19.5						20 3 PP
QUETTA	126.16	29.6	19 5	3				20 53 PP
WILKES	129.67	188.4						38 55 SS
DEHRA DUN	130.40	18.6						22 38
TANANARIVE	135.49	99.9	19 26	6				22 18 PP
SHILLONG	137.63	3.4	19 28	5				

SEPTEMBER 15 4.H 22.M 37.S EPICENTRE -6.26 107.78 DEPTH= 325.KM

DEPTH OF FOCUS= 0.046R

A=-0.30352 B= 0.94664 C=-0.10839 D= 0.9523 E= 0.3053
G= 0.0331 H=-0.1032 K=-0.9941 HT= 6.9

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
DJAKARTA	0.95	275.0	0 43	0	1 20	3		
PORT BLAIR	23.28	319.9	4 39	-2	8 26	-1		
MANILA	24.50	32.2	4 53	1	8 43	-4		
BAGUIO CITY	25.85	29.2	5 4	0	10 48	99		
PERTH	26.64	164.6	6 20	69				9 54
HONG KONG	29.07	12.3	5 34K	1			6 10	
CANTON	29.66	10.3	5 38	0				
KOROR	29.87	63.5	5 39	-1				
COLOMBO	30.76	294.7	5 43	-5	10 31	5		
KUNMING	31.52	351.1	5 55	1	9 45	-53		6 54 PP
MADRAS	33.44	305.0	6 10	0	10 50	-17		9 18 PCP
TOCKLAI	35.16	339.5	6 27	2				
SHILLONG	35.22	334.6	6 27K	2	11 37	2		7 54 PPP
CHATRA	38.48	329.6	6 51	-2				14 12
LHASA	39.15	336.6	6 58A	0	12 37	3	7 58	8 31 *SP
ZO-SE	39.30	18.3	7 0	1				8 33 *SP
NANKING	39.52	14.8	7 2	1	12 44	5		
CHARTERS TS.	39.77	113.8	7 4K	1	12 45	2		
TIENSHUI	40.67	357.4	7 16	6				
GUAM	41.62	61.8	8 20	62				
LANCHOW	42.28	355.2	7 24A	0	13 24	4	8 25	
BOMBAY	42.57	306.7						10 08
NAGASAKI	44.11	27.1	7 38	0	13 35	-11		
WUWEI	44.23	354.2	7 42	3				
YINCHUAN	44.53	358.3	7 45	4				
TRUK	46.03	73.4	7 54	1			8 56	9 26 PCP
DEHRA DUN	46.21	323.6	7 55	0	14 15	-1		16 7
TATUNG	46.41	5.8	8 0	4				
PEKING	46.71	8.9	7 58	0			9 0	9 32 *SP
BRISBANE	47.82	121.6	8 7A	0	14 43	5		
RIVERVIEW	48.58	130.3	8 10A	-3	14 53	4		
KYOTO	48.79	30.8	8 11A	-3	14 49	-3		
LAHORE	49.33	321.7	8 15	-3	14 54	-5	9 36	16 49 *SS
KARACHI	50.81	310.6	8 26	-4				
MATUSIRO	51.25	31.5	8 31K	-2	14 54	-31	9 35	13 12 SCP
TUKUBASAN	52.01	33.3	8 34	-4	15 31	-4		15 42
CHANGCHUN	52.32	16.0	8 39	-2	15 39	-1	9 43	
QUETTA	53.33	315.1	8 46	-2	15 49	-4	9 53	11 40 *PPP
SENDAI	53.95	32.1	8 53	1				
ULAN-BATOR	53.96	359.3	8 51	-1	16 4	2		
NAMANGAN	57.50	328.1	10 16	59				
IRKUTSK	58.38	357.5	9 24	0	17 5	6		
NOUMEA	58.70	112.2	9 27	1				
TANANARIVE	59.85	251.8	9 36A	2			10 42	10 19 PCP
WILKES	59.88	178.7			17 27	8		19 28 *SS
SEMIPALATNSK	61.26	340.3	9 41	-2				
Y.-SAKHLINSK	61.36	26.6	9 42	-2	17 38	1		
TERRE ADELIE	64.71	166.0	10 3	-2	18 15	-4		
PETROPAVLOVK	73.05	29.3	10 56	0	19 56	0		
SVERDLOVSK	73.67	335.2	10 58	-2				
TIFLIS	74.56	316.2	11 4	-1	20 14	2		
CAPE HALLETT	75.91	163.8	11 13A	0	20 37	10	12 20	

SCOTT BASE	77.62	169.3	11 24A	2	20 55	10		21 14 SCS
KSARA	78.63	306.2	11 30A	3	21 35	39		14 35 PP
JERUSALEM	78.64	304.0	11 29A	2				
TIKSI	78.97	6.7	11 27	-2	20 57	-2		
HELWAN	81.45	301.4	11 43	1	21 23	-2		
SIMFEROPOL	82.97	316.6	11 51	1				
ISTANBUL KA.	85.63	312.0	12 3	0				
IASI	87.94	317.7	12 15	1				
BUCHAREST	88.42	314.8	12 18	2			13 32	12 29
APATITY	89.83	338.3	12 21	-2				
SOFIA	90.13	312.8	12 25	1	22 52	5		15 54 PP
BYRD STATION	90.62	172.6	12 28	1	23 3	11	13 36	15 52 PP
HELSINKI	91.81	330.2	12 32	0				
SODANKYLA	92.33	337.5	12 34	-1				16 24 PP
KRAKOW	93.37	319.8	12 41	2				14 47
KIRUNA	94.75	337.6	12 45	-1				16 35 PP
UPPSALA	95.44	329.5	12 49	0				16 45 PP
MESSINA	95.58	307.7						25 14
SKALSTUGAN	98.02	333.3	13 1	1				16 55 PP
STUTTGART	100.33	318.3						17 19 PP
EBINGEN	100.51	317.7						17 23 PP
NORD	100.95	352.9	13 12	-2				17 27 PP
TAMANRASSET	103.68	291.8	13 28	2				17 44 PP
RESOLUTE	110.39	6.3						28 33 PKPPKP
ALBERNI	118.52	36.3	18 13	4				
HORSESHOE B.	119.37	35.7	18 12	1				
VICTORIA	119.68	36.6	18 12	1				
SEATTLE	120.74	37.1	18 19	6				
SHASTA	123.68	44.6	18 20K	1				19 7
MINERAL	124.37	44.7	18 22K	2				
BERKELEY	124.86	47.7	18 25K	4				
LICK	125.51	48.0	18 26K	4				
RENO	125.96	44.9	18 27K	4				
FRESNO	127.09	48.0	18 29K	4				
BUTTE	127.28	34.5	18 29	3				
KING RANCH	127.69	49.6	18 32	5				21 21 SKP
TINEMAHA	128.13	47.0	18 33	6				21 23 SKP
WOODY	128.21	48.9	18 30	2				21 20 SKP
BOZEMAN	128.34	34.1	18 32	4			19 50	
ISABELLA	128.52	48.7	18 31	3				21 22 SKP
EUREKA	128.64	43.2	18 30	2			19 44	21 24 SKP
PASADENA	129.33	50.4	18 34	4			19 51	21 28 SKP
RIVERSIDE	130.00	50.3	18 34	3				21 27 SKP
PALOMAR	130.65	50.8	18 36	4			19 49	21 30 SKP
SALT LAKE C.	130.70	39.7	18 36	4				
BARRETT	131.05	51.5	18 36	3				21 30 SKP
BOULDER CITY	131.06	46.7	18 37	4			19 44	21 31 SKP
HAYFIELD	131.44	49.8	18 38	4			19 51	21 32 SKP
RAPID CITY	133.58	30.8	18 40	2			19 54	21 40 SKP
BOULDER	135.16	36.5	18 45	4				
TUCSON	135.71	49.2	18 36	-6				21 49 SKP
SEVEN FALLS	139.28	358.5	18 38	-10				21 41 PP
SHAWINIGAN	139.86	0.6	18 46	-3				21 48 PP
BREBEUF	140.90	1.6	18 47	-5				
OTTAWA	140.90	3.9	18 48A	-4			19 55	21 54 PP
HALIFAX	141.06	350.2	18 51K	-1				
LUBBOCK	141.36	41.4	18 53	0				
HARVARD	143.90	359.2	18 55	-2				
DALLAS	145.05	37.6	19 3	4				
PALISADES	145.37	2.2	19 1	2			20 9	22 15 PP
CHAPEL HILL	149.83	11.1	18 10	-56				
TACUBAYA	150.70	61.0	19 9	2				19 21 PKP2
COLUMBIA	151.22	15.3	19 12	4				23 26
BERMUDA	153.08	345.8	19 18	7				23 11
LA PAZ	157.02	190.1	19 33A	17			20 35	23 35 PP
HUANCAYO	161.55	170.4	19 28	7			20 41	25 41 *SPP
ST. VINCENT	167.21	303.3	19 34	8			20 40	
TRINIDAD	168.55	293.2	19 33	6			20 46	
CHINCHINA	176.38	110.6	19 35	4				22 28 *PPKP2
BOGOTA	177.54	131.5	19 37	6				31 35 *PPPP

SEPTEMBER 15 18.H 42.M 24.S EPICENTRE -5.37 153.97 DEPTH= 118.KM

DEPTH OF FOCUS= 0.013R

A=-0.89469 B= 0.43693 C=-0.09288 D= 0.4388 E= 0.8986

G= 0.0835 H=-0.0408 K=-0.9957 HT= 7.0

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
RABAUL	2.14	302.7	0 36	0				
TRUK	12.92	350.6	2 57	-3	5 8	-14	3 14	
CHARTERS TS.	16.38	206.6	3 46A	2				6 53
NOUMEA	20.71	145.5	4 29A	-4				5 10 *SP
GUAM	20.83	334.0	4 34	0			5 15	5 45 *SP
BRISBANE	22.01	182.2	4 45A	-1	8 41	5		
KOROR	23.18	302.8	4 58	1	9 12	16	5 27	5 40 PP
RIVERVIEW	28.44	184.9	5 46A	0	9 52	-31		6 7
MELBOURNE	33.34	193.0	6 29A	0				
KARAPIRO	37.89	151.8	7 28	21				
MANILA	38.25	301.6	7 11	1				
TONGARIRO	38.92	153.0	7 14	-2				7 36
COBB RIVER	39.33	157.4	7 19	0				
BAGUIO CITY	39.49	303.8	7 20	0	13 18	5		
GEBBIES PASS	41.58	159.5	7 35	-3				
KYOTO	43.69	338.2	7 56	1				
MATUSIRO	44.23	341.7	7 58K	-1	14 7	-16		
NAGASAKI	44.26	330.5	8 4	5				17 26
PERTH	44.39	228.6	8 1	1				17 53
HONG KONG	47.67	306.7	8 28A	2				
ZO-SE	47.91	321.2			15 17	2		
CANTON	48.77	307.0	8 36A	1	15 34	7	9 0	
NANKING	50.05	320.4	8 45A	0	15 50	5		
VLADIVOSTOK	52.24	339.6	9 0	-1	16 15	0		
Y.-SAKHLINSK	53.03	350.4	9 5	-2				
KIPAPA	54.06	58.8	9 31	16				
CHANGCHUN	55.37	335.0	9 22	-2				
PEKING	57.00	325.9	9 34A	-2	17 19	0		
KUNMING	58.29	303.7	9 46	1	17 43	7		
PETROPAVLOVK	58.41	3.3	9 42	-4			10 8	
TERRE ADELIE	61.97	185.6	10 8	-2				
LANCHOW	62.46	315.5	10 14A	1	18 35	6	10 37	
MAGADAN	64.76	358.2						11 4 PCP
ULAN-BATOR	67.21	327.7	10 44	0	19 33	6		
SHILLONG	67.61	300.3	10 46A	0	19 36	4		
LHASA	69.59	304.2	10 59A	1	20 1	6		
OASIS-BUNG.	70.91	200.1	11 4	-2				
IRKUTSK	71.16	330.3	11 7A	-1				36 43 SS
CHATRA	72.01	300.3	11 13	0				11 57
SCOTT BASE	72.75	177.2	11 17	0	19 48	-44		
MIRNY	73.83	201.4	11 22	-2				21 28 PS
COLOMBO	74.95	278.6	11 57	27	21 27	31		
MADRAS	75.51	284.8	11 32	-1				11 55
TIKSI	78.59	352.1	11 47	-3	21 48	12	12 14	14 49 PP
DEHRA DUN	80.63	301.8	12 17	16				21 58
COLLEGE	81.95	21.5	12 5	-3			13 27	
BOMBAY	83.39	289.7			22 25	0		23 11
LAHORE	84.00	302.4	12 16A	-2	22 31	0	12 38	23 16 *SS
BYRD STATION	84.14	169.9	12 17	-2	23 14	41	12 41	22 33 SKS
FRUNSE	85.88	313.6	12 27A	-1	22 53	4	12 53	23 38 *SS
WARSAK DAM	86.71	304.4	12 38	6				
SHASTA	88.65	49.1	12 43	2				
LICK	88.77	52.5	12 44A	2				
MINERAL	89.20	49.5	12 56	12				
TASHKENT	89.52	311.4	12 44	-1	23 27	3	13 10	24 14 *SS
STALINABAD	89.56	308.6	12 45	0	23 29	5		
KING RANCH	90.04	54.7					13 13	
QUETTA	90.09	300.1	12 47A	-1	23 25	-4	13 11	23 2 SKS
WOODY	90.80	54.4	12 50	-1			13 20	
PASADENA	91.21	56.0	12 54	1	23 5	-34	13 21	24 56 *PS
TINEMAHA	91.44	53.1	12 55	1			13 22	
CHINA LAKE	91.83	54.4					13 19	
RIVERSIDE	91.84	56.2	12 55	-1			13 20	
PALOMAR	92.22	56.9	12 58	0			13 23	
BARRETT	92.32	57.6					13 14	
HAYFIELD	93.27	56.6	13 2	-1			13 29	
EUREKA	93.42	50.8	13 3	0			13 49	13 32
BOULDER CITY	94.08	54.4	13 30	24				
HUNGRY HORSE	95.30	42.0	12 39	-33			13 26	
SVERDLOVSK	96.29	326.5			24 21	-1		31 0 SS
SALT LAKE C.	96.63	49.7	13 47	29				
TUCSON	97.23	58.3	13 49	28				
RESOLUTE	100.66	14.6			24 0	-59		26 42 PS

BOULDER	101.64	50.4	18 2	262				
TIFLIS	107.84	312.0						28 5 PS
SIMFEROPOL	114.67	317.3						19 34 PP
KSARA	116.22	305.0	18 14	-15				19 41 PP
UPPSALA	116.35	337.1	18 52	22				
DURHAM	126.94	342.5	19 44K	54	26 18	35		
STUTTGART	127.43	331.3	18 50	-1				
HUANCAYO	128.02	109.7	19 20	28				20 0 *SPKP
STRASBOURG	128.24	331.9						19 49 *SPKP
BASLE	129.07	331.1						23 8
MESSINA	130.09	316.9						28 33
LA PAZ	133.04	118.4	19 34	32				23 30 PP
GRANADA	142.28	330.1	18 6	-73				
TRINIDAD	144.48	79.2	19 23	0				
TAMANRASSET	144.97	302.7	19 23A	0			20 8	22 42 PP

SEPTEMBER 19 17.H 29.M 6.S EPICENTRE 79.61 3.16 DEPTH= 0.KM

A= 0.18119 B= 0.01001 C= 0.98340 D= 0.0552 E=-0.9985
G= 0.9819 H= 0.0543 K=-0.1815 HT=-13.6

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
NORD	3.79	311.1	0 57	-4	1 36	-12		
SCORESBY SD.	11.07	228.0	2 41	-2	4 38	-11		4 55
KIRUNA	12.69	149.1	3 5	0				3 15 PP
SODANKYLA	13.79	139.7	3 16	-4	5 40	-15		
APATITY	14.50	129.3	3 23A	-6	5 54	-17		8 51 PCP
SKALSTUGAN	16.33	165.4	3 52	-1				
UPPSALA	20.35	158.7	4 41	0	8 31	6		
HELSINKI	20.63	148.2	4 44	0	8 38	8		9 4 SS
PULKOVO	21.58	141.1	4 52	-2	8 52	3		
COPENHAGEN	24.23	167.1	5 40	20	9 45	9		
DURHAM	25.01	186.5	6 4	37				
TIKSI	25.96	36.0	5 36	0	10 7	2		
SVERDLOVSK	28.94	106.7	6 1	-2	10 53	-1		
JENA	28.95	169.0	6 2	-2				6 51 PP
RACIBORZ	30.12	160.5	6 25	11				6 48
STRASBOURG	31.20	174.1			11 37	7		
BRATISLAVA	31.96	162.3	6 31	1				
CLERMONT-FD.	33.97	180.1	6 47	-1				
MONACO	36.04	174.7	7 4	-1				8 26 PPP
IRKUTSK	41.04	66.7	7 44	-3				9 17 PP
TIFLIS	41.10	130.8	7 47	-1	14 10	9		9 30 PP
KABANSK	41.64	64.7						9 31 PP
ALGIERS UNI.	42.96	180.1			14 38	9		
KYAKHTA	43.23	65.5	8 4	-1				9 50 PP
TCHIMKENT	44.50	104.0	8 15	0				
FRUNSE	44.83	98.8	8 18	0				10 11 PP
TASHKENT	45.40	104.7						10 0 PCP
ULAN-BATOR	45.68	66.0	8 24	-1				
NAMANGAN	46.15	102.4	8 28	0				
ANDIJAN	46.50	101.7	8 31	0				18 42 SS
ASHKABAD	46.83	117.1	8 34	0				10 29 PP
HUNGRY HORSE	47.37	306.2	8 41	3				
DZHERGETAL	47.78	103.4						10 45 PP
KSARA	47.79	142.6	8 41	0				10 35 PP
STALINABAD	48.00	106.1	8 42	-1				
KHOROG	49.54	103.5	8 57	2				
RAPID CITY	49.84	295.2	9 0	3				
QUETTA	55.85	110.2	9 40A	-2				
FAYETTEVILLE	56.09	284.5	9 42	-1				
EUREKA	56.33	305.7	9 51	6				
TAMANRASSET	56.91	177.4	9 48	-2				
BOULDER CITY	59.59	303.9	10 13	5				
TUCSON	62.63	299.3	10 27	-2				
CHATRA	62.72	90.7	10 27	-2				
SHILLONG	64.80	86.3	10 37A	-6				

SEPTEMBER 21 20.H 16.M 52.S EPICENTRE 40.74 34.03 DEPTH= 0.KM

A= 0.62969 B= 0.42520 C= 0.65015 D= 0.5596 E=-0.8287
G= 0.5388 H= 0.3638 K=-0.7598 HT= -2.0

SE= 2.95

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
ISTANBUL KA.	3.77	276.6	1 0	-1	1 50	3		
SIMFEROPOL	4.20	0.9	1 6	-1	1 53	-5		
SOTCHI	5.09	54.3	1 18	-2	2 20	0		
BUCHAREST	6.91	304.7	1 42	-3	3 12	6		2 11 P*
FOCSANI	7.03	317.1	1 48	1	3 20	11		4 19
KSARA	7.07	167.4	1 49K	2	3 11	2		3 54 SG
KISHINEV	7.31	330.8	1 46	-5	3 12	-4		
BACAU	7.78	320.8	1 48	-9	3 25	-2		
IASI	7.96	326.3	1 56	-4	3 26	-6		2 20 P*
CAMPULUNG	8.00	307.4	2 6	6	3 26	-7		2 29 P*
TIFLIS	8.18	79.6	2 5	2	3 50	13		
SOFIA	8.24	287.2						2 12
ATHENS	8.45	254.2	2 7K	0				2 18 PP
JERUSALEM	9.00	173.5	2 13	-1	4 17	19		
GORIS	9.51	93.5	2 26	5				
SKOPJE	9.58	281.5						3 0
MAKHACH-KALA	10.29	73.1	2 36	4	4 42	12		
TIMISOARA	10.60	302.4	2 42	6	4 44	7		6 4 SG
BELGRADE	10.78	296.7	2 31K	-8	4 40	-2		3 12
HELWAN	11.07	192.3	2 42	-1	4 47	-2		
SZEGED	11.49	303.2			4 41	-18		5 22 SS
KALOCSA ·	12.33	302.9						3 35 PPP
BUDAPEST	12.67	307.1						3 22 PP
TARANTO	12.76	274.2	2 45	-21				6 25
HURBANOVO	13.37	307.4	3 32	18	6 14	30		
KRAKOW	13.57	318.0	3 27	11	6 2	13		4 29
ZAGREB	14.09	297.1	3 26	3	8 3	122		
BRATISLAVA	14.17	307.2	3 28	4	6 13	10		7 52
REGGIO CALA.	14.45	265.4	3 21	-7	6 0	-10		7 20
RACIBORZ	14.49	315.4	3 38	9				8 50 PCP
MESSINA	14.50	265.9	3 27	-2	6 11	0		
WARSAW	14.54	326.5	3 25	-4	6 28	16		5 9
TRIESTE	15.57	295.1	3 35	-8	6 53	16		8 48
ROME	16.23	281.2	3 31	-20	6 9	-43		7 55 S*
PRAGUE	16.58	310.8	3 58	2	7 10	10		4 39
BOLOGNA	17.11	290.2	4 12	10				4 30
FLORENCE X.	17.12	287.7	4 5	3	7 28	15		8 12 SS
CHEB	17.78	308.9						8 37 SS
COLLMBERG	17.96	313.0	4 15	2	8 27	55		5 55
PLAUEN	18.09	310.0	4 12	-2				5 2
POTSDAM	18.45	316.1	4 18	-1	7 50	7		4 48
JENA	18.60	310.7	4 19	-2	7 56	10		
SONNEBERG	18.60	308.8	4 20	-1				5 30
HALLE	18.63	312.7	4 19	-2	7 52	5		4 50 PP
CHUR	18.67	297.2						5 24
PAVIA	18.70	292.0	4 27K	5	7 45	-3		
PULKOVO	19.19	354.3	3 26	-62	7 59	0		
STUTTGART	19.31	302.8	4 27	-2	8 4	2		8 55
EBINGEN	19.31	301.0	4 31	2				
TUBINGEN	19.33	302.1	4 31	1				
ZURICH	19.40	298.4	4 33	3				
OROPA	19.58	293.1						5 8
KARLSRUHE	19.88	303.1	4 37A	1	8 20	5		6 52
MONACO	19.89	287.4	4 36	0				4 54 PP
BASLE	20.10	298.6	4 39A	1	8 27	8		
STRASBOURG	20.18	301.6	4 40	1	8 26	5		8 50 PCP
HELSINKI	20.25	346.9	4 37	-3	8 1	-21		8 14
NEUCHATEL	20.44	296.8	4 42	0	8 34	8		
COPENHAGEN	20.61	323.7	4 44	0	8 32	2		
HAMBURG	20.66	316.5	4 42	-2	8 34	3		5 9
BESANCON	21.13	297.3	4 48A	-1				5 12 PP
BENSBERG	21.20	307.8	4 49	-1	8 56	15		
UPPSALA	21.69	337.3	4 52	-3	8 48	-3		9 7
WITTEVEEN	22.14	312.3	5 0	1				
DE BILT	22.74	309.7	5 8	3	9 20	10		
CLERMONT-FD.	22.98	292.9	5 7	0	9 21	7		
SVERDLOVSK	23.57	38.0	5 14	1	9 28	3		
PARIS	23.66	300.5	5 15	1	9 27	1		5 38 PP
ALGIERS UNI.	24.42	270.7	5 20	-1	9 42	3		6 2 PPP
KEW	25.89	306.1	5 37	2	10 9	5		
SKALSTUGAN	26.21	338.0	5 41	3				10 51
ALICANTE	26.62	276.2	5 46	4	10 23	7		

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RELIZANE	26.66	270.1	5 36	-7				6 18 PP
STALINABAD	26.74	83.3	5 40	-3				
APATITY	26.86	359.5	5 43	-1				10 41
SODANKYLA	26.99	353.7	5 45	-1	10 41	19		8 59 PCP
DURHAM	27.40	312.8	6 33	44	11 28	59		
KIRUNA	28.14	349.1	5 55	-1	10 41	0		6 30
NAMANGAN	28.33	77.0	5 59	1				
ABERDEEN	28.42	317.6			10 57	12		
QUETTA	28.66	101.1	5 58	-3	10 38	-11		
TOLEDO	28.90	280.9	6 1	-2	10 47	-6		
GRANADA	29.33	275.4	6 57K	50	11 54	54		9 51 PCP
RATHFARNHAM	29.80	308.6	6 15	4	11 29	22		12 28
TAMANRASSET	29.95	241.9	6 13A	1	11 11	1		9 14 PCP
FRUNSE	30.10	72.4	6 13	-1				
WARSAK DAM	30.40	90.6	5 44	-32				
DEHRA DUN	36.96	92.2						9 43
POONA	40.62	111.0	7 45	2				
CHATRA	45.64	90.6	8 23	-1				
SHILLONG	49.88	89.0	8 55A	-2				
RESOLUTE	60.01	346.2			18 25	2		
MAGADAN	67.34	29.5						18 7
HALIFAX	67.48	310.0	10 59	-1				
WESTON	73.29	311.8	11 37	2				
COLLEGE	74.72	0.8	11 42	-2				
MATUSIRO	76.38	53.4	11 52	-1	21 35	-3		
MORGANTOWN	79.95	314.2	12 25	12				
CHAPEL HILL	82.07	311.1	12 29	5				
COLUMBIA	84.58	310.9	12 36	-1				
HUNGRY HORSE	86.89	339.3	12 49	1				
RAPID CITY	87.21	330.7	12 50	0				
BOZEMAN	88.47	336.3	12 56	0				
VICTORIA	88.91	345.2	12 58	0				
EUREKA	95.60	337.1	13 29	0				
RABAUL	113.87	74.1						19 31 PP

SEPTEMBER 24 8.H 21.M 13.S EPICENTRE 5.55 127.14 DEPTH= 31.KM

A=-0.60102 B= 0.79343 C= 0.09612 D= 0.7971 E= 0.6038
G=-0.0580 H= 0.0766 K=-0.9954 HT= 7.0

SE= 3.18

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KOROR	7.50	76.0	1 46K	-4				
BAGUIO CITY	12.57	329.7	3 1	1	5 57	38		
MADANG	18.58	90.1	4 51	34				5 3
GUAM	19.05	64.4	4 20K	-2				
HONG KONG	20.84	324.2	4 42A	0	7 47	-40		
CANTON	21.97	323.8	4 54A	1				
DJAKARTA	23.39	240.4	5 0	-7	9 17	3		
TRUK	24.62	84.2	5 19	0				12 41
YAKUSIMA	24.97	6.9	5 17	-5	10 9	28		
PHU-LIEN	25.02	309.2	5 24	1	10 43	61		
ZO-SE	26.02	348.3	5 31A	-1	9 57	-2		
KAGOSIMA	26.08	6.6	5 34	1	10 16	17		6 32
MIYAZAKI	26.53	8.2	5 37	0	10 25	18		6 21
RABAUL	26.81	110.7	5 39	0				6 29 PPP
TOMIE	26.97	3.0	5 39	-2	10 43	29		
UNZENDAKE	27.19	5.7	6 10	27	10 32	14		
KUMAMOTO	27.33	6.5	5 54	10	10 1	-19		6 33
ASOSAN	27.45	7.2	5 54	9	10 48	26		6 41
NANKING	27.49	344.5	5 45A	-1				
FUTZELING	27.56	339.6	5 49	3				
SIMIDU	27.63	10.6	5 45	-2	10 34	9		6 33 PP
SAGA	27.71	5.7	5 49	1				6 44
TORISIMA	27.72	25.0	5 45	-3				8 3
OOITA	27.85	8.0	5 57A	8	10 25	-3		
UWAZIMA	27.99	9.7	5 29	-21				6 43
HUKUOKA	28.05	5.8	5 51A	0	10 10	-22		6 31
MUROTO	28.33	12.5	6 2	9	10 31	-5		7 10 PP
SIMONOSEKI	28.47	6.6	5 52	-2				
KOTI	28.48	11.2	5 55	1	10 44	6		6 45
ITUHARA	28.57	3.7	5 52	-3	10 30	-10		
SIOMISAKI	28.89	15.0	5 58	0	10 58	13		6 56 PP
HIROSIMA	29.09	9.0	5 56	-4	10 49	1		6 57 PP

TOKUSIMA	29.20	12.7	6 0	-1	10 58	8	7 7 PP
TAKAMATU	29.33	11.7	6 3	1	10 59	7	6 59 PP
WAKAYAMA	29.49	13.6	6 3	0			6 56 PP
SUMOTO	29.54	13.1	6 3	-1	11 7	12	7 5 PP
HAMADA	29.56	8.2	6 2	-2	11 21	25	7 0 PP
HIMEJI	29.58	12.2	6 52	48			
OWASE	29.59	15.3	6 4	0	11 25	29	7 5 PP
OKAYAMA	29.65	11.3	6 4	-1	10 54	-3	7 3 PP
HATIDYOZIMA	29.85	21.7	6 43	36			7 44 PP
KOBE	29.92	13.4	6 5	-2	11 3	2	7 18
OSAKA	29.98	13.9	6 7	-1			11 51
NARA	30.08	14.4	6 11	2			
MATSUE	30.25	9.6	6 8	-2	11 16	9	14 29
YONAGO	30.28	10.1	7 15	65			
TU	30.30	15.4	6 12	1			
KYOTO	30.38	14.0	6 7A	-4	11 11	2	
KAMEYAMA	30.40	15.3	6 11A	-1			7 1
KUNMING	30.43	312.1	6 12	0			
HAMAMATU	30.63	17.3	6 6	-8			7 21
TOYOOKA	30.66	12.3	6 13	-1	11 41	28	7 7 PP
OMAESAKI	30.67	18.1	6 14A	0	11 39	26	7 19 PP
HIKONE	30.74	14.7	6 14A	-1	11 38	24	7 31 PP
MAIZURU	30.75	13.4	6 14	-1			7 19 PP
NAGOYA	30.84	15.8	6 15	0	11 52	36	7 20 PP
GIHU	31.00	15.4	6 16	-1	11 22	4	7 33 PP
TSINGTAU	31.01	349.2	6 20	3			
SAIGO	31.03	9.7	5 53	-24			
TSURUGA	31.06	14.2	6 17	0	11 44	25	7 25 PP
SHIZUOKA	31.07	18.1	6 17	0	11 50	31	7 37 PP
AJIRO	31.36	19.1	6 27	7			7 16 PP
MISIMA	31.38	18.8	6 16	-4	11 27	3	7 23 PP
IIDA	31.41	16.9	6 18	-2	11 44	19	7 30 PP
MERA	31.49	20.2	6 10	-11	11 49	23	7 28 PP
HUKUI	31.49	14.2	6 34	13			11 31
CHARTERS TS.	31.60	144.0	6 20K	-2	11 27	-1	
HUNATU	31.67	18.3	6 21	-2	11 24	-5	7 33 PP
KOHU	31.73	17.9	6 22	-1	11 29	-1	6 56
YOKOHAMA	31.89	19.6	6 21	-4			7 1
KANAZAWA	32.04	14.5	7 22	56			
MATUMOTO	32.13	16.6	6 28	1	11 47	11	7 40 PP
TOKYO C.M.O.	32.15	19.5	6 26	-1	11 44	8	7 39 PP
HONGO	32.18	19.5	6 55	28	12 8	31	7 49
TITIBU	32.21	18.3	6 25	-3			7 39 PP
TOYAMA	32.34	15.2	6 27	-2	12 12	33	7 58 PP
OIWAKE	32.37	17.4	6 36	7	12 16	36	7 30 PP
KUMAGAYA	32.46	18.6	6 31	1			7 41 PP
MATUSIRO	32.48	16.7	6 27A	-3	11 57	16	7 48 PP
NAGANO	32.59	16.6	6 31	0	12 16	33	8 5 PP
MAEBASI	32.59	18.0	6 25	-6	12 2	19	7 42 PP
TUKUBASAN	32.76	19.6	6 28	-4	11 38	-8	14 7 SS
KAKIOKA	32.79	19.7	6 36	3	11 52	6	8 7
WAZIMA	32.91	14.4	6 33	-1			7 45 PP
UTUNOMIYA	32.98	19.0	6 33	-1	11 50	1	7 14 PP
TAKADA	33.00	16.4	6 35	1			
MITO	33.03	20.0	6 42	7	12 32	42	7 19 PP
CHENGTU	33.12	321.7	6 35A	0			
SIAN	33.17	331.7	6 40	4			
DAIREN	33.57	352.2	6 41	2			
SHIRAKAWA	33.62	19.1	6 39	-1	11 56	-3	7 45 PP
LINFEN	33.62	336.8	6 44	4			
ONAHAMA	33.69	20.1	6 31	-9	12 5	5	6 53 PP
AIKAWA	33.86	15.8	6 41	-1			7 55 PP
NIIGATA	33.99	17.0	6 43A	0	12 28	23	8 9 PP
HUKUSIMA	34.27	18.9	6 44	-1	12 13	4	8 33 PP
PORT BLAIR	34.55	282.5	7 1	13	12 13	-1	14 53
YAMAGATA	34.69	18.4	6 50	1	12 19	3	8 21
TAIYUAN	34.72	339.5	6 51	2			
SENDAI	34.89	19.1	6 49	-2	12 21	2	12 47
TIENSHUI	35.01	328.4	6 53	1			
SAKATA	35.13	17.3	6 59	6	12 43	20	7 57 PP
ISINOMAKI	35.17	19.5	6 54	1	12 27	4	12 56
PEKING	35.72	345.5	6 57A	-1			
MIZUSAWA	35.74	18.8	6 58	0	12 36	4	
AKITA	35.97	17.1	7 1	1	12 37	2	13 10
KWANTING	36.05	344.9	7 1	0			
MORIOKA	36.27	18.4	7 1	-1	12 47	7	8 52
MIYAKO	36.49	19.4	7 3	-1	12 53	10	
TATUNG	36.59	342.0	7 7	2			

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HATINOHE	37.14	18.3	7 9	-1	13 22	28		
LANCHOW	37.17	327.9	7 11	1				
AOMORI	37.18	17.2	7 12	2	13 22	28		8 4 PP
TOCKLAI	37.37	307.9	7 18	6	13 2	5		
VLADIVOSTOK	37.65	5.7	7 13K	-1				8 46 PP
INCHUAN	37.85	332.9	7 17	1				
CHITTAGONG	37.99	299.6	7 22	5				
HAKODATE	38.05	16.6	7 16	-1	13 15	8		9 11
PAOTOW	38.11	338.7	7 20	2				
CHANGCHUN	38.16	357.9	7 18	0				
MORI	38.30	16.2	7 26	7	13 18	7		8 13 PP
MURORAN	38.63	16.5	7 19	-3				
SINING	38.68	326.5	7 26	3				
SUTTSU	38.86	15.4	7 23	-1	13 20	0		9 25
TOMAKOMAI	38.98	17.0	7 43	18				
URAKAWA	39.01	18.6	7 26	1	13 27	5		13 58
SHILLONG	39.18	304.3	7 26	-1	13 9	-15		9 19
WUWEI	39.19	328.7	7 28	1				
SAPPORO	39.42	16.5	7 29A	0	13 14	-14		8 44 PP
OBIHIRO	39.84	18.5	7 33	1	13 31	-3		
KUSIRO	40.28	19.7	7 39	3	14 0	19		17 26 SS
ASAHIGAWA	40.36	17.1	7 39	2	13 36	-6		
SUIHWA	40.91	359.8	7 39	-2				
NEMURO	40.99	20.6	7 44	2	13 47	-5		9 1
ABASHIRI	41.17	18.8	7 46	3	14 7	13		
BRISBANE	41.28	144.0	7 41A	-3	13 42	-14		
LHASA	41.63	309.5	7 48K	1	14 0	-1		
WAKKANAI	41.68	15.4	7 47	0	14 0	-2		15 15
Y.-SAKHLINSK	43.37	15.5	8 1	0				14 42
CHATRA	43.55	303.6	8 0	-3	14 40	11		
BOKARO	43.70	298.9	8 3	-1	14 26	-5		9 6 PP
VIZIANAGRAM	44.43	290.2	8 29	19	15 38	56		
RIVERVIEW	45.28	151.5	8 15K	-2	14 59	5	8 26	10 48 PPP
ULAN-BATOR	45.63	341.0	8 20	1	14 56	-3		
MELBOURNE	46.24	160.4	8 21K	-3	15 2	-6		10 25
MADRAS	46.87	282.5	8 31	2	15 11	-6		10 15 PP
COLOMBO	47.00	274.2	8 28	-2	15 13	-6		
NOUMEA	47.39	127.1	8 38K	5	15 32	8		9 10
HYDERABAD	49.02	288.2	8 42K	-4	15 48	1		10 22 PP
KODAIKANAL	49.38	278.7	8 50K	1	15 47	-5		10 50 PP
IRKUTSK	50.24	341.9	8 55A	0				16 10 PS
DEHRA DUN	52.27	304.3	9 10	-1	16 26	-6		11 12 PP
POONA	53.50	288.9	9 15	-5	16 39	-10		11 10 PP
PETROPAVLOVK	53.98	22.9	9 21	-2				17 8 PS
BOMBAY	54.51	289.2	9 27	0	16 55	-7		11 33 PP
LAHORE	55.69	304.6	9 33	-3				19 13 SCS
SUVA	55.79	116.2	10 45	69	17 34	14		
MAGADAN	56.83	14.1	9 42	-2				17 46 PS
WARSAK DAM	58.62	306.6	9 56	0	17 54	-3		
FRUNSE	59.34	317.3	10 0A	-1				18 13 PS
SEMIPALATNSK	59.39	327.1	10 0	-2	18 2	-5		12 22 PP
KARACHI	60.74	296.4	10 7	-4	18 21	-3		12 9 PP
QUETTA	61.54	301.3	10 14K	-2	18 32	-2		12 28 PP
STALINABAD	62.04	310.9	10 20	0	18 39	-2		
KARAPIRO	62.36	138.1	10 29	7				
KAIMATA	62.47	144.4	10 35	12				
TASHKENT	62.48	314.0	10 22	-1	18 50	4		23 11 SS
TONGARIRO	63.06	139.3	10 29	2				
RAOUL ISLAND	63.06	126.6	10 54	27				
ROXBURGH	63.26	148.1	10 38	10	18 57	1		23 27 SS
APIA	63.58	108.3	10 49	19	19 11	11		15 5
WELLINGTON	63.74	141.6	10 31	0	18 54	-8		22 41 SS
TUAI	63.90	138.2	10 35	3				
GEBBIES PASS	63.91	144.8	10 36	4				
MACQUARIE I.	65.46	160.2	10 49	7				
TIKSI	66.01	0.6	10 43	-3	19 23	-7		11 14 PCP
ASHKABAD	69.91	308.3	11 10A	0				13 52 PP
WILKES	72.60	187.0	11 25	-1	20 43	-4		25 33 SS
SVERDLOVSK	72.64	328.1	11 16	-10	20 43	-5		11 47 PCP
TERRE ADELIE	72.92	174.1	11 21	-7				
HONOLULU	73.81	69.5	11 32A	-1	21 0	-1		25 55 SS
OASIS-BUNG.	74.08	190.8	11 41	6	21 9	5		
HAWAII V.OB.	76.48	71.4	11 48	-1	21 26	-5		
TIFLIS	80.62	311.2	12 12	1	22 10	-5		15 10 PP
TANANARIVE	82.00	250.1	12 14A	-4	22 31	2		15 11 PP
CAPE HALLETT	82.50	167.8	12 16	-5	22 27	-7	12 37	22 50 *SS
COLLEGE	82.89	25.4	12 20A	-3	22 46	8		38 44 PKPPKP
SCOTT BASE	86.07	172.2	12 35A	-4	23 18	9	12 49	15 51 PP
APATITY	86.33	337.4	12 37A	-3	23 5	-7	13 3	15 57 PP

KSARA	88.00	303.6	12 50A	2	23 39	11	16 22 PP
SIMFEROPOL	88.26	314.8	12 47A	-2	23 8	-22	23 28 SCS
PULKOVO	88.68	329.8	12 49	-2			23 21 SKKS
JERUSALEM	88.74	301.6	12 49	-3	23 44	9	
SODANKYLA	88.95	337.6	12 49	-4	23 34	-2	16 28 PP
SITKA	89.48	32.8	12 53K	-2	23 40	-1	23 17 SKS
KIRUNA	91.13	338.7	13 0A	-3	23 54	-2	16 43 PP
HELSINKI	91.24	330.7	13 0	-4	23 54	-3	23 32 SKS
HELWAN	92.29	300.1	13 7	-1	23 39	-27	
IASI	92.44	317.7	13 9	0	24 32	24	17 9 PP
ISTANBUL KA.	92.45	311.5	13 6	-3	24 13	5	
FOCSANI	92.97	316.3	13 12	0	24 49	37	23 51 SKS
BACAU	93.01	317.2	13 11	-1	24 57	44	23 49 SKS
BUCHAREST	93.99	315.2	13 14A	-2	23 56	-25	17 18 PP
LWOW	94.19	320.8	13 16	-1			23 53 SKKS
CAMPULUNG	94.56	316.2	13 19	0	24 38	12	24 49
UPPSALA	94.87	331.5	13 16	-4	24 29	0	17 8 PP
WARSAW	95.41	323.6	13 28	5	24 34	1	17 17 PP
SOUTH POLE	95.52	180.0	13 18K	-5	23 56	-38	38 29 PKPPKP
SKALSTUGAN	95.81	335.9	13 22	-2			17 18 PP
RESOLUTE	95.96	10.3	13 23A	-2	24 25	-13	17 23 PP
SOFIA	96.33	313.9	13 25	-2	24 7	-34	25 15 PS
KRAKOW	96.68	321.7	13 31	3			17 29 PP
TIMISOARA	97.04	317.3	13 36	6	24 2	-45	23 54 SKS
ATHENS	97.11	309.2	13 28K	-2	24 9	-39	
ALBERNI	97.43	38.9	13 31K	-1	24 6	-44	26 26 PPS
SZEGED	97.64	318.0	13 31	-2	24 40	-12	24 7 SKS
KECSKEMET	97.73	318.7	13 40	7	24 44	-9	17 16 PP
RACIBORZ	97.74	322.1	13 34	1	24 56	3	17 35 PP
BELGRADE	97.81	316.5	13 35A	2	24 14	-40	17 34 PP
SKOPJE	97.89	313.6	13 39	5	24 15	-39	17 11 PP
BUDAPEST	97.98	319.4	13 33	-1	24 47	-8	17 14 PP
KALOCSA	98.32	318.5	13 38	2	24 37	-21	17 27 PP
HORSESHOE B.	98.35	38.5	13 35K	-1	24 42	-16	17 43 PP
HURBANOVO	98.42	319.9	13 38	2	24 45	-14	17 25 PP
VICTORIA	98.54	39.3	13 35A	-2	24 43	-17	17 45 PP
PIETERMZBURG	98.57	241.0	13 42	5			
COPENHAGEN	98.99	328.6	13 35A	-4	24 53	-10	17 53 PP
BRATISLAVA	99.03	320.4	13 37	-2	24 59	-5	17 36 PP
BYRD STATION	99.41	170.7	13 38	-3	24 51	-16	17 33 PP
VIENNA-H.	99.47	320.7	13 40A	-1	25 23	16	17 50 PP
SEATTLE	99.53	39.9	13 42	1	24 52	-16	17 29 PP
CORVALLIS	99.84	43.1	13 47	4			17 28
POTSDAM	99.96	325.4	13 41	-2	25 13	1	17 49 PP
PRAGUE	100.03	322.9	13 40	-4	25 17	5	18 1 PP
BERGEN	100.21	334.6	13 47	3	24 25	-49	17 43 PP
COLLMBERG	100.42	324.4	13 50	5			18 0 PP
PRETORIA	100.45	244.9	13 15	-30			
ZAGREB	100.52	318.4	13 44A	-2	24 16	-60	25 8 PS
HALLE	100.94	324.8	13 48	0	25 25	5	18 13 PP
HAMBURG	101.18	327.3	13 48	-1	24 43	-39	18 9 PP
PLAUEN	101.22	323.8	13 46	-3	25 32	10	18 1 PP
CHEB	101.25	323.4	13 58	9	25 32	10	18 7 PP
TARANTO	101.32	313.0	13 43	-6	23 57	-86	15 8
JENA	101.38	324.4	13 47	-3	25 2	-22	18 6 PP
UKIAH	101.52	48.4	14 0	10	24 26	-59	17 27 PKP
SHASTA	101.66	46.7	13 50	-1			17 20 PP
GRAHAMSTOWN	101.86	237.3	14 4	12			
BANFF	102.29	34.9	13 55	1			
MINERAL	102.35	46.8	13 53K	-1			30 1 PKKP
BERKELEY	102.61	49.4	13 53	-2	25 7	-27	18 18 PP
SANTA CLARA	103.00	49.8	13 56A	-1	25 9	-28	17 50
REGGIO CALA.	103.22	311.1	13 56	-2	24 37	-62	18 26 PP
LICK	103.24	49.8	13 55A	-3			29 50 PKKP
MESSINA	103.26	311.2	13 59	1	25 13	-26	17 52 PP
WITTEVEEN	103.30	327.5	14 7	9			18 17 PP
KIMBERLEY	103.48	241.9	13 21	-38			
STUTTGART	103.68	323.0	13 59	-1	25 34	-9	18 18 PP
RAVENSBURG	103.84	322.0	14 5	4	25 36	-8	20 34 PPP
TUBINGEN	103.86	322.8	14 7	6			
BENSBERG	103.89	325.6	14 0	-1	25 53	9	
RENO	103.91	47.1	13 59	-2			17 39
KARLSRUHE	104.05	323.5	14 4A	3	26 1	15	18 26 PP
BOLOGNA	104.07	318.4	14 8K	6	24 43	-63	18 17 PP
EBINGEN	104.07	322.5	14 1	-1			18 25 PP
ROME	104.25	315.6	14 8K	6			18 44 PP
CHUR	104.29	321.1	14 5	3			17 17
HUNGRY HORSE	104.39	37.1	14 3K	0	24 41	-68	17 56 PKP

FLORENCE X.	104.39	317.7	14 11	8	25 30	-19		18 42 PP
DE BILT	104.44	327.3	14 12	9	26 5	16		18 29 PP
STRASBOURG	104.62	323.3	14 7	3	26 3	13		18 33 PP
ZURICH	104.65	321.9	14 18	14				24 45
FRESNO	104.82	49.8	14 2	-3				17 27
BASLE	105.20	322.4	13 52	777				18 24 PKP
PAVIA	105.20	319.7	14 18	777				18 38 PP
ABERDEEN	105.21	334.1	14 16	777				18 32 PP
KING RANCH	105.32	51.2	14 9	777				29 57 PKKP
OROPA	105.79	320.4	14 15	777				18 43 PP
NEUCHATEL	105.82	322.1	14 20	777	26 1	76		18 49
WOODY	105.88	50.6	14 9	777				18 47 PP
ISABELLA	106.19	50.6	14 8	777				18 49 PP
BESANCON	106.29	322.6	14 16A	777	25 13	27		17 51
BUTTE	106.31	38.8	14 11K	777	25 3	17		27 59 PS
DURHAM	106.41	331.9	14 48K	777	25 2	15		18 47 PP
EDINBURGH	106.45	333.4	14 3	777	26 0	73		18 26 PP
VIK	106.62	344.8						26 22 PS
SASKATOON	106.67	31.3			24 47	-2		18 36 PP
EUREKA	106.71	46.1	14 12	777				17 28 PKP
REYKJAVIK	106.74	346.4	14 34	777				18 43 PP
CHINA LAKE	106.81	50.2	14 14	777				29 50 PKKP
PASADENA	106.92	52.0	14 14	777	24 56	6		18 48 PP
MONACO	106.94	318.8	14 18	777				18 49 PP
BOZEMAN	107.42	38.6	14 17	777				17 51 PKP
PARIS	107.58	325.2	14 19	777	26 29	87		18 49 PP
RIVERSIDE	107.59	51.9	14 15	777				19 0 PP
CUGLIERI	107.64	315.1	15 12	777				34 27
KEW	107.68	328.6	18 29	777	25 4	12		18 57 PP
HERMANUS	107.89	235.7	14 34K	777	24 53	-1		18 53 PP
PALOMAR	108.22	52.4	14 23	777				18 41 PP
CLERMONT-FD.	108.73	322.2	14 26	777	26 38	100		18 58 PP
BOULDER CITY	108.85	49.2	14 26K	777				18 9 PKP
SALT LAKE C.	109.08	43.5	14 23	777	25 33	33		18 21 PKP
RATHFARNHAM	109.50	332.5	18 27	777				19 7 PP
BARCELONA	111.48	318.6	19 13	42				30 10
TORTOSA	112.85	318.6	18 42	8				29 10
ALGIERS UNI.	1'3.00	313.7	14 42	-232	26 54	98		19 19 PP
RAPID CITY	1'3.03	37.1	18 16	-18	25 16	0		19 24 PP
TUCSON	113.34	51.5	13 52	-283				18 27 PP
ALICANTE	1'4.73	316.7	18 32	-5	25 24	2		19 42 PP
RELIZANE	1'5.26	313.8	14 50	-228				19 46 PP
TOLEDO	116.30	319.8	18 24	-16				19 35 PP
TAMANRASSET	116.40	298.7	14 57	-224	25 45	17		19 33 PP
ALMERIA	1'6.85	316.2	18 45	3	25 34	4		19 49 PP
GRANADA	117.45	317.0	18 29A	-14	26 14	42		19 44 PP
CHIHUAHUA	118.56	53.3	18 44	-1				29 50 PS
COIMBRA	118.86	322.3						20 3 PP
LUBBOCK	119.49	46.4	18 47	0	26 17	38		29 2
LISBON	120.20	321.3	18 30K	-18	25 29	-13		20 10 PP
CHICAGO CGS.	123.23	30.6						20 40 PP
FAYETTEVILLE	123.30	39.8			26 26	34		18 54 PP
DALLAS	123.48	44.4						19 55 PP
MANZANILLO	123.73	62.8						46 17
FLORISSANT	123.85	35.0	18 55A	0				20 46 PP
GUADALAJARA	124.02	60.6						59 23
ST. LOUIS 1	124.03	35.0	18 54A	-1				20 44 PP
LOME	124.79	281.3			26 11	15		21 7 PP
TERRE HAUTE	125.00	32.4	19 17	20	28 47	170		
SHAWINIGAN	125.19	16.7	18 56A	-2				
SEVEN FALLS	125.20	14.9	18 51	-7	28 25	147		22 12 PKS
OTTAWA	125.31	19.6	18 57A	-1	25 57	-1		20 45 PP
BREBEUF	125.89	17.9	18 58	-1				
CLEVELAND	126.35	26.6	18 54A	-6				20 55 PP
CINCINNATI	126.76	30.6	19 18	17				22 56
PITTSBURGH	127.90	26.1	19 1	-2				22 23 PPP
TACUBAYA	128.09	60.2	19 3K	0				27 47 SKKS
PENNSYLVANIA	128.48	24.2	19 4	0				21 15 PP
MORGANTOWN	128.56	26.7	19 3K	-1				
HALIFAX	129.13	9.9	19 6	1				21 16 PP
PALISADES	129.80	20.7	19 5	-2	26 9	-2	19 13	16 1 P
FORDHAM	129.96	20.8	19 5	-2				21 20 PP
C.C.N.Y.	129.96	20.9	19 3	-4				
PHILADELPHIA	130.27	22.5			26 18	6		21 23 PP
GEORGETOWN	130.41	24.9	18 53	-15	26 0	-12		21 7 PP
WASHINGTON	130.41	24.9	19 9A	1				23 4 PKS
VERA CRUZ	130.80	58.9			26 13	0		23 10
CHAPEL HILL	131.98	28.8	19 9	-2				

COLUMBIA	132.49	32.1	19 9	-3			21 41 PP
MERIDA	135.33	52.7	19 45	28			39 43 SS
COMITAN	135.51	60.2	19 27	10			18 31
MBOUR	139.27	299.5	19 22	-2	26 25	-4	22 26 PP
BERMUDA	140.64	15.9	19 25	-2			22 27 PP
BALBOA HTS.	149.73	61.7	19 41A	-1			
LA PLATA	150.42	171.5	19 47	4			42 59 SS
GALERAZAMBA	152.41	54.0	19 47	1			20 4 PKP2
SAN JUAN	152.86	28.5	19 45K	-2			29 53 SKKS
CHINCHINA	154.98	65.7	19 49	0			20 25 PKP2
TALA POZO	155.35	155.2	19 52	2			23 52 PKS
BOGOTA	156.53	64.9	19 55	4			20 20 PKP2
ST. CLAUDE	156.84	22.1	19 54	2			20 32 PKP2
HUANCAYO	156.88	107.7	19 55	3			24 12 PP
FORT FRANCE	158.24	22.1	19 53	-1			24 5 PP
ST. VINCENT	159.61	24.1	19 56	1			24 17 PP
BARBADOS	160.28	19.8	20 11	15			
LA PAZ	161.50	127.2	19 58A	1			24 48 PP
TRINIDAD	161.72	28.2	20 2	5			20 40 PKP2

SEPTEMBER 25 5.H 50.M 56.S EPICENTRE 33.67 -38.44 DEPTH= 0.KM

A= 0.65317 B=-0.51846 C= 0.55188 D=-0.6217 E=-0.7832
G= 0.4323 H=-0.3431 K=-0.8339 HT= 0.6

SE= 3.15

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
ANGRA DO HO.	10.33	58.1	2 32	0	4 39	9		
BERMUDA	22.02	273.9			8 54	-2		
HALIFAX	22.28	306.8	4 58K	-2	9 2	1		
LISBON	24.11	69.5	5 21A	3	9 42	8		5 47 PP
COIMBRA	24.78	66.1	5 25	1	9 46	1		
MBOUR	27.35	129.5	5 50	2	10 16	-11		6 11 PP
SEVEN FALLS	27.86	308.5	5 42	-11	10 19	-17		
FORT FRANCE	27.90	233.0			10 28	-8		
TOLEDO	28.12	67.3	5 16	-39	10 1	-39		5 49 PP
GRANADA	28.51	72.9	5 55K	-4	10 45	-1		6 39 PP
PALISADES	28.99	295.0	5 55	-8	10 49	-5		6 33 PP
SHAWINIGAN	28.99	306.6	5 59	-4				7 6 PP
SAN JUAN	29.04	245.3	6 2	-2				
ALMERIA	29.43	73.5			11 3	2		
PHILADELPHIA	29.92	292.8			11 12	3		
RATHFARNHAM	30.10	39.6	6 14	1	11 18	6		
OTTAWA	30.78	303.5	6 18	-1	11 28	6		7 32 PP
ALICANTE	30.91	70.3	6 18	-2	11 23	-1		7 20 PP
TORTOSA	31.61	65.5	6 27	1	11 37	2		
RELIZANE	31.98	75.1	6 29	-1				
KEW	32.76	45.5	6 35	-2	11 53	0		
DURHAM	33.24	39.4	6 37	-4	12 9	8		7 49 PP
MORGANTOWN	33.60	292.4	6 43	-1				
CLERMONT-FD.	33.81	56.6	6 45	-1	12 10	0		
PARIS	33.84	51.1	6 46A	0	12 8	-2		7 58 PP
ALGIERS UNI.	33.85	72.8	6 45	-1	11 55	-15		7 53 PP
ABERDEEN	34.03	35.2						14 26
CLEVELAND	34.74	295.7	6 56	2	12 28	4		
COLUMBIA	35.19	282.7	7 0	2	12 25	-6		
BESANCON	35.93	54.4	7 6A	2				8 14 PP
DE BILT	36.22	46.1			12 55	8		15 40 SS
NEUCHATEL	36.56	54.9	7 8	-1				
MONACO	36.77	60.4	7 11	0				
BASLE	37.04	54.1	7 10	-3				
BENSBERG	37.21	48.4	7 14	-1				
STRASBOURG	37.26	52.3	7 20	5	13 4	1		8 42 PP
WITTEVEEN	37.27	45.2	7 20	5				
KARLSRUHE	37.73	51.7	7 22A	3	13 19	9		
PAVIA	38.02	58.0	7 41	20				13 26
EBINGEN	38.02	53.1	7 20	-1				
STUTTGART	38.23	52.2	7 22	-1	13 21	3		
BERGEN	38.91	33.1						16 14
HAMBURG	39.37	44.7	7 31	-2				
FLORENCE X.	39.53	60.2	7 32	-2	13 45	8		16 35 SS
TAMANRASSET	39.96	94.1			13 46	2		9 16 PP
JENA	39.97	49.0	7 38	0	13 50	6		9 13 PP
HALLE	40.26	48.2	7 41	1				8 39
PLAUEN	40.29	49.7	7 37	-3				

CHEB	40.40	50.4			13 49	-1	
ROME	40.57	63.0	7 39	-4	13 55	2	16 59 SS
GALERAZAMBA	40.67	244.6			14 6	12	
COLLMBERG	40.90	48.6	7 44	-1			
POTSDAM	41.05	46.9	7 51	5	14 2	2	17 15 SS
COPENHAGEN	41.17	41.9	7 52	5	14 4	2	
TRIESTE	41.24	57.2	7 47K	-1	14 3	0	17 10 SS
ST. LOUIS 1	41.66	292.2	7 50A	-1	14 6	-3	
PRAGUE	41.72	50.5	7 48	-4	14 12	2	17 23 SS
FLORISSANT	41.74	292.5			14 7	-3	
MESSINA	43.44	68.0	8 5	-1	14 41	6	9 50 PP
BOGOTA	43.96	236.8			14 44	1	17 40 SS
SKALSTUGAN	43.13	30.4	8 5	1			
RACIBORZ	44.15	50.6	8 9	-3			
TARANTO	44.32	64.4	7 54	-19	14 54	6	
UPPSALA	44.65	36.6	8 22	6	14 47	-6	18 8 SS
CHINCHINA	44.81	238.7	8 16	-1	14 57	2	
FAYETTEVILLE	45.27	289.5	8 21A	0			
KRAKOW	45.27	50.6	8 27	6	14 59	-3	9 57 PCP
WARSAW	45.91	47.5	8 36	10	15 13	2	10 17 PP
BELGRADE	46.03	57.9	8 32	5	15 20	8	
SKOPJE	47.14	61.6	9 9	33			12 1
KIRUNA	47.61	26.1	8 37	-2	15 27	-8	
SOFIA	48.42	60.3	8 45	-1			
RESOLUTE	49.12	343.0	8 47A	-4	15 58	2	19 15 SS
RAPID CITY	50.29	302.1	9 7	7			
PULKOVO	51.03	37.3	9 9	3			
KISHINEV	51.47	53.8	9 11	2	16 21	-8	
LUBBOCK	52.02	288.7	9 16	3			
APATITY	52.47	27.4	9 16	-1	16 44	2	11 31 PP
ISTANBUL KA.	52.96	61.1	9 18	-2	16 45	-4	
BOZEMAN	55.37	305.6	9 35	-3			
SIMFEROPOL	55.53	55.3	9 42	3	17 25	1	
BUTTE	56.31	306.3	9 42	-3	17 36	2	
HUNGRY HORSE	56.66	309.3	9 44	-3			
BANFF	56.91	312.9	9 49	0			
SALT LAKE C.	57.33	300.1	9 49	-3			
LA PAZ	57.37	214.3	9 51K	-1	17 50	2	12 18 PP
HUANCAYO	57.45	224.2	9 51	-2	17 46	-3	11 20
HELWAN	58.40	73.1	10 0	1	18 4	2	
TUCSON	59.54	290.5	10 11	4			
SOTCHI	59.77	55.4	10 8	-1	18 21	2	
KSARA	60.44	67.1	10 18	5			
JERUSALEM	60.72	69.5	10 14	-1			14 23
EUREKA	60.73	300.0	10 16	0			
BOULDER CITY	61.19	295.9	10 18	-1			10 39
SEATTLE	62.16	310.5			19 22	32	
CHINA LAKE	63.32	296.7	10 36	3			10 52
RENO	63.47	301.3	10 43	9			
PALOMAR	63.76	293.9	10 39	3			
RIVERSIDE	63.89	294.8	10 40	3			
CORVALLIS	63.93	307.6	10 44	7			
TIFLIS	63.94	55.9	10 32	-5			
ISABELLA	64.03	296.9	10 38	0			10 49
WOODY	64.30	297.0	10 33	-6			
MINERAL	64.42	302.7	10 36A	-4			
PASADENA	64.43	295.2	10 45	5	19 19	1	23 55 SS
FRESNO	64.56	298.5	10 51	10			
SHASTA	64.83	303.3	10 39	-4			
LICK	65.67	299.7	10 47A	-1			
BERKELEY	65.89	300.5	10 51	1	19 46	10	
UKIAH	66.05	302.1	10 55	4			
COLLEGE	67.61	334.2	10 57	-3	20 13	16	24 11 SS
TIKSI	74.61	4.1	11 41	-2	21 21	3	
NAMANGAN	81.75	45.9	12 19	-3	22 34	0	
FRUNSE	82.27	43.1	12 25	1	22 39	-1	
QUETTA	85.16	56.9	12 39	0	23 8	-1	22 59 SKS
HERMANUS	86.67	135.6					23 31 SCS
IRKUTSK	88.43	21.8					13 13
CAPE HALLETT	138.51	192.8	18 43K	-45			22 19 PKS
RABAUL	149.05	339.1					24 40

SEPTEMBER 25 16.H 36.M 43.S EPICENTRE 5.78 127.20 DEPTH= 60.KM

DEPTH OF FOCUS= 0.004R

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A=-0.60152 B= 0.79258 C= 0.09998 D= 0.7966 E= 0.6045
G=-0.0604 H= 0.0796 K=-0.9950 HT= 7.0

SE= 2.53

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KOROR	7.40	77.6	1 39	-9	3 0	-12		
MANILA	10.67	325.5	2 35	2	7 18	166		
BAGUIO CITY	12.41	329.0	3 2	6				
MADANG	18.53	90.8	4 49	35				
GUAM	18.91	64.9	4 18	-1	8 5	21		8 19 PCP
HONG KONG	20.70	323.8	4 39	1	8 31	10		
CANTON	21.82	323.4	4 48A	-1				
DJAKARTA	23.54	240.0	5 2	-4	9 13	1		
TRUK	24.55	84.7	5 18	2				
PHU-LIEN	24.92	308.7	5 21	2	9 44	8		
RABAUL	26.84	111.1	5 34	-3				
NAGASAKI	26.93	5.0	5 38	0	10 27	18		
KYOTO	30.15	14.0	6 3A	-4	10 55	-5		
KUNMING	30.32	311.8	6 9A	1	11 10	7		7 9 PP
CHARTERS TS.	31.75	144.3	6 20A	-1	11 27	2		
MATUSIRO	32.25	16.8	6 23A	-2	11 43	10		7 34 PP
CHENGTU	32.98	321.4	6 31	-1				
SENDAI	34.66	19.1	6 47	1				
PEKING	35.52	345.4	6 51	-2				
LANCHOW	37.01	327.7	7 6A	0				
TOCKLAI	37.27	307.7	7 12	4				
CHANGCHUN	37.94	357.8	7 14	0				
SHILLONG	39.09	304.1	7 22A	-1	13 32	14		9 11
BRISBANE	41.43	144.2	7 41A	-2	13 48	-5		
CHATRA	43.47	303.4	7 58	-1				
BOKARO	43.64	298.7	8 3	2	14 31	5		
ULAN-BATOR	45.44	340.9	8 10	-5	14 59	8		
RIVERVIEW	45.45	151.7	8 15	0	14 54	2		18 14 SS
MELBOURNE	46.43	160.5	8 25	2	15 11	5		9 9
MADRAS	46.88	282.3	8 26A	-1	15 26	14		10 20 PP
COLOMBO	47.04	274.0	8 0	-28				15 30
HYDERABAD	49.00	288.0	8 42A	-1	15 57	15		10 49 PP
IRKUTSK	50.04	341.8	8 50	-1	16 1	5		
DEHRA DUN	52.19	304.1	9 7	0	16 35	9		12 11
POONA	53.48	288.7	9 15	-2				
PETROPAVLOVK	53.75	22.9	9 17	-2	16 47	0		
BOMBAY	54.49	289.0	9 24	0	17 11	14		11 29 PP
LAHORE	55.61	304.4	9 30A	-2	17 14	2		11 12
MAGADAN	56.60	14.1	9 38	-2	17 28	3		
WARSAK DAM	58.53	306.5	9 53	0				
FRUNSE	59.21	317.2	9 55	-3				
KARACHI	60.69	296.3	10 6A	-2				
QUETTA	61.47	301.2	10 11A	-2	18 30	2		12 25 PP
STALINABAD	61.93	310.8	10 17	1	18 38	4		
TIKSI	65.78	0.6	10 38	-3	19 21	-1		
SVERDLOVSK	72.48	328.1	11 21	-2	20 43	2		
WILKES	72.83	187.0	11 24	-1	20 49	4		25 33 SS
TERRE ADELIE	73.14	174.2	11 2	-24	20 43	-5		
OASIS-BUNG.	74.30	190.8	11 34	1				
MAKHACH-KALA	78.55	312.5	11 57	0	21 51	4		
GORIS	79.31	309.0	12 2	1				
TIFLIS	80.51	311.2	12 7	-1	22 12	4		
TANANARIVE	82.12	250.1	12 16A	0				
COLLEGE	82.67	25.4	12 19	0	22 28	-2		27 51 SS
CAPE HALLETT	82.70	167.8	12 19K	0	22 24	-6	12 28	22 32 SKS
SOTCHI	84.23	313.1	12 26	-1	22 49	3		
APATITY	86.15	337.4	12 35	-1	23 5	1	13 6	22 52 SKS
SCOTT BASE	86.28	172.2	12 42	5	23 8	2		
KSARA	87.92	303.6	12 46A	1	23 30	9	13 10	16 14 PP
SIMFEROPOL	88.14	314.8	12 45	-1	23 9	-14		
JERUSALEM	88.67	301.6	12 47	-1				
KIRUNA	90.94	338.7	12 59	0	23 29	-20		16 39 PP
HELSINKI	91.07	330.7	13 2	2				
KISHINEV	91.50	317.4	13 0	-2	23 54	0		
HELWAN	92.22	300.2	13 6	1	24 5	5		
IASI	92.31	317.7			23 32	-29		
ISTANBUL KA.	92.34	311.5	13 3	-3	23 37	-24		
BUCHAREST	93.87	315.2	13 39	27	23 44	-30		24 24 PS
UPPSALA	94.70	331.5	13 16	0	23 44	-37		
WARSAW	95.26	323.6	13 20	1	23 52	-34		17 19 PP
SKALSTUGAN	95.63	335.9	13 26	6				17 11 PP
RESOLUTE	95.73	10.3			23 51	-39		31 25 SS

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SOUTH POLE	95.74	180.0	13 21	0				
COPENHAGEN	98.83	328.6	13 39	4	24 37	-19		17 43 PP
BRATISLAVA	98.89	320.5	13 47	12				17 41 PP
BYRD STATION	99.62	170.6	13 27	-12				17 29 PP
PRAGUE	99.88	322.9						14 56
COLLMBERG	100.27	324.4	13 41	-1				18 2
HALLE	100.79	324.9	13 47	3				
TARANTO	101.20	313.0						21 19
JENA	101.23	324.4	13 48	2				18 5 PP
SHASTA	101.47	46.6	14 0	13				
LICK	103.06	49.7						14 21
MESSINA	103.16	311.2			25 37	4		18 14 PP
STUTTGART	103.53	323.1	14 5	9				18 5 PP
ROME	104.13	315.6			24 31	-70		18 19 PP
HUNGRY HORSE	104.18	37.1	14 12	13	24 49	-52		18 30 PP
FLORENCE X.	104.26	317.8	14 13	14				18 36 PP
STRASBOURG	104.47	323.3	13 59	-1	25 57	13		28 53 PPS
PAVIA	105.07	319.7						18 24
WOODY	105.70	50.6	14 21	777				18 28 PP
ISABELLA	106.01	50.5						18 41 PP
DURHAM	106.24	331.9						33 30 SS
EUREKA	106.52	46.1	18 30	777				
PASADENA	106.74	51.9	14 10	777				18 46 PP
PARIS	107.43	325.3	14 20	777				25 17 SKKS
CLERMONT-FD.	108.59	322.3						29 26 PPS
RAPID CITY	112.82	37.0	18 45	15				19 55 PP
ALGIERS UNI.	112.88	313.8			27 16	127		19 21 PP
RELIZANE	115.15	313.9						19 41
TAMANRASSET	116.34	298.8	18 42	5	25 32	10		19 40 PP
GRANADA	117.33	317.1	18 11A	-28				29 11 PS
LUBBOCK	119.30	46.3	19 0	17				
FAYETTEVILLE	123.09	39.7						18 55 PP
SHAWINIGAN	124.97	16.7	19 0	6				
SEVEN FALLS	124.97	14.9	18 51	-3				
OTTAWA	125.08	19.6	19 1	7				
MORGANTOWN	128.33	26.7						22 31 PP
PALISADES	129.58	20.7	19 15	12				22 30 PKS
MBOUR	139.20	299.7						22 17 PP
HUANCAYO	156.90	107.2	20 5	16				20 43 PKP2
LA PAZ	161.59	126.6	20 10	16				

SEPTEMBER 26 12.H 3.M 5.S EPICENTRE -40.20 173.83 DEPTH= 128.KM

DEPTH OF FOCUS= 0.015R

A=-0.76150 B= 0.08227 C=-0.64293 D= 0.1074 E= 0.9942
G= 0.6392 H=-0.0691 K=-0.7659 HT= -1.8

SE= 1.30

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
COBB RIVER	1.22	223.4	0 25	0	0 43	-2		
WELLINGTON	1.29	146.9	0 27	1	0 45	-1		
TONGARIRO	1.65	53.2	0 30	0				
TUAI	2.92	62.5	0 45	-1	1 19	-2		
KAIMATA	2.94	217.3	0 47	1	1 19	-3		
GEBBIES PASS	3.61	193.8	0 53	-2	1 33	-5		
ONERAHI	4.44	5.6	1 5	-1	1 55	-3		
ROXBURGH	6.29	210.3			2 31	-11		
RAOUL ISLAND	12.85	34.3			5 2	-17		
NOUMEA	18.91	338.5	4 15	2				
RIVERVIEW	19.17	282.2	4 16K	1				5 4 SP
BRISBANE	21.38	300.0	4 39K	1	8 32	10		
SUVA	22.33	11.6	4 50	3				
MELBOURNE	22.51	266.7	4 50K	1				5 20
CHARTERS TS.	31.00	302.3	6 6K	-1				8 57
TERRE ADELIE	32.19	203.5	6 17	0				
CAPE HALLETT	32.23	182.0	5 3	-75				
SCOTT BASE	37.88	182.4	7 6K	0				
RABAUL	40.82	325.7	7 30	0				9 28 PP
BYRD STATION	46.68	167.3	8 18	1			8 53	10 22 PP
SOUTH POLE	49.99	180.0	8 43	0	15 45	3	9 14	9 23 *SP
TRUK	51.59	331.7	8 54	-1				10 7 PCP
KOROR	59.60	313.2	9 50	-2				10 34 PCP
GUAM	59.84	326.8	9 52	-2			10 26	10 37 *SP
MATUSIRO	83.10	331.8	12 11K	-1	22 16	-3		

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SHILLONG	100.33	294.6	14 20A	47				
EUREKA	101.91	48.1						17 13 PP
QUETTA	120.94	285.0	18 36	-1	25 25	3	19 16	19 59 PP
PALISADES	129.78	65.7	21 59	185				
SVERDLOVSK	134.67	314.7						21 29
TIFLIS	141.94	289.4	19 10	-6				
JERUSALEM	145.73	269.0	19 22	-1				
SOTCHI	146.01	291.1	19 22	-1				
KSARA	146.07	272.8	19 26K	2			20 16	
SODANKYLA	147.35	337.1	19 25	-1				
HELWAN	147.82	263.1	19 29K	3				
KIRUNA	148.73	340.9	19 29	1				
MBOUR	152.59	156.8	19 54	21				
ISTANBUL KA.	153.35	283.4	19 53	19				
UPPSALA	155.34	330.8	20 1	24				
TAMANRASSET	160.01	213.2	19 42	-1			20 24	24 21 PP
STUTTGART	166.10	313.1	20 50	61				
EBINGEN	166.54	311.3	20 52	63				
ALGIERS UNI.	172.00	247.6	19 49	-4				25 4 PP

SEPTEMBER 26 18.H 46.M 45.S EPICENTRE 5.92 126.94 DEPTH= 18.KM

A=-0.59788 B= 0.79502 C= 0.10239 D= 0.7992 E= 0.6010
G=-0.0615 H= 0.0818 K=-0.9947 HT= 7.0

SE= 2.41

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
MAMBAJAO	3.57	338.2	2 2	66	2 48	70		
KOROR	7.62	79.0	1 51	-2	3 12	-7		
MANILA	10.42	326.2	2 28	-3	5 14	45		
MADANG	18.78	91.1	4 59	39				
GUAM	19.08	65.5	4 25	1	7 51	-1		
HONG KONG	20.44	324.1	4 41A	2				
CANTON	21.56	323.7	4 52	2				5 13 *SP
DJAKARTA	23.40	239.4	5 5	-3	9 19	3		
PHU-LIEN	24.64	308.8	5 23	3	9 38	1		
TRUK	24.78	85.0	5 23	1			5 34	6 8 PP
ZO-SE	25.63	348.5	5 29A	-1				
NAGASAKI	26.82	5.5	6 7	26				12 30
NANKING	27.09	344.7	5 46	3				
RABAUL	27.12	111.2	5 44	1				8 3
KUNMING	30.04	311.9	6 12A	2	11 6	1		7 11 PP
KYOTO	30.08	14.5	6 10A	0	10 30	-36		
CHARTERS TS.	32.01	144.1	6 28A	1	11 9	-27		
MATUSIRO	32.19	17.2	6 27	-2	11 30	-9		7 40 PP
TUKUBASAN	32.49	20.0	6 29	-2				9 0
CHENGTU	32.71	321.6	6 33A	0				7 44 PP
TAIYUAN	34.31	339.6	6 52	5				
SENDAI	34.61	19.5	6 50	0				7 24
PEKING	35.32	345.6	6 55A	-1				
LANCHOW	36.76	327.9	7 10A	2	12 50	0		8 40 PP
TOCKLAI	36.99	307.7	7 15K	5				
SHILLONG	38.81	304.1	7 26A	1	13 16	-5		17 28
CALCUTTA	40.73	297.9	7 44	3	13 39	-11		14 6
LHASA	41.25	309.3	7 48A	3	13 56	-1		8 11 *SP
BRISBANE	41.69	144.0	7 49K	0	13 55	-9		
CHATRA	43.19	303.4	8 1	0				17 56
ULAN-BATOR	45.22	341.0	8 17	0	15 0	5		
RIVERVIEW	45.69	151.5	8 41K	20				18 22 SCS
MADRAS	46.60	282.2	8 30	2	15 14	-1		11 4 PPP
MELBOURNE	46.65	160.3	8 30	1				8 40
COLOMBO	46.78	273.9	8 26	-4	15 8	-9		
NOUMEA	47.77	127.3	8 57	20				
IRKUTSK	49.83	342.0	8 52	-1	16 7	7		
DEHRA DUN	51.91	304.1	9 11	2	16 25	-4		16 54
POONA	53.19	288.6	9 18	-1				10 27
PETROPAVLOVK	53.72	23.1	9 20	-3	16 42	-12		
BOMBAY	54.21	289.0	9 25	-1	16 59	-1		17 30
LAHORE	55.32	304.4	9 33A	-1	17 12	-3		19 16 SCS
WARSAK DAM	58.24	306.5	9 57	2	17 50	-4		
FRUNSE	58.94	317.2	10 8	8				
NAMANGAN	60.27	314.2	10 10	1	18 20	0		
KARACHI	60.40	296.3	10 8	-2				
QUETTA	61.19	301.1	10 15A	0	18 28	-4		10 58 PCP

STALINABAD	61.65	310.8	10 18	-1	18 37	-1		
TIKSI	65.65	0.7	10 42	-3	19 35	8		
SVERDLOVSK	72.23	328.1	11 25	0	20 41	-4		
WILKES	72.93	186.9			21 2	9		
TERRE ADELIE	73.30	174.1	11 28	-4	20 46	-11		
KIPAPA	73.95	69.5	11 37	2				12 7
OASIS-BUNG.	74.39	190.7	11 38	0				
MAKHACH-KALA	78.27	312.5	12 0	0	21 50	-2		
TIFLIS	80.23	311.2	12 11	0	22 12	-1		
TANANARIVE	81.93	250.0	12 18	-1				
COLLEGE	82.65	25.4	12 23	0				
CAPE HALLETT	82.89	167.8	12 25A	1				
APATITY	85.92	337.4	12 41	1	23 12	2		23 43 SCS
SCOTT BASE	86.46	172.2	12 42	0	23 42	27		
KSARA	87.63	303.6	12 52	4	23 29	3	13 18	24 28 PS
SIMFEROPOL	87.86	314.8	12 49	0	23 24	-4		
JERUSALEM	88.39	301.6	12 52K	1				
SODANKYLA	88.54	337.6	12 49	-3	23 35	0		
KIRUNA	90.72	338.7	13 1	-1	23 53	-2		23 28 SKS
HELSINKI	90.83	330.7	13 4	1				
KISHINEV	91.23	317.4	13 4	-1	24 6	7		
HELWAN	91.94	300.1	13 8	0				13 27
IASI	92.04	317.7			24 11	5		
ISTANBUL KA.	92.06	311.5	13 7	-2	24 10	3		
BUCHAREST	93.59	315.2			23 49	-31		
UPPSALA	94.46	331.5	13 20	0	24 16	-11		13 41
SKALSTUGAN	95.40	335.9	13 24	0				
RESOLUTE	95.64	10.3			24 19	-18		31 4 SS
SOUTH POLE	95.88	180.0	13 26	0				
KRAKOW	96.28	321.7	13 27	-1				17 16 PP
COPENHAGEN	98.58	328.6			24 45	-17		24 17 SKS
BYRD STATION	99.79	170.7						17 44 PP
JENA	100.98	324.4	13 51	2				14 30
TRIESTE	101.64	318.8						18 5 PP
MESSINA	102.88	311.2	13 46	-12	25 30	-8		24 32 SKS
ROME	103.85	315.6			24 23	-15		17 20
HUNGRY HORSE	104.22	37.0	14 6	2				17 56 PKP
WOODY	105.81	50.5	14 15	777				30 3 PKKP
ISABELLA	106.12	50.4						18 30
EUREKA	106.60	46.0	14 12	777				17 50 PKP
CHINA LAKE	106.73	50.0						17 50
PASADENA	106.85	51.8						18 43 PP
DALTON	107.13	51.7						29 57 PKKP
PARIS	107.17	325.2						28 13 PS
RIVERSIDE	107.53	51.7						18 3
RAPID CITY	112.86	36.9	18 38	3				
TUCSON	113.27	51.3						19 30 PP
TAMANRASSET	116.06	298.8	18 45	4				19 41 PP
FAYETTEVILLE	123.15	39.5	18 55	0				
SEVEN FALLS	124.90	14.7	18 49	-10				
SHAWINIGAN	124.90	16.5	19 0K	1				
OTTAWA	125.0[illegible]	19.4	19 0K	1				
MORGANTOWN	128.32	26.4	19 8	3				
SAN JUAN	152.63	27.8	19 55	7				
HUANCAYO	157.18	107.0	19 59	5				20 32 PKP2
LA PAZ	161.87	126.7	20 21	22				24 27 PP

SEPTEMBER 27 4.H 8.M 24.S EPICENTRE -1.18 127.13 DEPTH= 0.KM

A=-0.60354 B= 0.79707 C=-0.02045 D= 0.7972 E= 0.6037
G= 0.0123 H=-0.0163 K=-0.9998 HT= 7.2

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
MAMBAJAO	10.47	351.6	1 48	-47	3 42	-52		
KOROR	11.19	40.8	2 42	-3	4 58	6		
MANILA	16.80	339.0	3 56	-3	6 42	-23		
BAGUIO CITY	18.65	340.0	4 18	-3	7 51	4		
DJAKARTA	20.85	255.7	4 44K	-2	9 2	27		
GUAM	22.74	49.6	5 4	-1	8 51	-19		8 5 PCP
HENGCHUN	23.87	345.2	5 25	9				
TAWU	24.16	345.8	5 20K	1	9 38	3		
TAITUNG	24.49	346.6	5 24	2				
HSINKONG	24.78	347.3	5 27	2	9 44	-1		

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TAINAN	24.96	344.8	4 30	-57	9 52	3	
RABAUL	25.19	97.3	5 30	1	10 3	11	12 45 SCP
HWALIEN	25.57	348.2	5 33	1	9 57	-2	
TRUK	26.11	70.4	5 36	-2			
ILAN	26.32	348.9	5 42	3	9 8	-63	
CHARTERS TS.	26.46	136.3	5 41A	0	10 31	17	
HONG KONG	26.54	332.3	5 42	0	10 15	0	
TAIPEI	26.62	348.6	5 48	6	10 55	39	
CANTON	27.63	331.6	5 52A	1	10 31	-2	
ZO-SE	32.60	350.5	6 34	-2	11 47	-4	
NAGASAKI	33.83	4.2	6 46	0	11 56	-14	
FUTZELING	33.90	343.2	6 49	2			
-NANKING	33.98	347.3	6 48A	0	12 12	-1	
KUNMING	35.23	319.4	7 0A	2	12 34	2	8 27 PP
BRISBANE	36.06	138.8	7 7K	2	12 45	0	
PORT BLAIR	36.50	291.4	7 5	-4	12 46	-6	
KYOTO	36.90	11.8	7 10K	-2	12 45	-13	
CHENGTU	38.56	327.1	7 26A	0	13 19	-4	
MATUSIRO	38.93	14.3	7 28K	-2	13 19	-10	9 29 PPP
TUKUBASAN	39.12	16.7	7 28	-3	13 28	-4	
SIAN	39.17	335.8	7 27	-5			
RIVERVIEW	39.51	147.8	7 36A	2	13 42	5	9 14 PP
MELBOURNE	40.00	157.8	7 40A	2	13 46	1	9 16
TIENSHUI	40.83	332.6	7 48	3			
TAIYUAN	41.04	342.4	7 48	1			
TOCKLAI	41.76	314.0	7 57K	4			
PEKING	42.22	347.4	7 55A	-2	14 12	-6	
LANCHOW	42.96	331.9	8 4A	1	14 27	-2	9 45 PCP
TATUNG	42.99	344.4	8 5	2			
SHILLONG	43.24	310.4	8 7A	2	14 39	6	9 51
NOUMEA	43.61	121.7	8 13	5	14 41	3	9 53 PP
YINCHUAN	43.89	336.2	8 13	3			
SINING	44.38	330.5	8 16	2			
PAOTOW	44.39	341.3	8 16	2			
CALCUTTA	44.55	304.3	8 14	-2	14 48	-4	
WUWEI	45.01	332.4	8 21	2			
LHASA	46.11	314.6	8 30A	2	15 14	0	
BOKARO	47.21	304.5	8 35A	-2	15 25	-5	
CHATRA	47.50	308.9	8 39	0	15 30	-4	
COLOMBO	47.84	280.3	8 42	0	15 35	-4	
MADRAS	48.65	288.4			15 44	-6	19 12
Y.-SAKHLINSK	49.84	13.9	8 57	0			
KODAIKANAL	50.70	284.2	9 16K	12	16 13	-6	11 13 PP
HYDERABAD	51.39	293.4	9 10A	1	16 26	-2	11 9 PP
ULAN-BATOR	51.98	342.8	9 13	0	16 34	-2	
SUVA	53.08	111.8	9 16	-6			
POONA	55.90	293.3	9 40	-2	17 23	-6	11 46 PP
DEHRA DUN	56.22	308.2	9 48	3	17 31	-2	13 4 PPP
AUCKLAND	56.48	134.7			17 26	-11	
IRKUTSK	56.62	343.4	9 46	-1	17 38	-1	
BOMBAY	56.93	293.4	9 49	-1	17 41	-2	12 11 PP
KAIMATA	57.12	142.1	10 17	26			
COBB RIVER	57.16	140.0	10 11	20			
ROXBURGH	57.65	146.0			17 58	6	24 8 SSS
TONGARIRO	58.08	136.8	10 0	2			
GEBBIES PASS	58.52	142.6	10 1	0			
WELLINGTON	58.59	139.3	10 2	1	18 6	1	
LAHORE	59.64	308.0	10 7	-2	18 13	-5	11 43
PETROPAVLOVK	60.18	21.3	10 8	-4	18 19	-6	
WARSAK DAM	62.74	309.6	10 29	0	19 9	11	
KARACHI	63.87	299.5	10 31	-6			
FRUNSE	64.34	319.7	10 39	-1	19 13	-5	
QUETTA	65.15	304.1	10 44	-1	19 26	-2	13 6 PP
NAMANGAN	65.43	316.7	10 47	0	19 26	-5	
WILKES	65.96	187.3	11 4	14	19 37	-1	
TERRE ADELIE	66.27	173.9	10 49	-3	19 42	1	
STALINABAD	66.51	313.3	10 53	-1	19 39	-5	
OASIS-BUNG.	67.51	191.3	10 59	-1	19 58	2	
TIKSI	72.69	0.6	11 29	-3	20 48	-9	
CAPE HALLETT	75.96	167.5	10 54	-57	21 42	8	19 59 PKS
SVERDLOVSK	78.34	329.0	12 2	-2			
SCOTT BASE	79.45	172.1	12 8	-2	22 15	4	
TANANARIVE	79.76	251.1	12 12A	0			
MAKHACH-KALA	83.21	313.4	12 28	-2			
TIFLIS	85.05	311.9	12 39	0	22 58	-10	
SOUTH POLE	88.83	180.0	12 56	-2			
SOTCHI	88.93	313.4					16 23 PP
COLLEGE	88.95	25.2	12 58	0			
KSARA	91.69	303.6	13 13	2	24 11	1	23 44 SKS

JERUSALEM	92.24	301.6	13 14	1			
BYRD STATION	92.81	170.8	13 16	0			16 39 PP
SIMFEROPOL	92.96	314.8	13 16	-1	23 47	-34	
PULKOVO	94.45	329.7					17 18 PP
HELWAN	95.62	299.7	13 29	0			17 15
KISHINEV	96.53	317.0	13 37	4			23 56
ISTANBUL KA.	96.86	311.1	13 36	2	24 49	-5	
KIRUNA	97.35	338.5	13 33	-4	24 8	-50	17 37 PP
IASI	97.37	317.3	17 42	245			18 43
PRETORIA	97.56	244.0					17 32 PP
BUCHAREST	98.71	314.6	17 53	250	24 19	-51	20 2 PCP
UPPSALA	100.73	331.0					17 44
WARSAW	100.77	323.0			24 25	-62	27 39 PPS
KRAKOW	101.90	321.0			24 34	-63	17 1'
SKALSTUGAN	101.90	335.5					17 53 PP
TIMISOARA	101.92	316.5	17 29	212			24 38
RESOLUTE	102.54	10.5			24 42	-60	
HERMANUS	104.04	234.2			24 59	-55	27 54 PS
BRATISLAVA	104.15	319.6					18 27 PP
COPENHAGEN	104.67	327.9			24 54	-66	18 24 PP
PRAGUE	105.32	321.9	18 41	777			18 56 PP
POTSDAM	105.43	324.5	18 39	777			
COLLMBERG	105.82	323.5	18 42	777			17 26
HALLE	106.37	323.9	18 45	777	25 4	7	
CHEB	106.58	322.4	18 32	777			21 14 PP
PLAUEN	106.58	322.8	18 45	777			
HAMBURG	106.77	326.3					18 36
JENA	106.78	323.4	18 26	777			19 2 PP
TRIESTE	107.03	317.7			24 57	-2	18 52 PP
MESSINA	107.60	309.8	14 8	777	26 2	60	18 28 PP
SCORESBY SD.	107.91	349.5					26 28
ROME	108.96	314.2			24 58	-10	18 54 PP
STUTTGART	108.98	321.8					19 6 PP
FLORENCE X.	109.28	316.3	14 52	777	25 1	-8	19 3 PP
EBINGEN	109.33	321.3					18 6
KARLSRUHE	109.38	322.3					19 14 PP
KING RANCH	109.44	52.9					18 51
HUNGRY HORSE	109.69	38.4	15 3	777			18 24 PKP
STRASBOURG	109.93	322.0			25 4	-17	19 13 PP
DE BILT	110.03	326.1					19 6 PP
WOODY	110.06	52.3	18 36	2			19 10 PP
PAVIA	110.24	318.3					19 18 PP
ISABELLA	110.38	52.3	18 33	-1			19 11 PP
BASLE	110.44	321.0	19 27K	53	24 48	-26	
PASADENA	110.97	53.8	18 41	6	25 31	14	19 14 PP
CHINA LAKE	1'1.02	51.9	18 38	2			19 15 PP
NEUCHATEL	111.04	320.7	19 16	40			
EUREKA	111.28	47.8	18 34	-2			14 56 P
BESANCON	111.55	321.2					19 23 PP
RIVERSIDE	111.64	53.8	18 40	3			14 51 P
PALOMAR	112.22	54.4					19 26 PP
BOZEMAN	112.59	40.2	18 44	5			19 26
PARIS	113.02	323.8					19 32 PP
BOULDER CITY	113.15	51.1	18 46	6			19 33
KEW	113.34	327.3			25 19	-7	26 29
SALT LAKE C.	113.87	45.4	18 46	5			19 37 PP
CLERMONT-FD.	113.96	320.6					19 39 PP
TUCSON	117.40	54.0	18 51	3			24 56
ALGIERS UNI.	117.52	311.4	18 52K	4	25 38	-4	20 0 PP
RAPID CITY	118.30	39.1	18 54	4			20 10 PP
BOULDER	118.76	44.0	18 51	0			
TAMANRASSET	119.44	295.5	18 54	2	25 53	5	20 17 PP
ALICANTE	119.50	314.3	18 51	-1	25 48	-1	20 17 PP
RELIZANE	119.77	311.2	18 55	2			20 25 PP
TOLEDO	121.31	317.3	18 53	-3			20 20 PP
ALMERIA	121.56	313.5	18 50	-6	25 37	-18	20 30 PP
GRANADA	122.23	314.3	18 56A	-1			20 26 PP
LUBBOCK	123.99	49.4	19 4	3			
FAYETTEVILLE	128.33	43.0					19 10 PP
TACUBAYA	131.17	65.1					22 8
SHAWINIGAN	131.58	18.3	19 19K	4			22 41 PKS
OTTAWA	131.58	21.5	19 19A	4			
SEVEN FALLS	131.64	16.4	19 15	0			22 28 PKS
BREBEUF	132.23	19.7	19 20	3			
VERA CRUZ	134.01	64.2					20 0
OAXACA	134.04	67.4					21 20
MORGANTOWN	134.46	29.5	19 25A	4			22 57 PP
PALISADES	136.02	23.0	19 29	5			29 21 SKKKS

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CHAPEL HILL	137.75	32.2						19 9 PP
COLUMBIA	138.04	35.9	19 22	-5				22 12 PP
COMITAN	138.52	66.6						19 52
MERIDA	139.11	58.7						22 45
SAN SALVADOR	141.93	69.1						21 4
MBOUR	142.18	292.1						22 51 PP
BERMUDA	147.03	18.6						19 55
BALBOA HTS.	152.33	72.9	19 56	5				
HUANCAYO	154.11	121.1	19 57	3				23 57 PP
LA PAZ	156.86	140.0	20 4	7				24 18 PP
CHINCHINA	156.97	80.1	20 6	9				24 20 PP
SAN JUAN	158.52	36.5	20 11	12				24 7 PP
BOGOTA	158.55	80.4	20 32	33				23 54 PP

SEPTEMBER 27 4.H 58.M 51.S EPICENTRE 64.26 178.23 DEPTH= 0.KM

A=-0.43644 B= 0.01347 C= 0.89963 D= 0.0308 E= 0.9995
G=-0.8992 H= 0.0278 K=-0.4366 HT=-10.2

SE= 2.15

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
KLYUCHI	11.73	235.4	2 59	8				
MAGADAN	13.69	262.5	3 18	0				6 2
COLLEGE	14.50	72.3	3 29	1	6 12	1		
PETROPAVLOVK	15.02	231.2	3 36	1				6 37
TIKSI	19.37	313.5	4 37	7	8 9	6		5 0 PP
SITKA	23.39	86.1	5 11	0				5 32
UGLEGORSK	24.55	249.0						5 35
Y.-SAKHLINSK	25.99	245.2	5 37	1				9 29
RESOLUTE	29.12	33.1	6 5A	0				12 59 SSS
ALBERNI	33.30	89.1	6 42K	1				
LILLOOET	33.51	84.8	6 43A	0				
HORSESHOE B.	33.89	87.6	6 46A	-1				
VICTORIA	34.48	88.8	6 52A	0				
SEATTLE	35.63	88.8	7 3	2				
BANFF	35.93	79.1	7 9A	5				
MATUSIRO	36.61	240.2	7 7	-3	12 33	-20		9 31 PCP
CORVALLIS	37.58	92.9	7 19A	1				
HUNGRY HORSE	38.69	81.0	7 28	1	13 27	2		
ULAN-BATOR	40.56	281.5	7 45	2	13 53	0		
SHASTA	41.11	95.7	7 47A	0				
BUTTE	41.12	82.1	7 48	1				8 19
MINERAL	41.74	95.2	7 52A	0				
BOZEMAN	42.05	81.2	7 56	1				
RENO	43.18	94.2	8 4A	0				
BERKELEY	43.51	97.9	8 6A	-1				
LICK	44.22	97.7	8 12A	-1				
SCORESBY SD.	44.80	9.5	8 17	0				
EUREKA	44.91	90.7	8 17	-1				
FRESNO	45.50	96.4	8 23	0				
SALT LAKE C.	45.65	86.0	8 25	1				
APATITY	46.09	342.1	8 28	1				8 32 *SP
RAPID CITY	46.68	76.1	8 33	1				
KING RANCH	46.74	97.4	8 33A	0				
WOODY	46.80	96.3	8 32A	-1				10 27
ISABELLA	47.01	95.9	8 34A	-1				
SODANKYLA	47.09	345.4	8 35	0				10 5 PCP
KIRUNA	47.24	348.7	8 37A	0				
CHINA LAKE	47.25	95.0	8 36A	-1				
LARAMIE	47.92	80.3	8 41	-1				
BOULDER CITY	48.32	92.3	8 35	-10				
PASADENA	48.42	96.7	8 45A	-1				
RIVERSIDE	48.90	96.1	8 48A	-1				
SEMIPALATNSK	49.27	303.2						8 41
PALOMAR	49.67	96.1	8 54A	-1				
SVERDLOVSK	50.19	320.6	9 0	1				
SKALSTUGAN	52.04	352.1	9 13	0				9 22
TUCSON	53.23	91.2	9 22	0				
HELSINKI	54.26	343.9	9 30	0				
UPPSALA	55.34	348.2	9 37	-1				
LUBBOCK	56.01	82.5	9 42	-1				
OTTAWA	56.40	54.4	9 43A	-2				
SHAWINIGAN	56.43	51.6	9 45	-1				
SEVEN FALLS	56.59	49.8	9 36	-11				

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BREBEUF	57.05	52.8	9 48	-2			
FAYETTEVILLE	57.14	74.4	9 49A	-2			
TRUK	59.73	210.7	10 5	-4			
MORGANTOWN	59.84	61.0	10 8K	-2			
ANDIJAN	60.38	302.8	10 13	0			
NAMANGAN	60.43	303.4	10 11	-3			
PALISADES	60.87	55.5	10 14	-3			
HAMBURG	62.15	352.1	10 28	3			
WITTEVEEN	63.07	354.3	10 32	1			
STALINABAD	63.62	304.4	10 36	1			
HALLE	64.08	350.5	10 39	1			20 27
COLLMBERG	64.20	349.8	10 38	-1			
COLUMBIA	64.33	64.9	10 38	-2			
LWOW	64.48	341.8	10 39	-2			
KEW	64.60	359.0	10 41	0			
JENA	64.68	350.7	10 43	1			
KRAKOW	64.77	344.7	10 42	0			11 43
PLAUEN	65.06	350.2	10 41	-3			10 56
PRAGUE	65.31	348.6	10 46	0			
SHILLONG	65.72	278.6	10 46	-3			
CHATRA	66.63	283.3	10 53	-1			
BAIRAM-ALI	66.80	309.1	10 58	3			
BRATISLAVA	66.94	346.4	10 57	1			
PARIS	67.22	356.9	10 59	1			
STRASBOURG	67.25	353.1	10 59	1			
KIZYL-ARVAT	67.41	314.3					11 58
ASHKABAD	67.73	312.2					11 16
TIFLIS	68.18	324.2	11 5	1			
BESANCON	68.67	354.3	10 57	-10			
NEUCHATEL	68.87	353.6	11 8	0			
RABAUL	70.99	207.6	11 18	-3			
QUETTA	71.78	301.8	11 26A	0	20 49	3	14 7 PP
ALGIERS UNI.	79.23	356.1	12 8	0			
HELWAN	82.64	331.4	11 27	-59			15 38
SAN JUAN	84.12	59.4	12 34	0			
NOUMEA	86.76	190.9	12 55	8			
CHARTERS TS.	87.57	209.9	11 34A	-77			
TAMANRASSET	93.06	353.3	13 17	0			
LA PAZ	114.95	75.8	19 23	40			19 51 PP
TANANARIVE	124.01	300.0	19 1	1			20 50 PP
CAPE HALLETT	136.40	183.5	19 22	-2			
SCOTT BASE	142.05	183.9	19 27	-7			
BYRD STATION	148.25	162.9	19 41	-4			
SOUTH POLE	154.11	180.0	19 50	-3			

SEPTEMBER 27 5.H 56.M 52.S EPICENTRE -1.04 127.22 DEPTH= 0.KM

A=-0.60479 B= 0.79618 C=-0.01801 D= 0.7963 E= 0.6049
G= 0.0109 H=-0.0143 K=-0.9998 HT= 7.2

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
KOROR	11.02	40.9	2 40	-2				5 9
MANILA	16.70	338.5	3 56	-1	7 34	31		
BAGUIO CITY	18.54	339.6	5 19	59	7 48	3		
DJAKARTA	20.98	255.4	4 45K	-2	8 48	11		
GUAM	22.58	49.7	4 59	-4				
TAITUNG	24.37	346.3	5 33	12				
HSINKONG	24.66	347.0	5 25	1	9 40	-3		
RABAUL	25.12	97.6	5 26	-2				6 12 PP
HWALIEN	25.45	348.0	5 29	-2				
TRUK	25.98	70.6	5 34	-2				
HONG KONG	26.46	332.0	5 36	-4				
CHARTERS TS.	26.50	136.6	5 39A	-2	10 27	13		
CANTON	27.55	331.3	5 52K	2	10 30	-1		
PHU-LIEN	29.62	318.3	11 5	296	15 32	268		
ZO-SE	32.47	350.3	6 32	-2	11 42	-7		
NAGASAKI	33.68	4.0	6 49	4				
NANKING	33.86	347.1	6 48K	2	12 11	0		
KUNMING	35.18	319.2	6 58	0	12 34	3		
BRISBANE	36.10	139.0	7 3K	-3	12 41	-4		
CHENGTU	38.49	326.9	7 24	-2	13 20	-2		
MATUSIRO	38.77	14.2	7 24	-4	13 15	-11		9 41
SIAN	39.08	335.6	7 31	0				

RIVERVIEW	39.58	148.0	7 35A	0	13 41	3		
MELBOURNE	40.09	158.0	7 38	-1	13 46	0		
TIENSHUI	40.75	332.4	7 47	3				
TOCKLAI	41.72	313.9	7 58	6				
PEKING	42.10	347.3	7 56	1	14 11	-5		
LANCHOW	42.88	331.8	8 2	0	14 28	1		
SHILLONG	43.21	310.3	8 3A	-1	14 31	-1		
NOUMEA	43.61	121.9	8 8	0				9 11
LHASA	46.08	314.5	8 29A	2	15 15	2		
BOKARO	47.21	304.3	8 37	1	15 29	0		
CHATRA	47.48	308.7	8 37	-2	15 29	-4		
MADRAS	48.69	288.3	8 49A	1	15 52	2		10 45 PP
ULAN-BATOR	51.88	342.7	9 9	-3	16 33	-2		
POONA	55.92	293.2	9 32	-10	17 23	-6		13 15 PPP
DEHRA DUN	56.21	308.1	9 48	4	17 31	-2		
IRKUTSK	56.51	343.3	9 46	0				
BOMBAY	56.96	293.3	9 49	-1	17 41	-2		12 3 PP
ROXBURGH	57.72	146.1			17 58	5		
LAHORE	59.63	307.9	10 6	-2	18 17	-1		11 11
KARACHI	63.88	299.4	10 34A	-3				
FRUNSE	64.29	319.6	10 41	2	19 16	-1		
QUETTA	65.14	304.0	10 43	-2	19 24	-3		20 34 SCS
NAMANGAN	65.39	316.6	10 45	-2				
TERRE ADELIE	66.40	173.9	10 57	4	19 28	-15		
STALINABAD	66.48	313.2	10 52	-2				
TIKSI	72.55	0.5	11 29	-2	17 28	-207		
CAPE HALLETT	76.08	167.6	11 51A	0	21 24	-11		17 4 PPP
SVERDLOVSK	78.27	329.0	12 3	0	21 53	-5		
SCOTT BASE	79.57	172.1	12 8	-2				
TANANARIVE	79.89	251.1	12 13K	1				
MAKHACH-KALA	83.18	313.3			22 46	-3		
TIFLIS	85.02	311.8	12 38	-1				
COLLEGE	88.78	25.2	13 0	3				
SOTCHI	88.89	313.4						16 32 PP
SOUTH POLE	88.97	180.0	12 54	-4	23 18	-9		16 15 PP
KSARA	91.69	303.6	13 19	8	24 21	11		16 57 PP
SIMFEROPOL	92.93	314.8			23 46	-34		17 7 PP
BYRD STATION	92.93	170.8	13 23	7				
HELWAN	95.63	299.7						17 23
KIRUNA	97.26	338.5	13 33	-3				
COLLMBERG	105.76	323.5						18 38
MESSINA	107.58	309.8						20 28
STUTTGART	108.92	321.9	12 56	777				19 2
HUNGRY HORSE	109.52	38.4	18 39	777				19 1
STRASBOURG	109.87	322.1						38 44 SSS
WOODY	109.90	52.3	19 6	777				
ISABELLA	110.22	52.3	19 9	35				
PASADENA	110.82	53.8	19 38	63				
CHINA LAKE	110.87	51.9	19 14	39				
EUREKA	111.13	47.8	19 2	27				14 57 P
RIVERSIDE	111.49	53.8	19 18	42				
PALOMAR	112.06	54.3	19 22	45				
BOZEMAN	112.43	40.2	19 24	46				
PARIS	112.96	323.8						23 42
BOULDER CITY	112.99	51.1	19 29	50				
TUCSON	117.25	54.0	18 51	4				19 57
RAPID CITY	118.14	39.0	19 4	15				
TAMANRASSET	119.46	295.6	18 55	3				20 12 PP
HUANCAYO	154.10	120.8	19 58	5				20 23 PKP2
LA PAZ	156.91	139.6	20 1K	4				

SEPTEMBER 28 O.H 27.M 33.S EPICENTRE 30.93 137.85 DEPTH= 468.KM

DEPTH OF FOCUS= 0.069R

A=-0.63705 B= 0.57671 C= 0.51144 D= 0.6711 E= 0.7413
G=-0.3792 H= 0.3432 K=-0.8593 HT= 1.5

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
TORISIMA	2.16	101.4	1 2	-1	1 50	-4		
HATIDYOZIMA	2.74	37.4	1 9	2	2 1	1		
SIOMISAKI	3.07	325.5	1 10A	1	2 5	1		
OWASE	3.43	336.5	1 12	0	2 10	1		
OMAESAKI	3.67	4.8	1 15K	1	2 14	1		

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MUROTO	3.88	307.6	1 16	0	2 19	3	
TU	3.95	343.9	1 19	3	2 20	3	
WAKAYAMA	3.99	326.2	1 16	-1	2 15	-2	
OSIMA	4.04	18.2	1 10K	-7	2 8	-10	
SHIZUOKA	4.06	6.4	1 15K	-2	2 16	-2	
KAMEYAMA	4.08	343.9	1 19	2	2 20	1	2 48
TOKUSIMA	4.17	319.5	1 18A	0	2 20	0	
OSAKA	4.19	332.9	1 21	3	2 23	2	
SUMOTO	4.23	324.5	1 19A	0	2 22	1	13 58 SCS
AJIRO	4.24	14.0	1 18	-1	2 19	-2	
MISIMA	4.28	12.2	1 18K	-1	2 19	-3	
NAGOYA	4.29	350.4	1 22	3	2 24	2	13 59 SCS
MERA	4.31	22.2	1 17K	-3	2 17	-6	
KOBE	4.36	329.7	1 19	-1	2 34	11	
KYOTO	4.45	337.0	1 20K	-1	2 24	-1	
KOTI	4.49	306.7	1 21A	0	2 23	-3	13 59 SCS
HIKONE	4.53	343.2	1 23	1	2 28	2	13 58 SCS
SIMIDU	4.54	295.2	1 22A	0	2 25	-1	
GIHU	4.55	348.8	1 22K	0	2 26	0	13 58 SCS
IIDA	4.58	359.8	1 22	0	2 28	1	
HIMEJI	4.59	321.7	1 29	7	2 29	2	
HUNATU	4.62	9.4	1 18	-4	2 25	-3	13 57 SCS
TAKAMATU	4.66	317.5	1 24	1	2 29	1	
KOHU	4.73	7.2	1 22K	-1	2 27	-2	13 57 SCS
YOKOHAMA	4.74	18.1	1 22K	-1	2 25	-4	1 41
TSURUGA	4.94	342.9	1 28	3	2 35	2	
MAIZURU	4.95	336.9	1 28	3	2 35	2	
OKAYAMA	4.99	319.6	1 28	2	2 36	2	3 30
TOKYO C.M.O.	5.00	18.1	1 24K	-2	2 29	-5	1 34
HONGO	5.03	18.1	1 27	1	2 30	-4	
UWAZIMA	5.05	298.4	1 29	3	2 35	0	13 59 SCS
TITIBU	5.14	11.2	1 27	0	2 34	-2	13 59 SCS
MATUYAMA	5.19	305.2	1 29	1	2 34	-3	13 58 SCS
TAKAYAMA	5.23	354.7	1 26	-2	2 38	0	
TOYOOKA	5.24	331.9	1 31	3	2 39	1	13 58 SCS
HUKUI	5.27	346.0	1 29	0	2 38	-1	13 56 SCS
MATUMOTO	5.31	1.1	1 29	0	2 37	-2	14 0 SCS
KUMAGAYA	5.36	13.4	1 28	-1	2 33	-7	
OIWAKE	5.42	6.0	1 28	-2	2 42	1	
MAEBASI	5.55	10.3	1 29	-2	2 38	-6	
MIYAZAKI	5.58	281.8	1 33K	1	2 46	2	14 1 SCS
TUKUBASAN	5.60	19.0	1 34K	2			
MATUSIRO	5.61	3.1	1 31K	-1	2 40	-5	13 58 SCS
KAKIOKA	5.63	19.6	1 29	-3	2 40	-5	
KANAZAWA	5.67	350.2	1 38	6	2 47	1	
HIROSIMA	5.71	308.3	1 33K	0	2 48	2	13 59 SCS
NAGANO	5.73	2.8	1 32K	-1	2 44	-3	
OOITA	5.76	295.1	1 35	2	2 45	-2	
TOYAMA	5.78	354.8	1 38	4	2 48	0	
UTUNOMIYA	5.85	16.2	1 32K	-2	2 43	-6	
MITO	5.86	21.2	1 31	-3	2 43	-6	
ASOSAN	6.09	290.6	1 39	2	2 57	4	
TAKADA	6.16	3.0	1 38	1	2 51	-4	
HAMADA	6.27	310.7	1 40K	2	3 0	4	13 59 SCS
KAGOSIMA	6.28	277.7	1 39K	0	2 56	-1	14 1 SCS
YAKUSIMA	6.35	267.6	1 39K	0	2 59	1	
KUMAMOTO	6.36	289.1	1 40K	1	3 0	2	
SAIGO	6.47	325.6			3 2	2	
SHIRAKAWA	6.48	17.1	1 38	-3	2 55	-5	
WAZIMA	6.48	353.3	1 40	-1	2 59	-1	
ONAHAMA	6.52	22.1	1 38K	-3	2 54	-7	1 55
SAGA	6.81	291.8	1 45K	1	3 9	2	14 1 SCS
HUKUOKA	6.82	294.7	1 45K	1	3 10	3	7 35
NAGASAKI	7.01	286.9	1 46	0	3 9	-1	
NIIGATA	7.04	7.8	1 47	1	3 9	-2	
HUKUSIMA	7.14	17.0	1 46K	-2	3 7	-6	
YAMAGATA	7.59	15.1	1 51	-1	3 19	-3	
SENDAI	7.74	18.1	1 52K	-2	3 9	-15	
TOMIE	7.91	284.7	1 56K	0	3 27	-1	13 52 SCS
ISINOMAKI	8.01	20.0	1 55	-2	3 24	-6	
SAKATA	8.12	11.0	1 58	0	3 29	-3	
MIZUSAWA	8.61	17.3	1 59	-4	3 37	-4	
AKITA	8.96	11.2	2 10	3	3 47	-1	14 1 SCS
MORIOKA	9.16	16.3	2 9K	0	3 47	-5	
MIYAKO	9.33	20.0	2 10	-1	3 51	-5	
HATINOHE	10.03	16.3	2 18	-1	4 6	-3	
AOMORI	10.15	12.7	2 21	1	4 11	-1	14 5 SCS
HAKODATE	11.07	11.3	2 29	-1	4 30	0	

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

MORI	11.36	10.3	2 30	-3	4 36	0		14 7 SCS
MURORAN	1:.65	11.5	2 36	0	4 41	0		
URAKAWA	11.88	18.1	2 39	0	4 48	2		14 11 SCS
TOMAKOMAI	11.95	13.4	2 42	3	4 50	3		
SUTTSU	12.00	8.5	2 39	-1	4 48	0		14 7 SCS
SAPPORO	12.43	12.0	2 43A	-2	4 54	-3		14 9 SCS
OBIHIRO	12.71	18.2	2 51	4	5 8	6		
VLADIVOSTOK	13.06	340.4	2 51	0	5 8	-1		
KUSIRO	13.11	21.7	2 53	1	5 17	7		14 10 SCS
ASAHIGAWA	13.32	14.4	2 55	1	5 17	3		
NEMURO	13.82	24.3	2 59A	0	5 28	4		14 11 SCS
ABASHIRI	14.02	19.5	3 1	0	5 32	5		14 13 SCS
ZO-SE	14.30	275.0	3 1K	-3	5 30	-3		7 42 PCP
WAKKANAI	14.77	10.6	3 10	1	5 49	7		
DAIREN	15.48	305.3	3 17	1				
ILAN	15.50	250.6	3 14	-2				
TAIPEI	15.57	251.8	3 19K	2	5 53	-4		
HWALIEN	15.98	248.2	3 19	-2	6 4	0		
NANKING	16.29	278.9	3 23K	-1	6 1'	1		
KURILSK	16.29	26.0	3 24	0				
Y.-SAKHLINSK	16.43	11.9	3 28	2				
HSINKONG	16.61	246.0	3 26	-2	6 17	1		
TAICHUNG	16.65	250.3	3 32	4				
ALISHAN	16.85	248.2	3 28	-2				
TAITUNG	16.97	245.3	3 31	0				
TAWU	17.38	244.6	3 35	0				
TAINAN	17.57	247.5	3 36	-1	5 37	-56		
HENGCHUN	17.69	243.9	3 43	5				
SUIHWA	17.78	334.8	3 39	0				
FUTZELING	18.45	276.7	3 45	-1				
GUAM	18.50	158.4	3 45	-1	6 51	2		8 8 PCP
PEKING	19.81	303.2	3 58	-1	7 11	-1		14 28 SCS
KWANTING	20.29	303.3	4 2	-1				
BAGUIO CITY	21.37	231.4	4 10	-3	7 33	-5		
TAIYUAN	21.91	295.0	4 20	2				
TATUNG	21.93	301.4	4 19	0				
MANILA	22.46	227.3	4 20	-3	7 50	-6		
HONG KONG	22.81	253.6	4 26K	-1				5 41 PP
CANTON	23.21	256.3	4 30K	0	6 38	-90		
KOROR	23.69	188.3	4 33	-2	8 10	-6	5 51	6 43 *SP
MAMBAJAO	24.40	210.5	4 44	3	8 26	-1		
PAOTOW	24.46	300.8	4 42	0				
SIAN	24.56	285.4	4 38	-4				
TRUK	26.77	147.8	5 1	-1	8 51	-13	6 26	7 33 *SP
PETROPAVLOVK	26.85	28.3	5 2A	-1	9 6	0	6 14	
TIENSHUI	27.18	286.3	5 5	-1				
LANCHOW	28.74	289.5	5 19K	0	9 33	-2	6 39	7 36 *SP
CHENGTU	29.01	278.3	5 20K	-2	9 35	-4		7 34 *SP
ULAN-BATOR	29.05	314.6	5 22	0	9 40	0		
WUWEI	29.74	293.2	5 28	0				
PHU-LIEN	29.76	257.7	5 28	0	9 53	2		
MAGADAN	29.93	13.2	5 30	0	9 54	0		
KLYUCHI	30.04	25.7	5 31A	0	9 57	1		6 50 PP
SINING	30.39	290.6	5 32	-2				
KUNMING	31.51	268.1	5 42K	-1	10 14	-4	7 10	12 54 SS
IRKUTSK	32.47	320.8	5 52	1	10 35	2	7 22	15 25 SCS
YUMEN	34.23	297.3	6 8	2				
RABAUL	37.52	156.1	6 32	-2	11 42	-7		15 52 SCS
TOCKLAI	37.79	274.7	6 39K	3				
LHASA	40.21	280.5	6 56K	0	12 29	0		8 40 PP
SHILLONG	40.63	274.2	6 59K	0	12 29	-6	7 38	13 45 *SS
TIKSI	41.05	355.7	7 0	-2	12 38	-3		8 50 PCP
CHITTAGONG	41.77	269.7	7 8	0	12 52	1		
CHATRA	44.26	277.9	7 27	-1	13 25	-2		
PORT BLAIR	45.84	255.4	7 38	-2	13 49	0		
SEMIPALATNSK	46.55	311.9			13 59	0		
DJAKARTA	47.35	224.2	7 49K	-3	14 8	-2		
FRUNSE	50.88	302.2	8 17K	-1	14 59	1		17 9 SS
DEHRA DUN	50.90	285.6	8 18	0	14 57	-1		15 14 PPS
LAHORE	53.60	288.3	8 36K	-2	15 33	-2		10 42
TASHKENT	55.05	301.2	8 47	-1	15 53	-1		17 42 SCS
WARSAK DAM	55.13	292.0	8 49	0				
HYDERABAD	55.26	270.5	8 48K	-2	15 58	2		10 17 PP
KULYAB	55.47	297.0	9 24K	33	17 12	73		11 24 PP
MADRAS	55.79	264.8	8 52K	-1	16 5	2		10 50 PP
COLLEGE	55.84	29.8	8 53A	-1			10 49	11 9 PP
STALINABAD	56.08	298.0	9 15	20	16 8	1		
KIPAPA	57.66	82.9	9 6A	0				

SVERDLOVSK	57.88	320.7	9 8	1	16 30	0		20 27 SS
POONA	58.73	273.9	9 12	-1	16 42	1		11 14 PP
COLOMBO	59.11	258.8	8 53	-23				16 24
BOMBAY	59.46	274.8	9 18	0	16 52	2	10 52	10 20 PCP
NOUMEA	59.62	149.1	9 19	0	16 54	2	10 52	11 14 PP
BRISBANE	59.86	164.4	9 20A	-1	16 54	-1		
QUETTA	60.04	289.2	9 21K	-1	16 57	-1		11 25
HAWAII V.OB.	60.82	83.8	9 28	1				
KARACHI	61.56	284.5	9 33K	1	17 21	4		
SITKA	62.98	37.8	9 41K	0				
ASHKABAD	64.08	300.2	9 49K	1	17 50	3		
RIVERVIEW	65.62	167.9			18 8	2	11 33	19 11 SCS
APIA	65.72	124.8	9 59	3				
NORD	66.93	356.1			18 23	2		19 16 SCS
APATITY	67.04	336.2	10 6A	-1	18 22	-1		
MELBOURNE	68.73	174.0	10 17K	0	18 45	3		
RESOLUTE	69.22	13.1	10 19A	-1	18 50	2		19 36 SCS
SODANKYLA	69.44	337.3	10 21	0	18 48	-3		
KIRUNA	71.16	339.1	10 31A	0	19 11	1		23 50 SS
ALBERNI	71.66	43.2	10 35A	1				
TIFLIS	72.25	308.3	10 38	0	19 22	0		
LILLOOET	72.69	41.0	10 41A	1				
VICTORIA	72.83	43.5	10 42A	1				
RAOUL ISLAND	73.18	140.4						10 43
SEATTLE	73.90	43.9	10 50	3				
HELSINKI	73.98	331.4	10 48	0	19 39	-2		11 5 PCP
CORVALLIS	74.74	47.0	10 54A	2				
BANFF	75.96	38.5	11 5A	6				
SKALSTUGAN	76.48	338.0	11 1A	-1				14 0
KARAPIRO	77.01	150.3	11 5	0	20 21	7		
UPPSALA	77.10	333.4	11 4A	-1	20 12	-3		
SHASTA	77.21	50.2	11 6A	0	20 20	4		
UKIAH	77.43	51.9	11 8A	1				
SIMFEROPOL	77.57	315.1	11 7A	-1	20 19	-1	12 47	20 38 SCS
SCORESBY SD.	77.84	353.2	11 8	-1	20 28	5		23 36
MINERAL	77.90	50.2	11 10A	1				
TONGARIRO	78.08	151.0	11 10	0				
HUNGRY HORSE	78.31	40.3	11 13	1	20 31	4	12 55	20 43 SCS
TUAI	78.44	149.7	11 16	4	20 29	0		
COBB RIVER	78.57	153.8	11 20	7	20 31	1		
BERKELEY	78.71	52.7	11 15A	1				
LICK	79.40	52.9	11 19A	2				
RENO	79.50	50.2	11 19A	1				
WELLINGTON	79.53	152.6	11 17	-1	20 37	-3		
IASI	80.15	319.5	11 32	11	20 53	6		
BUTTE	80.44	41.7	11 25A	2	20 53	4		40 32 PKPPKP
FRESNO	80.96	52.6	11 26A	1				
ROXBURGH	81.31	158.2			20 57	-1		23 51
BOZEMAN	81.51	41.4	11 30A	2				
KING RANCH	81.76	53.8	11 32A	3				40 45 SKPPKP
TINEMAHA	81.87	51.7	11 28A	-2				14 44 PP
COPENHAGEN	81.98	332.2	11 30	-1	21 3	-2		24 4 SS
EUREKA	82.04	48.6	11 33	2			13 13	40 24 SKPPKP
WOODY	82.17	53.1	11 32A	0	21 7	0	13 4	14 48 PP
KSARA	82.24	304.7	11 35	3	21 8	1	13 13	14 50 PP
KRAKOW	82.44	324.9	11 33	0	21 8	-1		13 20 PCP
ISABELLA	82.46	53.0	11 34A	1				14 48 PP
BUCHAREST	82.61	317.8			21 13	2		
ISTANBUL KA.	82.79	313.8	11 33	-2	21 13	0		
CHINA LAKE	82.96	52.4	11 37A	1	21 13	-2		14 25 PP
RACIBORZ	83.26	325.7	11 37	0	21 15	-3		22 28
PASADENA	83.48	54.1	11 40A	2	21 17	-3	13 18	14 58 PP
JERUSALEM	83.80	303.3	11 39	-1				
SALT LAKE C.	83.90	45.8	11 42A	2	21 23	-1		40 32 SKPPKP
POTSDAM	84.05	329.6			21 26	1		
RIVERSIDE	84.12	53.9	11 41A	0	21 22	-4		14 6 SP
HAMBURG	84.50	331.8	11 44	1	21 31	2		
TIMISOARA	84.52	321.0	11 48	5	21 23	-7		
BUDAPEST	84.54	323.3			21 24	-6		
BOULDER CITY	84.74	51.0	11 46A	2	21 27	-5		15 8 PP
SZEGED	84.78	321.9			21 26	-6		
PALOMAR	84.83	54.2	11 45A	0				14 5 SP
COLLMBERG	84.85	328.8	11 44	-1	21 29	-4	13 33	14 49
PRAGUE	85.06	327.3	11 44	-2	21 32	-3		14 28 *SP
BRATISLAVA	85.07	324.7	11 45	-1	21 36	1	13 33	
HALLE	85.17	329.5	11 45	-1	21 34	-2	13 34	22 48 SP
SOFIA	85.26	317.7			21 39	2		
BELGRADE	85.53	320.7	11 49A	1	21 39	0		14 47 PP
JENA	85.74	329.2	11 47	-2	21 39	-2	13 37	14 53 PP

PLAUEN	85.79	328.7	11 46	-3				
ABERDEEN	85.95	339.4			21 45	2		
RAPID CITY	86.86	39.2	11 57K	2			13 51	15 25 PP
LARAMIE	87.32	42.4	11 53	-4				
DE BILT	87.52	333.0			21 57	-1		24 57 SS
HELWAN	87.64	303.5	11 58	0	21 39	-20		
DURHAM	87.79	337.8	11 40	-19	21 56	-4	13 43	27 54 SS
IVIGTUT	88.07	2.9	11 59	-1				
STUTTGART	88.37	328.9	12 1A	-1	22 1	-5	13 49	15 38 PP
TRIESTE	88.48	324.5	12 0	-2	22 0	-7		21 45 SKS
-KARLSRUHE	88.54	329.4	12 2	0	22 9	2		
TUBINGEN	88.61	328.8	12 3	0				
EBINGEN	88.91	328.6	12 4A	0				
STRASBOURG	89.14	329.5	12 5A	0	22 11	-1	14 3	23 22 SP
TUCSON	89.61	52.1	12 8A	1	21 57	-20	13 52	15 46 PP
BASLE	90.02	328.9	12 8A	-1				22 18
KEW	90.08	335.3	12 8A	-2	22 18	-3		28 33 SS
TARANTO	90.17	319.0						22 26
RATHFARNHAM	90.51	339.4	12 9A	-3				12 31
NEUCHATEL	90.70	328.8	12 11	-1				15 56
BESANCON	90.93	329.5	12 13K	-1			14 2	
PAVIA	91.05	326.5			22 20	-9		23 54 PS
FLORENCE X.	91.06	324.4	12 12K	-2	21 56	-33	14 1	18 9 PPP
PARIS	91.17	332.3	12 14	-1	22 31	1	14 4	16 13 PP
ROME	91.78	322.5					22 4	18 7 PPP
MESSINA	92.68	318.2	12 17	-5	22 36	-7	14 5	16 9 PP
CLERMONT-FD.	93.33	330.1	12 25A	0	22 50	1		29 26 SS
LUBBOCK	94.61	46.3	12 31	1	22 24	-36		25 50
FAYETTEVILLE	97.37	40.1	12 43A	0				16 46
FLORISSANT	97.37	36.0			22 34	-49		16 46 PP
TERRE ADELIE	97.48	178.6			22 31	-53		16 44 PP
ST. LOUIS I	97.56	36.0	12 44A	0	22 34	-51		16 48 PP
SHAWINIGAN	98.06	20.8	12 45A	-1				16 52 PP
SEVEN FALLS	98.12	19.3			22 25	-64		
OTTAWA	98.14	23.2	12 46A	0	23 28	-2		16 47 PP
BREBEUF	98.74	21.8	12 49	0				
WILKES	99.08	190.9			22 42	-55		30 44 SS
LITTLE ROCK	99.35	39.9	12 55	3				
TANANARIVE	99.73	253.8	12 53	-1			14 36	16 12
ALGIERS UNI.	100.45	324.6						19 51 PPP
MORGANTOWN	101.51	28.9	16 15	194				
PALISADES	102.63	24.1			22 40	-87		17 14 PP
CAPE HALLETT	105.37	170.2						15 59
COLUMBIA	105.73	32.8	16 42	777				17 46 PP
TAMANRASSET	109.70	313.6	17 38	777	23 35	0		18 21 PP
SCOTT BASE	109.91	173.7	17 36	777				
BERMUDA	113.52	20.7						18 47 PP
PRETORIA	118.80	255.7						17 53
SOUTH POLE	120.76	180.0	17 57	-1			20 22	19 32 PP
BYRD STATION	122.44	168.4	18 1	0			19 50	20 53 SKP
SAN JUAN	125.83	28.4	18 7A	0			20 5	
MBOUR	128.86	328.0	18 17	4				20 56 *SPKP
ST. CLAUDE	129.67	24.7	18 14	-1				20 32 PP
FORT FRANCE	131.07	24.7	18 19	1				21 1 *SPKP
BOGOTA	133.33	46.4	18 26	4				21 12 PP
TRINIDAD	134.65	27.3	18 16	-8				21 11 PP
HALLEY BAY	134.69	185.4	18 25	0				21 10 PP
HUANCAYO	144.06	65.8	18 44	2				21 40 *SPKP
LA PAZ	152.31	64.7	18 59A	5			20 57	22 51 PP

SEPTEMBER 28 14.H 20.M 0.S EPICENTRE -20.48-178.51 DEPTH= 549.KM

DEPTH OF FOCUS= 0.081R

A=-0.93724 B=-0.02443 C=-0.34783 D=-0.0261 E= 0.9997
G= 0.3477 H= 0.0091 K=-0.9376 HT= 4.6

SE= 1.69

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
SUVA	3.71	308.2	1 32	11				
RAOUL ISLAND	8.75	176.6	2 8	2	3 46	-1		
APIA	9.24	45.1	2 12	1	3 59	3		
NOUMEA	14.13	259.9	3 4A	3	5 34	8		
ONERAHI	16.47	200.8	3 28	4	6 0	-8		5 38 *SP

AUCKLAND	17.34	198.3	3 35	3				5 51 *SP
KARAPIRO	18.13	195.3	3 42	2	6 38	2		6 3 *SP
TONGARIRO	19.35	194.1	3 53	2	6 54	-3		6 16 *SP
WELLINGTON	21.51	193.9	4 11A	0	7 26	-7		6 35 *SP
COBB RIVER	21.85	198.0	4 13	-1	7 33	-5		6 44 *SP
KAIMATA	23.56	198.9	4 32	2	7 58	-8		14 17 SCS
GEBBIES PASS	24.30	195.7	4 35	-1	8 12	-6		10 40 SCP
BRISBANE	26.88	249.5	5 1K	2	8 56	-2		
ROXBURGH	26.94	199.1	4 59	-1	8 51	-8		6 31
RIVERVIEW	29.97	237.3	5 28K	2	9 47	1	7 4	8 12 *SP
RABAUL	32.80	295.6	5 49	-1	10 22	-8	7 31	8 20 PCP
CHARTERS TS.	33.02	264.6	5 52K	0	10 29	-4		
MELBOURNE	36.00	233.3	6 18K	2	11 13	-5	7 56	9 7 PP
MACQUARIE I.	38.04	201.3	6 35	2	11 48	0		
TRUK	40.26	310.6	6 51K	0	12 20	0	8 43	9 29 *SP
MADANG	43.38	302.2	6 32	-44				8 36
HAWAII V.OB.	45.73	31.3	7 33	-1	13 35	-3		
HONOLULU	46.07	26.8	7 36	-1	13 39	-3		16 34 SCS
KIPAPA	46.21	26.9	7 35	-3				9 3 PCP
GUAM	49.43	310.0	8 2	0	14 25	-3	10 0	10 13 PP
CAPE HALLETT	52.23	184.3	8 23A	1	15 9	3	10 10	11 15 PPP
TERRE ADELIE	52.89	198.6	8 28	1	15 24	9		
KOROR	53.84	296.0	8 35K	1	15 23	-4	10 31	10 54 PP
SCOTT BASE	57.86	183.7	9 2K	1	16 20	1	10 54	12 48 PPP
PERTH	59.23	244.4	9 19	8	16 36	0		
WILKES	63.77	205.3	9 38K	-2	17 26	-6	11 40	18 27 SCS
TORISIMA	64.31	320.9	9 43	-1	17 40	1		12 9
BYRD STATION	64.74	170.5	9 44K	-2	17 41	-3	11 40	12 14 PP
OASIS-BUNG.	67.73	205.7	10 3	-2	18 15	-4		
MERA	67.83	323.9	10 5K	0	18 21	1		11 37
OSIMA	67.97	323.4	10 7K	1	18 23	1		11 9
YOKOHAMA	68.31	324.1	10 9	1	18 27	1		19 23 SCS
AJIRO	68.33	323.5	10 8	0	18 24	-2		12 8
TOKYO C.M.O.	68.43	324.3	10 9K	0	18 25	-2		19 20 SCS
HONGO	68.45	324.4	10 9	0	18 27	0	12 16	
MISIMA	68.47	323.4	10 8K	-1	18 26	-2		12 7
OMAESAKI	68.50	322.6	10 9K	0	18 33	5		
MITO	68.57	325.3	10 10	0	18 26	-3	12 15	19 12 SCS
KAKIOKA	68.61	325.0	10 10	0	18 27	-2		
TUKUBASAN	68.65	325.0	10 8	-2	18 9	-21	12 6	13 46 *SP
SHIZUOKA	68.67	323.0	10 3K	-7	18 26	-4		12 9
ONAHAMA	68.77	326.0	10 11K	0	18 32	1		19 25 SCS
HUNATU	68.84	323.6	10 11	0	18 32	0		
HAMAMATU	68.87	322.3	10 14	2	18 36	4		
KUMAGAYA	68.98	324.4	10 11K	-1	18 35	1	12 11	13 27
UTUNOMIYA	69.02	325.0	10 11	-1	18 33	-1	12 18	19 27 SCS
TITIBU	69.02	324.1	10 12	-1	18 36	2		
KOHU	69.05	323.6	10 13	0	18 35	1		19 29 SCS
SIOMISAKI	69.12	320.2	10 13K	0	18 32	-3	12 19	12 19
SHIRAKAWA	69.25	325.7	10 12	-2	18 35	-2		19 20 SCS
OWASE	69.30	320.9	10 24	10			12 34	19 46 SCS
MAEBASI	69.34	324.4	10 13K	-1	18 39	1	12 8	13 3
IIDA	69.38	323.0	10 15	0	18 36	-2		
OIWAKE	69.57	324.1	10 17	1				18 14
TU	69.57	321.6	10 18	2				
HUKUSIMA	69.60	326.3	10 14	-2	18 40	-1		22 26
NAGOYA	69.62	322.2	10 16	0				12 24
SOUTH POLE	69.65	180.0	10 15K	-1	18 38	-3	12 13	13 0 PP
ISINOMAKI	69.67	327.3	10 15	-1	18 26	-16		13 1 PP
KAMEYAMA	69.69	321.7	10 14	-2	18 32	-10		12 26
SENDAI	69.77	326.9	10 16K	-1	18 43	0		19 32 SCS
MATUMOTO	69.83	323.6	10 17	0	18 51	8		
GIHU	69.90	322.3	10 18K	0	18 43	-1	12 24	22 26
MATUSIRO	69.91	324.0	10 17K	-1	18 43	-1	12 23	13 0 PP
NARA	69.94	321.1	10 18	0				
MUROTO	69.95	319.0	10 18	0				10 53
NAGANO	70.01	324.1	10 18	0	18 39	-6		22 24 SS
WAKAYAMA	70.02	320.4	10 18	0				
YAMAGATA	70.03	326.6	10 17	-1	18 44	-2		
OSAKA	70.10	320.9	10 21K	2	18 46	0	12 26	
HIKONE	70.11	321.8	10 20K	1	18 49	3	12 24	22 30 SS
BAGUIO CITY	70.14	296.9	10 17	-2	18 50	3		
TAKAYAMA	70.16	323.1	10 19	0				
KYOTO	70.24	321.3	10 19K	-1	18 48	0		
SUMOTO	70.28	320.3	10 19K	-1	18 50	2	12 24	19 28 SCS
MIYAKO	70.29	328.5	10 18K	-2	18 47	-1		
TAKADA	70.30	324.4	10 21	1				
MIZUSAWA	70.30	327.7	10 19	-1	18 47	-2		
KOBE	70.33	320.7	10 20	0	18 50	1	12 26	19 33 SCS

SIMIDU	70.39	317.9	10 20K	-1	18 10	-40	12 25	22 24 SS
NIIGATA	70.47	325.5	10 32K	11	19 3	12	12 34	13 24 PP
YAKUSIMA	70.48	314.6	10 25	4	18 58	7	12 28	
KOTI	70.55	318.9	10 21K	-1	18 54	3	12 27	19 29 SCS
TOYAMA	70.59	323.5	10 22	0	18 54	2	12 30	
HUKUI	70.65	322.4	10 23	1	18 55	2		11 2
HIMEJI	70.67	320.1	10 26	4				
MORIOKA	70.72	328.1	10 22	-1	18 51	-2		21 0
TAKAMATU	70.76	319.8	10 23	0	18 45	-9	12 24	13 12 PP
SAKATA	70.79	326.7	10 24	1				
MIYAZAKI	70.81	316.3	10 24K	1	19 0	6	12 30	
UẂAZIMA	70.95	318.0	10 24	0	19 0	4		
AIKAWA	70.97	325.1	10 25	1	18 57	1		
TOYOOKA	71.13	321.2	10 25K	0	18 59	1	12 31	13 15 PP
KAGOSIMA	71.15	315.5	10 25K	0	19 2	4	12 32	
HATINOHE	71.18	328.9	10 25K	0	18 52	-7		13 12 PP
MATUYAMA	71.22	318.6	10 25	0	19 0	1	12 31	
WAZIMA	71.24	323.8	10 26	0	19 1	2		
AKITA	71.27	327.4	10 26K	0	18 59	-1		15 23
OOITA	71.53	317.5	10 27	0	19 4	2		12 42
NEMURO	71.56	333.2	10 26K	-1	19 1	-2		13 11 PP
ASOSAN	71.67	316.9	10 30	2				
AOMORI	71.77	328.6	10 28K	-1	19 4	-1		11 59
HIROSIMA	71.78	318.9	10 27K	-2	19 7	2	12 34	22 48 *SS
KUSIRO	71.79	332.2	10 29K	0	19 5	0		38 38 PKPPKP
URAKAWA	71.85	330.7	10 30	1	19 7	1		19 51 SCS
KUMAMOTO	71.86	316.6	10 28K	-1	19 6	0	12 35	
YONAGO	71.93	320.2	10 30	0				12 8
MATSUE	72.11	320.1	10 29	-2	19 12	3		
OBIHIRO	72.27	331.5	10 31K	-1	19 12	1		
NAGASAKI	72.33	316.1	10 32	0	19 15	4	12 38	
HAMADA	72.35	319.1	10 30	-2	19 14	3		23 41 SS
SAGA	72.39	316.8	10 33K	1	19 15	3		
SIMONOSEKI	72.44	317.7	10 32	0				
SAIGO	72.46	320.8	10 33	0				
HUKUOKA	72.52	317.1	10 33K	0	19 14	1	12 36	13 20 PP
HAKODATE	72.53	329.2	10 33K	0			12 40	13 19 PP
ABASHIRI	72.67	332.8	10 35K	1	19 17	2		
TOMAKOMAI	72.70	330.2	10 36	2	19 18	3		
HENGCHUN	72.80	302.1	9 45	-50				
MURORAN	72.84	329.7	10 35	0				
MORI	72.85	329.3	10 35	0	19 10	-7	12 35	19 43 SCS
TAWU	72.86	302.4	10 33	-2	19 13	-4		
TAITUNG	72.87	302.9	10 35	0				
HSINKONG	72.88	303.3	10 34	-1	19 15	-2		
TOMIE	72.99	315.4	10 36K	0	19 21	3		
HWALIEN	73.15	304.2	10 39	3	18 19	-61		
SAPPORO	73.23	330.4	10 36K	-1	19 19	-2	12 44	13 23 PP
ASAHIGAWA	73.32	331.5	10 38	1	19 25	3		
ILAN	73.47	305.0	10 22	-16	15 32	-232		
KAOHSIUNG	73.50	302.4	10 43	5				
DJAKARTA	73.52	269.5	10 38	-1	19 19	-5		
SUTTSU	73.55	329.6	10 37	-2	19 27	2	12 40	13 49 PP
ALISHAN	73.55	303.4	10 39	0				
ITUHARA	73.65	316.9	10 39	0	19 11	-15		
TAINAN	73.73	302.7	10 42	2				
TAIPEI	73.78	305.1	10 42	2	19 30	3		
TAICHUNG	73.97	303.9	10 37	-4				
WAKKANAI	74.91	332.2	10 47	1	19 42	3		12 17
Y.-SAKHLINSK	75.68	333.7	10 50	-1	19 49	0		
PETROPAVLOVK	75.93	346.0	10 49	-3			12 55	13 50 PP
ZO-SE	77.32	310.2	10 59K	0	20 7	2	13 4	14 3 *SP
SAN NICOLAS	77.59	47.3	11 1K	0	20 11	3	13 4	
VLADIVOSTOK	77.99	325.2	11 3	0			13 12	14 12 PP
HONG KONG	78.26	299.2	11 5	0	20 16	1	13 7	14 13 *SP
SANTA CLARA	78.37	42.8	11 5K	0			13 8	14 13 PP
BERKELEY	78.48	42.2	11 5K	-1	20 17	0	13 8	24 13 *SS
LICK	78.56	42.9	11 6K	0	20 18	0	13 8	37 52 PKPPKP
KING RANCH	78.62	45.5	11 7K	1			13 9	14 15 *SP
UKIAH	78.66	40.7	11 6K	-1	20 17	-2	13 10	24 5 *SS
PALOS VERDES	78.69	47.5	11 7K	0	20 22	3	13 9	
SAN DIEGO	78.88	48.9	11 17	9				
PASADENA	79.02	47.2	11 8K	-1	20 18	-5	13 9	14 7 *SP
ARCATA	79.23	38.9	11 11	1	20 26	1		
DALTON	79.28	47.4	11 9K	-1				
CANTON	79.35	299.5	11 11K	1	20 27	1	13 16	14 15 SP
FRESNO	79.41	44.3	11 8K	-3				14 22
WOODY	79.42	45.6	11 10K	-1	20 27	0	13 15	14 19 *SP

RIVERSIDE	79.48	47.7	11 10K	-1	20 28	1	13 13	14 16 *SP
PALOMAR	79.49	48.5	11 10K	-1	29 57	570	13 13	14 20 *SP
NANKING	79.54	309.9	11 12K	1	20 33	5	13 18	14 22 *SP
ISABELLA	79.66	45.8	11 11K	-1	20 31	2		
SHASTA	80.13	39.8	11 14K	0	20 32	-2	13 18	37 52 PKPPKP
CHINA LAKE	80.34	46.1	11 15K	0	20 34	-2	13 18	14 28 *SP
FUTZELING	80.97	308.1	11 20A	1				
RENO	81.02	42.0	11 19K	0	20 45	2		12 30
DAIREN	81.39	317.0	11 22	1				
CORVALLIS	82.01	36.3	11 24K	0	20 53	0		13 44
CHANGCHUN	82.09	322.6	11 23	-1	20 45	-8	13 30	
BOULDER CITY	82.31	47.2	11 25K	0	20 55	-1	13 31	
SUIHWA	82.92	325.6	11 30	1	14 35	-387		
TUCSON	83.28	52.1	11 30K	0	20 54	-11	13 34	37 45 PKPPKP
MAGADAN	83.61	344.8	11 30	-2			13 36	23 26
PHU-LIEN	83.90	294.7	11 33	0	20 58	-13		
GUADALAJARA	84.13	65.5	11 40	6	21 6	-7		24 32
ALBERNI	84.21	32.0	11 33K	-2	21 1	-13		13 39 PP
VICTORIA	84.44	33.2	11 35	-1	21 15	-1		13 43 PP
SEATTLE	84.47	34.4	11 37K	1	21 7	-10		
CHIHUAHUA	85.24	57.2	11 42	2	21 6	-18	13 43	25 11 *SS
SITKA	85.28	22.0	11 38A	-2	21 4	-20	13 40	15 6 PP
PEKING	85.54	315.6	11 40K	-1	21 27	0	13 47	15 10 PP
KWANTING	86.02	315.5	11 40	-4				
LINFEN	86.79	310.4	11 51	4				
SALT LAKE C.	86.80	44.3	11 46K	-1	21 58	20	13 51	
TAIYUAN	86.84	312.2	11 49	2				
TACUBAYA	87.17	68.2	11 48A	-1	21 43	1	13 56	11 54 PCP
TATUNG	87.49	314.5	11 52	1				
KERGUELEN I.	87.75	217.5	11 54	2			14 5	
SIAN	87.84	307.7	11 52	0				
COLLEGE	88.29	12.6	11 52A	-2	21 46	-6	14 7	37 5 PKPPKP
OAXACA	88.41	71.3	11 56	1	21 53	0		21 25 SKS
KUNMING	88.94	297.1	11 59K	2	21 38	-20	14 5	15 7 *SP
BUTTE	89.03	39.5	11 57K	-1	21 57	-1	14 5	21 29 SKS
HUNGRY HORSE	89.41	37.0	11 58K	-2	21 34	-28	14 10	37 39 PKPPKP
BOZEMAN	89.77	40.4	12 2K	1	22 4	-1	14 9	37 44 PKPPKP
VERA CRUZ	89.78	69.5	12 0	-1	22 4	-1	14 4	21 36 SKS
PAOTOW	89.91	313.8	12 3	1				
CHENGTU	90.08	302.7	12 3K	0	22 12	4	14 11	15 14 *SP
BANFF	90.11	34.1	12 7K	4				
LUBBOCK	90.62	54.3	12 4	-1	21 40	-33		22 16 SKS
LARAMIE	91.22	46.1	12 7	-1				
YINCHUAN	91.59	310.6	12 13	3				
COMITAN	92.28	73.6	12 16	3	22 35	8		21 54 SKS
LANCHOW	92.40	307.6	12 15K	2	22 33	5	14 25	15 27 *SP
PORT BLAIR	92.88	281.3	12 17	2	21 57	-35		22 35
WUWEI	93.99	308.9	12 22	1				
RAPID CITY	94.00	44.3	12 20A	-1	22 45	3	14 30	16 14 PP
ULAN-BATOR	95.15	319.4	12 24	-2	22 2	-49		
TOCKLAI	96.19	296.1	12 32	2	22 10	-50		17 42
KYAKHTA	96.44	321.5	12 29K	-3			14 35	16 32 PP
FAYETTEVILLE	97.40	54.4	12 35A	-1			14 43	16 43 PP
HUANCAYO	97.87	105.9	12 40	2	22 23	-51	14 48	16 49 PP
SHILLONG	98.26	294.1	12 38K	-2	22 51	-26	15 4	16 47 PP
TIKSI	98.59	345.2	12 37	-4	23 13	-7		26 29 *SS
LHASA	100.23	297.8	12 49K	0	22 31	-63	14 59	16 0 *SP
TALA POZO	100.35	124.8			22 35	-60	15 0	17 10 PP
CALCUTTA	100.38	290.2	12 49	0				16 0
FLORISSANT	101.14	52.7	12 52A	-1	23 45	4	15 0	17 7 PP
LA PLATA	101.18	133.8	12 36	-17	22 31	-71		17 8 PP
BALBOA HTS.	101.41	84.6	12 54	0	22 35	-69		
LA PAZ	102.42	113.0	13 2A	4	22 46	-66	15 8	16 24 *SP
CHATRA	102.67	294.0	13 1	2	22 41	-73		
BOKARO	103.00	290.7	15 4	123	22 46	-71		
COLOMBO	103.24	272.5	13 1	-1				17 26 PP
CHINCHINA	103.78	89.8	13 5	1	22 47	-76	15 13	17 31 PP
CHICAGO CGS.	104.00	50.4			24 11	6		17 31 PP
MADRAS	104.89	278.5	13 10K	1	22 1	-132		13 31
BOGOTA	105.12	90.7	13 10	777	22 52	-69	15 18	17 40 PP
CINCINNATI	105.64	53.7			22 55	-64		17 36 PP
GALERAZAMBA	106.00	84.3			24 13	-11	15 24	17 45 PP
COLUMBIA	107.15	59.5	17 20	777	24 34	4		17 53
HYDERABAD	107.79	282.4	13 34	777				17 53
RESOLUTE	107.91	16.1	13 22A	777				17 52 PP
CLEVELAND	108.37	51.8						17 59 PP
CHAPEL HILL	109.16	58.0						17 34
MORGANTOWN	109.19	54.0	14 33	777				

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BUFFALO L.	110.72	50.8				17 30 PP
PENNSYLVANIA	110.96	53.0		25 8 107		18 19 PP
GEORGETOWN	111.26	55.2				18 22 PP
WASHINGTON	111.26	55.2	13 34 -239	24 2 40	15 46	18 20 PP
DEHRA DUN	111.30	295.5	13 54 -219			18 11
POONA	112.30	282.2	13 43 -233			17 33
SEMIPALATNSK	112.60	317.2	13 38 -238			
PHILADELPHIA	112.87	54.3		25 24 115		18 33 PP
OTTAWA	113.14	48.3	17 33K -2	23 25 -5		18 30 PP
BOMBAY	113.34	282.4	16 9 -87	28 23 292	18 29	20 25 PP
C.C.N.Y.	113.91	53.5	18 20 43			
PALISADES	113.96	53.3	13 47 -230	25 33 120	15 53	17 36 PKP
FORDHAM	113.97	53.4	17 35 -2	23 28 -5		24 40 SKKS
BREBEUF	114.62	48.4	17 38 0			
LAHORE	114.67	296.2	17 25 -13	23 31 -5		
SHAWINIGAN	115.29	47.3	17 37A -2	25 46 128		18 35 PP
FRUNSE	115.87	308.6	17 10 -30			13 58 P
SAN JUAN	116.62	79.2	17 40A -2	23 38 -5		19 0 PP
SEVEN FALLS	116.65	46.7	17 30K -12	25 48 125		18 21 PP
WARSAK DAM	117.34	298.5	17 40 -3	23 41 -4		
NORD	118.36	3.0	17 42 -3	23 41 -8		19 7 PP
TRINIDAD	118.83	88.9	17 45 -1			28 7 SP
KULYAB	119.15	302.7	13 21 -266	23 3 -49		
TASHKENT	119.72	306.6	17 47 -1	23 48 -6		14 15 P
ST. VINCENT	119.78	86.2	17 45 -3			19 19 PP
STALINABAD	119.99	303.4	17 45 -3			14 18 P
KARACHI	120.03	288.6	17 48K -1	23 56 1		17 28 PP
ST. CLAUDE	120.14	82.9	17 49 0	23 42 -13		25 22 SKKS
TANANARIVE	120.25	232.1	17 48A -1			19 24 PP
FORT FRANCE	120.31	84.5	17 50 1			19 22 PP
BERMUDA	120.39	63.8	16 32 -77			17 52
QUETTA	120.74	293.6	17 50K 0	23 58 1		19 25 PP
BARBADOS	121.33	86.8	17 53 2			
GRAHAMSTOWN	121.39	204.6	17 24K -27			
HALIFAX	121.70	49.6	17 50 -2	23 48 -12		19 34 PP
HERMANUS	122.85	197.4		24 0 -4		19 46 PP
PIETERMZBURG	122.93	210.1	17 53K -1			
SVERDLOVSK	123.71	325.4	17 54 -2	23 59 -7		14 32 P
PRETORIA	127.24	210.6	18 3 1			
SCORESBY SD.	128.08	9.8	18 0 -4			20 11 PP
ASHKABAD	128.19	302.6	17 55 -9		20 19	22 44 PKS
APATITY	128.81	344.9	18 2K -3	24 10 -11		20 8 PP
SODANKYLA	130.48	347.5	17 54 -15			
KIRUNA	131.18	350.6	17 55 -15			20 33 SKP
REYKJAVIK	133.64	13.9	18 15 0		20 51	
SKALSTUGAN	136.31	353.0	18 7 -13			20 55 SKP
HELSINKI	136.99	343.0	18 9 -12			21 0 SKP
TIFLIS	137.85	310.1	18 13 -9	24 25 -14		21 3 PP
UPPSALA	139.02	347.6	18 14 -10			21 3 SKP
BERGEN	140.03	357.1	18 21A -5			21 28 PP
ABERDEEN	143.26	3.3	18 31 -2			21 41 PP
SIMFEROPOL	143.67	319.7	18 29 -4			27 30 SKKS
COPENHAGEN	143.90	349.5	18 31K -3		20 49	22 5 PP
EDINBURGH	144.44	4.5	18 19 -16	24 15 -35		21 25 PKS
WARSAW	144.86	339.1	18 34K -1		20 54	34 27 PPS
LWOW	145.68	333.9	18 34 -3		20 53	27 57 SKKS
DURHAM	145.69	3.2	18 35K -2			22 27 PP
IASI	145.96	327.6	18 50 13		21 17	28 18 *PSKS
HAMBURG	146.33	350.9	18 36 -1			21 55 PKS
RATHFARNHAM	146.70	8.5	18 39K 1		21 0	22 0 PP
BACAU	146.73	327.3	18 42 4		21 26	19 37
KSARA	146.81	300.8	18 37K -1		20 54	
POTSDAM	146.91	347.0	18 37 -1		20 56	21 54 PP
KRAKOW	147.07	338.0	18 37 -1			22 2 PP
WITTEVEEN	147.47	354.2	18 40 1			
RACIBORZ	147.62	339.8	18 40 1			20 16
JERUSALEM	147.82	297.4	18 38 -1	25 51 57		
COLLMBERG	147.94	346.4	19 38 58	27 24 150		21 24 PP
HALLE	147.98	347.6	18 38 -2			40 37 SS
DE BILT	148.31	355.7	18 39K -1		21 0	22 2 PP
CAMPULUNG	148.57	327.3	18 42 1		21 5	
BUCHAREST	148.59	325.1	18 39K -2	27 1 126	21 3	28 14 *PSKS
JENA	148.59	347.7	18 40 -1		21 2	22 0 PP
PRAGUE	148.74	343.9	18 41 0	24 44 -12	21 3	22 2 PP
ISTANBUL KA.	148.87	317.4	18 38K -3			22 17 PP
PLAUEN	148.88	346.8	18 38 -3			40 40 SS
ISTANBUL UN.	148.94	317.4	18 40 -1			
KEW	149.04	2.2	18 41K 0		21 5	22 3 PP
CHEB	149.23	346.2	18 40 -2		20 55	22 5 *SPKP

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BENSBERG	149.26	353.0	18 40A	-2				
ANGRA DO HO.	149.33	47.5	18 53	11				21 6
HURBANOVO	149.52	337.6	18 47	5			21 9	22 25 *SPKP
BUDAPEST	149.52	336.2	18 43	1	25 30	33	21 6	
BRATISLAVA	149.64	339.1	18 42	0			21 3	22 24 PKS
KECSKEMET	149.74	334.8	18 48	6				
VIENNA-H.	149.81	340.0	18 42K	0	24 58	1	21 6	22 34 PP
TIMISOARA	150.03	331.8	18 50	7				32 47 PSKS
SZEGED	150.11	333.6	18 45	2	25 21	24		32 24 PS
KALOCSA	150.34	335.2	18 46	3				
KARLSRUHE	151.00	350.6	18 45A	1			21 8	22 33 PP
BELGRADE	151.09	331.4	18 43A	-1				22 35 PP
STUTTGART	151.10	349.4	18 44K	0			21 7	26 32 PPP
SOFIA	151.23	325.3	18 44	-1				22 34 PP
TUBINGEN	151.36	349.5	18 45	0				
HELWAN	151.49	295.1	18 44K	-1				32 40
STRASBOURG	151.51	351.2	18 44K	-1			21 1	22 40 PP
EBINGEN	151.71	349.4	18 44K	-1			21 10	
PARIS	151.73	358.6	18 46	1	24 52	-7	21 5	19 5 PKP2
RAVENSBURG	151.98	348.3	18 44	-2				
ZAGREB	152.06	338.1	18 48K	2				22 43 PKS
ZURICH	152.57	349.5	18 46	-1				19 7
BASLE	152.57	351.0	18 46K	-1				19 9
SKOPJE	152.76	326.3	18 48A	1				19 24
CHUR	152.89	347.8	18 47	0				
TRIESTE	152.94	340.9	18 46	-1			21 2	28 0 SKKS
BESANCON	153.05	353.2	18 47A	0				19 10 PKP2
NEUCHATEL	153.18	351.7	18 47	0				19 11
ATHENS	154.03	316.9	18 49A	0			21 18	22 55 PP
OROPA	154.37	349.5	18 55	6				23 0
PAVIA	154.56	347.3	18 49K	0	24 49	-14	21 7	22 51 PP
BOLOGNA	154.69	343.4	18 51K	2	25 12	9		19 20 PKP2
CLERMONT-FD.	154.74	357.3	18 50K	0			21 12	22 54 PP
FLORENCE X.	155.38	342.9	18 47	-3	26 20	77		23 15 PP
TARANTO	155.96	329.4	18 50	-1				36 40 PPS
MONACO	156.29	349.3	18 51	-1				19 24 PKP2
ROME	156.71	338.9	18 52K	0	25 2	-3	21 15	23 9 PP
MESSINA	158.55	328.4	18 51K	-4	25 26	19	21 15	23 16 PP
REGGIO CALA.	158.58	328.1	18 52	-3	25 15	8		23 6 PP
COIMBRA	158.59	21.2	18 56	1				42 30 SS
BARCELONA	159.12	358.7	19 0	5				23 28
CUGLIERI	159.45	344.4						20 10
LISBON	159.63	24.5	18 46K	-10			21 4	23 8 PP
TORTOSA	159.71	2.2	18 57	1				
TOLEDO	160.09	12.6	18 57K	1			21 16	23 14 PP
MBOUR	161.38	106.1	18 58	1	25 33	24	21 19	23 33 PP
ALICANTE	162.11	5.1	18 44	-14	24 40	-30		19 33 PKP2
GRANADA	162.78	13.9	18 55	-4	26 10	60	22 7	23 43 PP
ALMERIA	163.33	11.1	18 57	-2	25 6	-5	21 17	23 39 PP
ALGIERS UNI.	163.71	355.5	18 59K	-1			21 20	23 44 PP
RELIZANE	164.77	2.9	19 0	-1				23 50 PP
LOME	165.72	178.9	19 18	16				29 46 SKKS
TAMANRASSET	175.61	302.1	19 8K	1			21 27	24 45 PP

SEPTEMBER 28 14.H 44.M 5.S EPICENTRE -20.42-178.50 DEPTH= 558.KM

DEPTH OF FOCUS= 0.083R

A=-0.93760 B=-0.02453 C=-0.34684 D=-0.0261 E= 0.9997
G= 0.3467 H= 0.0091 K=-0.9379 HT= 4.6

SE= 1.24

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
RAOUL ISLAND	8.81	176.7	2 8	1	3 49	1		3 59
APIA	9.20	45.3	2 10	-1	3 53	-3		
NOUMEA	14.15	259.7	3 2	1	5 37	11		
ONERAHI	16.53	200.8	3 28	4	6 19	10		
KARAPIRO	18.19	195.3	3 43	3				6 41
TUAI	18.70	190.6	3 43	-2	6 39	-7		
TONGARIRO	19.41	194.1	3 50	-2	7 23	25		
WELLINGTON	21.57	193.9	4 10	-1	7 28	-5		
COBB RIVER	21.90	198.0	4 15	0	7 36	-3		
KAIMATA	23.61	198.8	4 29	-1	8 4	-2		
GEBBIES PASS	24.36	195.7	4 33	-4	8 11	-7		

BRISBANE	26.91	249.3	4 59K	0				
RABAUL	32.78	295.5	5 48	-1	10 26	-2		8 17 PCP
CHARTERS TS.	33.03	264.5	5 51A	0				
TRUK	40.23	310.6	6 51	1				8 41 PCP
MADANG	43.35	302.2	6 31	-44				
GUAM	49.39	309.9	8 1	0				
CAPE HALLETT	52.29	184.3	8 23A	1				
TERRE ADELIE	52.95	198.6	8 28	1	15 20	5		
KOROR	53.82	296.0	8 33	0				
SCOTT BASE	57.92	183.6	9 1A	0				
BYRD STATION	64.80	170.5	9 22	-24				
OASIS-BUNG.	67.79	205.7	10 1	-4				
SOUTH POLE	69.71	180.0	10 15	-1			12 13	13 8 *SP
MATUSIRO	69.87	324.0	10 16K	-1				10 35
HONG KONG	78.23	299.2	11 5	1				
BERKELEY	78.44	42.2	11 5K	0				
LICK	78.51	42.9	11 7K	2				
KING RANCH	78.58	45.5	11 6K	0				
PASADENA	78.98	47.2	11 8K	0				
FRESNO	79.37	44.3	11 10	0				
WOODY	79.38	45.6	11 10K	0				
RIVERSIDE	79.43	47.7	11 10K	0				13 19
PALOMAR	79.45	48.5	11 11K	1				
SHASTA	80.08	39.8	11 14K	1				
CHINA LAKE	80.29	46.1	11 15K	0				
RENO	80.97	42.0	11 19	1				
BOULDER CITY	82.27	47.2	11 25	0			13 52	
TUCSON	83.24	52.1	11 30	0			13 49	
EUREKA	83.39	43.7	11 30	0				
ALBERNI	84.16	32.0	11 33K	-1				
VICTORIA	84.38	33.2	11 35	0				
HORSESHOE B.	85.00	32.6	11 37K	-1				13 42
COLLEGE	88.23	12.6	11 52	-1			13 58	
HUNGRY HORSE	89.36	37.0	11 58	-1				
RAPID CITY	93.95	44.3	12 21	1				
MERIDA	96.09	70.0						15 55
HUANCAYO	97.88	105.9						15 48 *SP
OTTAWA	113.10	48.3	17 33	-1				
SHAWINIGAN	115.25	47.3	17 38A	-1				
SEVEN FALLS	116.60	46.7	17 30A	-11				
QUETTA	120.72	293.6	17 50K	1				
SODANKYLA	130.42	347.5	18 11	3				
KIRUNA	131.12	350.6	18 8	-1				
SKALSTUGAN	136.25	353.0	18 10	-9				18 18
HELSINKI	136.93	343.0	18 12	-8				18 22
UPPSALA	138.96	347.7	18 13	-11				
HAMBURG	146.27	350.9	18 39	2				
RATHFARNHAM	146.64	8.5	18 36	-1				
KSARA	146.78	300.9						21 20
KRAKOW	147.01	338.0	18 42	5				19 5
WITTEVEEN	147.41	354.2	18 42	4				
RACIBORZ	147.57	339.8	18 46	8				
JERUSALEM	147.80	297.5	18 44	5				
COLLMBERG	147.88	346.4	18 11	-28				18 43
HALLE	147.92	347.7	18 40	1				
JENA	148.53	347.7	18 39	-1				
PRAGUE	148.68	343.9	18 45	5				
PLAUEN	148.82	346.8	18 42	2				
ISTANBUL UN.	148.89	317.5	18 45	5				
KEW	148.98	2.2	18 45	5				
BRATISLAVA	149.59	339.2	18 41	0				
STUTTGART	151.05	349.4	18 44K	0			21 5	
TUBINGEN	151.30	349.5	18 52	8				
STRASBOURG	151.46	351.3	18 45	1				19 3 PKP2
EBINGEN	151.66	349.4	18 52K	7				
PARIS	151.66	358.6	18 55	10				42 4 SS
BASLE	152.51	351.1	19 7A	21				
TRIESTE	152.89	340.9	18 46	0				19 7 PKP2
BESANCON	152.99	353.3	18 48A	2				19 5 PKP2
TAMANRASSET.	175.58	302.8	19 7	1			21 29	20 50 PKP2

SEPTEMBER 29 8.H 13.M 25.S EPICENTRE -25.17 178.69 DEPTH= 570.KM

DEPTH OF FOCUS= 0.085R

A=-0.90589 B= 0.02070 C=-0.42300 D= 0.0228 E= 0.9997

G= 0.4229 H=-0.0097 K=-0.9061 HT= 3.3

SE= 1.80

	DELTA DEG.	AZ. DEG.	P M S	O-C S	S M S	O-C S	*PP M S	SUPP. M S
RAOUL ISLAND	5.06	144.1	1 32	0	2 50	4		
SUVA	6.99	358.0	1 50	0	3 23	6		
ONERAHI	11.20	198.4	2 34	3	4 38	6		13 47 SCS
NOUMEA	11.57	281.8	2 37A	2	4 45	6		
KARAPIRO	12.99	191.2	2 51	2	5 11	6		13 47 SCS
TUAI	13.65	185.1	2 54	-2	5 14	-3		
TONGARIRO	14.24	190.0	3 3	2				
APIA	14.44	40.2	3 1	-2	5 28	-3		13 57 SCS
WELLINGTON	16.39	190.5	3 19	-3	5 58	-7		13 55 SCS
COBB RIVER	16.62	195.9	3 29	4	6 12	3		13 57 SCS
KAIMATA	18.31	197.3	3 40	-1	6 36	-2		
GEBBIES PASS	19.13	193.5	3 47	-1	6 47	-5		
ROXBURGH	21.69	198.0			7 45	11		6 47
BRISBANE	23.10	258.7	4 25K	0	7 58	1		
RIVERVIEW	25.42	243.7	4 45	0	8 34	1		7 26 *SP
CHARTERS TS.	30.33	273.1	5 28K	0	9 47	-3		
MELBOURNE	31.23	238.0	5 35K	0	10 0	-3	7 12	7 51 PP
RABAUL	32.92	305.0	5 47K	-3	10 31	2		8 16 PP
TRUK	41.66	317.7	7 0	-1	11 41	-57		
MADANG	43.99	308.9	6 25	-54	11 25	-106		6 37
CAPE HALLETT	47.39	183.5	7 43A	-2	13 58	0		16 32 *SS
TERRE ADELIE	47.64	198.9	7 47	0	14 0	-1		
GUAM	50.70	315.4	8 8	-2	14 24	-19	9 51	10 16 PP
HONOLULU	51.40	28.0	8 14	-1				
KIPAPA	51.54	28.1	8 15	-1			10 5	
SCOTT BASE	53.04	183.1	8 25A	-2	15 16	2		17 17 SCS
KOROR	53.80	301.0	8 30	-2	15 25	1		9 30 PCP
WILKES	58.44	206.2			16 19	-5		17 51 SCS
BYRD STATION	60.58	169.8	9 16	-2	16 54	3	11 13	12 1 PP
MAMBAJAO	61.99	296.6	11 10	103				
OASIS-BUNG.	62.40	206.6	11 22	112				17 7
SOUTH POLE	64.98	180.0	9 45	-1	17 39	-5	11 42	9 55 PCP
MANILA	68.72	298.6	10 6	-3				14 17 PPP
BAGUIO CITY	70.09	299.9	10 15	-2	18 39	-4		
MERA	70.20	326.8	10 15	-3	18 45	0		
YOKOHAMA	70.69	327.0	10 20	-1	18 52	2		12 34
OMAESAKI	70.76	325.5	10 21	0			12 17	
MISIMA	70.80	326.3	10 19K	-2	18 51	0	12 17	
TOKYO C.M.O.	70.84	327.2	10 24	2	18 53	1		
SHIZUOKA	70.96	325.8	10 24	2	18 51	-2	12 16	19 36
DJAKARTA	70.99	272.1	10 19	-3	18 49	-4		
MITO	71.05	328.1	10 23	0	18 55	1	12 17	10 39 PCP
KAKIOKA	71.07	327.8	10 22	-1				
TUKUBASAN	71.10	327.8	10 22K	-1	18 55	0		12 18
HUNATU	71.19	326.4	10 24	0	19 6	10		
ONAHAMA	71.31	328.8			19 6	9		13 40
KOHU	71.39	326.4	10 24	-1	18 59	1		19 44
KUMAGAYA	71.40	327.2	10 25	0	19 0	2		
TITIBU	71.41	326.9	10 25	0	18 53	-5		
UTUNOMIYA	71.48	327.8	10 24	-1			12 17	19 36
TU	71.75	324.4	10 30	3				
MAEBASI	71.75	327.2	10 26	-1	19 2	0		12 36
SHIRAKAWA	71.77	328.4	10 28	1	19 1	-1		12 6
NAGOYA	71.85	325.0	10 27	0	19 4	1		19 47
KAMEYAMA	71.86	324.4	10 27	0	19 3	0		
OIWAKE	71.95	326.8	10 27	-1				18 35
YAKUSIMA	72.04	317.4	10 28	-1				
GIHU	72.13	325.0	10 29	0	19 6	0		
MATUMOTO	72.18	326.4	10 29	0	19 7	0		
OSAKA	72.21	323.7	10 31	2	19 8	1		
MATUSIRO	72.29	326.7	10 29K	-1	19 8	0	12 26	13 19 PP
TOKUSIMA	72.29	322.7	10 28	-2	19 5	-3		
HIKONE	72.30	324.6	10 30K	0	19 8	0	12 26	11 15
SUMOTO	72.34	323.1						12 27
SENDAI	72.38	329.6	10 30	0	19 9	0		
KYOTO	72.38	324.1	10 29K	-1				
NAGANO	72.39	326.8	10 30K	-1	19 7	-2		13 8 PP
KOTI	72.49	321.6	10 31K	0	19 10	0		13 28 PP
MIYAZAKI	72.53	319.1	10 31	0				
YAMAGATA	72.62	329.2	10 32	0				
TAKADA	72.70	327.1	10 35	3				
TAKAMATU	72.77	322.5						17 44
KAGOSIMA	72.80	318.3	10 33K	0	19 14	1		

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TOYAMA	72.91	326.1	10 34	1	19 17	2	12 33	
NIIGATA	72.96	328.1	10 34	0	19 16	1		
MIZUSAWA	72.97	330.3	10 32	-2	19 16	1		
OOITA	73.35	320.2	10 37	1	19 20	1		
SAKATA	73.38	329.3	10 37	1				
MORIOKA	73.42	330.6	10 35	-1				11 21
WAZIMA	73.59	326.4	10 38	1				
KUMAMOTO	73.59	319.3	10 36	-1			12 33	
HIROSIMA	73.71	321.5	10 30	-8	19 21	-2	12 35	
HWALIEN	73.76	306.9	10 25	-13	19 8	-16		
AKITA	73.92	330.0	10 40K	1	19 27	1		19 55
NAGASAKI	74.02	318.7	10 42	2				
SAGA	74.13	319.4	10 41	1	19 27	-1		
ILAN	74.15	307.6	10 41	1	19 31	3		
HUKUOKA	74.30	319.7	10 41K	0	19 22	-8	12 38	19 55
TAIPEI	74.47	307.7	10 43	1	19 30	-2		
AOMORI	74.51	331.1	10 44	2	19 36	4		
NEMURO	74.66	335.6	10 43	0	19 36	2		
URAKAWA	74.76	333.1	10 45	1	19 40	5		
KUSIRO	74.81	334.6	10 45	1	19 36	1		
OBIHIRO	75.23	333.8	10 46K	0				
HAKODATE	75.32	331.6	10 47K	0			12 45	
MORI	75.64	331.7	10 50	1	19 45	1		11 46
ABASHIRI	75.74	335.1	10 51	2	19 50	5		20 18
SAPPORO	76.11	332.7	10 51	0	19 49	0	12 47	20 17
SUTTSU	76.36	331.9	10 48	-5				
HALLEY BAY	78.27	173.7	11 1	-2				13 7
HONG KONG	78.38	301.4	11 3	0			13 3	14 3 *SP
ZO-SE	78.46	312.4	11 2K	-2			13 1	14 1 *SP
Y.-SAKHLINSK	78.80	335.8						13 6 PP
CANTON	79.49	301.6	11 10K	1	20 25	1	13 10	14 21 PP
NANKING	80.64	311.9	11 16K	1	20 36	0	13 15	14 10 *SP
FUTZELING	81.91	310.0	11 22	0				
KERGUELEN I.	82.48	218.7	11 24	-1			13 45	
SANTA CLARA	83.54	43.6			21 12	8		
PHU-LIEN	83.58	296.4	11 30	0				
BERKELEY	83.67	43.1	11 31A	1	21 4	-2	13 34	24 41 *SS
LICK	83.73	43.8	11 31A	0			13 35	
KING RANCH	83.73	46.3	11 32A	1			13 42	
UKIAH	83.88	41.6	11 32	1			13 39	40 21 SKPPKP
PASADENA	84.08	48.1	11 32A	0	21 1	-9	13 37	14 36 *SP
CHANGCHUN	84.30	324.3	11 33K	-1			13 35	14 57 PP
PALOMAR	84.51	49.3	11 35A	0	21 5	-9	13 41	15 1
RIVERSIDE	84.52	48.6	11 35A	0	21 7	-7	13 43	21 23
WOODY	84.53	46.5	11 34A	-1	21 17	3	13 43	14 46 *SP
FRESNO	84.55	45.1	11 35A	0			13 46	
ISABELLA	84.76	46.7	11 36A	0	21 5	-11	13 46	40 7 PKPPKP
SHASTA	85.36	40.8	11 43A	4				
SUIHWA	85.38	327.1	11 40	1				
CHINA LAKE	85.43	47.0	11 39A	0			13 50	40 8 PKPPKP
RENO	86.21	42.9	11 43A	0			13 54	
PEKING	87.13	317.0	11 47K	0	21 42	4	13 49	14 49 *SP
CORVALLIS	87.30	37.4	11 50K	2				[illegible]
BOULDER CITY	87.37	48.1	11 48	0	21 48	8	13 58	25 33 *SS
MAGADAN	87.48	346.2						13 51 PP
KWANTING	87.60	316.9	11 51	2				
LINFEN	87.90	311.7	11 54	3				
TAIYUAN	88.12	313.6	11 54	2				
TUCSON	88.17	53.0	11 52	0	21 56	8	13 57	21 27 SKS
EUREKA	88.58	44.7	11 53	-1			13 57	37 35 PKPPKP
SIAN	88.71	309.0	11 58	3				
KUNMING	88.82	298.3	11 56K	1	21 56	3	14 0	14 56 *SP
TATUNG	88.98	315.8	11 59	3				
ALBERNI	89.54	33.1	11 59	1	22 4	4		
VICTORIA	89.76	34.3	11 59A	0	22 7	5		14 5 PP
SEATTLE	89.78	35.4	12 2	3	22 5	3		
CHIHUAHUA	89.92	58.2	11 2	-58				16 29 PP
HORSESHOE B.	90.38	33.7	12 2A	0	22 11	4		14 10 PP
CHENGTU	90.48	303.8	12 4K	1	22 10	2	14 7	15 6 *SP
SITKA	90.58	23.1			22 11	3		25 53 *SS
TIENSHUI	91.13	307.9	12 7	1				
TACUBAYA	91.27	69.3	11 41	-25			13 15	14 49 PP
PORT BLAIR	91.30	282.2	12 7	1	21 45	-30		
PAOTOW	91.32	314.8	12 8	1				
LILLOOET	91.89	33.2	12 1	-8				
SALT LAKE C.	91.93	45.4	12 10	1	21 51	-30	14 16	12 57
YINCHUAN	92.71	311.5	12 20	7				
LANCHOW	93.24	308.4	12 15K	0	22 33	1	14 20	15 20 *SP

COLLEGE	93.43	13.7	12 15	-1	22 32	-1	14 26	21 55 SKS
VERA CRUZ	93.80	70.7						26 29
BUTTE	94.27	40.6	12 20	0			14 44	16 13 PKP
HUNGRY HORSE	94.68	38.1	12 21	-1	22 1	-43	14 30	37 25 PKPPKP
BOZEMAN	94.99	41.5					14 35	
TOCKLAI	95.94	296.6	12 34	6				22 9
ULAN-BATOR	97.04	319.9	12 32	-1	23 6	2		
SHILLONG	97.83	294.5	12 35K	-1	22 18	-52		16 18
HUANCAYO	98.99	107.8	12 44	3	22 19	-61	14 52	15 51 *SP
LA PLATA	99.72	135.9						22 24
LHASA	100.12	297.9	12 47K	1	23 34	4	14 52	15 50 *SP
IRKUTSK	100.58	323.0			22 30	-63		26 27 *SS
COLOMBO	100.86	272.6	17 1	251				22 36
FAYETTEVILLE	102.19	55.9	12 57	1				17 14 *SPP
CHATRA	102.20	293.9	12 57	1	22 38	-69		
TIKSI	102.46	345.6	12 54	-3	23 50	1	15 0	22 36 SKS
LA PAZ	102.87	115.2	12 59	0	22 45	-67		17 15 PP
MADRAS	103.02	278.4	17 12K	253				18 36
KODAIKANAL	104.37	274.7						17 37
FLORISSANT	106.00	54.4			24 25	-8		23 46 SKKS
ST. LOUIS 1	106.05	54.6			24 27	-6		17 41 PP
HYDERABAD	106.24	281.9			23 2	-8		17 42
BOGOTA	107.55	93.2						17 53 *SP
POONA	110.72	281.3	16 45	-43				18 14
DEHRA DUN	110.93	294.5						18 11
BOMBAY	111.76	281.3						18 16
RESOLUTE	113.12	16.8			25 24	118		33 39 SS
SEMIPALATNSK	114.21	316.0						17 33 PP
LAHORE	114.34	294.8			23 25	-6		18 16 PP
TANANARIVE	115.34	232.1	17 39K	2				18 42 PP
GRAHAMSTOWN	116.06	205.8	17 39K	0				
FRUNSE	116.69	307.1					18 52	23 40 SKKS
WARSAK DAM	117.21	296.8	17 40	-1				
PIETERMZBURG	117.60	211.1	17 42	0				
OTTAWA	118.15	50.3	17 42	-1				19 8 PP
PALISADES	118.79	55.5	17 45	1	23 42	-5	20 25	25 8 S
KARACHI	118.99	286.7			23 50	3		19 9 PP
SAN JUAN	119.92	82.5	17 46	0	23 51	0		20 27 PP
QUETTA	120.15	291.5	17 48K	1	23 55	4	20 29	19 31 PP
SHAWINIGAN	120.33	49.3	17 47A	0			20 27	27 58 PKKP
TASHKENT	120.34	304.6					19 12	23 52
KIMBERLEY	120.81	206.7	17 48	0				
TRINIDAD	121.35	92.7	17 50	1				
SEVEN FALLS	121.70	48.8	17 38K	-12			20 19	27 41 PKKP
NORD	123.15	2.7	17 51	-2				
BERMUDA	124.69	66.9						19 58
ASHKABAD	128.38	299.5						20 29 PKS
IVIGTUT	132.07	28.4	18 8	-2			20 42	
APATITY	132.57	342.7	18 1	-10	23 48	-38		20 44
SCORESBY SD.	133.11	9.3	18 4	-8				20 44 PP
SODANKYLA	134.41	345.3	18 9	-5				20 50 SKP
KIRUNA	135.30	348.5	18 8	-8				20 53 SKP
REYKJAVIK	138.79	13.5						21 4 SKP
SKALSTUGAN	140.56	350.5	18 19	-7				21 8 SKP
HELSINKI	140.58	339.6	18 18	-8				21 8 SKP
UPPSALA	142.92	344.2	18 26K	-4				21 13 SKP
KSARA	146.65	293.8	18 43	7			20 55	22 13 PP
JERUSALEM	147.33	290.1	18 37	0				20 56
COPENHAGEN	147.90	345.3	18 38	0			20 53	21 48 *SPKP
WARSAW	148.11	333.7	16 43K	-115			20 56	21 52 *SPKP
IASI	148.26	321.2	18 44	6			21 2	28 10 *PSKS
LWOW	148.51	328.0						21 31 PP
BACAU	148.99	320.7	18 46	7				
FOCSANI	149.29	319.1	18 55	15				20 2
KRAKOW	150.21	332.0	18 48	7	22 46	-128		21 17 PP
ISTANBUL KA.	150.21	309.7	18 46K	5				22 21 PP
ISTANBUL UN.	150.28	309.7	18 39	-2				20 57
HAMBURG	150.40	346.3	18 40A	-1				21 1 SKP
DURHAM	150.44	0.3	18 47A	6			21 0	
BUCHAREST	150.63	317.7	18 48K	6			21 1	28 24 *PSKS
POTSDAM	150.72	341.9	18 42	0				21 1
HELWAN	150.74	286.6	18 42K	0				
CAMPULUNG	150.80	320.0	18 49	7				
RACIBORZ	150.90	333.7	18 44	2				19 41
RATHFARNHAM	151.66	6.3	18 43	0				18 54 PKP2
COLLMBERG	151.70	340.9	18 43	0				21 4
WITTEVEEN	151.74	349.8	18 50	7				
HALLE	151.82	342.3	18 43	0			21 3	21 22 SKP
PRAGUE	152.31	337.9	18 45	1				21 25

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JENA	152.44	342.2	18 44	0			21 13	22 39	PP
HURBANOVO	152.60	330.7						21 9	PP
PLAUEN	152.66	341.1	18 43	-2			21 9	19 12	
BRATISLAVA	152.85	332.4	18 45	0	24 47	-10	20 56	28 38	
CHEB	152.96	340.4	18 47	2			21 8	33 0	PSKS
SOFIA	153.25	316.9	18 46	0				21 4	
BENSBERG	153.44	348.0	18 45	-1					
BELGRADE	153.65	323.5	18 55K	9				22 45	PP
KEW	153.73	358.6	18 56	10			21 12	19 11	PKP2
KARLSRUHE	155.02	344.7	18 49A	1			21 11	22 55	PP
STUTTGART	155.04	343.4	18 48K	0			21 24	28 48	SKKS
TUBINGEN	155.30	343.3	18 59	11					
STRASBOURG	155.57	345.3	18 49	0			21 5	22 58	PP
EBINGEN	155.65	343.2	18 49	0			21 26		
PARIS	156.22	353.8	18 50	1			21 6	23 4	PP
TRIESTE	156.24	333.1	19 0	10	25 6	5		28 51	SKKS
ZURICH	156.50	343.0	19 17	27					
BASLE	156.60	344.7	18 50A	0				19 24	
CHUR	156.70	341.0	18 42	-8				19 25	
BESANCON	157.22	347.1	18 52A	1				23 6	PP
NEUCHATEL	157.24	345.3	18 51	0				29 1	
TARANTO	158.25	319.1						28 42	
PAVIA	158.31	339.6	19 32	40				21 8	
FLORENCE X.	158.79	334.2	18 47	-6				23 17	PP
CLERMONT-FD.	159.14	351.3	18 54	1				23 17	PP
ROME	159.79	329.0	18 58	4				29 8	
MONACO	160.16	341.1	19 39	45			21 44		
REGGIO CALA.	160.69	315.9	18 54	-1				19 41	
MESSINA	160.69	316.3	19 2	7	25 44	39		22 47	PP
MBOUR	161.79	123.2	18 59	3			21 25	23 31	PP
BARCELONA	163.55	350.8	18 33A	-25					
TORTOSA	164.32	354.9	18 47	-11					
TOLEDO	165.15	8.3	17 44	-75			20 1	22 5	
ALICANTE	166.84	357.1	17 48	-73	23 49	-80		31 43	SKKKS
ALGIERS UNI.	167.85	343.1	19 1K	0			21 15	24 4	PP
GRANADA	167.87	8.7	19 1K	0	25 37	27	22 19	24 7	PP
ALMERIA	168.32	4.6	17 54	-67				24 4	PP
RELIZANE	169.34	351.8	19 1	-1			21 22	24 15	PP
TAMANRASSET	173.32	250.5	19 5K	1			21 20	24 29	PP

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